

# 2014 - 2015 SOLUTIONS GUIDE

For total efficiency



**COMAP**  
SOLUTIONS FOR EFFICIENCY

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# Details matter. Efficiency counts.

Let Comap be your partner in choosing and implementing the perfect solutions for efficiency. With over 60 years of industry experience and leadership, we are experts in building top quality and energy efficiency into every single component of HVAC and plumbing systems.

Our hardworking Connection and Control products combine quick, easy installation and reliable performance. They work perfectly together, eliminating any waste, energy loss or unnecessary maintenance.

We believe in total efficiency when it comes to working procedures too. This catalogue is designed to be one of your most valued resources, containing a wealth of expertise, tips, tools and knowledge that will help you work faster and more accurately. We also offer a service that's tailored for your needs, with an extensive dealer network and the logistics to provide the parts you need when you need them.

Our goals are the same as yours: safe, clean, energy-efficient buildings and maximum customer satisfaction. You can depend on Comap to help you get the results you want, every time.

[www.comap-group.com](http://www.comap-group.com)

# COMAP

**SOLUTIONS FOR EFFICIENCY**

Comap is dedicated to helping you create the best installations on the market, with products from top quality brands. In 2013 we are streamlining our approach with a new logo and tagline. With its assertive, pared-down design, the new logo reinforces both our professionalism and our motivation. It is a simple, direct signature to accompany our new tagline: Solutions for Efficiency. Together they illustrate our dedication to a very concrete goal: optimised efficiency in control and distribution systems. By presenting a fresh, new visual identity, we're letting everyone know that, with more than 60 years of experience, we're better placed than ever to offer you the solutions you need, whatever the job.

## WHY SOLUTIONS?

You name it – we have the part to fit! Whether your project is a house, an apartment block, a hospital or an industrial building, we can offer you the right fitting in the right material. We understand the physical requirements for industrial environments. We also cater to the sophisticated design and control preferences of modern residences. As well as this we ensure you can meet important safety and environmental regulations. In other words, no matter who your customer is, we will help you to create the results they want.

## WHY EFFICIENCY?

Did you know that 60% of a building's energy consumption is expended in HVAC systems? Up to one-fifth of that energy can be saved just by using energy-efficient connection and control components. That's a big saving for the environment and for your customers. Our range includes the most energy-efficient solutions in the materials and dimensions you need. We also place a high priority on quick, easy installation with expert technical assistance to help you get the most out of every working day.

# How do we create solutions for efficiency?

## BY STAYING CLOSE TO OUR CUSTOMERS

Most of our products are manufactured in France and Italy, at the heart of our European client base. That means we're always by your side. Whether you are an installer or a distributor, you can expect professional service that's tailored to your personal needs. Our sales teams are equipped to deliver practical training on the correct usage and installation of products. Technicians are on hand to help you on site if necessary. A hotline is at your service for advice on installation and regulation. The door is always open and we welcome your questions and suggestions.

### CONTACT US

Visit [www.comap-group.com](http://www.comap-group.com) to find your closest Comap contact.

## BY ENSURING RELIABLE PERFORMANCE

Your customers expect top quality results, delivered on time. Our efficient logistics system acts fast to make sure parts are delivered when you need them. Our supply chain ensures that orders, stocks and deliveries are carried out smoothly. Comap components are known for long-lasting reliability. To enhance this, we also offer you the tools and knowledge to install durable, high-performing and trouble-free systems.

## THROUGH CONSTANT INNOVATION

To offer you the best solutions in a fast-evolving building industry, we need to respond quickly to market demands, customer preferences and environmental regulations. We invest substantially in R&D and our products are currently covered by more than 450 patents. This tradition of innovation has allowed us to develop a host of products which are widely accepted as the industry standards. Look for the 'NEW' icon in this catalogue to learn more about our latest products.

**NEW**

# Solutions for efficiency

The right part for the right system

GENERATOR

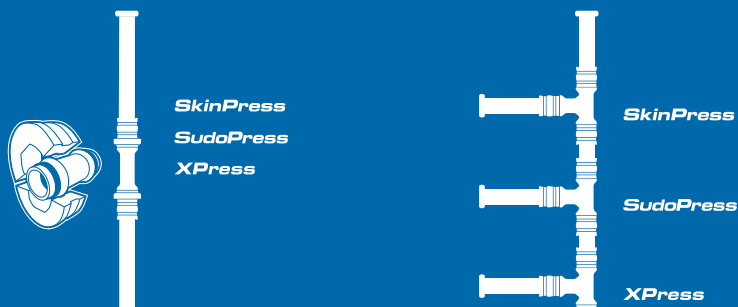
SOLAR  
HEAT PUMP

BOILER  
DISTRICT  
HEATING

## CONNECTION SOLUTIONS

Multiconnect press fittings

Pipes



Push fittings

*Tectite*

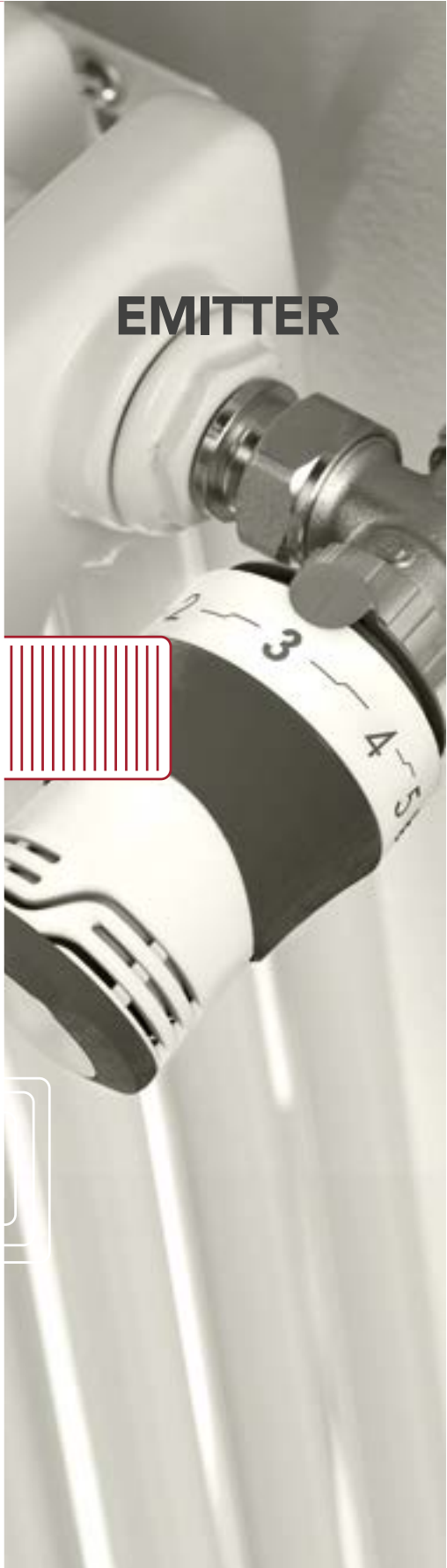
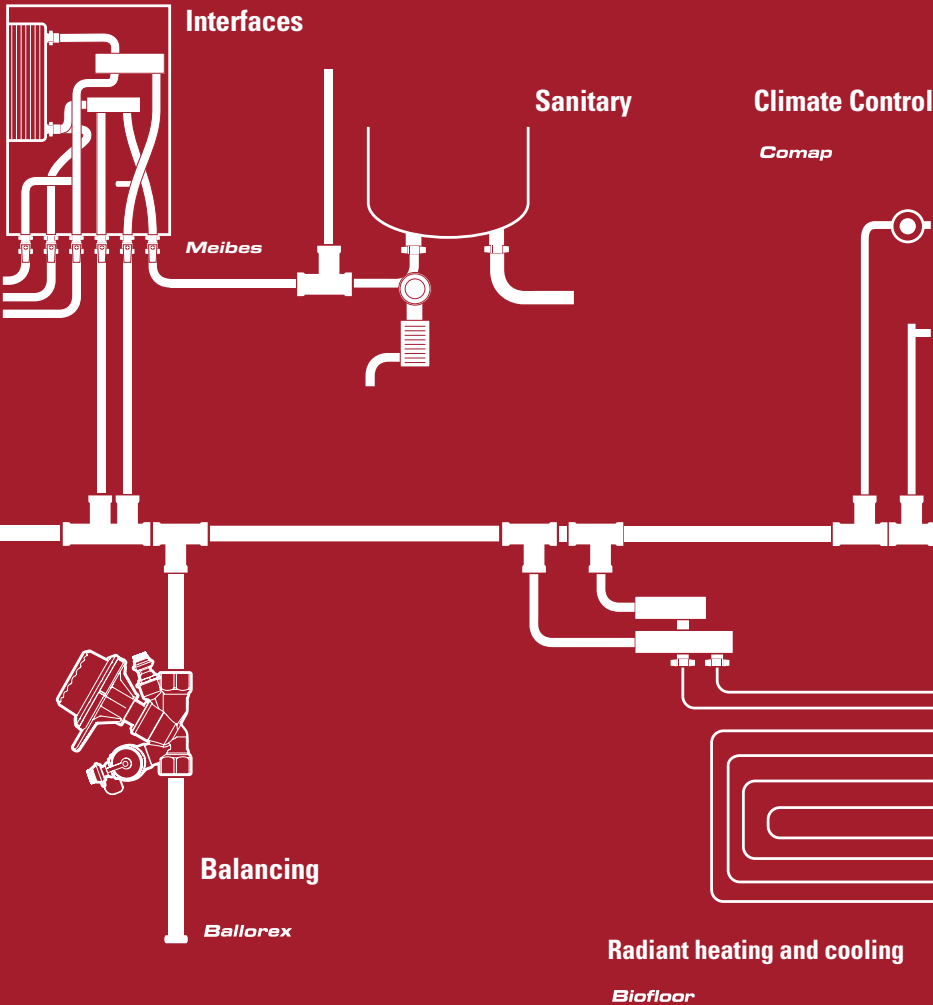


Traditional fittings

*Sudo*

Comap aims to be your ultimate partner, with solutions for every connection and control requirement between the energy generator and emitters. Every single product in our range is optimised to reduce costs, enhance building comfort, increase reliability and boost performance. We will help you create the most efficient systems for every client, application and installation type.

# CONTROL SOLUTIONS



# EMITTER

# Take a tour of our factories

With six specialised factories and one centralised logistics platform, we ensure you have the parts you need, when you want them, whatever the job.

Most Comap products are produced in Europe, at the heart of our client base.

## 1 ABBEVILLE, FRANCE

**Manufactures: thermostatic and manual radiator valves for heating applications; safety valves for sanitary applications.**

The Abbeville factory has a 5300m<sup>2</sup> production area which was completely renovated in 2003. The plant has developed solid expertise in combined design of products and industrial processes. This results in efficient manufacturing of new products through tight integration of stamping, cutting, machining, product assembly, automated testing and packaging.

The Abbeville factory's engineering capabilities include eco-design of products and laboratories that enable practical analysis and testing of our energy efficiency solutions.

## 2 ARREST, FRANCE

**Manufactures: brass connections for plumbing and sanitary applications; unique brass parts manufactured to client specifications.**

The Arrest factory is dedicated to bar cutting of traditional brass fittings and is flexible in order to meet diversity in demand. With digital machining equipment, the factory can also produce custom-made products for our OEM customers.

### CLEAN AND GREEN PRODUCTION

Our production sites are an important contribution to life in the communities where they are situated. At our Abbeville site, for example, we do what we can to keep the environment clean and reduce the energy consumed by production

#### Between 2006 and 2011:

We reduced electricity consumption by 27%.

We reduced water consumption by 8%.

The production of dangerous industrial waste was reduced by 60%.

The amount of waste sent to landfill was reduced by 51%.

At Comap we are continuously focused on reducing our impact on the environment wherever we operate.



### 3 MONTÉLIER, FRANCE

**Manufactures: water treatment products**

Our Montélier plant boasts more than 30 years of experience in producing water treatment solutions. Areas of expertise include filtration, UVGI disinfection and water softening through elimination of limescale.

### 4 NEVERS, FRANCE

**Manufactures: PEX pipe rolls for sanitary and heating applications.**

The Nevers factory produces rolls of PEX pipes representing about 60 millions of meters. The rolls are available in various lengths and can be made of bare pipe, corrugated pipe or even pre-insulated pipe.



### 5 CHÉCY, FRANCE

**Comap's largest international logistics platform**

Our logistics centre processes more than 5 million orders per year. At Chécy, 155 tonnes of packages are dispatched to more than 10,000 clients in over 50 countries.

### 6 SAINT-DENIS-DE-L'HÔTEL, FRANCE

**Manufactures: welded connections; pressed connections**

Built in 1939, this historic Comap production site was completely renovated in 2007. This plant is specialised in copper processing: cutting, bending and extrusion followed by automatic component assembly and testing.



### 7 BRESCIA, ITALY

**Manufactures: traditional and pressed connections for multilayer pipes.**

Located at the heart of brass transformation in Europe, this plant uses the latest technology for brass machining. Fully automated machines are used to assemble and test the products.



# Key products for 2013

## CONNECTIONS

### SKINPRESS MULTILAYER

#### Extended range



*SKINPress PPSU*

Our SKINPress range is now available in PPSU material. All SKINPress PPSU fittings feature VISU-CONTROL® and a patented O-ring.

See product page 26.



*SKINPress Gas*

To offer you more flexibility for gas installations, our SKINPress Gas range has been extended with a wealth of new items.

See product page 30.



*SKINPress Brass*

With more than 450 items, SKINPress is a reliable and well-known range for multilayer pipe connections. It features the VISU-CONTROL® ring which is deformed when crimped, indicating that the fitting is properly pressed.

See product page 16.

## CONTROLS

### SENSO

#### New design and colours



- Elegant design and high tech
- Accurate and responsive
- Reliable and secure
- Wide range of colour kits

See product page 318.

### TRV

#### New range



- State-of-the-art reliability with prevention of seat sticking and reduced risk of leaking
- Improved accuracy with pre-calibrated orifices.
- Bi-directional mounting

See product page 344.

## SUDOPRESS

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### New range



Two new ranges of SUDOPress fittings in carbon steel and stainless steel are now available from Comap.

All SUDOPress fittings feature VISU-CONTROL® and a patented O-ring.

See product page 68/76.



*SUDOPress Copper*

In addition to our SUDOPress Copper range, new items in copper and gun metal have been added. Their rotative function makes sure installation is easy and trouble-free.

See product page 46/60/66.

## TECTITE CARBON

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### New range



This is the newest addition to the renowned Tectite family of push fittings.

It is a carbon steel fitting designed for residential and commercial installations.

See product page 148.

## BALLOREX DP

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### Automatic Differential Pressure Control Valve



Ensures that TRVs work under the best conditions, in commercial or collective residential buildings.

See product page 296.

## SAFETY GROUP

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### Vertical safety group, stainless steel seat



The Safety Group range adapts to more severe conditions. The different materials used for the seat of our safety group range (brass, stainless steel) are perfectly adapted to the water features in your area.

See product page 446.

## APARTMENT MODULE

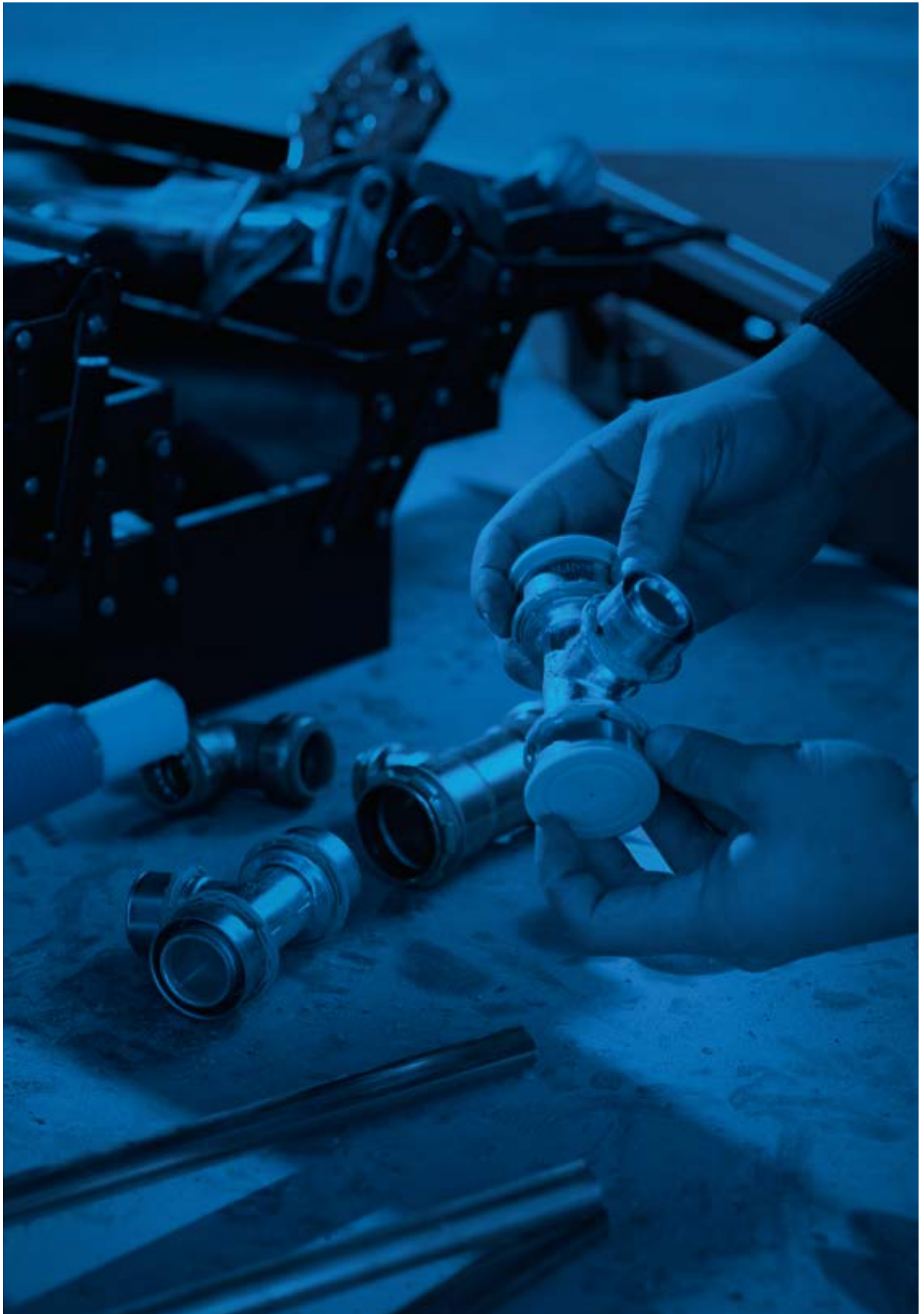
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### The solution for individualization



Enables the individualisation of energy distribution in collective housing as well as individual energy metering.

See product page 266.







# Efficient Connections

Designed to cover a huge range of applications and building types, our connection systems help you build the perfect installation, whatever the technical requirements. Our systems are quick, reliable and easy to install, saving you time and money.

Multiconnect press fittings	15
Push fittings	135
Pipes	157
Manifolds & junction boxes	183
Traditional fittings	203



# APPLICATIONS

	 Water	 Gas	 Solar	 Heating
Copper	○	○ <sup>2</sup>	○	○
Stainless steel	○		○ <sup>1</sup>	○
Carbon steel	○		○ <sup>1</sup>	○
PEX				○
Multilayers light	○			○
Multilayers	○	○ <sup>2</sup>		○

<sup>1</sup> With Viton O-ring

<sup>2</sup> Depending on local regulations

## MULTIPLE BENEFITS

**FAST:** Press fittings are 40% quicker than traditional solder solutions. A crimped fitting takes only 8 seconds!

**EASY:** Simple to use, with no need for large or heavy equipment.

**ECONOMICAL:** Press fittings allow a cost saving of 25% compared to traditional connection technologies.

**VERSATILE:** Crimping is suitable for all jobsites and installation types.

**SAFE:** No flammable substances or gas to carry around. The risk of accidents is reduced.

## DOUBLE CONTROL

The SUDOPress and SKINPress systems are reliable and safe, thanks to our double control feature.

### VISU-CONTROL®



Not pressed



Pressed



Not pressed



Pressed

This is a visual indicator of crimping. The ring around the fitting deforms when crimped so you can see and feel when the fitting is properly pressed.

### Patented O-ring



Not pressed

Pressed

The O-ring lets you know if the fitting is not pressed. If water flows past it during pressure testing, the fitting is not crimped. A pressure drop indicates that the fitting is not properly pressed.

# Multiconnect

## Press connections you can trust

Our multiconnect systems offer unbeatable versatility with fittings for almost any application. They require less equipment and consumables than traditional systems such as soldering. This considerably reduces the cost of an installation. Our press fittings can be installed in just 4 quick-and-easy steps.

SKINPress Multilayer – water applications	16
SKINPress Multilayer (PPSU) – water applications	26
SKINPress Multilayer – gas applications	30
SKINPress Multilayer – accessories	34
PEXPress fittings – water applications	40
SUDOPress copper – sanitary applications	46
SUDOPress copper – gas applications	60
SUDOPress copper – solar applications	66
SUDOPress stainless steel – sanitary applications	68
SUDOPress carbon steel – heating applications	76
SUDOPress carbon steel – accessories	84
XPress stainless steel – water applications	92
XPress carbon steel – water applications	102
XPress accessories	118
Crimping tools	120

# SkinPress

## SKINPRESS MULTILAYER FOR WATER APPLICATIONS

There's no need to choose between quality and efficiency; with our Multiconnect system you can have both. The Multiconnect system offers the widest range on the market, with connections for Multilayer, PEX, Copper, Stainless Steel and Carbon Steel pipes.



### APPLICATIONS

SKINPress for water applications is ideal for sanitary and heating installations. It should only be used with Comap multilayer pipes.

Application	Operating temperature	System operating pressure
Drinking water	+5°C to +95°C	10 bar
Heating and cooling	-10°C to +95°C	10 bar
Compressed air*	-10°C to +70°C	10 bar

\*Compressed air with less than 25mg/m<sup>3</sup> of oil.

For information regarding other fluids, please contact us.



PRESS TH PROFILE



VISU-CONTROL®



EUROPEAN PRODUCTION

### BENEFITS

- The press system is fast, economical, versatile and safe.
- VISU-CONTROL ring – the first connection with immediate crimping proof that you can see and touch.
- SKINPress design – protects the O-ring during installation.
- Perfect positioning of the jaw – the crimping tool is properly positioned thanks to the VISU-CONTROL ring.
- Protective caps for large diameters (40, 50 and 63mm) to prevent dirt penetrating the fittings.
- A check window ensures effective connection.

### FEATURES

- Green VISU-CONTROL ring.
- TH profile brass fittings from 12 to 63mm (THL profile for 32mm).
- High quality EPDM O-ring.

Certifications:

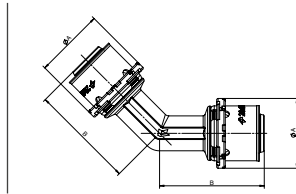




## FOR WATER APPLICATIONS

### 45° ELBOW

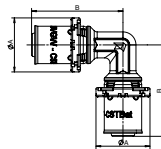
#### S7041V



Size	ITEM No	A	B	Qty
26x3	710JXX	36	54	2
32x3	710KXX	42	54,25	2
40x3,5	710LXX	50	54	2
50x4	710MXX	60	77	1
63x4,5	710NXX	73	85,5	1

### 90° ELBOW

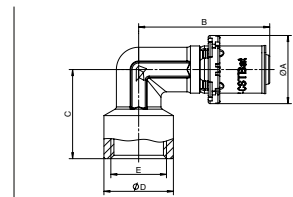
#### S7090V



Size	ITEM No	A	B	Qty
14x2	720AXX	24	44	2
16x2	720BXX	26	44	2
18x2	720DXX	28	50,5	2
20x2	720EXX	30	50,5	2
26x3	720JXX	36	54	2
32x3	720KXX	42	54	2
40x3,5	720LXX	50	56	2
50x4	720MXX	60	77	1
63x4,5	720NXX	73	85,5	1

### FEMALE ELBOW

#### S7090GV



Size	ITEM No	A	B	C	D	E	Qty
14x2 - 1/2	722ACX	24	50	34	26,5	G1/2"	2
16x2 - 1/2	722BCX2	26	50	34	26,5	G1/2"	2
18x2 - 1/2	722DCX	28	50	34	26,5	G1/2"	2
20x2 - 1/2	722ECX	30	50	34	26,5	G1/2"	2
20x2 - 3/4	722EDX	30	53	42,5	33	G3/4"	2
26x3 - 3/4	722JDX	36	54	42,5	33	G3/4"	2
32x3 - 1"	722KEX	42	54	49	39	G1"	2
40x3,5 - 1 1/4	722LFX	50	56	55,5	48	G1 1/4"	2
50x4 - 1 1/2	722MGX	60	77	60	55	G1 1/2"	1

## RELATED PRODUCTS

### MULTILAYER PIPES

To complete your SKINPress system, choose from the Comap range of Multilayer pipes.



**MultiSKIN range:** Diameters from 14 to 63mm. Made in PEX/Al, with a strong aluminium core for more resistance to high temperatures and pressures.

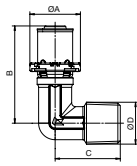
**BetaSKIN range:** Diameters from 14 to 32mm. Made in PE-RT/Al, with a light aluminium core for more flexibility in pipe handling.

Conforming to EN ISO 21003 standards, these pipes are available in bars, rolls, pre-insulated and protected in a corrugated conduit.

MultiSKIN pipes	158
BetaSKIN pipes	165

### ELBOW THREADED MALE

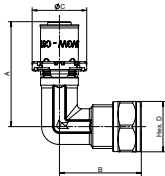
#### S7092GV



Size	ITEM No	A	B	C	D	Qty
14x2 - 1/2	726ACX	24	50	33,5	R1/2"	2
16x2 - 1/2	726BCX	26	50	33,5	R1/2"	2
18x2 - 1/2	726DCX	28	50	33,5	R1/2"	2
20x2 - 1/2	726ECX	30	50	33,5	R1/2"	2
20x2 - 3/4	726EDX	30	50	34,5	R3/4"	2
26x3 - 3/4	726JDX	36	54	39	R3/4"	2
32x3 - 1"	726KEX	50	54	53	R1"1/4"	2
40x3,5 - 1"1/4	726LFX	42	54	45,5	R1"	2

### ELBOW X COMPRESSION COPPER

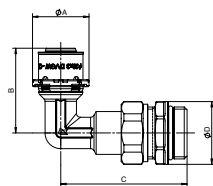
#### S7090JMV



Size	ITEM No	A	B	C	D	Qty
16x2 - 15	723BCX	50	39	26	24	2
20x2 - 22	723EGX	53	45,9	30	32	2
26x3 - 22	723JGX	54	45,6	36	32	2

### MALE ELBOW WITH O-RING

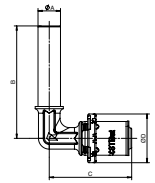
#### S7098DV



Size	ITEM No	A	B	C	D	Qty
26x3 - 1"	727JEX	36	54	80,5	40	2

### ELBOW X PIPE

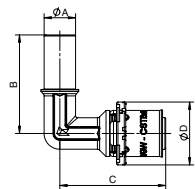
#### S7090EV



Size	ITEM No	A	B	C	Qty
16x2 - 12 - L150	721BAE	12	150	44	2
16x2 - 15 - L150	721BCE	15	150	44	2
20x2 - 22 - L60	721EGA	22	60	53	2
26x3 - 22 - L60	721JGA	22	60	54	2

### ELBOW X PIPE

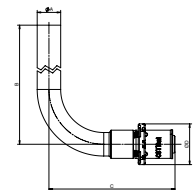
#### S7090SV



Size	ITEM No	A	B	C	D	Qty
14x2 - 12 - L100	728AAK	12	100	44	24	2
14x2 - 12 - L150	728AAE	12	150	44	24	2
16x2 - 12 - L100	728BAK	12	100	44	26	2

### CRIMP X CURVED PIPES

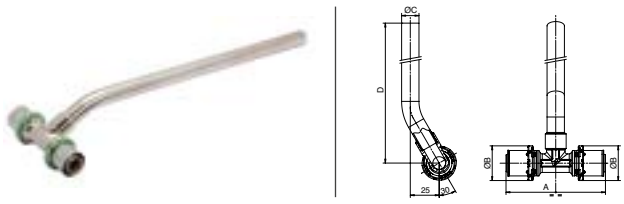
#### S7090LV



Size	ITEM No	A	B	C	D	Qty
16x2 - 15 - L200	724BCF	15	200	80,5	26	2
16x2 - 15 - L300	724BCG	15	300	80,5	26	2
16x2 - 15 - L1100	724BCH	15	1100	80,5	26	2
18x2 - 15 - L300	724DCG	15	300	80,5	28	2
20x2 - 15 - L300	724ECG	15	300	80,5	30	2

## CURVED PIPE WITH TEE END

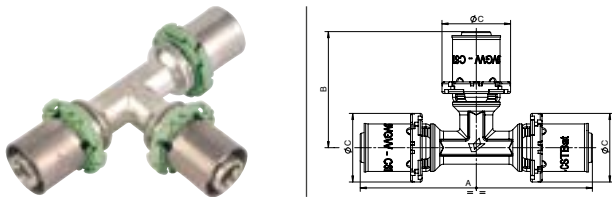
### S7130LV



Size	ITEM No	A	B	C	D	Qty
16x2 - 15 - L300	732BCG	86	26	15	300	2
20x2 - 15 - L300	732ECG	86	30	15	300	2

## EQUAL TEE

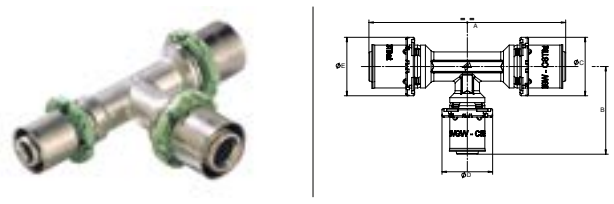
### S7130V



Size	ITEM No	A	B	C	Qty
14x2	730AXX	88	44	24	2
16x2	730BXX	88	44	26	2
18x2	730DXX	101	50,5	28	2
20x2	730EXX	101	50,5	30	2
26x3	730JXX	108	54	36	2
32x3	730KXX	108	54	42	2
40x3,5	730LXX	112	56	50	2
50x4	730MXX	154	77	60	1
63x4,5	730NXX	171	85,5	73	1

## REDUCED TEE

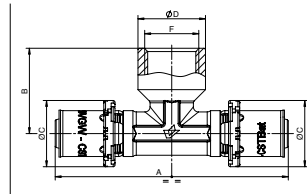
### S7130RV



Size (S1-S2-S3)	ITEM No	A	B	C	D	E	Qty
16x2 - 14x2 - 14x2	733BAA	88	44	26	24	24	2
16x2 - 14x2 - 16x2	733BAB	88	44	26	24	26	2
16x2 - 16x2 - 14x2	733BBA	88	44	26	26	24	2
16x2 - 20x2 - 16x2	733BEB	101	50,5	26	30	26	2
18x2 - 16x2 - 16x2	733DBB	98	45	28	26	26	2
18x2 - 16x2 - 18x2	733DBD	101	45	28	26	28	2
20x2 - 14x2 - 20x2	733EAE	101	45	30	24	30	2
20x2 - 16x2 - 16x2	733EBB	98	45	30	26	26	2
20x2 - 16x2 - 18x2	733EBD	101	45	30	26	28	2
20x2 - 16x2 - 20x2	733EBE	101	45	30	26	30	2
20x2 - 18x2 - 18x2	733EDD	101	50,5	30	28	28	2
20x2 - 18x2 - 20x2	733EDE	101	50,5	30	28	30	2
20x2 - 20x2 - 16x2	733EEB	101	50,5	30	30	26	2
20x2 - 26x3 - 16x2	733EJB	106	54	30	36	26	2
20x2 - 26x3 - 20x2	733EJE	106	54	30	36	30	2
26x3 - 16x2 - 16x2	733JBB	107	53	36	26	26	2
26x3 - 16x2 - 20x2	733JBE	107	46,5	36	26	30	2
26x3 - 16x2 - 26x3	733JBJ	108	46,5	36	26	36	2
26x3 - 18x2 - 18x2	733JDD	107	53	36	28	28	2
26x3 - 18x2 - 20x2	733JDE	107	53	36	28	30	2
26x3 - 18x2 - 26x3	733JDJ	108	53	36	28	36	2
26x3 - 20x2 - 16x2	733JEB	107	53	36	30	26	2
26x3 - 20x2 - 20x2	733JEE	107	53	36	30	30	2
26x3 - 20x2 - 26x3	733JEJ	108	53	36	30	36	2
26x3 - 26x3 - 16x2	733JJB	107	54	36	36	26	2
26x3 - 26x3 - 20x2	733JJE	107	53	30	30	36	2
26x3 - 32x3 - 26x3	733JKJ	108,5	54,25	30	36	30	2
32x3 - 16x2 - 32x3	733KBK	108,5	53	42	26	42	2
32x3 - 18x2 - 32x3	733KDK	108,5	53	42	28	42	2
32x3 - 20x2 - 32x3	733KEK	108,5	53,25	42	30	42	2
32x3 - 26x3 - 26x3	733KJJ	108,5	54,25	42	36	36	2
32x3 - 26x3 - 32x3	733KJK	108,5	54,25	42	36	42	2
32x3 - 32x3 - 26x3	733KKJ	108,5	54,25	42	42	36	2
40x3,5 - 26x3 - 40x3,5	733LJL	108	54	50	36	50	2
40x3,5 - 32x3 - 40x3,5	733LKL	108	54	50	42	50	2
50x4 - 26x3 - 50x4	733MJM	154	60	60	36	60	1
50x4 - 40x3,5 - 50x4	733MLM	154	62	60	50	60	1
63x4,5 - 26x3 - 63x4,5	733NJJ	171	69	73	36	73	1
63x4,5 - 40x3,5 - 63x4,5	733NLN	171	70	73	50	73	1

### TEE THREADED FEMALE

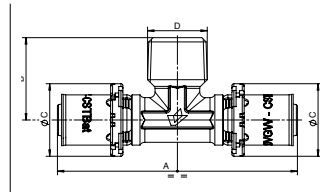
#### S7130GV



Size	ITEM No	A	B	C	D	F	Qty
14x2 - 1/4 - 14x2	731AAA	88	28	24	17,5	G1/4"	2
16x2 - 1/2 - 16x2	731BCB	91,5	33,5	26	26,5	G1/2"	2
18x2 - 1/2 - 18x2	731DCD	91,5	33,5	28	26,5	G1/2"	2
20x2 - 1/2 - 20x2	731ECE	91,5	33,5	30	26,5	G1/2"	2
20x2 - 3/4 - 20x2	731EDE	106	42	30	33	G3/4"	2
26x3 - 1/2 - 26x3	731JCJ	108	38	36	26,5	G1/2"	2
26x3 - 3/4 - 26x3	731JDJ	108	42	36	33	G3/4"	2
26x3 - 1" - 26x3	731JEJ	108	49	36	39	G1"	2
32x3 - 1/2 - 32x3	731KCK	108	40	42	26,5	G1/2"	2
32x3 - 1"1/4 - 32x3	731KFK	108	51	50	39	G1"	2
40x3,5 - 1" - 40x3,5	731LEL	112	55,5	50	48	G1"1/4"	2
40x3,5 - 1"1/4 - 40x3,5	731LEL	154	53	60	39	G1"	2
50x4 - 1" - 50x4	731MEM	118	55,5	42	48	G1"1/4"	1

### TEE THREADED MALE

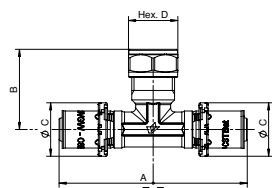
#### S7132GV



Size	ITEM No	A	B	C	D	Qty
16x2 - 1/2 - 16x2	734BCB	86	29,5	26	R1/2"	2
20x2 - 1/2 - 20x2	734ECE	86	29,5	30	R1/2"	2
20x2 - 3/4 - 20x2	734EDE	91,5	33,5	30	R3/4"	2
26x3 - 3/4 - 26x3	734JDJ	108	38	36	R3/4"	2
26x3 - 1" - 26x3	734JEJ	108	44	36	R1"	2
32x3 - 3/4 - 32x3	734KDK	108	41	42	R3/4"	2
32x3 - 1" - 32x3	734KEK	108	45,5	42	R1"	2
40x3,5 - 1" - 40x3,5	734LEL	118	54	42	R1 1/4"	2
40x3,5 - 1"1/4 - 40x3,5	734FL	108	54,5	50	R1"	2

### TEE TO SCREW AND COMPRESSION - COPPER

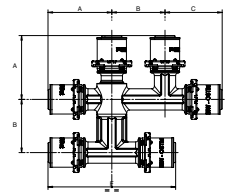
#### S7130JMV



Size	ITEM No	A	B	C	D	Qty
16x2 - 15	736BCB	91,5	39	26	G 1/2" B	2

### CROSS TEE

#### S7495V

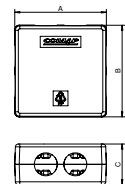


Size	ITEM No	A	B	C	F	Qty
16x2 - 16x2 - 16x2	782BBB	48	40	43	96	1
20x2 - 16x2 - 16x2	782EBB	48	40	43	96	1
20x2 - 16x2 - 20x2	782EBE	48	40	43	96	1
20x2 - 20x2 - 20x2	782EEE	48	40	43	96	1

### INSULATING AND PROTECTIVE FOAM BOX

#### S792

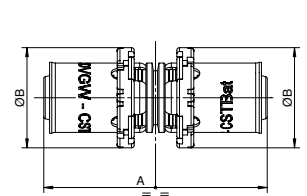
for cross tee (S7495V)



Size	ITEM No	A	B	C	Qty
124x124mm	792XXX	124	124	55	1

### STRAIGHT COUPLING

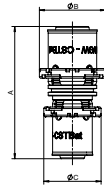
#### S7270V



Size	ITEM No	A	B	Qty
14x2	745AAX	58	24	5
16x2	745BXX	58	26	2
18x2	745DXX	58	28	5
20x2	745EXX	58	30	2
26x3	745JXX	60	36	2
32x3	745KXX	62	42	2
40x3,5	745LXX	64	50	2
50x4	745MXX	101	60	1
63x4,5	745NXX	101	73	1

## REDUCED COUPLING

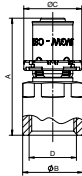
S7240V



Size	ITEM No	A	B	C	Qty
16x2 - 14x2	740BAX	60	26	24	5
18x2 - 16x2	740DBX	60	28	26	5
20x2 - 14x2	740EAX	60	30	24	5
20x2 - 16x2	740EBX	60	30	26	2
20x2 - 18x2	740EDX	60	30	28	5
26x3 - 16x3	740JBX	61	36	26	2
26x3 - 18x2	740JDX	61	36	28	2
26x3 - 20x2	740JEX	61	36	30	2
32x3 - 16x2	740KBX	63	42	26	2
32x3 - 20x2	740KEX	63	42	30	2
32x3 - 26x3	740KJX	64	42	36	2
40x3,5 - 26x3	740LJX	66	50	36	2
40x3,5 - 32x3	740LKX	66	50	42	2
50x4 - 32x3	740MKX	85,5	60	50	1
50x4 - 40x3,5	740MLX	85,5	60	42	1
63x4,5 - 40x3,5	740NLX	85,5	73	50	1
63x4,5 - 50x4	740NMX	103	73	60	1

## FEMALE COUPLING

S7270GV

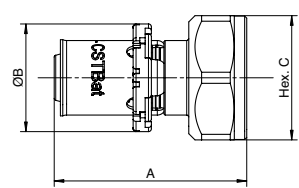


Size	ITEM No	A	B	C	Qty
14x2 - 1/2	746ACX	52,5	27	24	5
16x2 - 1/2	746BCX	52,5	27	26	2
18x2 - 1/2	746DCX	52,5	27	28	5
18x2 - 3/4	746DDX	54,5	33	28	5
20x2 - 1/2	746ECX	52,5	27	30	2
20x2 - 3/4	746EDX	54,5	33	30	2
26x3 - 3/4	746JDX	55,5	33	36	2
26x3 - 1"	746JEX	55,5	40	36	2
32x3 - 1"	746KEX	55,5	40	42	2
40x3,5 - 3/4	746LDX	61,5	48	50	2
40x3,5 - 1 1/4	746LFX	49	-	50	2
50x4 - 1 1/2	746MGX	76,5	63,5	60	1
63x4,5 - 2"	746NJX	80,5	71	73	1

## FEMALE SWIVEL NUT FLAT RING

S7359GV

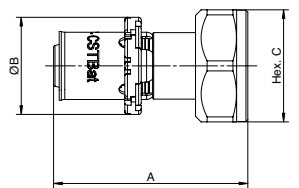
Flat ring included



Size	ITEM No	A	B	C	Qty
14x2 - 3/8	762ABX	50,2	24	19	5
14x2 - 1/2	762ACX	47	24	24	5
16x2 - 3/8	762BBX	50,2	26	19	2
16x2 - 1/2	762BCX	52,5	26	25	2
16x2 - 3/4	762BDX	46,5	26	30	2
18x2 - 1/2	762DCX	52,5	28	25	5
18x2 - 3/4	762DDX	46,5	28	30	5
20x2 - 1/2	762ECX	52,5	30	25	2
20x2 - 3/4	762EDX	51	30	30	2
26x3 - 3/4	762JDX	56,3	36	31	2
26x3 - 1"	762JEX	59,5	36	37	2
32x3 - 1 1/4	A421001001	53	42	46	2
40x3,5 - 1 1/2	A421002001	58,5	50	55	2

## FEMALE SWIVEL NUT O-RING 3/4" EUROCONE

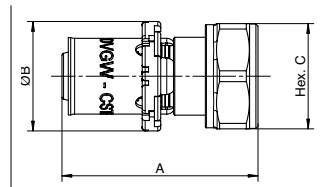
S7359GV-E



Size	ITEM No	A	B	C	Qty
16x2 - 3/4E	763BDX	52	26	30	2
18x2 - 3/4E	763DDX	52	28	30	5
20x2 - 3/4E	763EDX	52	30	30	2

## FEMALE SWIVEL NUT O-RING

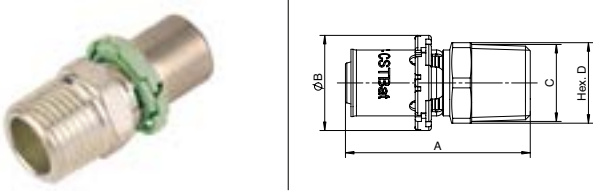
S7359GV-OR



Size	ITEM No	A	B	C	Qty
14x2 - M22	760APX	42,6	24	25	5
16x2 - M22	760BPX	46,6	26	25	2
18x2 - M22	760DPX	51,4	28	25	5
20x2 - M22	760EPX	51,4	30	25	2
16x2 - 3/4	761BDX	46,5	26	30	2
20x2 - 3/4	761EDX	51	30	30	2

## COUPLING - MALE CONICAL THREAD

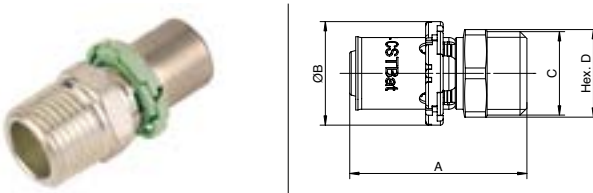
**S7243GV**



Size	ITEM No	A	B	C	D	Qty
14x2 - 1/2	742ACX	50,5	24	R1/2"	22	5
16x2 - 1/2	742BCX	50,5	26	R1/2"	22	2
18x2 - 1/2	742DCX	50,5	28	R1/2"	22	5
18x2 - 3/4	742DDX	51,5	28	R3/4"	27	5
20x2 - 1/2	742ECX	50,5	30	R1/2"	22	2
20x2 - 3/4	742EDX	51,5	30	R3/4"	27	2
26x3 - 3/4	742JDX	52,5	36	R3/4"	30	2
26x3 - 1"	742JEX	55,5	36	R1"	34	2
32x3 - 1"	742KEX	55,5	42	R1"	34	2
40x3,5 - 1"1/4	742LFX	56,5	50	R1" 1/4	45	2
50x4 - 1"1/2	742MGX	84	60	R1" 1/2	52	1
63x4,5 - 2"	742NJX	85,5	73	R2"	66	1

## COUPLING - MALE CYLINDRICAL THREAD

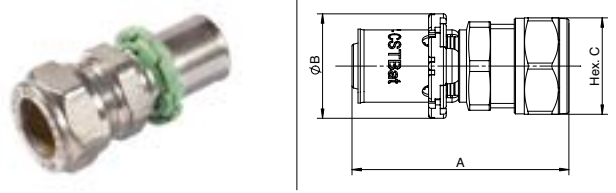
**S7243CV**



Size	ITEM No	A	B	C	D	Qty
14x2 - 3/8 cyl	743ABX	44,5	24	G 3/8" B	19	5
14x2 - 1/2 cyl	743ACX	44,5	24	G 1/2" B	22	5
16x2 - 3/8 cyl	743BBX	44,5	26	G 3/8" B	19	2
16x2 - 1/2 cyl	743BCX	44,5	26	G 1/2" B	22	2
20x2 - 1/2 cyl	743ECX	44,5	30	G 1/2" B	22	2
20x2 - 3/4 cyl	743EDX	46	30	G 3/4" B	27	2
26x3 - 3/4 cyl	743JDX	47	36	G 3/4" B	29	2
26x3 - 1" cyl	743JEX	49,5	36	G 1" B	34	2

## COUPLING X COMPRESSION CU

**S7240JMV**



Size	ITEM No	A	B	C	Qty
14x2 - 15	741ACX	54	24	24	5
16x2 - 15	741BCX	54	26	24	2
20x2 - 22	741EGX	54,4	30	32	2
26x3 - 22	741JGX	55,4	36	32	2

## COUPLING X PIPES

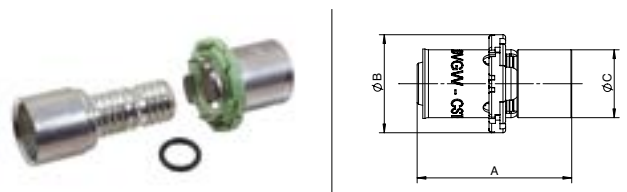
**S7270EV**



Size	ITEM No	A	B	C	Qty
16x2 - 15 - L43	747BCL	26	81	15	2

## STRAIGHT COUPLING X SOLDER

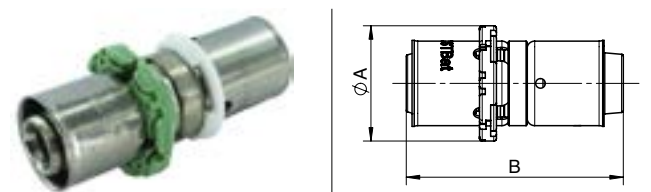
**S7090LMV**



Size	ITEM No	A	B	C	Qty
16x2 - 18	725BXX	41	26	18	2

## ADAPTER SKIN (TH PROFILE) / PEX (CO PROFILE)

**S787V**



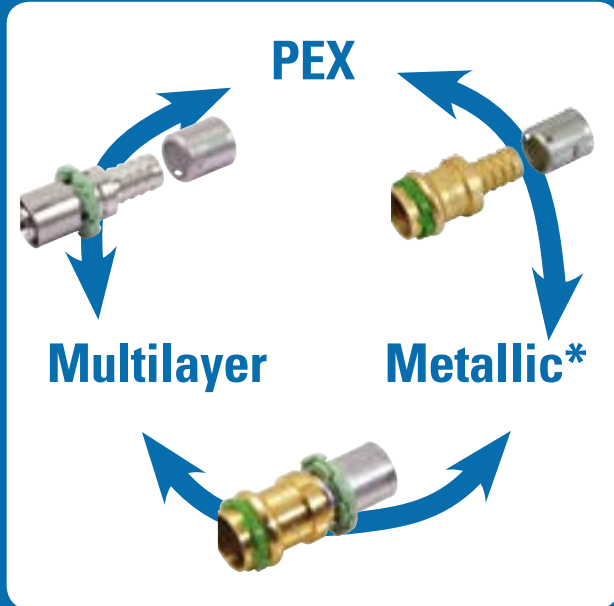
Size	ITEM No	A	B	Qty
14x2 SKIN - 12x1,1 PEX	787AAX	24	48,5	2
16x2 SKIN - 16x1,5 PEX	787BBX	26	50	2
20x2 SKIN - 20x1,9 PEX	787EDX	30	56,5	2



# TIP

## MULTICONNECT TIPS

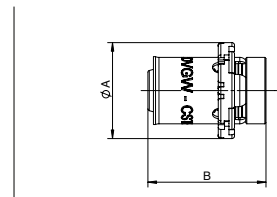
Adaptor fitting is one of the keys to our Multiconnect system. This adaptor or bridge is a smart fitting that allows the use of different pipes on the same network. It is ideal for renovation, as you can switch from a copper pipe to a Multilayer pipe.



\*Metallic = Copper, Stainless Steel or Carbon Steel pipe

## END CAP

### S7300V

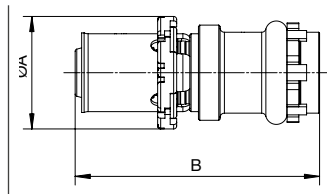


Size	ITEM No	A	B	Qty
14x2	780AXX	24	32	5
16x2	780BXX	26	32	2
20x2	780EXX	30	32	2
26x3	780JXX	36	34,5	2
32x3	780KXX	42	34,5	2
40x3,5	780LXX	50	36,5	2

## ADAPTOR COPPER (V-PROFILE) - SKIN (TH PROFILE)



### SP57270V

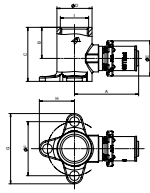


Size	ITEM No	Old code	A	B	Qty
Cu14 - SKIN 14x2	57270VW14	584BAX	24	56,5	2
Cu15 - SKIN 16x2	57270VW1516	584CBX	26	56	2
Cu15 - SKIN 20x2	57270VW1520	584CEX	30	54	2
Cu15 - SKIN 26x2	57270VW1526	584CJX	36	55	2
Cu16 - SKIN 16x2	57270VW16	584DBX	26	56,5	2
Cu18 - SKIN 16x2	57270VW1816	584EBX	26	56	2
Cu18 - SKIN 20x2	57270VW1820	584EEX	30	56	2
Cu22 - SKIN 20x2	57270VW2220	584GEX	30	57	2
Cu22 - SKIN 26x2	57270VW2226	584GJX	36	55,5	2

## WALL PLATE ELBOW

### S7473GV

(Height=40mm)

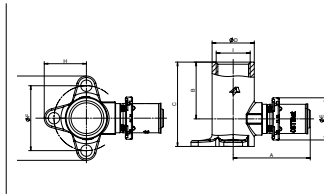


Size	ITEM No	A	B	C	F	G	H	Qty
14x2 - 1/2 - Height 40	774ACX	47,5	23	40	40	52	26	2
16x2 - 1/2 - Height 40	774BCX	47,5	23	40	40	52	26	2
20x2 - 1/2 - Height 40	774ECX	47,5	23	40	40	52	26	2

## LONG WALL PLATE ELBOW

### S7471GV

(Height=52mm)

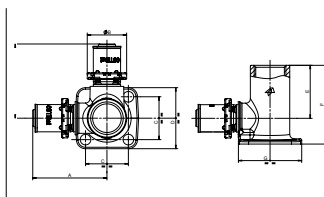


Size	ITEM No	A	B	C	F	G	H	Qty
16x2 - 1/2 - Height 52	771BCX	47,5	35	52	40	52	26	2
18x2 - 1/2 - Height 52	771DCX	47,5	35	52	40	52	26	2
20x2 - 1/2 - Height 52	771ECX	47,5	35	52	40	52	26	2
20x2 - 3/4 - Height 52	771EDX	49,5	25	46	40	52	26	2
26x3 - 3/4 - Height 52	771JDX	50,5	25	46	40	52	26	2

## DOUBLE WALL PLATE ELBOW

### S7471DGV

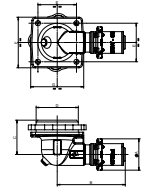
(Height=52mm)



Size	ITEM No	A	C	D	E	F	G	Qty
16x2 - 1/2 - 16x2	770BCB	49	28,3	40,3	35	52	41,8	2
18x2 - 1/2 - 18x2	770DCX	49	28,3	40,3	35	52	41,8	2
20x2 - 1/2 - 20x2	770ECE	47,5	28,3	40,3	35	52	41,8	2

## TAP CONNECTOR

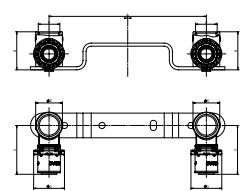
### S7490V



Size	ITEM No	A	B	C	D	E	F	G	Qty
16x2 - 1/2	781BCX	26	56,5	28,5	M 35x1,5	32	42	44	2

## SUPPORT 2 WALL PLATES

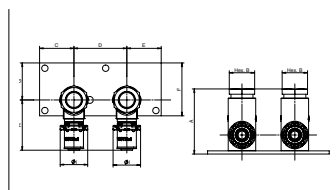
### S9507V



Size	ITEM No	A	B	C	D	E	F	Qty
16x2 - 3/8 - ia120	784BBD	120	37	47,5	26	26	G3/8"	1
14x2 - 1/2" - ia150	A422001001	150	37	47,5	26	26	G1/2"	1
16x2 - 1/2 - ia150	784BCE	150	37	47,5	30	26	G1/2"	1
20x2 - 1/2 - ia150	784ECE	150	37	47,5	24	26	G1/2"	1

## SUPPORT WITH 2 WALL PLATES ELBOW AND CU 15 COMPRESSION

### S7506V



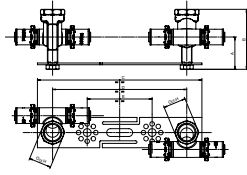
Size	ITEM No	A	C	D	E	F	G	H	Qty
16x2 - Height 61 - ia35	783BCA	61	47,5	35	32,5	50	35	47,5	1
16x2 - Height 61 - ia50	783BCB	61	32,5	50	32,5	50	35	47,5	1
16x2 - Height 73 - ia35	A422002001	73	47,5	35	32,5	50	35	47,5	1
16x2 - Height 73 - ia50	783BCD	73	32,5	50	32,5	50	35	47,5	1



## SUPPORT WITH 2 FEMALE TEE ADJUSTABLE

### S777V

interaxis 75, 115 or 155mm

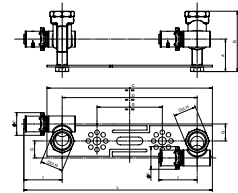
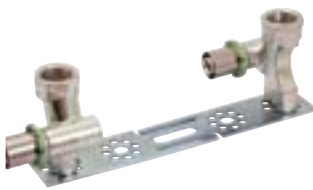


Size	ITEM No	A	B	C	D	E	Qty
16x2 - 1/2	777BCX	37,3	69,3	190	155	75	1
20x2 - 1/2	777ECX	37,3	69,3	190	155	75	1

## SUPPORT WITH 2 WALL PLATES ADJUSTABLE

### S778V

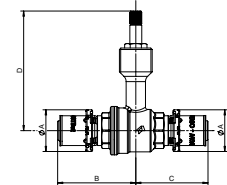
interaxis 75, 115 or 155mm



Size	ITEM No	A	B	C	D	E	Qty
16x2 - 1/2	778BCX	37,3	69,3	190	155	75	1

## BALL VALVE WITH SKINPRESS CONNECTION

### S7694V



Size	ITEM No	A	B	C	D	Qty
16x2	786BXX	26	52,5	48,5	80,3	1
18x2	786DXX	28	52,5	48,5	80,3	1
20x2	786EXX	30	52,5	48,5	80,3	1
26x3	786JXX	36	64,5	64,5	83	1

## END CAP (FOR SKINPRESS BALL VALVE)

### S7694A



ITEM No	Qty
7699001	12

## COLD OR HOT WATER ROUND HANDLE (FOR SKINPRESS BALL VALVE)

### S7694B



ITEM No	Qty
7699002	10

## HANDLE (FOR SKINPRESS BALL VALVE)

### S7694C



ITEM No	Qty
7699003	12

## HANDLE KIT (FOR SKINPRESS BALL VALVE)

### S7694D



ITEM No	Qty
7699004	12

# SkinPress

## SKINPRESS PPSU MULTILAYER FOR WATER APPLICATIONS

There's no need to choose between quality and efficiency; with our Multiconnect system you can have both. The Multiconnect system offers the widest range on the market, with connections for Multilayer, PEX, Copper, Stainless Steel and Carbon Steel pipes.



### APPLICATIONS

SKINPress PPSU for water applications is ideal for sanitary and heating installations. It should only be used with Comap multilayer pipes.

Application	Operating temperature	System operating pressure
Drinking water	+5°C to +95°C	10 bar
Heating and cooling	-10°C to +95°C	10 bar
Compressed air*	-10°C to +70°C	10 bar
Fuel oil	-10°C to +70°C	10 bar

\*Compressed air with less than 25mg/m<sup>3</sup> of oil.

For information regarding other fluids, please contact us.



**PRESS TH PROFILE**



**VISU-CONTROL®**



**PATENTED O-RING**



**EUROPEAN PRODUCTION**

### BENEFITS

- The press system is fast, economical, versatile and safe.
- VISU-CONTROL ring – the first connection with immediate crimping proof that you can see and touch.
- The patented O-ring lets you know during pressure tests if you have forgotten to crimp a fitting.
- SKINPress design – protects the O-ring during installation.
- Perfect positioning of the jaw – the crimping tool is properly positioned thanks to the VISU-CONTROL ring.
- A check window ensures effective connection.

### FEATURES

- Green VISU-CONTROL ring.
- Patented O-ring.
- TH profile PPSU fittings from 16 to 32mm (THL profile for 32mm).
- High quality EPDM O-ring.

Certifications:

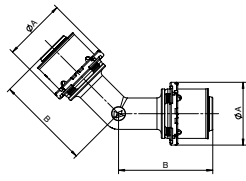


## FOR WATER APPLICATIONS

### 45° ELBOW

NEW

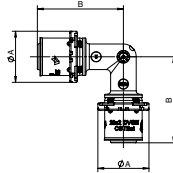
P041



Size	ITEM No	Old code	A	B	Qty
26x3	P041L26	-	36	54	10
32x3	P041L32	-	42	54	5

### 90° ELBOW

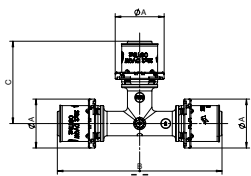
P090



Size	ITEM No	Old code	A	B	Qty
16x2	P090L16	A412128001	26	44	10
20x2	P090L20	A412129001	30	50,5	10
26x3	P090L26	A412130001	36	54	10
32x3	P090L32	-	42	54	5

### EQUAL TEE

P130



Size	ITEM No	Old code	A	B	C	Qty
16x2	P130L16	A412131001	26	88	44	10
20x2	P130L20	A412132001	30	101	50,5	10
26x3	P130L26	A412133001	36	108	54	10
32x3	P130L32	-	42	108	54	5

## \* NOTE

### A SMART SOLUTION

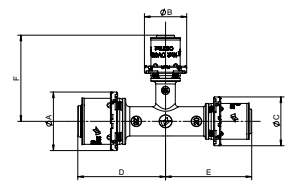


The new SKINPress PPSU – a fitting full of benefits:

- PPSU material for a lightweight and highly resistant fitting.
- Corrosion resistant for a long product life.
- White colour is discreet and aesthetic.

### REDUCED TEE

P130R



Size (S1-S2-S3)	ITEM No	Old code	A	B	C	D	E	F	Qty
16x2 - 20x2 - 16x2	P130RL162016	A412134001	26	30	26	50,5	50,5	50,5	10
20x2 - 16x2 - 16x2	P130RL201616	A412135001	30	26	26	50,5	47,5	45	10
20x2 - 16x2 - 20x2	P130RL201620	A412136001	30	26	30	50,5	50,5	45	10
20x2 - 20x2 - 16x2	P130RL202016	A412137001	30	30	26	50,5	50,5	50,5	10
20x2 - 26x3 - 16x2	P130RL202616	-	30	36	26	50,5	50,5	54	10
20x2 - 26x2 - 20x2	P130RL202620	-	30	36	30	50,5	50,5	54	10
26x3 - 16x2 - 16x2	P130RL261616	-	36	26	26	54	53	53	10
26x3 - 16x2 - 20x2	P130RL261620	A412138001	36	26	30	54	53	53	10
26x3 - 16x2 - 26x3	P130RL261626	A412139001	36	26	36	54	54	48	10
26x3 - 20x2 - 20x2	P130RL262020	A412140001	36	30	30	54	53	53	10
26x3 - 20x2 - 26x3	P130RL262026	A412141001	36	30	36	54	54	53	10
26x3 - 26x3 - 16x2	P130RL262616	-	36	36	26	54	53	54	10
26x3 - 26x3 - 20x2	P130RL262620	A412142001	36	36	30	54	53	54	10
32x3 - 16x2 - 32x3	P130RL321632	-	42	26	42	54	54	52,5	5
32x3 - 20x2 - 32x3	P130RL322032	-	42	30	42	54	54	50,5	5
32x3 - 26x3 - 26x3	P130RL322626	-	42	36	36	54	54	54	5
32x3 - 26x3 - 32x3	P130RL322632	-	42	36	42	54	54	54	5

## REDUCED COUPLING

### P240



Size	ITEM No	Old code	A	B	C	Qty
20x2 - 16x2	P240L2016	A411064001	30	26	60	10
26x3 - 16x2	P240L2616	A411065001	36	26	61	10
26x3 - 20x2	P240L2620	A411066001	36	30	61	10
32x3 - 16x2	P240L3216	-	42	26	62	5
32x3 - 20x2	P240L3220	-	42	30	62	5
32x3 - 26x3	P240L3226	-	42	36	64	5

## RELATED PRODUCTS

### MULTILAYER PIPES

To complete your SKINPress system, choose from the Comap range of Multilayer pipes.



**MultiSKIN range:** Diameters from 14 to 63mm. Made in PEX/Al, with a strong aluminium core for more resistance to high temperatures and pressures.

**BetaSKIN range:** Diameters from 14 to 32mm. Made in PE-RT/Al, with a light aluminium core for more flexibility in pipe handling.

Conforming to EN ISO 21003 standards, these pipes are available in bars, rolls, pre-insulated and protected in a corrugated conduit.

MultiSKIN pipes	158
BetaSKIN pipes	165

## STRAIGHT COUPLING

### P270



Size	ITEM No	Old code	A	B	Qty
16x2	P270L16	A411067001	26	58	10
20x2	P270L20	A411068001	30	58	10
26x3	P270L26	A411069001	36	60	10
32x3	P270L32	-	42	62	5

## END CAP

**NEW**

### P300



Size	ITEM No	Old code	A	B	Qty
16x2	P300L16	-	26	32	10
20x2	P300L20	-	30	32	10
26x3	P300L26	-	36	34,5	10

# NOTES

A large grid of graph paper for taking notes, consisting of 20 columns and 30 rows of small squares.

# SkinPress

## SKINPRESS MULTILAYER FOR GAS APPLICATIONS

There's no need to choose between quality and efficiency; with our Multiconnect system you can have both. The Multiconnect system offers the widest range on the market, with connections for Multilayer, PEX, Copper, Stainless Steel and Carbon Steel pipes.



### APPLICATIONS

SKINPress for gas applications is ideal for LPG (butane, propane) and natural gas installations. It should only be used with Comap multi-layer pipes.

Application	Operating temperature	System operating pressure
Gas	-10°C to +60°C	200 m bar
Lubricated compressed air	-10°C to +60°C	10 bar

*For information regarding other fluids, please contact us.*



PRESS TH PROFILE



VISU-CONTROL®



EUROPEAN PRODUCTION

### BENEFITS

- The press system is fast, economical, versatile and safe.
- VISU-CONTROL ring – the first connection with immediate crimping proof that you can see and touch.
- SKINPress design – protects the O-ring during installation.
- Perfect positioning of the jaw – the crimping tool is properly positioned thanks to the VISU-CONTROL ring.
- A check window ensures effective connection.

### FEATURES

- Yellow VISU-CONTROL ring.
- TH profile brass fittings from 16 to 32mm (THL profile for 32mm).
- High quality HNBR O-ring.

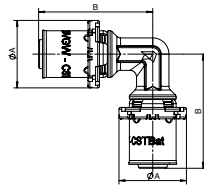
Certifications:



## FOR GAS APPLICATIONS

### 90° ELBOW

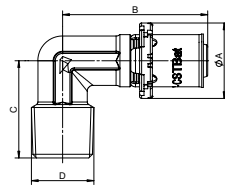
#### SG7090V



Size	ITEM No	A	B	Qty
16x2	720BXXG	26	44	2
20x2	720EXXG	30	50,5	2
26x3	720JXXG	36	54	2
32x3	720KXXG	42	54	2

### 90° ELBOW THREADED FEMALE

#### SG7090GV



Size	ITEM No	A	B	C	D	E	Qty
16x2 - 1/2	722BCXG	26	50	34	26,5	Rp1/2"	2
20x2 - 1/2	722ECXG	30	50	34	26,5	Rp1/2"	2
20x2 - 3/4	722EDXG	30	53	42,5	33	Rp3/4"	2
26x3 - 3/4	722JDXG	36	54	42,5	33	Rp3/4"	2
32x3 - 1"	722KEXG	42	54	49	39	Rp1"	2

### 90° ELBOW THREADED MALE

**NEW**

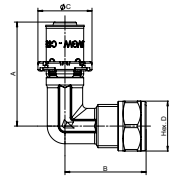
#### SG7092GV



Size	ITEM No	A	B	C	D	Qty
16x2 - 1/2	726BCXG	26	50	33,5	R1/2"	2
20x2 - 1/2	726ECXG	30	50	33,5	R1/2"	2
20x2 - 3/4	726EDXG	30	50	34,5	R3/4"	2
26x3 - 3/4	726JDXG	36	54	39	R3/4"	2
32x3 - 1"	726KEXG	42	54	45,5	R1"	2

### 90° ELBOW WITH COMPRESSION

#### SG7090JM V



Size	ITEM No	A	B	C	D	Qty
16x2 - 15	723BCXG	50	39	26	24	2
20x2 - 22	723EGXG	53	45,9	30	32	2
26x3 - 22	723JGXG	54	45,6	36	32	2

## RELATED PRODUCTS

### MULTILAYER PIPES

To complete your SKINPress system, choose from the Comap range of Multilayer pipes.



#### MultiSKIN Gas range:

Diameters from 16 to 32mm. Made in PEX/Al, with a strong aluminium core for more resistance to high temperatures and pressures.

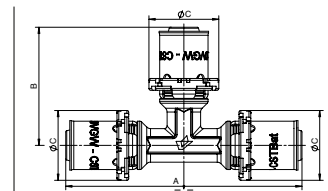
Conforming to EN ISO 21003 standards, these pipes are available in bars, rolls and protected in a corrugated conduit.

MultiSKIN pipes

158

### EQUAL TEE

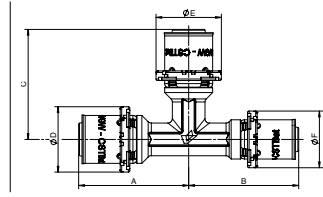
#### SG7130V



Size	ITEM No	A	B	C	Qty
16x2	730BXXG	88	44	26	2
20x2	730EXXG	101	50,5	30	2
26x3	730JXXG	108	54	36	2

**REDUCED TEE**

**SG7130RV**

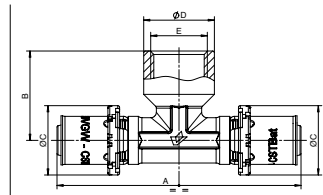


Size (S1-S2-S3)	ITEM No	A	B	C	D	E	F	Qty
20x2 - 16x2 - 16x2	733EBBG	50,5	47,5	45	30	26	26	2
20x2 - 16x2 - 20x2	733EBEG	50,5	50,5	45	30	26	30	2
20x2 - 20x2 - 16x2	733EEBG	50,5	50,5	50,5	30	30	26	2
26x3 - 16x2 - 20x2	733JBEG	54	53	46,5	36	26	30	2
26x3 - 16x2 - 26x3	733JBVG	54	54	46,5	36	26	36	2
26x3 - 20x2 - 20x2	733JEEG	54	53	53	36	30	30	2
26x3 - 20x2 - 26x3	733JEEG	54	54	53	36	30	36	2
26x3 - 26x3 - 16x2	733JBVG	54	53	54	36	36	26	2
32x3 - 20x2 - 32x3	733KEKG	54,25	54,25	53,25	42	30	42	2
32x3 - 26x2 - 32x3	733KJVG	54,25	54,25	54,25	42	36	42	2

**TEE THREADED FEMALE**

**NEW**

**SG7130GV**

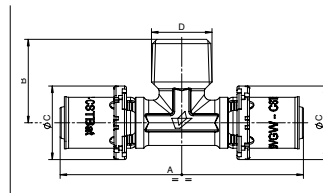


Size	ITEM No	A	B	C	D	E	Qty
16x2-1/2-16x2	731BCBG	91,5	33,5	26	26,5	Rp1/2"	2
20x2 - 1/2 - 20x2	731ECEG	91,5	33,5	30	26,5	Rp1/2"	2
20x2-3/4-20x2	731EDEG	106	42	30	33	Rp3/4"	2
26x3 - 1/2 - 26x3	731JCJG	108	38	36	26,5	Rp1/2"	2
26x3-3/4-26x3	731JDJG	108	42	36	33	Rp3/4"	2
26x3 - 1" - 26x3	731JEEG	108	49	36	39	Rp1"	2

**TEE THREADED MALE**

**NEW**

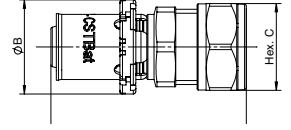
**SG7132GV**



Size	ITEM No	A	B	C	D	Qty
16x2 - 1/2 - 16x2	734BCBG	86	29,5	26	R1/2"	2
20x2 - 1/2 - 20x2	734CEEG	86	29,5	30	R1/2"	2
20x2 - 3/4 - 20x2	734DEEG	91,5	33,5	30	R3/4"	2
26x3 - 3/4 - 26x3	734JDJG	108	38	36	R3/4"	2
26x3 - 1" - 26x3	734KEKG	108	45,5	42	R1"	2

**STRAIGHT COUPLING WITH COMPRESSION**

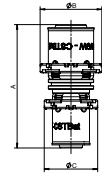
**SG7240JMV**



Size	ITEM No	A	B	C	Qty
16x2 - 15	741BCXG	54	26	24	5
20x2 - 15	741ECXG	54	30	24	5
20x2 - 22	741EGXG	54	30	32	5
26x3 - 15	741JCXG	55,5	36	24	2
26x3 - 22	741JGXG	55,5	36	32	2
32x3 - 28	741KHXG	57,5	42	38	2

**REDUCED COUPLING**

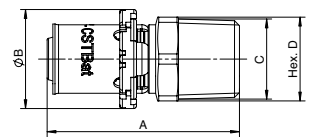
**SG7240V**



Size	ITEM No	A	B	C	Qty
20x2 - 16x2	740EBXG	60	30	26	5
26x3 - 16x2	740JBXG	63	42	30	2
26x3 - 20x2	740JEXG	61	36	30	2
32x3 - 20x2	740KEXG	61	36	26	2
32x3 - 26x3	740KJXG	64	42	36	2

**MALE STRAIGHT COUPLING (CONICAL THREAD)**

**SG7243GV**



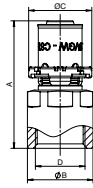
Size	ITEM No	A	B	C	D	Qty
16x2 - 1/2	742BCXG	50,5	26	R1/2"	22	5
20x2 - 1/2	742ECXG	50,5	30	R1/2"	22	2
20x2 - 3/4	742EDXG	51,5	30	R3/4"	27	5
26x3 - 3/4	742JDXG	52,5	36	R3/4"	30	2
26x3 - 1"	742JEXG	55,5	36	R1"	34	2
32x3 - 1"	742KEXG	55,5	42	R1"	34	2



## STRAIGHT COUPLING THREADED FEMALE

NEW

SG7270GV

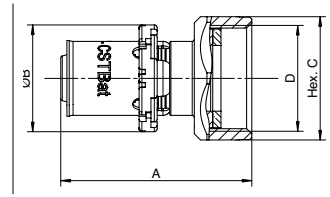


Size	ITEM No	A	B	C	D	Qty
16x2 - 1/2	746BCXG	52,5	27	26	Rp1/2"	2
20x2 - 1/2	746ECXG	52,5	27	30	Rp1/2"	5
20x2 - 3/4	746EDXG	54,5	33	30	Rp3/4"	5
26x3 - 3/4	746JDXG	55,5	40	36	Rp1"	2
26x3 - 1"	746JEXG	55,5	33	36	Rp3/4"	2
32x3 - 1"	746KEXG	55,5	40	42	Rp1"	2

## FEMALE SWIVEL NUT FLAT RING

NEW

SG7359GV

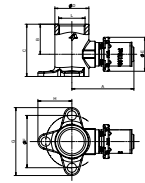


Size	ITEM No	A	B	C	Qty
12x2 - 1/2	762BCXG	62,5	26	25	2
26x3 - 3/4	762JDXG	56,3	36	31	2

## WALL PLATE ELBOW (HEIGHT = 40 MM)

SG7473GV

(Height=40mm)



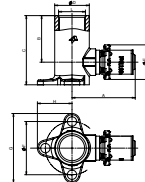
Size	ITEM No	A	B	C	F	G	H	Qty
16x2 - 1/2 - Height 40	774BCXG	47,5	23	40	40	52	26	2
20x2 - 1/2 - Height 40	774ECXG	47,5	23	40	40	52	26	2

## LONG WALL PATE ELBOW

NEW

SG7471GV

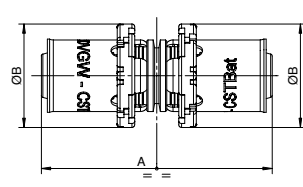
(Height=52mm)



Size	ITEM No	A	B	C	F	G	H	Qty
20x2 - 3/4 - Height 52	771EDXG	49,5	25	46	40	52	26	2

## STRAIGHT COUPLING

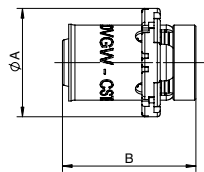
SG7270V



Size	ITEM No	A	B	Qty
16x2	745BXXG	58	26	5
20x2	745EXXG	58	30	5
26x3	745JXXG	60	36	2
32x3	745KXXG	62	42	2

## STOP END

SG7300V



Size	ITEM No	A	B	Qty
16x2	780BXXG	26	32	2
20x2	780EXXG	30	32	5
26x3	780JXXG	36	34,5	2
32x3	780KXXG	42	34,5	2

# SKINPRESS MULTILAYER ACCESSORIES

## CRIMPING SLEEVE FOR SKINPRESS WATER

### S7500V



Size	ITEM No	Qty
14x2	790AXX	10
16x2	790BXX	10
18x2	790DXX	10
20x2	790EXX	10
26x3	790JXX	5
32x3	790KXX	5
40x3,5	790LXX	5
50x4	790MXX	2
63x4,5	790NXX	2

## CRIMPING SLEEVE FOR SKINPRESS GAS

### SG7500V



Size	ITEM No	Qty
16x2	790BXXG	10
20x2	790EXXG	10
26x3	790JXXG	5
32x3	790KXXG	5

## O-RING FOR SKINPRESS BRASS WATER

### S7501V

EPDM O-ring for SkinPress Brass water applications



Size	ITEM No	Qty
14x2	791AXX	10
16x2	791BXX	10
18x2	791DXX	10
20x2	791EXX	10
26x3	791JXX	10
32x3	791KXX	10
40x3,5	791LXX	10
50x4	791MXX	10
63x4,5	791NXX	10

## PATENTED O-RING FOR SKINPRESS PPSU

### S7501VP

EPDM O-ring for SkinPress PPSU water applications  
Patented O-ring - tells if the fitting is not properly pressed



Size	ITEM No	Qty
16x2	791BXXD	10
20x2	791EXXD	10
26x3	791JXXD	10
32x3	791KXXD	10

## O-RING FOR SKINPRESS GAS

### SG7501V

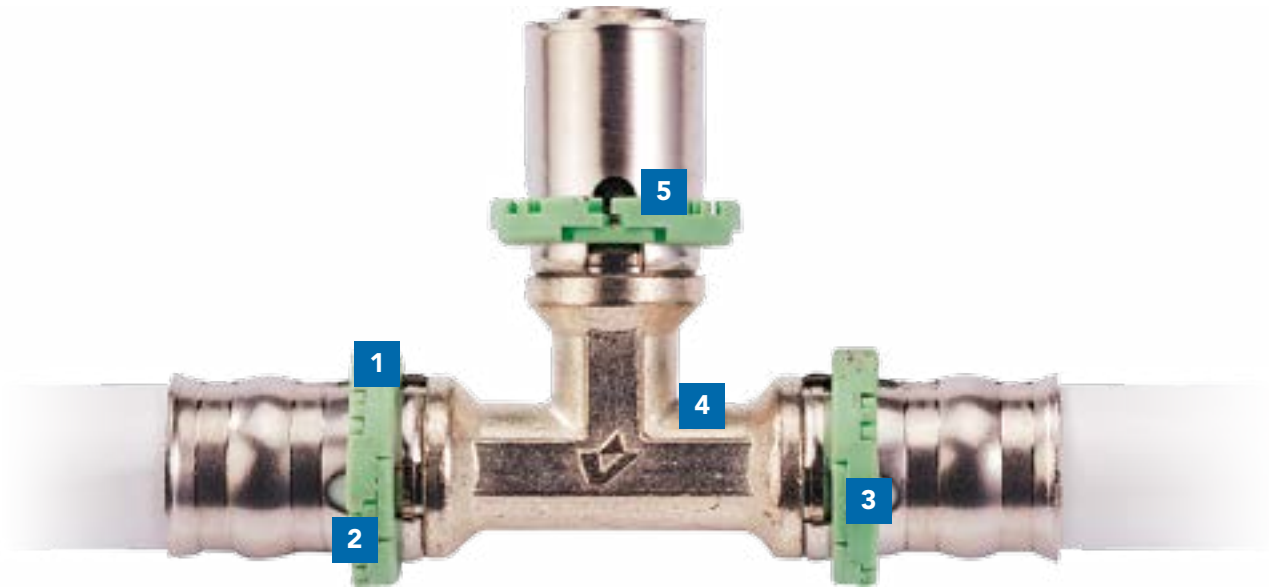
HNBR O-ring for SkinPress Brass gas applications



Size	ITEM No	Qty
16x2	791BXXG	10
20x2	791EXXG	10
26x3	791JXXG	10
32x3	791KXXG	10



# SKINPRESS FITTINGS



## 1 VISU-CONTROL®

Visual and tactile indicator. Application identification by colour. Ensures proper positioning of the jaws.

## 2 Patented O-ring (Only on SKINPress PPSU)

Identification by colour (black=EPDM). Patented O-ring indicates during pressure tests if a fitting is not crimped. Specific profile to avoid damage to the O-ring and prevent it from moving during connection.

## 3 Direct view of the pipe

Window for viewing the position of the pipe.

## 4 Tinning of the brass

Avoids the risks of corrosion in embedded systems.

## 5 Dielectric protection

The VISU-CONTROL® collar provides dielectric protection between the aluminium core of the pipe and the brass.

## APPLICATIONS

### SKINPress and SKINPress PPSU applications

Application	Description	Operating temperature	System operating pressure
Drinking water	For drinking, hot and cold water systems.	+5°C to +95°C	10 bar
Heating and cooling	For heating systems, up to the pressure values indicated.	-10°C to +95°C	10 bar
Rainwater	For rainwater systems in buildings, up to the pressure values indicated.	-10°C to +95°C	10 bar
Compressed air	For compressed air systems for oil-free systems (with an oil filter fitted in front of the system).	-10°C to +70°C	10 bar

### SKINPress Gas applications

Application	Description	Operating temperature	System operating pressure
Gas	For gas systems in countries where the system has been inspected and obtained certification.	-10°C to +60°C	200 mbar
Lubricated compressed air	For lubricated compressed air systems.	-10°C to +60°C	10 bar
Fuel oil	For fuel oil systems, up to the pressure values indicated.	-10°C to +70°C	10 bar

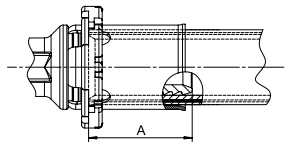
For all other applications, please contact Comap.

SKINPress Gas fittings comply with the ISO/FDIS 17484-1/2006 European requirements for multilayer pipe systems, for indoor gas installations with a maximum operating pressure up to and including 5 bar (500kPa), Part 1 : specifications for systems.

## INSTALLATION

### 1 CUT

Cut the pipe with a pipe cutter. Position the cutter at a 90° angle to the pipe. Don't forget to consider the length of the pipe inside the fitting (dimension 'A') in your calculations.



Pipe diameter (mm)	14	16	18	20	26	32	40	50	63
A (m)	22.15	22.15	22.15	22.15	23.15	23.15	23.15	40.00	40.00

### 2 CALIBRATE

Use a Comap calibration tool to return the pipe to its cylindrical shape.

### 3 DEBURR

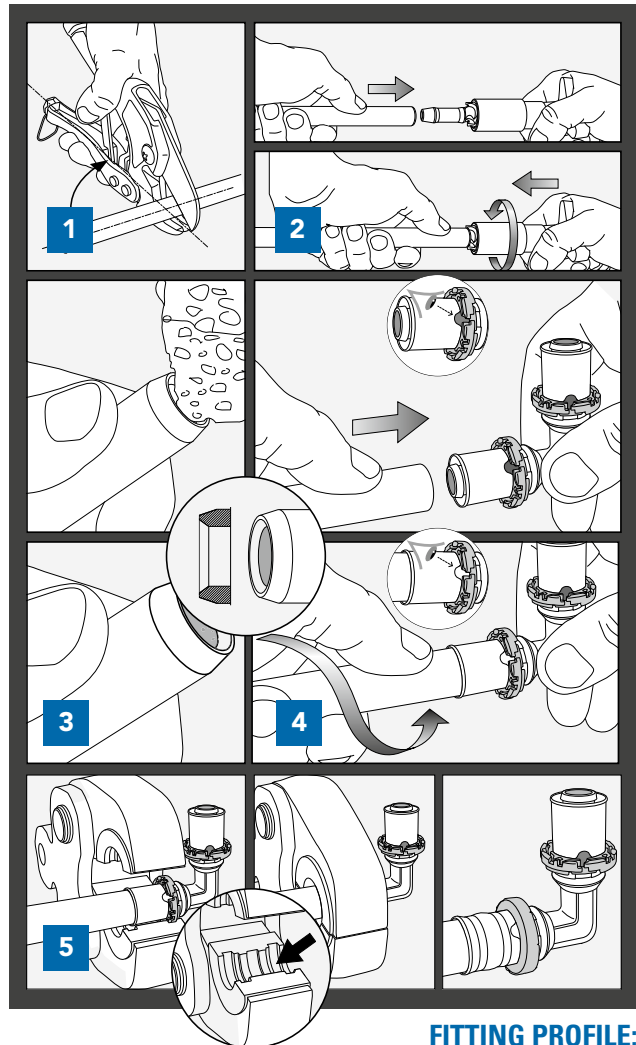
Remove burrs and visually check that the edges of the pipes are clean and bevelled to prevent any damage to the O-ring inside the fitting. Check that the O-ring is properly placed on the fitting.

### 4 ASSEMBLE

Insert the pipe into the SKINPress fitting up to the marked insertion depth by rotating slightly and pushing in an axial direction at the same time.

### 5 PRESS

Before starting to press, the press jaws and slings must be checked for dirt. Make sure that you use the correct press jaw and units and that these parts correspond to the fittings used.



**FITTING PROFILE:**  
TH (THL FOR 32MM)

## PATENTED O-RING

Standard fittings for water and central heating applications are provided with EPDM O-rings. The type of O-ring to be used depends on the application and the medium. For this reason, the gas press fittings are provided with HNBR O-rings.

SKINPress PPSU fittings are supplied with a patented O-ring designed to indicate any un-pressed fittings. This feature ensures that un-pressed connections will leak water from the O-ring during pressure tests (or pressure will drop if air is used for pressure testing). This simplifies the detection of un-pressed fittings.

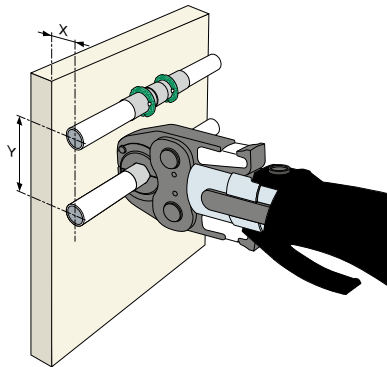
	Type	Operating temperature for the O-ring	Maximum operating pressure	Applications	Range
	Patented EPDM O-ring (black)	-20°C to +95°C	10 bar	Drinking water systems. Sanitary hot and cold water systems. Heating systems. Cooling systems. Glycol water. Recovery of rainwater. Dry compressed air systems.	SKINPress PPSU
	EPDM O-ring (black)	-20°C to +95°C	10 bar	Drinking water systems. Sanitary hot and cold water systems. Heating systems. Cooling systems. Glycol water. Recovery of rainwater. Dry compressed air systems.	SKINPress Water
	HNBR O-ring (yellow)	-20°C to +60°C	200 mbar	LPG (Butane – Propane). Natural gas. Low pressure steam. Fuel and other hydrocarbons. Lubricated compressed air.	SKINPress Gas

## MOUNTING RECOMMENDATIONS

The following tables give the minimum required working space so that the pressing of the fittings can be carried out correctly using the appropriate press tools. These distances relate to the general installation configurations that are schematically depicted in figures 1 and 2.

Pipe diameter (mm)	X (mm)	Y (mm)
14	31	67
16	31	68
18	31	69
20	31	70
26	31	74
32	31	78
40*	75	110
50*	85	120
63*	90	130

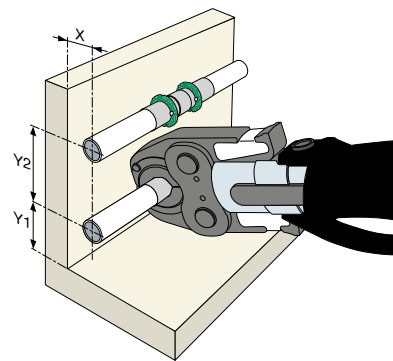
\* Fittings crimped with slings



Installation against a wall

Pipe diameter (mm)	X (mm)	Y1 (mm)	Y2 (mm)
14	35	52	75
16	35	52	76
18	35	52	77
20	35	52	78
26	35	53	83
32	35	53	87
40*	75	75	110
50*	85	85	120
63*	90	90	130

\* Fittings crimped with slings



Installation at the base of a wall

## CRIMPING TOOL COMPATIBILITY

The table below shows the different crimping tools compatible with SKINPress press fittings.

		14	16	18	20	26	32	40	50	63
		TH	TH	TH	TH	TH	THL	TH	TH	TH
NOVOPRESS	ACO 102*	○	○	○	○	○	○			
	ACO 202	○	○	○	○	○	○	○	○	○
	ECO 301							○	○	○
REMS	MINI REMS	○	○	○	○	○	○	○		
	ECOPRESS	○	○	○	○	○				
	POWERPRESS AKKUPRESS	○	○	○	○	○	○	○	○	○
KLAUKE	MINI KLAUKE (MAP2, MAP2L)	○	○	○	○	○	○			
	UAP2L UP2EL UP3EL	○	○	○	○	○	○	○	○	○
VIRAX	VIPER M20+	○	○	○	○	○				
	VIPER P22+	○	○	○	○	○	○	○	○	
ROTHENBERGER	ROMAX compact	○	○	○	○	○	○	○		
	ROMAX Pressliner ROMAX Pressliner ECO ROMAX Pressliner AC ECO	○	○	○	○	○	○	○	○	○

\*Former generations: SP1932, AFP101

For other tools available on the market, please contact Comap.

Tests carried out in Comap laboratory, performed with SKINPress fittings produced by Comap and using press tools from different manufacturers.

## PIPE COMPATIBILITY

Multilayer pipes – For more information, see page 158.

SKINPress fittings should only be used with pipes supplied by Comap.

## SKINPRESS PPSU COMPATIBILITY WITH CHEMICAL PRODUCTS

Due to the PPSU material, SKINPress is not always compatible with some chemical products (e.g. detergent, disinfectant, foam, glue, grease, paint). Please ask Comap for advice before using any product in direct contact with our SKINPress PPSU fittings.

Note: Contact between SKINPress PPSU and foam used for insulation purposes is particularly prohibited.

# PexPress

## PEXPRESS FOR WATER APPLICATIONS

There's no need to choose between quality and efficiency; with our Multiconnect system you can have both. The Multiconnect system offers the widest range on the market, with connections for Multilayer, PEX, Copper, Stainless Steel and Carbon Steel pipes.



### APPLICATIONS

PEXPRESS for water applications is ideal for sanitary and underfloor heating installations. It should only be used with Comap PEX pipes.

Application	Operating temperature	System operating pressure
Drinking water	+5°C to +70°C	6 bar
Heating and cooling	-10°C to +80°C	6 bar

*For information regarding other fluids, please contact us.*



PRESS CO PROFILE

### BENEFITS

- The press system is fast, economical, versatile and safe.
- A check window ensures effective connection.
- High quality product with stainless steel sleeves and European brass.

### FEATURES

- Co profile brass fittings from 12 to 25mm.

Certifications:

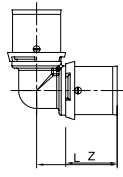




## FOR WATER APPLICATIONS

### 90° ELBOW

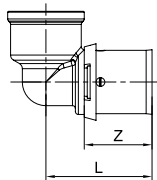
#### P7090



Size	ITEM No	L	Z	Qty
12x1,1	7090010	34	22	2
16x1,5	7090030	35	23	2
20x1,9	7090050	36	23	2
25x2,3	7090074	39	23,5	2

### 90° ELBOW THREADED FEMALE

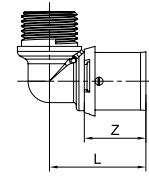
#### P7090G



Size	ITEM No	L	Z	Qty
3/8"-12x1,1	7090103	-	-	2
1/2"-12x1,1	7090104	35	22	2
1/2"-16x1,5	7090304	36	23	2
1/2"-20x1,9	7090504	-	-	2
3/4"-25x2,3	7090736	-	-	2

### 90° ELBOW THREADED MALE

#### P7092G

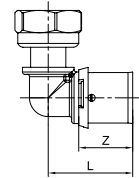


Size	ITEM No	L	Z	Qty
12x1,1 - 3/8	7092103	35	22	2
12x1,1 - 1/2	7092104	36	22	2
16x1,5 - 1/2	7092304	36	23	2
20x1,9 - 1/2	7092504	-	-	2
25x2,3 - 3/4	7092736	-	-	2

### ELBOW FEMALE SWIVEL NUT

#### P7096G

with flat ring



Size	ITEM No	L	Z	Qty
12x1,1 - 1/2	7096104	34	22	2
12x1,1 - 3/8	7096103	34	22	2
16x1,5 - 1/2	7096304	35	23	2
16x1,5 - 3/4	7096306	39	23	2
20x1,9 - 1/2	7096504	-	-	2
20x1,9 - 3/4	7096506	39	23	2
25x2,3 - 3/4	7096736	39,5	23,5	2

## RELATED PRODUCTS

### PEX PIPES

To complete your PEXPress system, use the Comap range of PEX pipes.



**BetaPEX-RETUBE range:**  
Diameters from 12 to 32mm, in PE-Xb. Available with an anti-oxygen barrier (EVOH), ensuring a long service life for heating installations.

Conforming to EN ISO 15875 standards, the pipes are available in rolls, pre-insulated and protected in a corrugated conduit.

## TIP

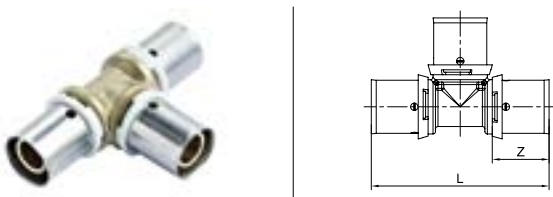
### A SMART SOLUTION



- 3 viewing windows to ensure correct pipe positioning
- 100% identification
- Strong stainless steel sleeve

**EQUAL TEE**

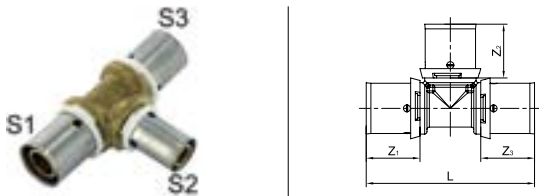
**P7130**



Size	ITEM No	L	Z	Qty
12x1,1	7130010	68	22	2
16x1,5	7130030	70	23	2
20x1,9	7130050	72	23	2
25x2,3	7130074	78	23,5	2

**REDUCED TEE**

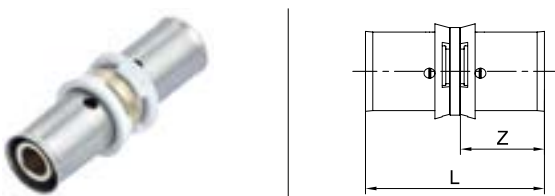
**P7130R**



Size (S1-S2-S3)	ITEM No	L	Z1	Z2	Z3	Qty
16x1,5 - 12x1,1 - 12x1,1	7130301010	67	23	22	22	2
16x1,5 - 12x1,1 - 16x1,5	7130301030	70	23	22	23	2
16x1,5 - 16x1,5 - 12x1,1	7130303010	67	23	23	22	2
16x1,5 - 20x1,9 - 16x1,5	7130305030	-	-	-	-	2
20x1,9 - 12x1,1 - 16x1,5	7130501030	68	23	22	23	2
20x1,9 - 12x1,1 - 20x1,9	7130501050	72	23	22	23	2
20x1,9 - 16x1,5 - 16x1,5	7130503030	70	23	23	23	2
20x1,9 - 16x1,5 - 20x1,9	7130503050	72	23	23	23	2
20x1,9 - 20x1,9 - 16x1,5	7130505030	72	23	23	23	2
25x2,3 - 20x1,9 - 20x1,9	7130735050	77,5	23,5	23	23	2
25x2,3 - 20x1,9 - 25x2,3	7130735073	-	-	-	-	2
25x2,3 - 25x2,3 - 20x1,9	7130737350	77,5	23,5	23,5	23	2

**STRAIGHT COUPLING**

**P7270**

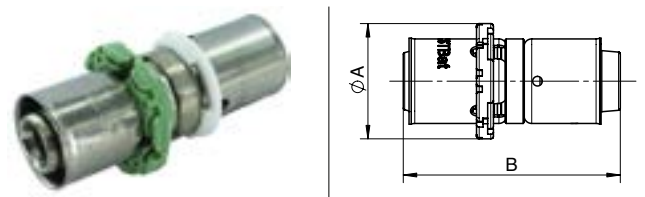


Size	ITEM No	L	Z	Qty
12x1,1	7270010	47	22	2
16x1,5	7270030	49	23	2
20x1,9	7270050	49	23	2
25x2,3	7270073	50	23,5	2

**ADAPTER SKIN (TH PROFILE) / PEX (CO PROFILE)**



**S787V**

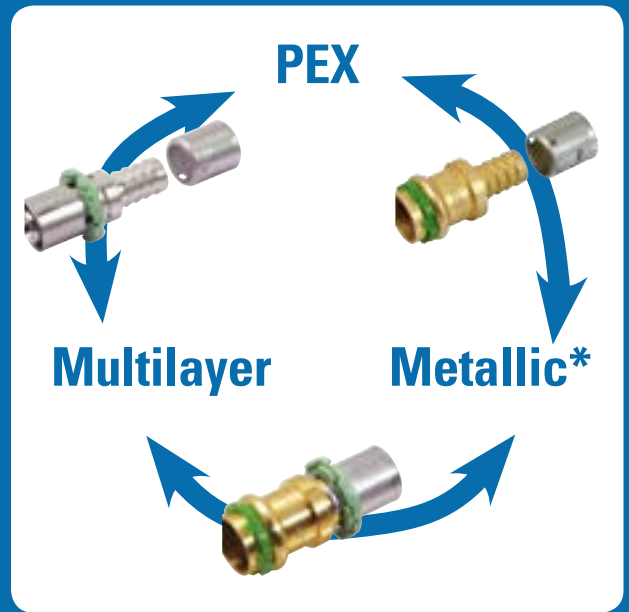


Size	ITEM No	Qty
14x2 SKIN - 12x1,1 PEX	787AAX	2
16x2 SKIN - 16x1,5 PEX	787BBX	2
20x2 SKIN - 20x1,9 PEX	787EDX	2

**TIP**

**MULTICONNECT TIPS**

Adaptor fitting is one of the keys to our Multiconnect system. This adaptor or bridge is a smart fitting that allows the use of different pipes on the same network. It is ideal for renovation, as you can switch from a copper pipe to a Multilayer pipe.



\*Metallic = Copper, Stainless Steel or Carbon Steel pipe

## ADAPTOR COPPER (V-PROFILE) - PEX (CO PROFILE)



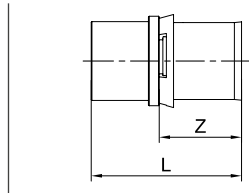
SP5720V



Size	ITEM No	Qty
Cu14 - PEX 16x1,5	5720VW1416	2
Cu16 - PEX 16x1,5	5720VW16	2
Cu18 - PEX 20x1,9	5720VW1820	2

## STRAIGHT COUPLING X SOLDER CU

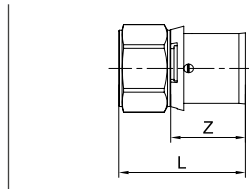
P7243CU



Size	ITEM No	L	Z	Qty
12x1,1 - 12	724301003	39	22	2
12x1,1 - 14	724301004	41	22	2
16x1,5 - 14	724303004	42	23	2
16x1,5 - 16	724303006	42	23	2
16x1,5 - 18	724303007	42	23	2
20x1,9 - 16	P7243CUW2016	42	23	2
20x1,9 - 18	724305007	42	23	2
20x1,9 - 22	724305009	42	23	2
25x2,3 - 22	P7243CUW2522	42	23,5	2

## COUPLING THREADED FEMALE

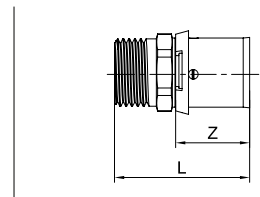
P7270G



Size	ITEM No	L	Z	Qty
16x1,5 - 1/2	7270304	38	23	2
20x1,9 - 1/2	7270504	36	23	2
20x1,9 - 3/4	7270506	36	23	2
25x2,3 - 3/4	7270736	36,5	23,5	2

## COUPLING THREADED MALE

P7243G

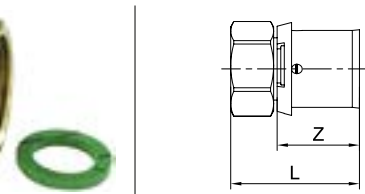


Size	ITEM No	L	Z	Qty
12x1,1 - 3/8	7243103	37	22	2
12x1,1 - 1/2	7243104	41	22	2
16x1,5 - 3/8	7243303	38	23	2
16x1,5 - 1/2	7243304	42	23	2
16x1,5 - 3/4	7243306	42,5	23	2
20x1,9 - 1/2	7243504	42	23	2
20x1,9 - 3/4	7243506	42,5	23	2
25x2,3 - 3/4	7243736	43	23,5	2

## FEMALE SWIVEL NUT

P7359G

with flat ring

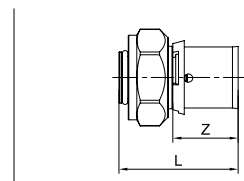


Size	ITEM No	L	Z	Qty
12x1,1 - 3/8	7359103	33	22	2
12x1,1 - 1/2	7359104	35	22	2
16x1,5 - 1/2	7359304	36	23	2
16x1,5 - 3/4	7359306	37,5	23	2
20x1,9 - 1/2	7359504	36	23	2
20x1,9 - 3/4	7359506	37,5	23	2
25x2,3 - 3/4	7359736	38,5	23,5	2
25x2,3 - 1"	7359738	42	23,5	2

## FEMALE SWIVEL NUT

P7359G1

with O-ring

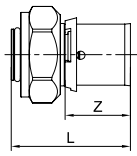


Size	ITEM No	L	Z	Qty
12x1,1 - M22	7359010	36	22	2
16x1,5 - M22	7359030	37	23	2
20x1,9 - M22	7359050	37	23	2

## FEMALE SWIVEL NUT

### P7359G2

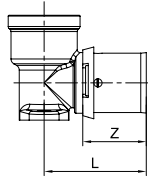
with O-ring 3/4 Eurocone



Size	ITEM No	L	Z	Qty
12x1,1 - 3/4E	73595610	41	22	2
16x1,5 - 3/4E	73595630	42	23	2
20x1,9 - 3/4E	73595650	42	23	2

## WALL PLATE ELBOW

### P7472G



Size	ITEM No	L	Z	Qty
12x1,1 - 1/2	7472104	36	22	2
16x1,5 - 1/2	7472304	37	23	2
20x1,9 - 1/2	7472504	37	23	2

## WALL PLATE DOUBLE ELBOW

### P7778A

Wall plate for shower including : 1 wall plate with 2 threaded parts, 2 Tectite fittings 16mm, 8 cavity fixings, 2 inserts for PEX pipes



Size	ITEM No	Qty
16 - F 1/2	P77781612	1

## WALL PLATE DOUBLE ELBOW

### P7778B

Wall plate for shower including : 1 wall plate with 2 threaded parts, 2 Tectite fittings 16mm, 8 cavity fixings, 2 inserts for PEX pipes



Size	ITEM No	Qty
16 - M 3/4	P77781634	1

## ELBOW X PIPE

### P7090L300



Size	ITEM No	Qty
12x1,1-15	7090010153	2
16x1,5-15	7090030153	2

## SEAT

### P7500



Size	ITEM No	Qty
12	P7500W12	2
16	P7500W16	2
20	P7500W20	2
25	P7500W25	2

## CRIMPING SLEEVE

### P7502



Size	ITEM No	Qty
12	P7502W12	2
16	P7502W16	2
20	P7502W20	2
25	P7502W25	2



# PEXPRESS FITTINGS

## APPLICATIONS

Application	Description	Operating temperature	System operating pressure
Drinking water	For hot and cold drinking water systems	+5°C to +70°C	6 bar
Heating and cooling	For heating systems, up to the pressure values indicated	-10°C to +80°C	6 bar
Rainwater	For rainwater systems in buildings, up to the pressure values indicated	-10°C to +70°C	6 bar
Compressed air	For compressed air systems for oil-free systems (with an oil filter fitted in front of the system)	-10°C to +70°C	6 bar

For all other applications, please contact Comap.

## INSTALLATION

- 1 Cut the conduit, taking care not to damage the pipes.
- 2 Cut the pipes with the cutting tool positioned at a 90° angle.
- 3 Insert the pipe in the sleeve. Insert the fitting until the pipe cannot be pushed any further.
- 4 Crimp with the appropriate tool.



FITTING PROFILE: CO

## TECHNICAL FEATURES

PEX pipes must follow the dimensions shown in the table below.

	PEXPRESS				
External Ø (mm)	12	16	16	20	25
Thickness (mm)	1.1	1.5	1.8*	1.9	2.3
Internal Ø (mm)	9.8	13	12.4	16.2	20.4

\* This dimension is not covered by ATEC certification.

# SudoPress

## SUDOPRESS COPPER FOR WATER APPLICATIONS

There's no need to choose between quality and efficiency; with our Multiconnect system you can have both. The Multiconnect system offers the widest range on the market, with connections for Multilayer, PEX, Copper, Stainless Steel and Carbon Steel pipes.



### APPLICATIONS

SUDOPress Copper for water applications is ideal for sanitary and heating installations. It should only be used with EN1057 copper pipes.

Application	Operating temperature	Service pressure
Compressed air*	-20°C to +70°C	Max. 16 bar
Cooling water (with glycol)	Min -35°C	Max. 16 bar
Drinking water	+5°C to +95°C	Max. 16 bar
Heating water	-35°C to +110°C	Max. 16 bar
Industrial water	-35°C to +110°C	Max. 16 bar

\*Compressed air with less than 25mg/m<sup>3</sup> of oil.

For information regarding other fluids, please contact us.



**PRESS V PROFILE**



**VISU-CONTROL®**



**PATENTED O-RING**



**EUROPEAN PRODUCTION**

### BENEFITS

- The press system is fast, economical, versatile and safe.
- Removable VISU-CONTROL ring – the first connection with immediate crimping proof that you can see and touch.
- The patented O-ring lets you know during pressure tests if you have forgotten to crimp a fitting.
- Double crimping system (V profile) – the pipe is guided and properly positioned while the O-ring is protected.

### FEATURES

- Green VISU-CONTROL ring.
- Patented O-ring.
- V profile copper and gun metal fittings from 12 to 54mm.
- M profile copper and gun metal fittings from 76.1 to 108mm.
- High quality EPDM O-ring.

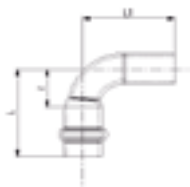
Certifications:



## FOR WATER APPLICATIONS

### 90° ELBOW MALE-FEMALE

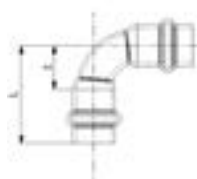
#### SP5001V



Size	ITEM No	Old code	L	Z	L1	Qty
12	5001VW12	520AXX	33	15	35	10
14	5001VW14	520BXX	39,5	17,5	41,5	5
15	5001VW15	520CXX	38	16	40	10
16	5001VW16	520DXX	40,5	18,5	42,5	5
18	5001VW18	520EXX	44	22	46	10
22	5001VW22	520GXX	50	27	52	10
28	5001VW28	520HXX	58	34	60	5
35	5001VW35	520JXX	68	43	70	5
42	5001VW42	520KXX	87	51	89	1
54	5001VW54	520LXX	105	64	107	1

### 90° ELBOW FEMALE-FEMALE

#### SP5002V



Size	ITEM No	Old code	L	Z	Qty
12	5002VW12	521AXX	33	15	10
14	5002VW14	521BXX	39,5	17,5	5
15	5002VW15	521CXX	38	16	10
16	5002VW16	521DXX	40,5	18,5	5
18	5002VW18	521EXX	44	22	10
22	5002VW22	521GXX	50	27	10
28	5002VW28	521HXX	58	34	5
35	5002VW35	521JXX	68	43	5
42	5002VW42	521KXX	87	51	1
54	5002VW54	521LXX	105	64	1

## TIP

### THE PERFECT RENOVATION SOLUTION



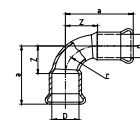
SUDOPress Copper is the perfect solution for renovation:

- Heat-free - no hot work, so no risk of collateral damage to fixtures and fittings.
- Flux-free - less mess, less flush cleaning and less risk to heat exchangers and radiator valves.

It can be used in existing installations and can be installed uncovered or embedded in walls or floors.

### 90° ELBOW FEMALE-FEMALE

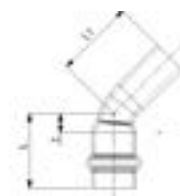
#### 5002AM



Size	ITEM No	Z	a	r	Qty
76,1	38308	92	142	90	1
88,9	38309	153	215	127	1
108	38310	135	201	161	1

### 45° ELBOW MALE-FEMALE

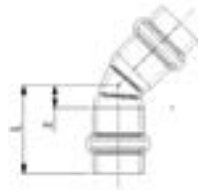
#### SP5040V



Size	ITEM No	Old code	L	Z	L1	Qty
12	5040VW12	510AXX	25,5	7,5	27,5	10
14	5040VW14	510BXX	29,5	7,5	31,5	5
15	5040VW15	510CXX	30	8	32	10
16	5040VW16	510DXX	30,5	8,5	32,5	5
18	5040VW18	510EXX	31	9	33	10
22	5040VW22	510GXX	34	11	36	10
28	5040VW28	510HXX	38	14	40	5
35	5040VW35	510JXX	37,5	12,5	39	5
42	5040VW42	510KXX	54,5	18,5	57	1
54	5040VW54	510LXX	64	23	68	1

**45° ELBOW FEMALE-FEMALE**

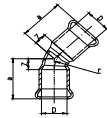
**SP5041V**



Size	ITEM No	Old code	L	Z	Qty
12	5041VW12	511AXX	25,5	7,5	10
14	5041VW14	511BXX	29,5	7,5	5
15	5041VW15	511CXX	30	8	10
16	5041VW16	511DXX	30,5	8,5	5
18	5041VW18	511EXX	31	9	10
22	5041VW22	511GXX	34	11	10
28	5041VW28	511HXX	38	14	5
35	5041VW35	511JXX	37,5	12,5	5
42	5041VW42	511KXX	54,5	18,5	1
54	5041VW54	511LXX	64	23	1

**45° ELBOW FEMALE-FEMALE (M PROFILE)**

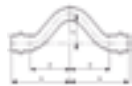
**5041M**



Size	ITEM No	Z	a	Qty
76,1	38420	45	91	1
88,9	38422	78	140	1
108	38421	59	125	1

**FULL CROSSOVER FEMALE-FEMALE**

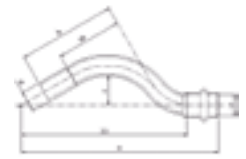
**SP5085V**



Size	ITEM No	Old code	L	Z	L2	Qty
15	5085VW15	580CXX	68,5	46,5	20	10
18	5085VW18	580EXX	73	51	20	10
22	5085VW22	580GXX	81	58	20	5

**PART CROSSOVER MALE-FEMALE**

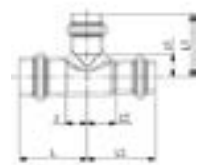
**SP5086V**



Size	ITEM No	Old code	L	Z	L1	Z1	L2	Qty
12	5086VW12	581AXX	127,5	109,5	70	52	20	10
15	5086VW15	581CXX	140	118	70	48	21	10
18	5086VW18	581EXX	148	126	74	52	22	10
22	5086VW22	581GXX	168	145	84	61	24	5

**REDUCED TEE FEMALE**

**SP5130RV**



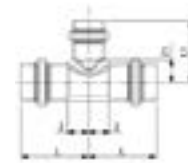
Size (S1-S2-S3)	ITEM No	Old code	L	Z	L1	Z1	L2	Z2	Qty
12-15-12	5130RWW121512	531ACA	37	19	38	16	37	19	10
14-12-12	5130RWW141212	531BAA	38,5	16,5	37,5	19,5	37,5	19,5	5
14-12-14	5130RWW141214	531BAB	38,5	16,5	37,5	19,5	38,5	16,5	5
14-16-14	5130RWW141614	531BDB	41	19	41	19	41	19	5
15-12-12	5130RWW151212	531CAA	38	16	37	19	37	19	10
15-12-15	5130RWW151215	531CAC	38	16	37	19	38	16	10
15-15-12	5130RWW151512	531CCA	38	16	38	16	37	19	10
15-18-15	5130RWW151815	531CEC	40	18	40	18	40	18	10
15-22-15	5130RWW152215	531CGC	43	21	43	20	43	21	5
16-12-16	5130RWW161216	531DAD	38,5	16,5	39	21	38,5	16,5	5
16-14-14	5130RWW161414	531DBB	41	19	41	19	41	19	5
16-14-16	5130RWW161416	531DBD	41	19	41	19	41	19	5
16-16-14	5130RWW161614	531DDB	41	19	41	19	41	19	5
18-12-18	5130RWW181218	531EAE	38,5	16,5	39	21	38,5	16,5	10
18-14-18	5130RWW181418	531EBE	40	18	40	18	40	18	5
18-15-15	5130RWW181515	531ECC	40	18	40	18	40	18	10
18-15-18	5130RWW181518	531ECE	40	18	40	18	40	18	10
18-16-18	5130RWW181618	531EDE	40	18	40	18	40	18	5
18-18-15	5130RWW181815	531EEC	40	18	40	18	40	18	10
18-22-18	5130RWW182218	531EGE	43	21	43	20	43	21	5
22-12-22	5130RWW221222	531GAG	38,5	15,5	42	24	38,5	15,5	5
22-14-22	5130RWW221422	531GBG	40,5	17,5	45	23	40,5	17,5	5
22-15-15	5130RWW221515	531GCC	40,5	17,5	45	23	44	22	5
22-15-18	5130RWW221518	531GCE	40,5	17,5	45	23	42	20	5
22-15-22	5130RWW221522	531GCG	40,5	17,5	45	23	40,5	17,5	5
22-16-22	5130RWW221622	531GDG	34,5	11,5	37	15	34,5	11,5	5
22-18-15	5130RWW221815	531GEC	42	19	45	23	45,5	23,5	5
22-18-18	5130RWW221818	531GEE	42	19	45	23	43,5	21,5	5
22-18-22	5130RWW221822	531GEG	42	19	45	22	42	19	5
22-22-15	5130RWW222215	531GGC	43	20	43	20	43	21	5
22-22-18	5130RWW222218	531GGE	43	20	43	20	43	21	5
22-28-22	5130RWW222822	531GHG	49,5	26,5	46,5	22,5	49,5	26,5	5



Size (S1-S2-S3)	ITEM No	Old code	L	Z	L1	Z1	L2	Z2	Qty
28-15-22	5130RVW281522	531HCG	45	21	49	27	47	24	5
28-15-28	5130RVW281528	531HCH	45	21	49	27	45	21	5
28-18-22	5130RVW281822	531HEG	45	21	47	25	47	24	5
28-18-28	5130RVW281828	531HEH	45	21	47	25	45	21	5
28-22-22	5130RVW282222	531HGG	45	21	49	26	47	24	5
28-22-28	5130RVW282228	531HGH	45	21	49	26	45	21	5
28-28-15	5130RVW282815	531HHC	46,5	22,5	46,5	22,5	54	32	5
28-28-18	5130RVW282818	531HHE	46,5	22,5	46,5	22,5	52	30	5
28-28-22	5130RVW282822	531HHG	46,5	22,5	46,5	22,5	49,5	26,5	5
35-15-35	5130RVW351535	531JCJ	48,5	23,5	58	36	48,5	23,5	1
35-18-35	5130RVW351835	531JEJ	48,5	23,5	56	34	48,5	23,5	1
35-22-28	5130RVW352228	531JGH	48,5	23,5	53	30	53,5	29,5	1
35-22-35	5130RVW352235	531JGJ	48,5	23,5	53	30	48,5	23,5	1
35-28-28	5130RVW352828	531JHH	48,5	23,5	51	27	53	29	1
35-28-35	5130RVW352835	531JHJ	48,5	23,5	51	27	48,5	23,5	1
42-22-42	5130RVW422242	531KGG	58,5	22,5	63,75	40,75	58,5	22,5	1
42-28-42	5130RVW422842	531KHH	58,5	22,5	59,5	35,5	58,5	22,5	1
42-35-35	5130RVW423535	531KJJ	58	22	56	31	56	31	1
42-35-42	5130RVW423542	531KJJ	58,5	22,5	56	31	58,5	22,5	1
54-22-54	5130RVW542254	531LGL	63,5	22,5	67	44	63,5	22,5	1
54-28-54	5130RVW542854	531LHL	63,5	22,5	64,5	40,5	63,5	22,5	1
54-35-54	5130RVW543554	531LLJ	63,5	22,5	61	36	63,5	22,5	1
54-42-42	5130RVW544242	531LKK	69	28	71	35	77,5	41,5	1
54-42-54	5130RVW544254	531LKL	69,25	28,25	71	35	69,25	28,25	1

## EQUAL TEE FEMALE

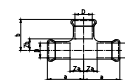
SP5130V



Size	ITEM No	Old code	L	Z	L1	Z1	Qty
12	5130VW12	530AXX	35,5	17,5	35,5	17,5	10
14	5130VW14	530BXX	40	18	40	18	5
15	5130VW15	530CXX	38	16	38	16	10
16	5130VW16	530DXX	41	19	41	19	5
18	5130VW18	530EXX	40	18	40	18	10
22	5130VW22	530GXX	43	20	43	20	5
28	5130VW28	530HXX	46,5	22,5	46,5	22,5	5
35	5130VW35	530JXX	51,5	26,5	51,5	26,5	1
42	5130VW42	530KXX	66	30	65,5	29,5	1
54	5130VW54	530LXX	76	35	76	35	1

## EQUAL TEE FEMALE (M PROFILE)

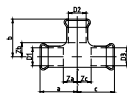
5130M



Size	ITEM No	a	Za	b	Zb	Qty
76,1	38469	101	50	114	64	1
88,9	38470	162	100	162	100	1
108	38471	159	92	159	92	1

## REDUCED TEE FEMALE (M PROFILE)

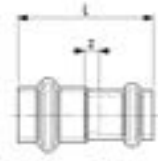
5130RM



Size (S1-S2-S3)	ITEM No	a	Za	b	Zb	c	Zc	Qty
76,1-54-76,1	38552	93	60	104	72	93	60	1
88,9-54-88,9	38554	145	83	135	100	145	83	1
88,9-76,1-88,9	38556	157	95	146	96	157	95	1
108-54-108	38555	131	66	129	93	131	66	1
108-76,1-108	38557	120	52	136	85	120	52	1
108-88,9-108	38558	147	80	149	87	147	80	1

**REDUCER FEMALE-FEMALE**

**SP5240V**



Size	ITEM No	Old code	L	Z	Qty
14-12	5240VW1412	540BAX	46	6	5
15-12	5240VW1512	540CAX	44	4	10
16-14	5240VW1614	540DBX	48,65	4,65	5
16-15*	4240VW1615	D212001001	48,6	2,6	5
18-14	5240VW1814	540EBX	50,45	6,45	5
18-15	5240VW1815	540ECX	50	6	10
18-16	5240VW1816	540EDX	49,3	5,3	5
22-14	5240VW2214	540GBX	53,25	8,25	5
22-15	5240VW2215	540GCX	52,5	7,5	10
22-16	5240VW2216	540GDX	51,5	6,5	5
22-18	5240VW2218	540GEX	52,5	7,5	10
28-22	5240VW2822	540HGX	57,5	10,5	10
35-28	5240VW3528	540JHX	61,75	12,75	5
42-35	5240VW4235	540KJX	73,25	12,25	1
54-42	5240VW5442	540LXX	94	17	1

\* Fitting in gunmetal

**REDUCER MALE-FEMALE**

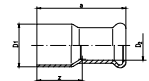
**SP5243V**



Size M-F	ITEM No	Old code	L	Z	Qty
14-12	5243VW1412	541BAX	42,75	24,75	5
15-12	5243VW1512	541CAX	49	27	10
15-14	5243VW1514	541CBX	49	27	5
15-16	5243VW1516	541CDX	49,25	31,25	5
16-12	5243VW1612	541DAX	46,5	24,5	5
16-14	5243VW1614	541DBX	49	31	5
18-12	5243VW1812	541EAX	51,75	29,75	10
18-14	5243VW1814	541EBX	53,5	31,5	5
18-15	5243VW1815	541ECX	49,2	27,2	10
18-16	5243VW1816	541EDX	56	34	5
22-14	5243VW2214	541GBX	56	34	5
22-15	5243VW2215	541BCX	48,25	30,25	10
22-16	5243VW2216	541GDX	56	34	5
22-18	5243VW2218	541GEX	55	33	10
28-15	5243VW2815	541HCX	61	39	10
28-16	5243VW2816	541HDX	60	38	5
28-18	5243VW2818	541HEX	59	37	10
28-22	5243VW2822	541HGX	57	34	10
35-22	5243VW3522	541JGX	64	41	5
35-28	5243VW3528	541JHX	60	36	5
42-22	5243VW4222	541KGX	79	56	1
42-28	5243VW4228	541KHX	80	56	1
42-35	5243VW4235	541KJX	71	46	1
54-35	5243VW5435	541LJX	86,25	61,25	1
54-42	5243VW5442	541LXX	91	55	1

**REDUCER MALE-FEMALE (M PROFILE)**

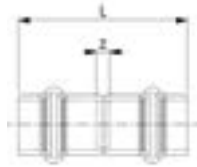
**5243M**



Size M-F	ITEM No	Z	a	Qty
76,1-54	38224	81	116	1
88,9-54	38226	97	132	1
88,9-76,1	38227	90	140	1
108-54	38229	120	156	1
108-76,1	38231	112	162	1
108-88,9	38232	105,5	165,5	1

## COUPLING FEMALE-FEMALE

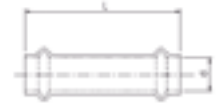
SP5270V



Size	ITEM No	Old code	L	Z	Qty
12	5270VW12	542AXX	40	4	10
14	5270VW14	542BXX	48	4	5
15	5270VW15	542CXX	49	5	10
16	5270VW16	542DXX	49	5	5
18	5270VW18	542EXX	50	6	10
22	5270VW22	542GXX	52	6	10
28	5270VW28	542HXX	54	6	10
35	5270VW35	542JXX	56	6	5
42	5270VW42	542KXX	84	12	1
54	5270VW54	542LXX	92	10	1

## SLIP COUPLING FOR REPAIR

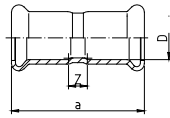
SP5275V



Size	ITEM No	Old code	L	Qty
12	5275VW12	543AXX	71	5
14	5275VW14	543BXX	80	5
15	5275VW15	543CXX	76	5
16	5275VW16	543DXX	82	5
18	5275VW18	543EXX	80	5
22	5275VW22	543GXX	82	5
28	5275VW28	543HXX	93	5
35	5275VW35	543JXX	103	5
42	5275VW42	543KXX	120	1
54	5275VW54	543LXX	135	1

## COUPLING FEMALE-FEMALE (M PROFILE)

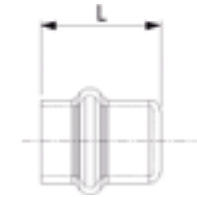
5270M



Size	ITEM No	Z	a	Qty
76,1	38037	10	110	1
88,9	38039	96	220	1
108	38038	71	205	1

## STOP END FEMALE

SP5301V



Size	ITEM No	Old code	L	Qty
12	5301VW12	583AXX	23	10
14	5301VW14	583BXX	27	5
15	5301VW15	583CXX	27	10
16	5301VW16	583DXX	27	5
18	5301VW18	583EXX	27	10
22	5301VW22	583GXX	28	10
28	5301VW28	583HXX	29	10
35	5301VW35	583JXX	32	5
42	5301VW42	583KXX	42	1
54	5301VW54	583LXX	46	1

**STOP END MALE**

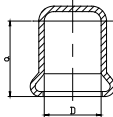
**SP5290V**



Size	ITEM No	Old code	L	Qty
12	SP5290V12	582AXX	25	10
15	SP5290V15	582CXX	29	10
18	SP5290V18	582EXX	30	10
22	SP5290V22	582GXX	31	5
28	SP5290V28	582HXX	35,5	5
35	SP5290V35	582JXX	38	5
42	SP5290V42	582KXX	47,7	1
54	SP5290V54	582LXX	51,7	1

**STOP END FEMALE (M PROFILE)**

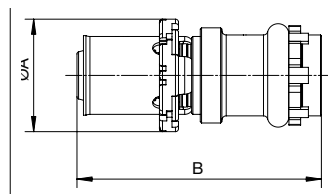
**5301M**



Size	ITEM No	a	Qty
76,1	38692	50	1
88,9	38693	62	1
108	38694	67	1

**ADAPTOR COPPER (V-PROFILE) - SKIN (TH PROFILE)**

**SP57270V**



Size	ITEM No	Old code	A	B	Qty
Cu14 - SKIN 14x2	57270VV14	584BAX	24	56,5	2
Cu15 - SKIN 16x2	57270VV1516	584CBX	26	56	2
Cu15 - SKIN 20x2	57270VV1520	584CEX	30	54	2
Cu15 - SKIN 26x2	57270VV1526	584CJX	36	55	2
Cu16 - SKIN 16x2	57270VV16	584DBX	26	56,5	2
Cu18 - SKIN 16x2	57270VV1816	584EBX	26	56	2
Cu18 - SKIN 20x2	57270VV1820	584EEX	30	56	2
Cu22 - SKIN 20x2	57270VV2220	584GEX	30	57	2
Cu22 - SKIN 26x2	57270VV2226	584GJX	36	55,5	2

**ADAPTOR COPPER (V-PROFILE) - PEX (CO PROFILE)**



**SP5720V**

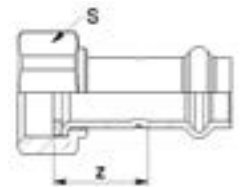


Size	ITEM No	Qty
Cu14 - PEX 16x1,5	5720VW1416	2
Cu16 - PEX 16x1,5	5720VW16	2
Cu18 - PEX 20x1,9	5720VW1820	2

**UNION CONNECTOR WITH NUT**

**SP5359GV**

with swivel nut



Size	ITEM No	Old code	Z	ØD	Qty
12 - 3/8	5359GVW1238	560ABX	27,35	19	5
12 - 1/2	5359GVW1212	560ACX	20,6	24	5
14-3/8"	5359GVW1438	560BBX	29,35	19	5
14-1/2"	5359GVW1412	560BCX	28,85	24	5
15 - 1/2	5359GVW1512	560CCX	29,6	24	5
15 - 3/4	5359GVW1534	560CDX	18,55	30	5
16-1/2"	5359GVW1612	560DCX	30,6	24	5
16-3/4"	5359GVW1634	560DDX	18,55	30	5
18 - 3/4	5359GVW1834	560EDX	32,65	30	5
22 - 1"	5359GVW221	560GEX	19,7	37	5
22 - 3/4	5359GVW2234	560GDX	35,7	30	5
28 - 1 1/4	5359GVW28114	560HFX	21,7	45	5
35 - 1 1/4	5359GVW35114	560JFX	38,5	45	5
42 - 1 1/2	5359GVW42112	560KGX	41	52	1
42 - 1 3/4	5359GVW42134	560KHX	37,05	57	1
54 - 2"	5359GVW542	560LJX	49,7	64	1
54 - 2 3/8	5359GVW54238	560LXX	30,05	75	1

## 90° ELBOW FEMALE - BRONZE MALE TO SCREW



### SP5001GV



Size	ITEM No	L	Z	L1	Qty
12-1/2"	5001GVW1212	33	15	44,2	5
14-3/8"	5001GVW1438	39,5	17,5	46,1	5
14-1/2"	5001GVW1412	39,5	17,5	49,7	5
15-3/8"	5001GVW1538	39,8	17,8	46,1	5
15-1/2"	5001GVW1512	38	16	47,2	5
16-1/2"	5001GVW1612	40,5	18,5	47,2	5
18-1/2"	5001GVW1812	41,2	19,2	49,7	5
18-3/4"	5001GVW1834	40	18	51,1	5
22-3/4"	5001GVW2234	43	20	54,66	5
28-1"	5001GVW281	58	34	69,7	5

## 90° ELBOW FEMALE - BRONZE FEMALE TO SCREW



### SP5002GV



Size	ITEM No	L	Z	L1	Z1	Qty
12-3/8"	5002GVW1238	33	15	42,2	32	5
12-1/2"	5002GVW1212	33	15	45,2	32	5
14-3/8"	5002GVW1438	39,5	17,5	47,7	37,6	5
14-1/2"	5002GVW1412	39,5	17,5	50,7	37,6	5
15-3/8"	5002GVW1538	38	16	45,2	35	5
15-1/2"	5002GVW1512	38	16	48,2	35	5
15-3/4"	5002GVW1534	38	16	49,2	34,5	5
16-1/2"	5002GVW1612	40,5	18,5	50,7	37,7	5
16-3/4"	5002GVW1634	40,5	18,5	51,7	37,2	5
18-1/2"	5002GVW1812	41,2	19,2	50,7	37,8	5
18-3/4"	5002GVW1834	41,2	19,2	51,7	37	5
22-1/2"	5002GVW2212	50	27	59,3	46,4	5
22-3/4"	5002GVW2234	50	27	60,6	46	5
22-1"	5002GVW221	50	27	65,2	48,3	5
28-1"	5002GVW281	58	34	70,6	53,5	5

## TIP

### SMART FITTINGS



New directional fittings recently added to SUDOPress Copper range:

41 bi-metal fittings made of copper and gun metal.

Press function is made with the copper body of the fitting.

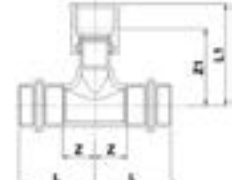
Screw function is made with the gun metal part.

With their rotating function, these new SUDOPress fittings will make the job easier.

## REDUCED TEE FEMALE - BRONZE FEMALE TO SCREW



### SP5130GV

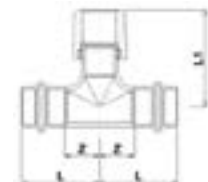


Size	ITEM No	L	Z	L1	Z1	Qty
12-1/2"-12	5130GVW121212	35,5	17,5	45,7	30,7	5
14-1/2"-14	5130GVW141214	38,5	16,5	45,7	30,7	5
15-1/2"-15	5130GVW151215	38,5	16,5	45,7	30,7	5
16-1/2"-16	5130GVW161216	38,5	16,5	50,2	35,2	5
18-1/2"-18	5130GVW181218	38,5	16,5	50,2	35,2	5
22-1/2"-22	5130GVW221222	38,5	15,5	50,2	35,2	5
22-3/4"-22	5130GVW223422	42,6	20	54,5	38,5	5
28-1/2"-28	5130GVW281228	46,5	22,5	45,5	32	5
28-3/4"-28	5130GVW283428	45	21	54	38	5
35-1/2"-35	5130GVW351235	48,5	23,5	48	35	1
42-1/2"-42	5130GVW421242	58,5	22,5	56,5	43	1
54-1/2"-54	5130GVW541254	63,5	22,5	61,5	48,5	1

## REDUCED TEE FEMALE - BRONZE MALE TO SCREW



### SP5132GV



Size	ITEM No	L	Z	L1	Qty
15-1/2"-15	5132GVW151215	38	16	44,7	5
18-3/4"-18	5132GVW183418	39	18	51,2	5
22-3/4"-22	5132GVW223422	40,5	17,5	53,2	5
28-3/4"-28	5132GVW283428	45	21	55,5	5

### 90° ELBOW MALE TO SCREW - FEMALE

#### SP4001GV



Size	ITEM No	Old code	L	Z	L1	Qty
14-3/8" *	4001GWW1438	420BBX	43,5	19,5	34	5
14-1/2" *	4001GWW1412	420BCX	43,5	19,5	44,1	5
15-3/8" *	4001GWW1538	420CBX	46	24	42	5
15-1/2"	4001GWW1512	420CCX	45	23	48	5
16-1/2" *	4001GWW1612	420DCX	43,5	19,5	44,25	5
18-1/2"	4001GWW1812	420ECX	47	25	43,2	5
18-3/4"	4001GWW1834	420EDX	47	25	47	5
22-3/4"	4001GWW2234	420GDX	53	27	55	5
28-1"	4001GWW281	420HEX	58	34	65	5

\* Item in Brass

### 90° ELBOW FEMALE TO SCREW - FEMALE

#### SP4090GV

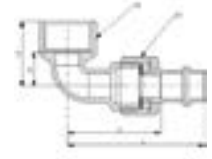


Size	ITEM No	Old code	L	Z	L1	Z1	Qty
12-1/2"	4090GWW1212	421ACX	41	23	22,5	9	5
14-3/8" *	4090GWW1438	421BBX	43,5	19,5	22	12	5
14-1/2" *	4090GWW1412	421BCX	43,5	19,5	22	9	5
15-3/8"	4090GWW1538	421CBX	42	20	19	7,5	5
15-1/2"	4090GWW1512	421CCX	45,5	23,5	22,5	9	5
15-3/4"	4090GWW1534	421CDX	47	25	26	11,5	5
16-1/2" *	4090GWW1612	421DCX	43,5	19,5	22	9	5
16-3/4" *	4090GWW1634	421DDX	46,5	22,5	26	10	5
18-1/2"	4090GWW1812	421ECX	44	22	23,5	10	5
18-3/4"	4090GWW1834	421EDX	47	25	26	11,5	5
22-1/2"	4090GWW2212	421GCX	44	21	26	12,5	5
22-3/4"	4090GWW2234	421GDX	51,5	28,5	26,5	12	5
28-1"	4090GWW281	421HEX	51	27	34	17	5

\* Item in Brass

### 90° UNION ELBOW FEMALE TO SCREW - FEMALE

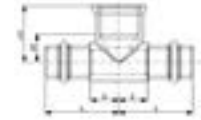
#### SP4096GV



Size	ITEM No	Old code	L	Z	L1	Z1	Qty
12-1/2"	4096GWW1212	422ACX	56,5	38,5	34	20,5	5
15-1/2"	4096GWW1512	422CCX	62,5	40,5	34	20,5	5
18-1/2"	4096GWW1812	422ECX	62,5	40,5	34	20,5	5
18-3/4"	4096GWW1834	422EDX	62,5	40,5	39	24,5	5
22-3/4"	4096GWW2234	422GDX	73	50	43	28,5	5
22-1"	4096GWW221	422GEX	73	50	47	30	5

### TEE THREADED FEMALE TO SCREW - FEMALE

#### SP4130GV

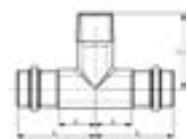


Size	ITEM No	Old code	L	Z	L1	Z1	Qty
12-1/2"-12	4130GWW121212	430ACA	41	23	21	7,5	5
14-1/2"-14" *	4130GWW141214	430BCB	43,5	19,5	22	9	5
15-1/2"-15	4130GWW151215	430CCC	44	22	22	8,5	5
16-1/2"-16" *	4130GWW161216	430DCD	43,5	19,5	22	9	5
18-1/2"-18	4130GWW181218	430ECE	44	22	24	10,5	5
22-1/2"-22	4130GWW221222	430GCG	44	21	26	12,5	5
22-3/4"-22	4130GWW223422	430GDG	47	24	28,5	13,5	5
28-1/2"-28	4130GWW281228	430HCH	44	20	29	15,5	5
28-3/4"-28	4130GWW283428	430HDH	47	23	31,5	17	5
35-1/2"-35	4130GWW351235	430JJC	44	19	32,5	19	5
42-1/2"-42	4130GWW421242	430KCK	54	18	36	22,5	1
54-1/2"-54	4130GWW541254	430LCL	57	16	42	28,5	1

\* Item in Brass

### TEE THREADED MALE TO SCREW - FEMALE

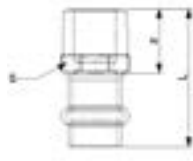
#### SP4132GV



Size	ITEM No	Old code	L	Z	L1	Qty
15-1/2"-15	4132GWW151215	431CCC	44	22	35,5	5
18-3/4"-18	4132GWW183418	431EDE	45	21	40	5
22-3/4"-22	4132GWW223422	431GDG	47	23	41	5
28-3/4"-28	4132GWW283428	431HDH	47	23	44	5

## COUPLING MALE TO SCREW - FEMALE

### SP4243GV



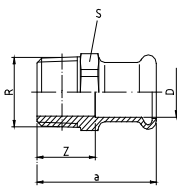
Size	ITEM No	Old code	L	Z	Qty
12-3/8"	4243GVW1238	440ABX	36	18	5
12-1/2"	4243GVW1212	440ACX	40,5	22,5	5
14-3/8" *	4243GVW1438	440BBX	40	16	5
14-1/2" *	4243GVW1412	440BCX	45	21	5
14-3/4" *	4243GVW1434	440BDX	49	25	5
15-3/8"	4243GVW1538	440CBX	40	18	5
15-1/2"	4243GVW1512	440CCX	45	23	5
15-3/4"	4243GVW1534	440CDX	47	25	5
16-1/2" *	4243GVW1612	440DCX	45	21	5
16-3/4" *	4243GVW1634	440DDX	49	25	5
18-1/2"	4243GVW1812	440ECX	44	22	5
18-3/4"	4243GVW1834	440EDX	47	25	5
22-1/2"	4243GVW2212	440GCX	45,5	22,5	5
22-3/4"	4243GVW2234	440GDX	48	25	5
22-1"	4243GVW221	440GEX	50,5	27,5	5
28-3/4"	4243GVW2834	440HDX	48,5	24,5	5
28-1	4243GVW281	440HEX	51	27	5
28-1 1/4	4243GVW28114	440HFX	53,5	29,5	5
35-1"	4243GVW351	440JEX	53	28	5
35-1 1/4	4243GVW35114	440JFX	56	31	1
35-1 1/2	4243GVW35112	440JGX	53,8	28,8	1
42-1 1/4	4243GVW42114	440KFX	62,1	26,1	1
42-1 1/2	4243GVW42112	440KGX	62,7	26,7	1
54-1 1/2	4243GVW54112	440LGX	68	27	1
54-2"	4243GVW542	440LJX	72,3	31,3	1

\* Item in brass

## COUPLING MALE TO SCREW - FEMALE (M PROFILE)

### 4243GM

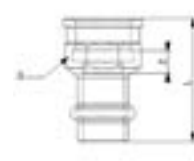
3 screws fixing



Size	ITEM No	Z	a	s	Qty
76,1-2"1/2	38126	44	99	84	1
88,9 - 3"	38125	82	144	92,5	1
108 - 4"	38124	50	132	117	1

## COUPLING FEMALE TO SCREW - FEMALE

### SP4270GV

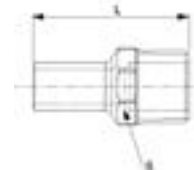


Size	ITEM No	Old code	L	Z	Qty
12-3/8"	4270GVW1238	441ABX	32,2	4,1	5
12-1/2"	4270GVW1212	441ACX	35,7	4,5	5
14-3/8" *	4270GVW1438	441BBX	36	2	5
14-1/2" *	4270GVW1412	441BCX	41	4	5
14-3/4" *	4270GVW1434	441BDX	44,5	5,5	5
15-3/8"	4270GVW1538	441CBX	35,3	3,2	5
15-1/2"	4270GVW1512	441CCX	39,5	4,3	5
15-3/4"	4270GVW1534	441CDX	42	5,5	5
16-1/2" *	4270GVW1612	441DCX	41	5	5
16-3/4" *	4270GVW1634	441DDX	44,5	4,5	5
18-1/2"	4270GVW1812	441ECX	38,5	3,3	5
18-3/4"	4270GVW1834	441EDX	41	4,5	5
22-1/2"	4270GVW2212	441GCX	38,5	2,3	5
22-3/4"	4270GVW2234	441GDX	41,5	4	5
22-1"	4270GVW221	441GEX	45	5	5
28-3/4"	4270GVW2834	441HDX	39,8	1	5
28-1"	4270GVW281	441HEX	45	4	5
28-1 1/4	4270GVW28114	441HFX	48,9	5,8	5
35-1"	4270GVW351	441JEX	42,5	1	5
35-1 1/4	4270GVW35114	441JFX	47,6	4,5	5
42-1 1/4	4270GVW42114	441KFX	56,3	1	1
42-1 1/2	4270GVW42112	441KGX	59,4	4,3	1
54-2"	4270GVW542	441LJX	68,6	4,2	1

\* Item in brass

## COUPLING MALE TO SCREW - FEMALE

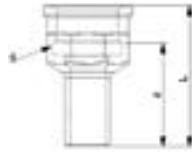
### SP4280GV



Size	ITEM No	Old code	S	Qty
12-1/2"	4280GVW1212	443ACX	22	5
15-1/2"	4280GVW1512	443CCX	22	5
18-1/2"	4280GVW1812	443ECX	22	5
18-3/4"	4280GVW1834	443EDX	27	5
22-1/2"	4280GVW2212	443GCX	24	5
22-3/4"	4280GVW2234	443GDX	27	5
28-1"	4280GVW281	443HEX	34	5
35-1 1/4	4280GVW35114	443JFX	43	5
42-1 1/2	4280GVW42112	443KGX	49	1
54-2"	4280GVW542	443LJX	61	1

## COUPLING FEMALE TO SCREW - MALE

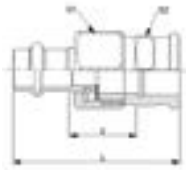
### SP4281GV



Size	ITEM No	Old code	L	Z	S	Qty
12-1/2"	4281GWW1212	444ACX	40,9	27,7	24	5
15-1/2"	4281GWW1512	444CCX	44,4	31,2	24	5
18-1/2"	4281GWW1812	444ECX	43,8	30,6	24	5
18-3/4"	4281GWW1834	444EDX	46	31,5	30	5
22-1/2"	4281GWW2212	444GCX	44	30,8	24	5
22-3/4"	4281GWW2234	444GDX	46	31,5	30	5
28-3/4"	4281GWW2834	444HDX	46	31,5	30	5
28-1"	4281GWW281	444HEX	50,3	33,5	40	5
35-1"	4281GWW351	444JEX	48,6	31,8	38	1
35-1 1/4"	4281GWW35114	444JFX	53,4	34,3	46	1
42-1 1/2"	4281GWW42112	444KGX	65,2	46,1	52	1
54-2"	4281GWW542	444LJX	75	51,6	65	1

## RIGHT UNION FEMALE

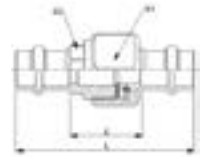
### SP4330GV



Size	ITEM No	Old code	L	Z	Qty
12-1/2"	4330GWW1212	451ACX	53,5	22	5
15-1/2"	4330GWW1512	451CCX	59,5	24	5
15-3/4"	4330GWW1534	451CDX	64,5	28	5
18-1/2"	4330GWW1812	451ECX	59,5	24	5
18-3/4"	4330GWW1834	451EDX	64,5	28	5
22-3/4"	4330GWW2234	451GDX	65,5	29	5
22-1"	4330GWW221	451GEX	74	35	5
28-1"	4330GWW281	451HEX	69	28	5
35-1 1/4"	4330GWW35114	451JFX	78,5	32,1	5
42-1 1/2"	4330GWW42112	451KGX	89	31,6	1
54-2"	4330GWW542	451LJX	92,5	28,1	1

## RIGHT UNION FEMALE

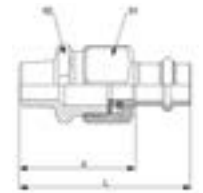
### SP4330V



Size	ITEM No	Old code	L	Z	Qty
12	4330VW12	450AXX	63,5	27,5	5
15	4330VW15	450CXX	63,5	19,5	5
18	4330VW18	450EXX	73,5	29,5	5
22	4330VW22	450GXX	80	36	5
28	4330VW28	450HXX	87	41	5
35	4330VW35	450JXX	88,5	38,5	1
42	4330VW42	450KXX	113	41	1
54	4330VW54	450LXX	119,5	37,5	1

## RIGHT UNION MALE TO SCREW - FEMALE

### SP4331GV



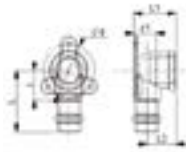
Size	ITEM No	Old code	L	Z	Qty
12-3/8"	4331GWW1238	452ABX	56,2	38,2	5
12-1/2"	4331GWW1212	452ACX	59,5	41,5	5
15-1/2"	4331GWW1512	452CCX	65,5	43,5	5
15-3/4"	4331GWW1534	452CDX	67,5	45,5	5
18-1/2"	4331GWW1812	452ECX	65,5	43,5	5
18-3/4"	4331GWW1834	452EDX	67,5	45,5	5
22-1/2"	4331GWW2212	452GCX	70	48	5
22-3/4"	4331GWW2234	452GDX	75	53	5
22-1"	4331GWW221	452GEX	78	56	5
28-1"	4331GWW281	452HEX	79	55	5
35-1 1/4"	4331GWW35114	452JFX	83,5	58,5	1
42-1 1/2"	4331GWW42112	452KGX	95	59	1
54-2"	4331GWW542	452LJX	103	62	1



## BACKPLATE ELBOW FEMALE

### SP4471GV

3 screws fixing

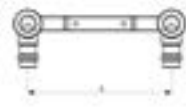


Size	ITEM No	Old code	L	Z	L1	Z1	L2	ØD	Qty
12-1/2"	4471GVW1212	470ACX	41	23	34,5	21	22,5	40	5
14-1/2"	4471GVW1412	470BCX	43,5	19,5	34,5	21,5	22	35	5
15-1/2"	4471GVW1512	470CCX	45,5	23,5	34,5	21	22	40	5
16-1/2"	4471GVW1612	470DCX	43,5	19,5	34,5	21,5	22	35	5
18-1/2"	4471GVW1812	470ECX	44	22	39	25,5	23,5	40	5
22-3/4"	4471GVW2234	470GDX	47	24	49	34,5	27	50	5

## ASSEMBLING UNIT

### SP4976GV

Staggered double

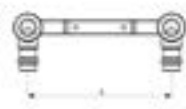


Size	ITEM No	Old code	L	Qty
15-1/2"	4976VW1512	471CCX	150	1

## ASSEMBLING UNIT

### SP4977GV

Straight double

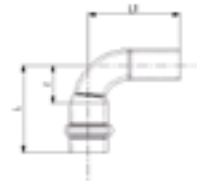


Size	ITEM No	Old code	L	Qty
15-1/2"	4977VW1512	472CCX	150	1

## FOR WATER APPLICATIONS (CHROMES)

### 90° ELBOW MALE-FEMALE

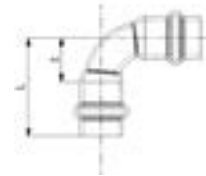
#### SPC5001V



Size	ITEM No	Old code	L	Z	L1	Qty
12	5001VC12	529AXX	33	15	35	10
15	5001VC15	529CXX	38	16	40	10

### 90° ELBOW FEMALE-FEMALE

#### SPC5002V



Size	ITEM No	Old code	L	Z	Qty
12	5002VC12	528AXX	33	15	10
15	5002VC15	528CXX	38	16	10

### 45° ELBOW MALE-FEMALE

#### SPC5040V



Size	ITEM No	Old code	L	Z	L1	Qty
12	5040VC12	519AXX	25,5	7,5	27,5	10
15	5040VC15	519CXX	30	8	32	10

### 45° ELBOW FEMALE-FEMALE

#### SPC5041V



Size	ITEM No	Old code	L	Z	Qty
12	5041VC12	518AXX	25,5	7,5	10
15	5041VC15	518CXX	30	8	10

### PART CROSSOVER MALE-FEMALE

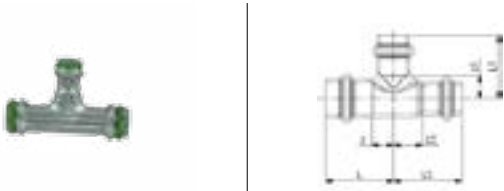
#### SPC5086V



Size	ITEM No	Old code	L	Z	L1	Z1	L2	Qty
12	5086VC12	588AXX	127,5	109,5	70	52	20	10
15	5086VC15	588CXX	140	118	70	48	21	10

### REDUCED TEE FEMALE

#### SPC5130RV



Size (S1-S2-S3)	ITEM No	Old code	L	Z	L1	Z1	L2	Z2	Qty
12-15-12	5130RVC121512	538ACA	37	19	38	16	37	19	10
15-12-12	5130RVC151212	538CAA	38	16	37	19	37	19	10
15-12-15	5130RVC151215	538CAC	38	16	37	19	38	16	10
15-15-12	5130RVC151512	538CCA	38	16	38	16	37	19	10

### EQUAL TEE FEMALE

#### SPC5130V



Size	ITEM No	Old code	L	Z	L1	Z1	Qty
12	5130VC12	538AXX	35,5	17,5	35,5	17,5	10
15	5130VC15	538CXX	38	16	38	16	10

### REDUCER MALE-FEMALE

#### SPC5243V



Size M-F	ITEM No	Old code	L	Z	Qty
15-12	5243VC1512	548CAX	48,25	30,25	10
18-15	5243VC1815	548ECX	53,5	31,5	10

### COUPLING FEMALE-FEMALE

#### SPC5270V



Size	ITEM No	Old code	L	Qty
12	5270VC12	547AXX	71	10
15	5270VC15	547CXX	81	10

### SLIP COUPLING FOR REPAIR

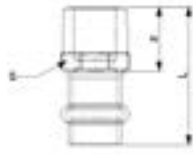
#### SPC5275V



Size	ITEM No	Old code	L	Z	Qty
12	5275VC12	546AXX	40	4	5
15	5275VC15	546CXX	49	5	5

## COUPLING MALE TO SCREW - FEMALE

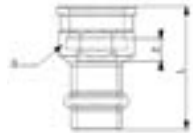
### SPC4243GV



Size	ITEM No	Old code	L	Z	S1	Qty
12-1/2	4243GVC1212	449ACX	40,5	22,5	24	5
15-1/2	4243GVC1512	449CCX	45	23	24,2	5

## COUPLING FEMALE TO SCREW - FEMALE

### SPC4270GV

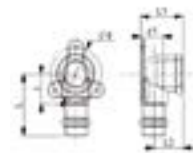


Size	ITEM No	Old code	L	Z	S1	Qty
12-1/2	4270GVC1212	448ACX	35,7	4,5	24	5
15-1/2	4270GVC1512	448CCX	39,5	4,3	27	5

## BACKPLATE ELBOW FEMALE

### SPC4471GV

3 screws fixing



Size	ITEM No	Old code	L	Z	L1	Z1	L2	ØD	Qty
15-1/2	4471GVC1512	479CCX	45,5	23,5	34,5	21	22	40	5

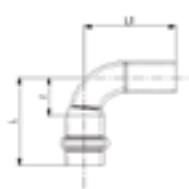
**SudoPress**

# SUDOPRESS COPPER FOR GAS APPLICATIONS

## FOR GAS APPLICATIONS

### 90° ELBOW MALE-FEMALE

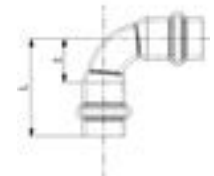
**SPG5001V**



Size	ITEM No	L	Z	L1	Qty
12	D136039001	33	15	35	5
14	520BXXG	39,5	17,5	41,5	5
15	520CXXG	38	16	40	10
16	520DXXG	40,5	18,5	42,5	5
18	520EXXG	44	22	46	10
22	520GXXG	50	27	52	10
28	520HXXG	58	34	60	5
35	520JXXG	68	43	70	5
42	520KXXG	87	51	89	1
54	520LXXG	105	64	107	1

### 90° ELBOW FEMALE-FEMALE

**SPG5002V**



Size	ITEM No	L	Z	Qty
12	D136040001	33	15	5
14	521BXXG	39,5	17,5	5
15	521CXXG	38	16	10
16	521DXXG	40,5	18,5	5
18	521EXXG	44	22	10
22	521GXXG	50	27	10
28	521HXXG	58	34	5
35	521JXXG	68	43	5
42	521KXXG	87	51	1
54	521LXXG	105	64	1

## 45° ELBOW MALE-FEMALE

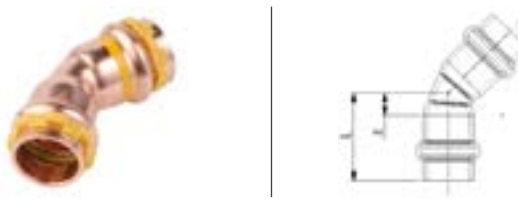
SPG5040V



Size	ITEM No	L	Z	L1	Qty
12	D136041001	25,5	7,5	27,5	5
14	510BXXG	29,5	7,5	31,5	5
15	510CXXG	30	8	32	10
16	510DXXG	30,5	8,5	32,5	5
18	510EXXG	31	9	33	10
22	510GXXG	34	11	36	10
28	510HXXG	38	14	40	5
35	510JXXG	37,5	12,5	39	5
42	510KXXG	54,5	18,5	57	1
54	510LXXG	64	23	68	1

## 45° ELBOW FEMALE-FEMALE

SPG5041V



Size	ITEM No	L	Z	Qty
12	D136042001	25,5	7,5	5
14	511BXXG	29,5	7,5	5
15	511CXXG	30	8	10
16	511DXXG	30,5	8,5	5
18	511EXXG	31	9	10
22	511GXXG	34	11	10
28	511HXXG	38	14	5
35	511JXXG	37,5	12,5	5
42	511KXXG	54,5	18,5	1
54	511LXXG	64	23	1

## REDUCED TEE FEMALE

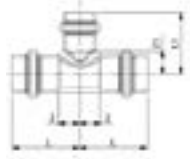
SPG5130RV



Size (S1-S2-S3)	ITEM No	L	Z	L1	Z1	L2	Z2	Qty
14-12-12	D136044001	38,5	16,5	37,5	19,5	37,5	19,5	5
14-12-14	D136045001	38,5	16,5	37,5	19,5	38,5	16,5	5
14-16-14	531BDBG	41	19	41	19	41	19	5
15-12-12	D136046001	38	16	37	19	37	19	5
15-12-15	D136047001	38	16	37	19	38	16	5
15-15-12	D136048001	38	16	38	16	37	19	5
16-12-16	D136049001	38,5	16,5	39	21	38,5	16,5	5
16-14-14	531DDBG	41	19	41	19	41	19	5
16-14-16	531DDBG	41	19	41	19	41	19	5
16-16-14	531DDBG	41	19	41	19	41	19	5
18-12-18	D136050001	38,5	16,5	39	21	38,5	16,5	5
18-14-18	531EBEG	40	18	40	18	40	18	5
18-15-18	531ECEG	40	18	40	18	40	18	10
18-16-18	531EDEG	40	18	40	18	40	18	5
22-14-22	D136051001	38,5	15,5	42	24	38,5	15,5	5
22-14-22	531GBGG	40,5	17,5	45	23	40,5	17,5	5
22-15-15	531GCCG	40,5	17,5	45	23	44	22	5
22-15-22	531GCGG	40,5	17,5	45	23	40,5	17,5	5
22-16-22	531GDGG	34,5	11,5	37	15	34,5	11,5	5
22-18-22	531GEGG	42	19	45	22	42	19	5
22-22-15	531GGCG	43	20	43	20	43	21	5
28-15-28	531HCHG	45	21	49	27	45	21	5
28-22-28	531HGCG	45	21	49	26	45	21	5
35-22-35	531JGJG	48,5	23,5	53	30	48,5	23,5	1
35-28-35	531JHJG	48,5	23,5	51	27	48,5	23,5	1
42-28-42	531KHKG	58,5	22,5	59,5	35,5	58,5	22,5	1
42-35-42	531KJKG	58,5	22,5	56	31	58,5	22,5	1
54-42-54	531LKLG	69,25	28,25	71	35	69,25	28,25	1

### EQUAL TEE FEMALE

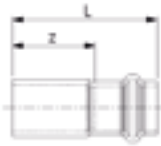
#### SPG5130V



Size	ITEM No	L	Z	L1	Z1	Qty
12	D136043001	35,5	17,5	35,5	17,5	5
14	530BXXG	40	18	40	18	5
15	530CXXG	38	16	38	16	10
16	530DXXG	41	19	41	19	5
18	530EXXG	40	18	40	18	10
22	530GXXG	43	20	43	20	5
28	530HXXG	46,5	22,5	46,5	22,5	5
35	530JXXG	51,5	26,5	51,5	26,5	1
42	530KXXG	66	30	65,5	29,5	1
54	530LXXG	76	35	76	35	1

### REDUCER MALE-FEMALE

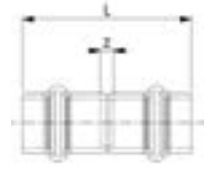
#### SPG5243V



Size M-F	ITEM No	L	Z	Qty
14-12	D136052001	42,75	24,75	5
15-12	D136053001	48,25	30,75	5
16-12	D136054001	49,25	31,25	5
16-14	541DBXG	46,5	24,5	5
18-12	D136055001	49	31	5
18-14	541EBXG	51,75	29,75	5
18-15	541ECXG	53,5	31,5	10
18-16	541EDXG	49,2	27,2	5
22-14	541GBXG	56	34	5
22-15	541GCXG	56	34	10
22-16	541GDXG	56	34	5
22-18	541GEXG	55	33	10
28-15	541HCXG	61	39	10
28-16	541HDXG	60	38	5
28-18	541HEXG	59	37	10
28-22	541HGXG	57	34	10
35-22	541JGXG	64	41	5
35-28	541JHXG	60	36	5
42-22	541KGXG	79	56	5
42-28	541KHXG	80	56	1
42-35	541KJXG	71	46	1
54-35	541LJXG	86,25	61,25	1
54-42	541LXXG	91	55	1

### COUPLING FEMALE-FEMALE

#### SPG5270V



Size	ITEM No	L	Z	Qty
12	D136056001	40	4	5
14	542BXXG	48	4	5
15	542CXXG	49	5	10
16	542DXXG	49	5	5
18	542EXXG	50	6	10
22	542GXXG	52	6	10
28	542HXXG	54	6	10
35	542JXXG	56	6	5
42	542KXXG	84	12	1
54	542LXXG	92	10	1

### SLIP COUPLING FEMALE-FEMALE

#### SPG5275V



Size	ITEM No	L	Qty
12	D136057001	71	5
14	543BXXG	80	5
15	543CXXG	76	5
16	543DXXG	82	5
18	543EXXG	80	5
22	543GXXG	82	5
28	543HXXG	93	5
35	543JXXG	103	5
42	543KXXG	120	1
54	543LXXG	135	1

## STOP END FEMALE

### SPG5301V



Size	ITEM No	L	Qty
12	D136058001	23	5
14	583BXXG	27	5
15	583CXXG	27	10
16	583DXXG	27	5
18	583EXXG	27	10
22	583GXXG	28	10
28	583HXXG	29	10
35	583JXXG	32	5
42	583KXXG	42	1
54	583LXXG	46	1

## TEE THREADED FEMALE TO SCREW - FEMALE

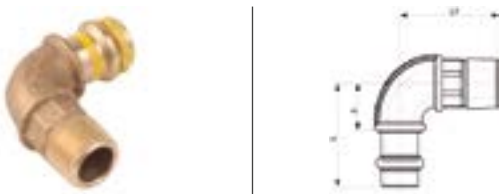
### SPG4130GV



Size	ITEM No	L	Z	L1	Z1	Qty
15-1/2-15	430CCCG	44	22	22	8,5	5
18-1/2-18	430CECG	44	22	24	10,5	5
22-1/2-22	430GCGG	44	21	26	12,5	5
28-1/2-28	430HCHG	44	20	29	15,5	5
28-3/4-28	430HDHG	47	23	31,5	17	5
35-1/2-35	430JCJG	44	19	32,5	19	1
42-1/2-42	430KCKG	54	18	36	22,5	1
54-1/2-54	430LCLG	57	16	42	28,5	1

## 90° ELBOW MALE TO SCREW - FEMALE

### SPG4001GV



Size	ITEM No	L	Z	L1	Qty
15-1/2	420CCXG	45	23	48	5
18-1/2	420ECXG	47	25	43,2	5
18-3/4	420EDXG	47	25	47	5
22-3/4	420GDXG	53	27	55	5
28-1"	420HEXG	58	34	65	5

## COUPLING MALE TO SCREW - FEMALE

### SPG4243GV



Size	ITEM No	L	Z	S	Qty
14-3/8	440BBXG	40	16	18,5	5
14-1/2	440BCXG	45	21	21,5	5
14-3/4	440BDXG	49	25	27,5	5
15-1/2	440CCXG	45	23	24,2	5
15-3/4	440CDXG	47	25	27	5
16-1/2	440DCXG	45	21	21,5	5
16-3/4	440DDXG	49	25	27,5	5
18-1/2	440ECXG	44	22	22	5
18-3/4	440EDXG	47	25	28	5
22-1/2	440GCXG	45,5	22,5	32	5
22-3/4	440GDXG	48	25	32	5
22-1"	440GEXG	50,5	27,5	34	5
28-3/4	440HDXG	48,5	24,5	38	5
28-1"	440HEXG	51	27	38	5
28-1 1/4	440HFXG	53,5	29,5	46	5
35-1"	440JEXG	53	28	46	1
35-1 1/4	440JFXG	56	31	46	1
35-1 1/2	440JGXG	53,8	28,8	49	1
42-1 1/4	440KFXG	62,1	26,1	48	1
42-1 1/2	440KGXG	62,7	26,7	49	1
54-1 1/2	440LGXG	68	27	59	1
54-2"	440LJXG	72,3	31,3	61	1

## 90° ELBOW FEMALE TO SCREW - FEMALE

### SPG4090GV



Size	ITEM No	L	Z	L1	Z1	Qty
15-1/2	421CCXG	45,5	23,5	22,5	9	5
18-1/2	421ECXG	44	22	23,5	10	5
18-3/4	421EDXG	47	25	26	11,5	5
22-1/2	421GCXG	44	21	26	12,5	5
22-3/4	421GDXG	51,5	28,5	26,5	12	5
22-1"	421GEXG	51	28	30	13	5
28-1"	421HEXG	51	27	34	17	5

## COUPLING FEMALE TO SCREW - FEMALE

### SPG4270GV



Size	ITEM No	L	Z	S	Qty
14-3/8	441BBXG	36	2	21,5	5
14-1/2	441BCXG	41	4	25,5	5
14-3/4	441BDXG	44,5	5,5	30,5	5
15-1/2	441CCXG	39,5	4,3	27	5
15-3/4	441CDXG	42	5,5	30,5	5
16-1/2	441DCXG	41	5	25,5	5
16-3/4	441DDXG	44,5	4,5	30,5	5
18-1/2	441ECXG	38,5	3,3	27	5
18-3/4	441EDXG	41	4,5	30	5
22-1/2	441GCXG	38,5	2,3	27	5
22-3/4	441GDXG	41,5	4	32	5
22-1"	441GEXG	45	5	40	5
28-1"	441HEXG	45	4	40	5
35-1 1/4	441JFXG	47,6	4,5	46	5
42-1 1/2	441KGXG	59,4	4,3	52	1
54-2"	441LJXG	68,6	4,2	65	1

## BACKPLATE ELBOW FEMALE

### SPG4471GV

3 screws fixing



Size	ITEM No	L	Z	L1	Z1	L2	ØD	Qty
15-1/2	470CCXG	45,5	23,5	34,5	21	22	40	5
18-1/2	470ECXG	44	22	39	25,5	23,5	40	5
22-3/4	470GDXG	47	24	49	34,5	27	50	5

## UNION CONNECTOR GAS SWIVEL NUT

### SPG-FB

Swivel nut flat ring - Service pressure 500 mbar



Size	ITEM No	Z	S	Qty
12 x E.M20x1,5	SPG04512	17,1	24	2
14 x E.M20x1,5	SPG04520	17,7	24	2
14 x E.1/2"	SPG15811	18	24	2
16 x E.1/2"	SPG37400	18,6	24	2
12 x E.3/4"	SPG08312	10,2	32	2
14 x E.3/4"	SPG08314	9,9	32	2
16 x E.3/4"	SPG08316	9,4	32	2
18 x E.3/4"	SPG08318	16,1	32	2
22 x E.3/4"	SPG83022	22,3	32	2

## STRAIGHT COUPLING GAS SWIVEL NUT

### SPG-MAM-JPC

Swivel nut flat ring - Service pressure 500 mbar



Size	ITEM No	Z	S	Qty
22 x 6/20	SPG02103	19,4	36	1
28 x 6/20	SPG02104	20,8	36	1
28 x 10/32	SPG02105	11,7	50	1
35 x 10/32	SPG02106	22,7	50	1
54 x 25/50	SPG02107	27,2	70	1

## STRAIGHT COUPLING GAS SWIVEL NUT

### SPG-MAM-JPG

Swivel nut flat ring - Service pressure 500 mbar



Size	ITEM No	L	Z	S	Qty
22 x 1"	SPG02098	40,9	17,9	36	2
28 x 1 1/4	SPG02099	43,7	19,7	46	2
35 x 1 1/2	SPG02100	48	23	50	2
42 x 2"	SPG02101	59	23	60	2
54 x 2 1/4	SPG02102	65	24	70	2



## UNION CONNECTOR GAS SWIVEL NUT

### SPG-RC-JPG

Swivel nut flat ring - Service pressure 500 mbar

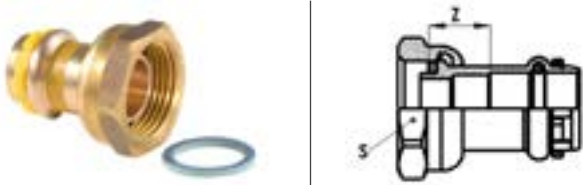


Size	ITEM No	Z	S	Qty
12 x 1/2"	D136001001	17,6	24	5
14 x 1/2"	D136002001	18,5	24	5
16 x 1/2"	SPG02003	18,1	24	2
16 x 3/4"	D136003001	8	32	5
18 x 1/2"	SPG02004	18,6	24	2
18 x 3/4"	D136004001	15	32	5
22 x 3/4"	D136005001	21,2	32	5
22 x 1"	SPG02010	10,2	41	2
28 x 1"	SPG02115	24	41	2
28 x 1 1/4"	SPG02012	11,3	50	2
35 x 1 1/2"	SPG02013	15	55	2
42 x 2"	SPG02014	10	70	2

## UNION CONNECTOR GAS SWIVEL NUT

### SPG-2P-JPC

Swivel nut flat ring - Service pressure 500 mbar



Size	ITEM No	L	Z	S	Qty
22 x 6/20	SPG02035	40,3	17,3	36	1
28 x 6/20	SPG02036	40	16	36	1
28 x 10/32	SPG02037	43,4	19,4	46	1
35 x 10/32	SPG02038	45,5	20,5	46	1
54 x 25/50	SPG02039	61,5	20,5	70	1

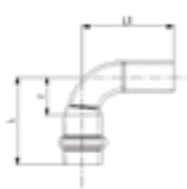
**SudoPress**

# SUDOPRESS COPPER FOR SOLAR APPLICATIONS

## FOR SOLAR APPLICATIONS

### 90° ELBOW MALE-FEMALE

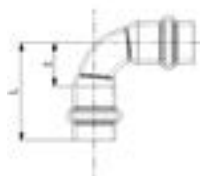
**SPS5001V**



Size	ITEM No	Old code	L	Z	L1	Qty
14	5001VS14	520BXXS	39,5	17,5	41,5	10
15	5001VS15	520CXXS	38	16	40	10
16	5001VS16	520DXXS	40,5	18,5	42,5	5
18	5001VS18	520EXXS	44	22	46	10
22	5001VS22	520GXXS	50	27	52	10

### 90° ELBOW FEMALE-FEMALE

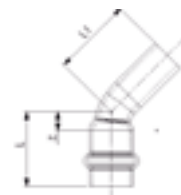
**SPS5002V**



Size	ITEM No	Old code	L	Z	Qty
14	5002VS14	521BXXS	39,5	17,5	5
15	5002VS15	521CXXS	38	16	10
16	5002VS16	521DXXS	40,5	18,5	5
18	5002VS18	521EXXS	44	22	10
22	5002VS22	521GXXS	50	27	10

### 45° ELBOW MALE-FEMALE

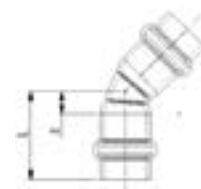
**SPS5040V**



Size	ITEM No	Old code	L	Z	L1	Qty
18	5040VS18	510EXXS	31	9	33	10

### 45° ELBOW FEMALE-FEMALE

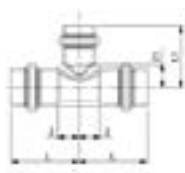
**SPS5041V**



Size	ITEM No	Old code	L	Z	Qty
18	5041VS18	511EXXS	31	9	10

## EQUAL TEE FEMALE

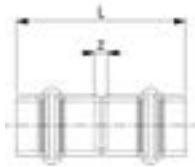
SPS5130V



Size	ITEM No	Old code	L	Z	L1	Z1	Qty
14	5130VS14	530BXXS	40	18	40	18	10
15	5130VS15	530CXXS	38	16	38	16	10
16	5130VS16	530DXXS	41	19	41	19	5
18	5130VS18	530EXXS	40	18	40	18	10
22	5130VS22	530GXXS	43	20	43	20	5

## COUPLING FEMALE-FEMALE

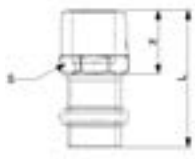
SPS5270V



Size	ITEM No	Old code	L	Z	Qty
14	5270VS14	542BXXS	48	4	5
15	5270VS15	542CXXS	49	5	10
16	5270VS16	542DXXS	49	5	5
18	5270VS18	542EXXS	50	6	10
22	5270VS22	542GXXS	52	6	10

## COUPLING MALE TO SCREW - FEMALE

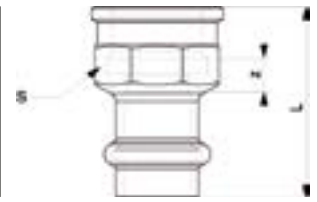
SPS4243GV



Size	ITEM No	Old code	L	Z	S1	Qty
14-1/2	4243GVS1412	440BCXS	45	21	21,5	5
15-1/2	4243GVS1512	440CCXS	45	23	24,2	5
15-3/4	4243GVS1534	440CDXS	47	25	27	5
16-1/2	4243GVS1612	440DCXS	45	21	21,5	10
16-3/4	4243GVS1634	440DDXS	49	25	27,5	5
18-3/4	4243GVS1834	440EDXS	47	25	28	5
22-3/4	4243GVS2234	440GDXS	48	25	32	5

## COUPLING FEMALE TO SCREW - FEMALE

SPS4270GV



Size	ITEM No	Old code	L	Z	S1	Qty
18-3/4	4270GVS1834	441EDXS	41	4,5	30	5

# SudoPress

## SUDOPRESS STAINLESS STEEL FOR WATER APPLICATIONS

There's no need to choose between quality and efficiency; with our Multiconnect system you can have both. The Multiconnect system offers the widest range on the market, with connections for Multilayer, PEX, Copper, Stainless Steel and Carbon Steel pipes.



### APPLICATIONS

SUDOPress Stainless Steel for water applications is ideal for sanitary and compressed air installations. It should only be used with Comap pipes.

Application	Operating temperature	Service pressure
Compressed air*	-20°C to +70°C	Max. 16 bar
Cooling water (with glycol)	Min -35°C	Max. 16 bar
Drinking water	+5°C to +95°C	Max. 16 bar
Heating water	-35°C to +110°C	Max. 16 bar
Industrial water	-35°C to +110°C	Max. 16 bar

\*Compressed air with less than 25mg/m<sup>3</sup> of oil.

For information regarding other fluids, please contact us.



**PRESS V PROFILE**



**VISU-CONTROL®**



**PATENTED O-RING**



**EUROPEAN PRODUCTION**

### BENEFITS

- The press system is fast, economical, versatile and safe.
- Removable VISU-CONTROL ring – the first connection with immediate crimping proof that you can see and touch.
- The patented O-ring lets you know during pressure tests if you have forgotten to crimp a fitting.
- Double crimping system (V profile) – the pipe is guided and properly positioned while the O-ring is protected.

### FEATURES

- Green VISU-CONTROL ring.
- Patented O-ring.
- V profile stainless steel fittings from 15 to 54mm.
- M profile stainless steel fittings from 76.1 to 108mm
- High quality EPDM O-ring

Certifications:

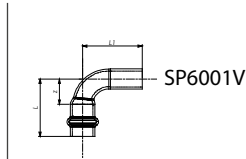


FOR WATER APPLICATIONS

90° ELBOW MALE-FEMALE

NEW

SP6001V

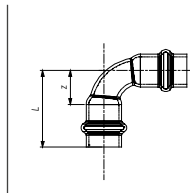


Size	ITEM No	L	Z	L1	Qty
15	6001VW15	44,4	22,4	49,4	10
18	6001VW18	48,4	26,4	53,4	10
22	6001VW22	54,7	31,7	60	10
28	6001VW28	62,7	38,7	67,7	5
35	6001VW35	73,2	47,7	78,1	5
42	6001VW42	93,1	57,1	98	1
54	6001VW54	112,1	71,1	117	1

90° ELBOW FEMALE-FEMALE

NEW

SP6002V



Size	ITEM No	L	Z	Qty
15	6002VW15	44,4	22,4	10
18	6002VW18	48,4	26,4	10
22	6002VW22	54,7	31,7	10
28	6002VW28	62,7	38,7	5
35	6002VW35	73,2	47,7	5
42	6002VW42	93,1	57,1	1
54	6002VW54	112,1	71,1	1

90° ELBOW FEMALE-FEMALE (M PROFILE)

NEW

SP6002M

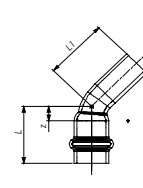


Size	ITEM No	Qty
76,1	6002MW76	2
88,9	6002MW89	2
108	6002MW108	2

45° ELBOW MALE-FEMALE

NEW

SP6040V

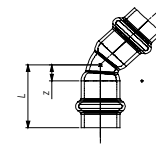


Size	ITEM No	L	Z	L1	Qty
15	6040VW15	11,9	33,9	38,9	10
18	6040VW18	13,5	35,5	40,5	10
22	6040VW22	15,9	38,9	43,9	10
28	6040VW28	18,8	42,8	47,8	5
35	6040VW35	22,1	47,6	52,5	5
42	6040VW42	26,2	62,6	68,1	1
54	6040VW54	32	73	78,9	1

45° ELBOW FEMALE-FEMALE

NEW

SP6041V

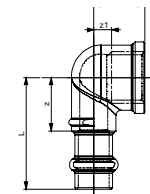


Size	ITEM No	L	Z	Qty
15	6041VW15	33,9	11,9	10
18	6041VW18	35,5	13,5	10
22	6041VW22	38,9	15,9	10
28	6041VW28	42,8	18,8	5
35	6041VW35	47,6	22,1	5
42	6041VW42	62,2	26,2	1
54	6041VW54	73	32	1

90° ELBOW FEMALE TO SCREW - FEMALE

NEW

SP6090GV



Size	ITEM No	L	Z	L1	Z1	Qty
15x1/2	6090GVW1512	48,5	23,5	28,2	13,2	5
18x1/2	6090GVW1812	48,5	23,5	28,2	13,2	5
22x3/4	6090GVW2234	52,7	27,5	33	16,7	5
28x1"	6090GVW281	57	32,5	37	18	5
35x1 1/4	6090GVW35114	61,7	36	42,2	20,8	5
42x1 1/2	6090GVW42112	77,9	41,5	46,7	24,7	1
54x2	6090GVW542	90,4	49	60,5	34,5	1

**90° ELBOW MALE TO SCREW - FEMALE**



**SP6092GV**

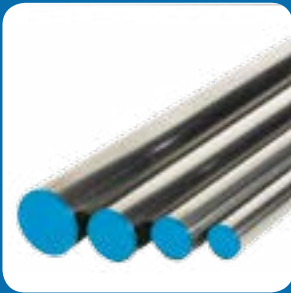


Size	ITEM No	L	Z	L1	Qty
15x1/2	6092GVW1512	48	23	30,5	5
18x1/2	6092GVW1812	48,5	23,5	31,5	5
22x3/4	6092GVW2234	52,7	27,5	38,5	5
28x1"	6092GVW281	55,5	30	46	5
35x1 1/4	6092GVW35114	59,7	34	52	5
42x1 1/2	6092GVW42112	75,4	39	58	1
54x2	6092GVW542	88,4	47	68	1

**RELATED PRODUCTS**

**STAINLESS STEEL PIPES**

To complete our SUDOPress Stainless Steel system, Comap offers a range of stainless steel pipes.



**SUDOPress Stainless Steel range:**

In 316 for sanitary applications. Diameters from 15 to 54mm with blue caps.

Tolerances conform to EN 10312 standards.

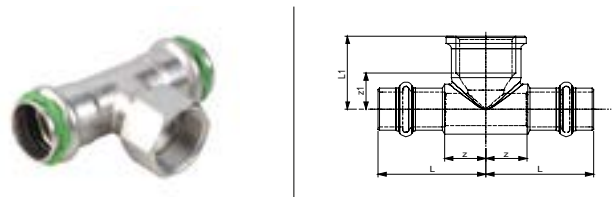
SudoXPress Stainless steel pipes

173

**TEE THREADED FEMALE TO SCREW - FEMALE**



**SP6130GV**

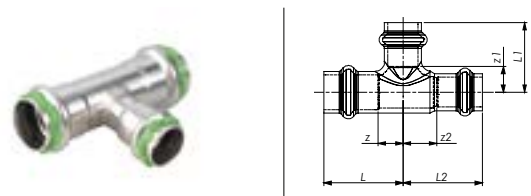


Size	ITEM No	L	Z	L1	Z1	Qty
15x1/2x15	6130GVW151215	37,75	15,75	33,8	18,8	5
18x1/2x18	6130GVW181218	39,25	17,25	34,8	19,8	5
18x3/4x18	6130GVW183418	39,25	17,25	36,8	20,5	5
22x1/2x22	6130GVW221222	42,9	19,9	37	22	5
22x3/4x22	6130GVW223422	42,9	19,9	39	22,7	5
28x1/2x28	6130GVW281228	46,9	22,9	40	25	5
28x3/4x28	6130GVW283428	46,9	22,9	42	25,7	5
28x1x28	6130GVW28128	46,9	22,9	46	27	5
35x1/2x35	6130GVW351235	51,75	26,25	43,5	28,5	5
35x1"x35	6130GVW35135	51,75	26,25	49,5	30,5	5
42x1/2x42	6130GVW421242	67,85	31,85	46	31	1
42x1"x42	6130GVW42142	67,85	31,85	52	33	1
54x1/2x54	6130GVW541254	78,85	37,85	52	37	1
54x1"x54	6130GVW54154	78,85	37,85	58	39	1

**REDUCED TEE FEMALE**



**SP6130RV**

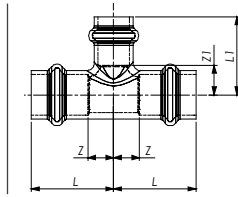


Size (S1-S2-S3)	ITEM No	L	Z	L1	Z1	Qty
18x15x18	6130RVW181518	39,25	17,25	43,1	21,1	10
22x15x22	6130RVW221522	42,9	19,9	45,4	23,4	10
22x18x22	6130RVW221822	42,9	19,9	45,4	23,4	10
28x15x28	6130RVW281528	46,9	22,9	48,4	26,4	5
28x18x28	6130RVW281828	46,9	22,9	48,4	26,4	5
28x22x28	6130RVW282228	46,9	22,9	49,6	26,6	5
35x15x35	6130RVW351535	51,75	26,25	51,9	29,9	1
35x18x35	6130RVW351835	51,75	26,25	51,9	29,9	1
35x22x35	6130RVW352235	51,75	26,25	53,1	30,1	1
35x28x35	6130RVW352835	51,75	26,25	54,1	30,1	1
42x22x42	6130RVW422242	67,85	31,85	55,6	32,6	1
42x28x42	6130RVW422842	67,85	31,85	56,6	32,6	1
42x35x42	6130RVW423542	67,85	31,85	58,1	32,6	1
54x22x54	6130RVW542254	78,85	37,85	61,6	38,6	1
54x28x54	6130RVW542854	78,85	37,85	62,6	38,6	1
54x35x54	6130RVW543554	78,85	37,85	64,1	38,6	1
54x42x54	6130RVW544254	78,85	37,85	75,2	39,2	1

## EQUAL TEE FEMALE

NEW

SP6130V



Size	ITEM No	L	Z	L1	Z1	Qty
15	6130VW15	37,75	15,75	41,4	19,4	10
18	6130VW18	38,25	16,25	43,2	21,2	10
22	6130VW22	42,9	19,9	46,6	23,6	10
18	6130VW28	46,9	22,9	50,6	26,6	5
35	6130VW35	51,75	26,75	55,6	30,6	1
42	6130VW42	67,85	31,85	69,2	33,2	1
54	6130VW54	78,85	37,85	80,1	39,1	1

## EQUAL TEE FEMALE (M PROFILE)

NEW

SP6130M

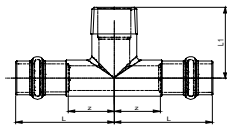


Size	ITEM No	Qty
76,1	6130MW76	2
88,9	6130MW89	2
108	6130MW108	2

## TEE FEMALE - BRONZE MALE TO SCREW

NEW

SP6132GV

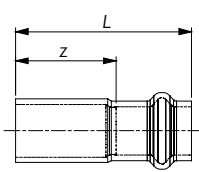


Size	ITEM No	L	Z	L1	Qty
15x1/2x15	6132GVW151215	37,75	15,75	39,1	5
18x1/2x18	6132GVW181218	39,25	17,25	41,3	5
18x3/4x18	6132GVW183418	39,25	17,25	44,8	5
22x1/2x22	6132GVW221222	42,9	19,9	43,5	5
22x3/4x22	6132GVW223422	42,9	19,9	47	5
28x3/4x28	6132GVW283428	46,9	22,9	50	5
28x1"x28	6132GVW28128	46,9	22,9	52,5	5
35x3/4x35	6132GVW353435	51,75	26,25	53,5	5
35x1"x35	6132GVW35135	51,75	26,25	56	5
42x3/4x42	6132GVW423442	67,85	4,85	56	1
42x1"x42	6132GVW42142	67,85	31,85	58,5	1
54x1"x54	6132GVW54154	78,85	37,85	64,5	1

## REDUCER MALE-FEMALE

NEW

SP6243V

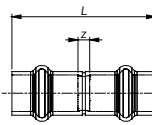


Size M-F	ITEM No	L	Z	Qty
18x15	6243VW1815	58,6	36,6	10
22x15	6243VW2215	64	42	10
22x18	6243VW2218	60,6	38,6	10
28x15	6243VW2815	70,3	48,3	5
28x18	6243VW2818	68,3	46,3	10
28x22	6243VW2822	66,3	43,3	10
35x18	6243VW3518	79,5	57,5	5
35x22	6243VW3522	74,9	51,9	5
35x28	6243VW3528	71,6	47,6	1
42x22	6243VW4222	88,6	65,6	5
42x28	6243VW4228	84,2	60,2	1
42x35	6243VW4235	78,2	52,7	5
54x22	6243VW5422	102,6	79,6	1
54x28	6243VW5428	99,1	75,1	1
54x35	6243VW5435	93,3	67,8	1
54x42	6243VW5442	101,7	65,7	1

## COUPLING FEMALE-FEMALE

NEW

SP6270V



Size	ITEM No	L	Z	Qty
15	6270VW15	55,5	11,5	10
18	6270VW18	55,5	11,5	10
22	6270VW22	58,6	12,6	10
28	6270VW28	60,6	12,6	5
35	6270VW35	63,5	12,5	5
42	6270VW42	88,6	16,6	5
54	6270VW54	98,5	16,5	1

**COUPLING FEMALE (M PROFILE)**



**SP6270M**

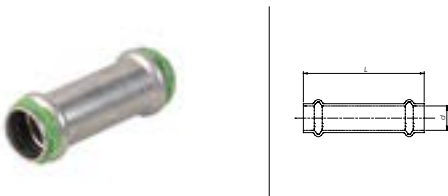


Size	ITEM No	Qty
76,1	6270MW76	4
88,9	6270MW89	4
108	6270MW108	2

**SLIP COUPLING FEMALE-FEMALE**



**SP6275V**

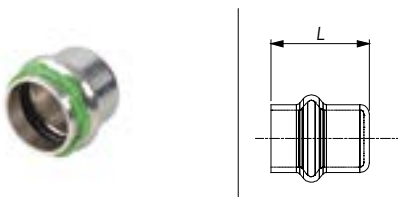


Size	ITEM No	L	Qty
15	6275VW15	76	10
18	6275VW18	80	10
22	6275VW22	82	10
28	6275VW28	93	5
35	6275VW35	103	5
42	6275VW42	120	5
54	6275VW54	135	1

**STOP END FEMALE**



**SP6301V**



Size	ITEM No	L	Qty
15	6301VW15	24,85	10
18	6301VW18	24,85	10
22	6301VW22	26,1	10
28	6301VW28	27,1	5
35	6301VW35	28,6	1
42	6301VW42	42,6	1
54	6301VW54	47,5	1

**COUPLING MALE TO SCREW**



**SP6243GV**

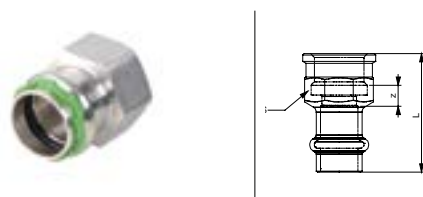


Size	ITEM No	L	Z	ØD	Qty
15x1/2	6243GVW1512	45	23	24	5
15x3/4	6243GVW1534	47	25	27	5
18x1/2	6243GVW1812	44	22	27	5
18x3/4	6243GVW1834	47	25	27	5
22x1/2	6243GVW2212	45,5	22,5	32	5
22x3/4	6243GVW2234	48	25	32	5
22x1"	6243GVW221	50,5	27,5	34	5
28x3/4	6243GVW2834	48,5	24,5	38	5
28x1"	6243GVW281	51	27	38	5
35x1"	6243GVW351	52,4	26,9	45	5
35x 1"1/4	6243GVW35114	57	31,5	45	5
42x1"1/2	6243GVW42112	62,1	26,1	54	1
54x2	6243GVW542	73,8	32,8	67	1

**COUPLING FEMALE TO SCREW - FEMALE**



**SP6270GV**



Size	ITEM No	L	Z	ØD	Qty
15x1/2	6270GVW1512	39	1,8	24	5
15x3/4	6270GVW1534	41,2	2,7	30	5
18x1/2	6270GVW1812	39	1,8	27	5
18x3/4	6270GVW1834	41	2,5	30	5
22x1"	6270GVW221	45,5	3	38	5
22x1/2	6270GVW2212	39	0,8	32	5
22x3/4	6270GVW2234	41,5	2	32	5
28x3/4	6270GVW2834	41	0,5	38	5
28x1"	6270GVW281	45	1,5	38	5
35x1"	6270GVW351	45,5	0,5	46	5
35x1"1/4	6270GVW35114	51,5	4,3	46	5
42x1"1/2	6270GVW42112	60	2	54	1
54x2	6270GVW542	69	2	67	1



## CONNECTOR WITH NUT

NEW

### SP6359GV

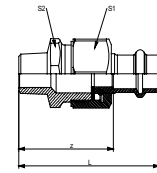


Size	ITEM No	L	ØD	Qty
15x3/4	6359GVW1534	13,5	30	5
18x3/4	6359GVW1834	15	30	5
22x1"	6359GVW221	16	37	5
28x1 1/4	6359GVW28114	15,5	46	5
35x1 1/2	6359GVW35112	16,5	52	5
42x1 3/4	6359GVW42134	13	58	1
54x2 3/8	6359GVW54238	15	75	1

## UNION MALE TO SCREW

NEW

### SP6331GV

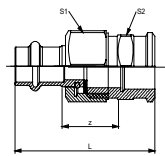


Size	ITEM No	L	Z	S1	S2	Qty
15x1/2	6331GVW1512	66,3	44,3	30	25	5
15x3/4	6331GVW1534	69,2	47,2	30	32	5
18x1/2	6331GVW1812	67,8	45,8	30	25	5
18x3/4	6331GVW1834	70,7	48,7	30	32	5
22x1/2	6331GVW2212	70	47	37	25	5
22x1"	6331GVW221	78,8	55,8	37	39	5
22x3/4	6331GVW2234	75,5	52,5	37	32	5
28x1"	6331GVW281	79,3	55,3	46	39	5
35x1 1/4	6331GVW35114	84,2	59,2	52	45	5
42x1 1/2	6331GVW42112	91,4	55,4	58	51	1
54x2"	6331GVW542	104,7	63,7	75	65	1

## UNION FEMALE TO SCREW

NEW

### SP6330GV

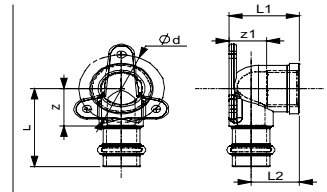


Size	ITEM No	L	Z	S1	S2	Qty
15x1/2	6330GVW1512	61,5	24,3	30	24	5
15x3/4	6330GVW1534	64,5	26	30	30	5
18x1/2	6330GVW1812	63	25,8	30	24	5
18x3/4	6330GVW1834	66	27,5	30	30	5
22x3/4	6330GVW2234	70	30,5	37	30	5
22x1"	6330GVW221	72,8	30,3	37	38	5
28x1"	6330GVW281	71,5	28	46	38	5
35x1 1/4	6330GVW35114	79	32,3	52	46	5
42x1 1/2	6330GVW42112	88	30	58	54	1
54x2"	6330GVW542	98	31	75	67	1

## WALL PLATE FEMALE

NEW

### SP6471GV

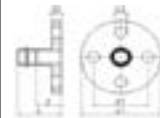


Size	ITEM No	L	Z	L1	Z1	L2	Ø d'union	Qty
15x1/2	6471GVW1512	50	25	41,2	28	28,2	34	5
18x1/2	6471GVW1812	49,5	24,5	44,2	31	28,2	34	5
22x3/4	6471GVW2234	52,7	27,5	52	36,7	33	40	5

## FLANGED CONNECTOR

NEW

### SP6500V

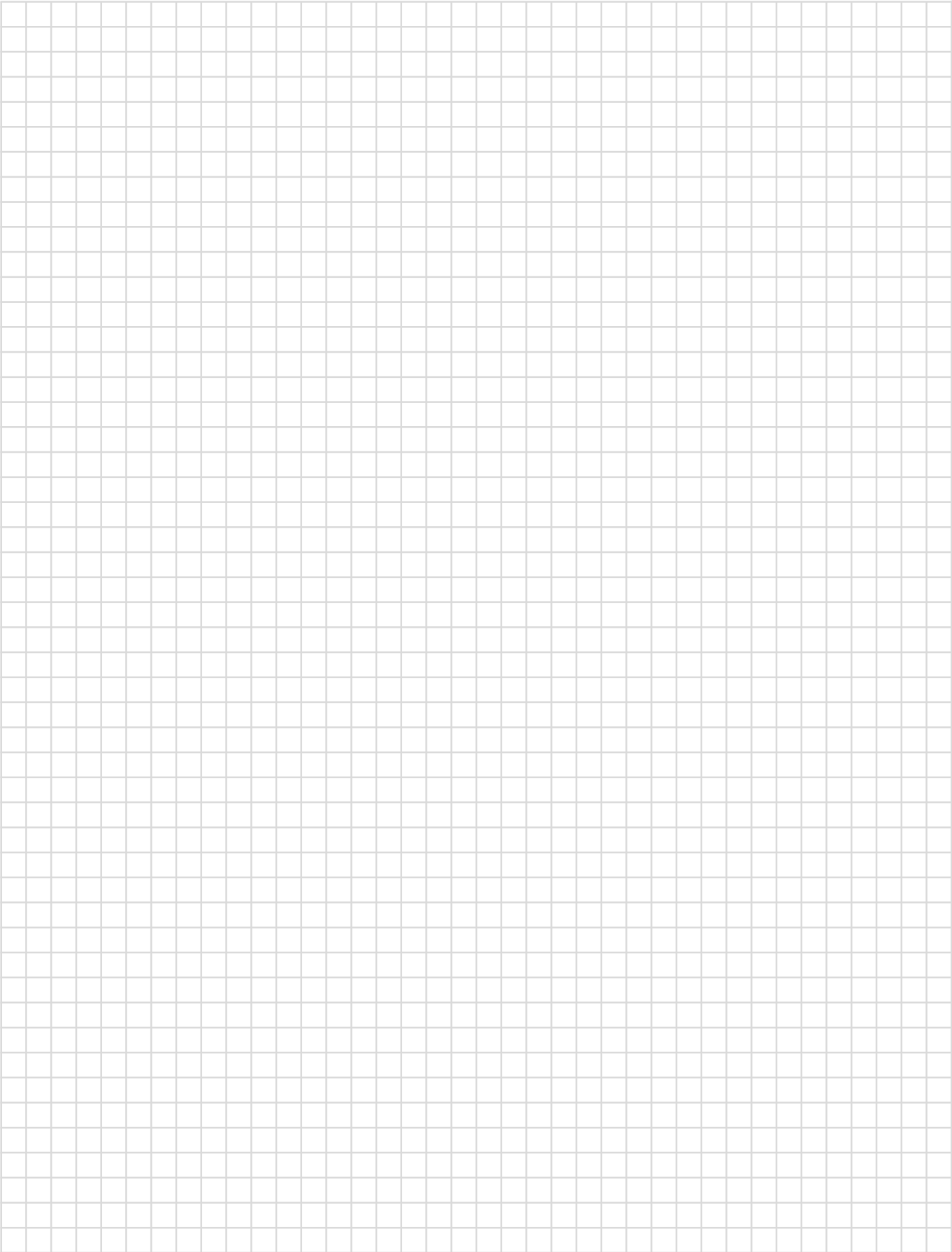


Size	ITEM No	L	Z	L1	Z1	L2	Z2	Qty
15	6500VW15	58,8	36,8	95	65	14	11	1
18	6500VW18	59,8	37,8	95	65	14	11	1
22	6500VW22	62,4	39,4	105	75	14	12	1
28	6500VW28	69,3	45,3	115	85	14	14	1
35	6500VW35	70,7	45,2	140	100	18	15	1
42	6500VW42	84,8	48,8	150	110	18	16	1
54	6500VW54	94,9	53,9	165	125	18	18	1

**FLANGED CONNECTOR PN 10/16 (M  
PROFILE)****NEW****SP6500BM**

Size	ITEM No	Qty
76,1	6500BMW76	1
88,9	6500BMW89	1
108	6500BMW108	1

# NOTES



# SudoPress

## SUDOPRESS CARBON STEEL FOR HEATING APPLICATIONS

There's no need to choose between quality and efficiency; with our Multiconnect system you can have both. The Multiconnect system offers the widest range on the market, with connections for Multilayer, PEX, Copper, Stainless Steel and Carbon Steel pipes.



### APPLICATIONS

SUDOPress Carbon Steel for water applications is ideal for heating installations. It should only be used with Comap pipes.

Application	Operating temperature	Service pressure
Compressed air*	-20°C to +70°C	Max. 16 bar
Cooling water (with glycol)	Min -35°C	Max. 16 bar
Heating water	-35°C to +110°C	Max. 16 bar
Industrial water	-35°C to +110°C	Max. 16 bar

\*Compressed air with less than 25mg/m<sup>3</sup> of oil.

For information regarding other fluids, please contact us.

Note: Carbon steel is not suitable for drinking water applications.



**PRESS V PROFILE**



**VISU-CONTROL®**



**PATENTED O-RING**



**EUROPEAN PRODUCTION**

### BENEFITS

- The press system is fast, economical, versatile and safe.
- Removable VISU-CONTROL ring – the first connection with immediate crimping proof that you can see and touch.
- The patented O-ring lets you know during pressure tests if you have forgotten to crimp a fitting.
- Double crimping system (V profile) – the pipe is guided and properly positioned while the O-ring is protected.

### FEATURES

- Red VISU-CONTROL ring.
- Patented O-ring.
- V profile carbon steel fittings from 12 to 54mm.
- M profile carbon steel fittings from 76.1 to 108mm
- High quality EPDM O-ring

## FOR HEATING APPLICATIONS

### 90° ELBOW MALE-FEMALE

NEW

#### SP8001V



Size	ITEM No	L	Z	L1	Qty
12	8001VW12	36,2	18,2	42,4	10
15	8001VW15	44,4	22,4	49,4	10
18	8001VW18	48	26	53,4	10
22	8001VW22	54,8	31,6	60	10
28	8001VW28	62,7	38,7	67,7	5
35	8001VW35	73,2	47,7	78,1	5
42	8001VW42	93,1	57,1	98	1
54	8001VW54	112,1	71,1	117	1

### 90° ELBOW MALE-FEMALE (M PROFILE)

NEW

#### SP8001M

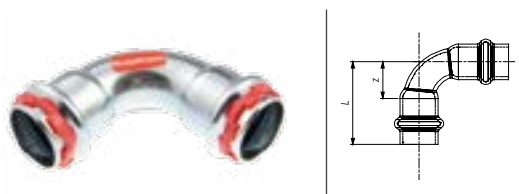


Size	ITEM No	Qty
76,1	8001MW76	2
88,9	8001MW89	2
108	8001MW108	2

### 90° ELBOW FEMALE-FEMALE

NEW

#### SP8002V



Size	ITEM No	L	Z	Qty
12	8002VW12	36,3	18,3	10
15	8002VW15	44,4	22,4	10
18	8002VW18	48,4	26,4	10
22	8002VW22	54,8	31,8	10
28	8002VW28	62,7	38,7	5
35	8002VW35	73,1	47,7	5
42	8002VW42	93	57	1
54	8002VW54	112	71,1	1

### 90° ELBOW FEMALE-FEMALE (M PROFILE)

NEW

#### SP8002M



Size	ITEM No	Qty
76,1	8002MW76	2
88,9	8002MW89	2
108	8002MW108	2

### 45° ELBOW MALE-FEMALE

NEW

#### SP8040V



Size	ITEM No	L	Z	L1	Qty
15	8040VW15	33,9	11,9	38,9	10
18	8040VW18	35,6	13,6	40,5	10
22	8040VW22	39	15,8	43,9	10
28	8040VW28	42,8	18,7	47,8	5
35	8040VW35	47,6	22,1	52,5	5
42	8040VW42	63,2	27,2	68,1	1
54	8040VW54	74	33	78,9	1

## RELATED PRODUCTS

### CARBON STEEL PIPES

To complete our SUDOPress Carbon system, Comap offers a range of carbon steel pipes.



#### SUDOPress Carbon Steel

##### range:

Diameters from 12 to 54mm with red caps and SUDOPress marking.

Tolerances conform to EN 10305-3 standards. These pipes are available in bars, naked or protected with a layer of polypropylene.

SudoPress carbon steel pipes

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45° ELBOW MALE-FEMALE (M PROFILE)



SP8040M



Size	ITEM No	Qty
76,1	8040MW76	2
88,9	8040MW89	2
108	8040MW108	2

45° ELBOW FEMALE-FEMALE



SP8041V



Size	ITEM No	L	Z	Qty
15	8041VW15	33,9	11,9	10
18	8041VW18	35,6	13,6	10
22	8041VW22	39	15,8	10
28	8041VW28	42,8	18,7	5
35	8041VW35	47,6	22,1	5
42	8041VW42	63,2	27,2	1
54	8041VW54	74	33	1

45° ELBOW FEMALE-FEMALE (M PROFILE)



SP8041M



Size	ITEM No	Qty
76,1	8041MW76	2
88,9	8041MW89	2
108	8041MW108	2

90° ELBOW FEMALE TO SCREW - FEMALE



SP8090GV



Size	ITEM No	L	Z	L1	Z1	Qty
15x1/2	8090GVW1512	44,4	22,4	48	33	5
18x1/2	8090GVW1812	48,4	26,4	51,5	36,5	5
22x3/4	8090GVW2234	54,8	31,8	59	42,7	5

90° ELBOW MALE TO SCREW - FEMALE



SP8092GV



Size	ITEM No	L	Z	L1	Z1	Qty
15x3/8	8092GVW1538	44,4	22,4	44,5	34,4	5
15x1/2	8092GVW1512	44,4	22,4	49,5	36,3	5
18x1/2	8092GVW1812	48,4	26,4	54	40,8	5
22x3/4	8092GVW2234	54,8	31,8	61,5	47	5
28x1"	8092GVW281	62,7	38,7	73,5	56,7	5
35x1 1/4	8092GVW35114	73,2	47,7	85,5	66,4	5
42x1 1/2	8092GVW42112	93,1	57,1	95,5	76,4	1

REDUCED TEE THREADED FEMALE TO SCREW - FEMALE



SP8130GV



Size	ITEM No	L	Z	L1	Z1	Qty
15x1/2x15	8130GVW151215	37,8	15,8	36,5	21,5	5
18x1/2x18	8130GVW181218	39,3	17,3	37	22	5
22x1/2x22	8130GVW221222	43	20	39	24	5
22x3/4x22	8130GVW223422	43	20	42	25,7	5
28x1/2x28	8130GVW281228	46,9	22,9	42	27	5
28x3/4x28	8130GVW283428	46,9	22,9	45	28,7	5
35x1/2x35	8130GVW351235	51,8	26,3	45,5	30,5	5
35x3/4x35	8130GVW353435	51,8	26,3	48,5	32,2	5
42x1/2x42	8130GVW421242	67,9	31,9	48	33	1
42x3/4x42	8130GVW423442	67,9	31,9	51	34,7	1
54x1/2x54	8130GVW541254	78,9	37,9	54	39	1

**REDUCED TEE THREADED FEMALE TO SCREW - FEMALE (M PROFILE)**

**NEW**

**SP8130GM**



Size	ITEM No	Qty
76x3/4x76	8130GMW763476	2
89x3/4x89	8130GMW893489	2
108x3/4x108	8130GMW10834108	2

**REDUCED TEE FEMALE (M PROFILE)**

**NEW**

**SP8130RM**

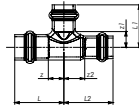


Size (S1-S2-S3)	ITEM No	Qty
76x54x76	8130RMW765476	2
89x76x89	8130RMW897689	2
108x89x108	8130RMW10889108	2

**REDUCED TEE FEMALE**

**NEW**

**SP8130RV**

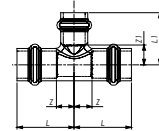


Size (S1-S2-S3)	ITEM No	L	Z	L1	Z1	Qty
15x18x15	8130RVW151815	37,8	15,8	50,2	28,2	5
18x15x18	8130RVW181518	39,3	17,3	49,2	27,2	10
22x15x22	8130RVW221522	43	20	51,2	29,2	10
22x18x22	8130RVW221822	43	20	51,2	29,2	10
22x28x22	8130RVW222822	43	20	57,8	33,8	10
28x15x28	8130RVW281528	46,9	22,9	54,2	32,2	5
28x18x28	8130RVW281828	46,9	22,9	54,2	32,2	5
28x22x28	8130RVW282228	46,9	22,9	55,2	32,2	5
35x15x35	8130RVW351535	51,8	26,3	57,7	35,7	5
35x18x35	8130RVW351835	51,8	26,3	57,7	35,7	5
35x22x35	8130RVW352235	51,8	26,3	58,7	35,7	5
35x28x35	8130RVW352835	51,8	26,3	59,3	35,3	5
42x22x42	8130RVW422242	67,9	31,9	61,2	38,2	1
42x28x42	8130RVW422842	67,9	31,9	61,8	37,8	1
42x35x42	8130RVW423542	67,9	31,9	63	37,5	1
54x22x54	8130RVW542254	78,9	37,9	67,2	44,2	1
54x28x54	8130RVW542854	78,9	37,9	67,8	43,8	1
54x35x54	8130RVW543554	78,9	37,9	69	43,5	1
54x42x54	8130RVW544254	78,9	37,9	79,5	43,5	1

**EQUAL TEE FEMALE**

**NEW**

**SP8130V**



Size	ITEM No	L	Z	L1	Z1	Qty
15	8130VW15	37,8	15,8	47,7	25,7	10
18	8130VW18	39,3	17,3	49,2	27,2	10
22	8130VW22	43	20	52,2	29,2	10
28	8130VW28	46,9	22,9	55,8	31,8	5
35	8130VW35	51,8	26,3	60,5	35	1
42	8130VW42	67,9	31,9	73,5	37,5	1
54	8130VW54	78,9	37,9	85,1	44,1	1

**EQUAL TEE FEMALE (M PROFILE)**

**NEW**

**SP8130M**

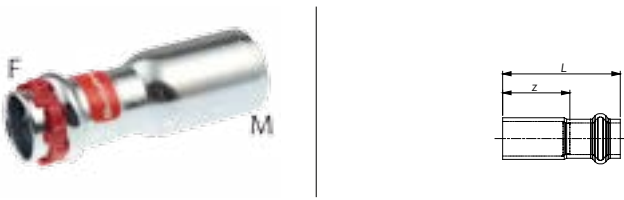


Size	ITEM No	Qty
76,1	8130MW76	2
88,9	8130MW89	2
108	8130MW108	2

**REDUCER MALE-FEMALE**



**SP8243V**



Size M-F	ITEM No	L	Z	Qty
15x12	8243VW1512	57,5	39,5	10
18x12	8243VW1812	57	39	10
18x15	8243VW1815	58,6	36,6	10
22x15	8243VW2215	65	42	10
22x18	8243VW2218	60,6	38,6	10
28x15	8243VW2815	70,3	48,3	5
28x18	8243VW2818	68,3	46,3	10
28x22	8243VW2822	66,4	43,4	10
35x22	8243VW3522	75	52	5
35x28	8243VW3528	71,6	47,6	1
42x22	8243VW4222	83,3	60,3	1
42x28	8243VW4228	84,2	60,2	1
42x35	8243VW4235	78,2	52,7	1
54x22	8243VW5422	99,6	76,6	1
54x28	8243VW5428	91,9	68,9	1
54x35	8243VW5435	93,3	67,8	1
54x42	8243VW5442	101,7	65,7	1

**REDUCER MALE-FEMALE (M PROFILE)**



**SP8243M**



Size M-F	ITEM No	Qty
42x76,1	8243MW4276	4
54x76,1	8243MW5476	4
54x88,9	8243MW5489	4
76,1x88,9	8243MW7689	4
76,1x108	8243MW76108	2
88,9x108	8243MW89108	2

**COUPLING FEMALE-FEMALE**



**SP8270V**



Size	ITEM No	L	Z	Qty
12	8270VW12	46,1	10,1	10
15	8270VW15	55,5	11,5	10
18	8270VW18	55,5	11,5	10
22	8270VW22	58,8	12,8	10
28	8270VW28	60,6	12,6	5
35	8270VW35	63,5	12,5	5
42	8270VW42	88,6	16,6	1
54	8270VW54	98,5	16,5	1

**COUPLING FEMALE-FEMALE (M PROFILE)**



**SP8270M**



Size	ITEM No	Qty
76,1	8270MW76	4
88,9	8270MW89	4
108	8270MW108	2

**SLIP COUPLING FEMALE-FEMALE**



**SP8275V**



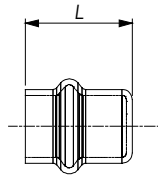
Size	ITEM No	L	Qty
12	8275VW12	67	5
15	8275VW15	76	5
18	8275VW18	80	5
22	8275VW22	82,2	5
28	8275VW28	93	5
35	8275VW35	103	5
42	8275VW42	120	1
54	8275VW54	135	1



## STOP END FEMALE

NEW

### SP8301V

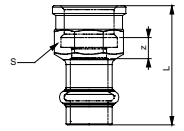


Size	ITEM No	L	Qty
15	8301VW15	24,9	10
18	8301VW18	24,9	10
22	8301VW22	26,1	10
28	8301VW28	27,1	5
35	8301VW35	28,6	1
42	8301VW42	42,6	1
54	8301VW54	47,5	1

## COUPLING FEMALE TO SCREW - FEMALE

NEW

### SP8270GV

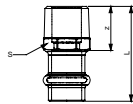


Size	ITEM No	L	Z	ØD	Qty
15x1/2	8270GVW1512	39	6,2	24	5
18x1/2	8270GVW1812	39	6,2	27	5
18x3/4	8270GVW1834	41	7,6	30	5
22x3/4	8270GVW2234	41,5	6,7	32	5
28x1/2	8270GVW2812	41	5,7	38	5
28x3/4	8270GVW2834	41	5,2	38	5
28x1"	8270GVW281	45	6,4	38	5
35x1 1/4	8270GVW35114	51,5	9,4	46	5

## COUPLING MALE TO SCREW - FEMALE

NEW

### SP8243GV



Size	ITEM No	L	Z	ØD	Qty
12x3/8	8243GVW1238	35,4	17,4	22	5
15x3/8	8243GVW1538	40	18	24	5
15x1/2	8243GVW1512	45	23	24	5
18x1/2	8243GVW1812	44	22	27	5
18x3/4	8243GVW1834	47	25	27	5
22x1/2	8243GVW2212	45,5	22,5	32	5
22x3/4	8243GVW2234	48	25	32	5
22x1"	8243GVW221	-	-	32	5
28x3/4	8243GVW2834	48,5	24,5	38	5
28x1"	8243GVW281	51	27	38	5
35x1 1/4	8243GVW35114	57	31,3	45	5
42x1 1/2	8243GVW42112	62,1	26,1	55	1
54x2"	8243GVW542	73,8	32,8	67	1

## CONNECTOR WITH NUT

NEW

### SP8359GV

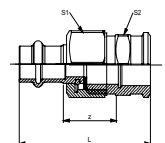


Size	ITEM No	L	Z	ØD	Qty
18x3/4	8359GVW1834	37	15	30	5
22x1"	8359GVW221	39	16	36	5
28x1 1/4	8359GVW28114	39,5	15,5	46	5

## UNION FEMALE TO SCREW

NEW

### SP8330GV



Size	ITEM No	L	Z	S1	S2	Qty
15x1/2	8330GVW1512	63	22,3	30	27	5
18x1/2	8330GVW1812	64,5	23,8	30	27	5
22x3/4	8330GVW2234	70	27	36	34	5
28x1"	8330GVW281	71,5	24,5	46	42	5
35x1 1/4	8330GVW35114	81,5	31	52	50	5
42x1 1/2	8330GVW42112	88,5	27,5	58	55	1
54x2"	8330GVW542	98,5	28	75	70	1

**UNION MALE TO SCREW**



**SP8331GV**



Size	ITEM No	L	Z	S1	S2	Qty
15x1/2	8331GVW1512	68,3	46,3	30	25	5
18x1/2	8331GVW1812	69,8	47,8	30	25	5
22x3/4	8331GVW2234	77	54	36	32	5
28x1"	8331GVW281	81,2	57,2	46	39	5
35x1 1/4	8331GVW35114	87,8	62,3	52	45	5
42x1 1/2	8331GVW42112	94	58	58	51	1
54x2"	8331GVW542	107	66	75	65	1

**PART CROSSOVER MALE-FEMALE**



**SP8086V**



Size	ITEM No	L	Z	L1	Qty
15	8086VW15	155	31	54	10
18	8086VW18	167	34	59,5	10
22	8086VW22	177	37	64,5	10
28	8086VW28	215	43	75	5

**90° LONG ELBOW MALE-MALE**



**SP8090LV**



Size	ITEM No	L1	L2	Qty
15	8090LVW15	70	120	10
18	8090LVW18	70	120	10
22	8090LVW22	70	120	10

**FLANGED CONNECTOR PN16 (M PROFIL)**

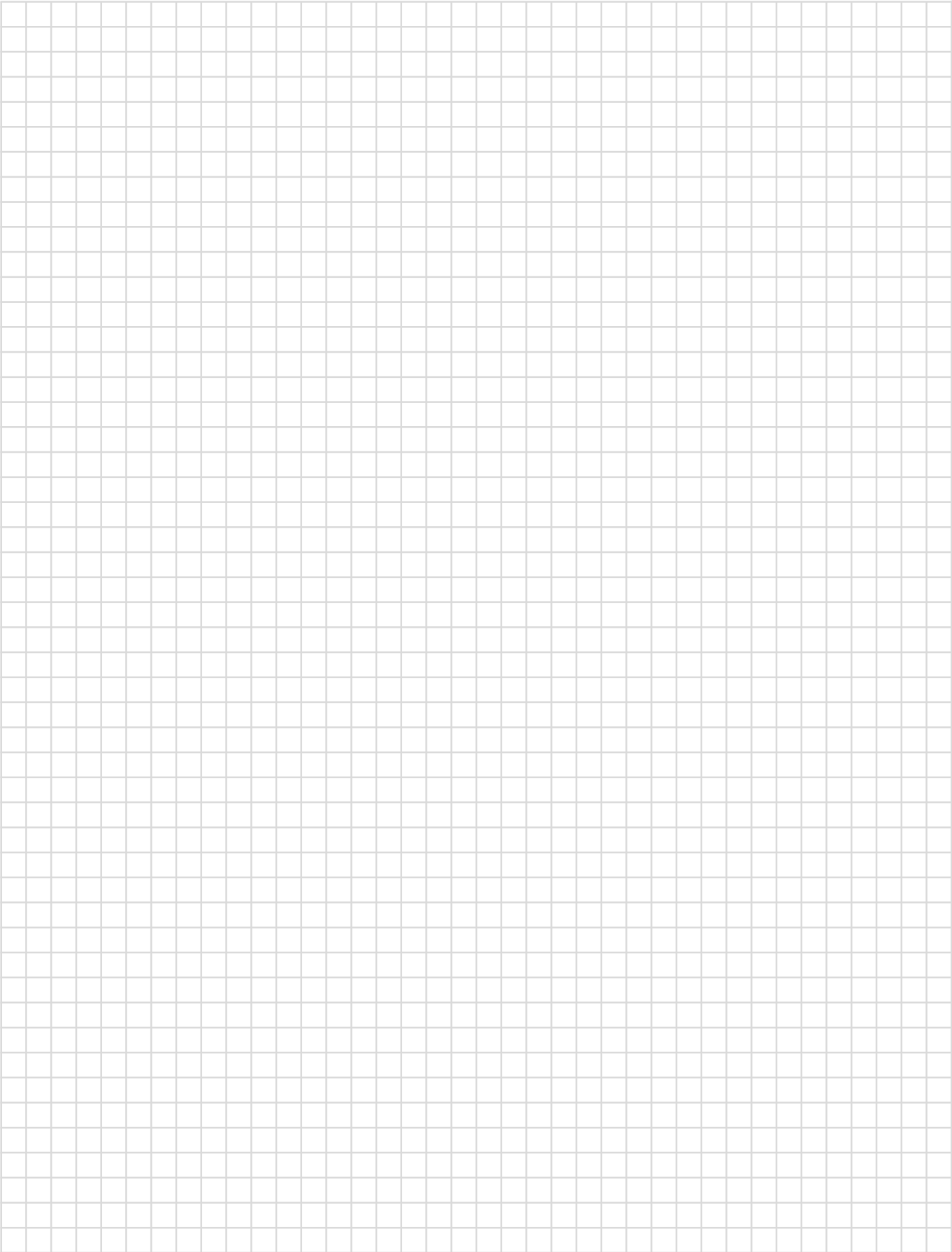


**SP8500BM**



Size	ITEM No	Qty
76,1	8500BMW76	1
88,9	8500BMW89	1
108	8500BMW108	1

# NOTES



# SUDOPRESS ACCESSORIES

## SUDOPRESS PATENTED O-RING FOR WATER (COPPER AND STEEL)

**NEW**

### SP5501

Patented O-ring indicates if fitting is not pressed  
 O-ring for water applications in EPDM (black)  
 Patented O-ring not suitable for SudoPress copper items with codes made of 3 numbers and 3 letters (e.g. 542DXX) - in this case, please order O-ring with old code number



Size	ITEM No	Old code	Qty
12	5501W12	5501012	5
14	5501W14	5501014	5
15	5501W15	5501015	5
16	5501W16	5501016	5
18	5501W18	5501018	5
22	5501W22	5501022	5
28	5501W28	5501028	5
35	5501W35	5501035	5

## SUDOPRESS PATENTED O-RING FOR WATER (COPPER ONLY)

**NEW**

### SP5501CU

Patented O-ring indicates if fitting is not pressed  
 O-ring for water applications in EPDM (black)  
 Patented O-ring not suitable for SudoPress copper items with codes made of 3 numbers and 3 letters (e.g. 542DXX) - in this case, please order O-ring with old code number



Size	ITEM No	Old code	Qty
42	5501W42	5501042	5
54	5501W54	5501054	5

## SUDOPRESS PATENTED O-RING FOR WATER (STEEL ONLY)

**NEW**

### SP5501ST

Patented O-ring indicates if fitting is not pressed  
 O-ring for water applications in EPDM (black)



Size	ITEM No	Old code	Qty
42	5501W42ST	-	5
54	5501W54ST	-	5

## O-RING FOR WATER (COPPER ONLY)

### 5501M

O-ring for water applications in EPDM (black)  
 Only for Copper



Size	ITEM No	Qty
76	39231	5
108	39232	5

## SUDOPRESS O-RING FOR WATER (STEEL ONLY)

### SP5501M



Size	ITEM No	Qty
76,1	5501W76	5
88,9	5501W89	5
108	5501W108	5

## SUDOPRESS O-RING FOR GAS

### SPG5501

O-ring for gas applications in HNBR (yellow)



Size	ITEM No	Qty
12	5501012G	5
14	D161001001	5
15	5501015G	5
16	D161002001	5
18	5501018G	5
22	5501022G	5
28	5501028G	5
35	5501035G	5
42	5501042G	5
54	5501054G	5

## SUDOPRESS PATENTED O-RING FOR SOLAR (COPPER AND STEEL)

**NEW**

### SPS5501

Patented O-ring indicates if fitting is not pressed

O-ring for solar applications in FKM (green)

Patented O-ring not suitable for SudoPress copper items with codes made of 3 numbers and 3 letters (e.g. 542DXX) - in this case, please order O-ring with old code number



Size	ITEM No	Old code	Qty
12	5501S12	5501012S	5
14	5501S14	5501014S	5
15	5501S15	5501015S	5
16	5501S16	5501016S	5
18	5501S18	5501018S	5
22	5501S22	5501022S	5
28	5501S28	5501028S	5
35	5501S35	5501035S	5

## SUDOPRESS PATENTED O-RING FOR SOLAR (COPPER ONLY)

**NEW**

### SPS5501CU

Patented O-ring indicates if fitting is not pressed

O-ring for solar applications in FKM (green)

Patented O-ring not suitable for SudoPress copper items with codes made of 3 numbers and 3 letters (e.g. 542DXX) - in this case, please order O-ring with old code number



Size	ITEM No	Old code	Qty
42	5501S42	5501042S	5
54	5501S54	5501054S	5

## SUDOPRESS PATENTED O-RING FOR SOLAR (STEEL ONLY)

**NEW**

### SPS5501ST

Patented O-ring indicates if fitting is not pressed

O-ring for solar applications in FKM (green)



Size	ITEM No	Old code	Qty
42	5501S42ST	-	5
54	5501S54ST	-	5

## SUDOPRESS O-RING FOR SOLAR (STEEL ONLY)

### SPS5501M

O-ring for solar applications in FPM (green)

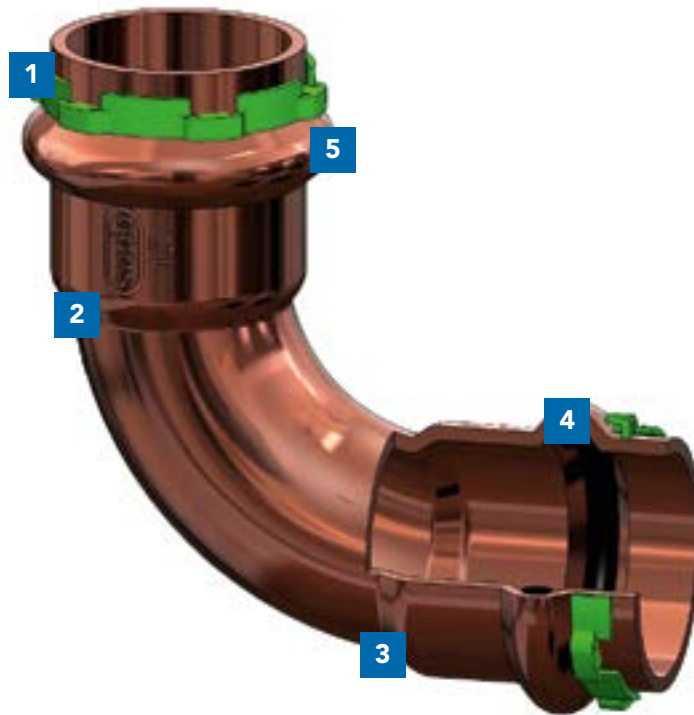
Only for Stainless steel and Carbon steel



Size	ITEM No	Qty
76,1	5501SW76	5
88,9	5501SW89	5
108	5501SW108	5



# SUDOPRESS FITTINGS (COPPER, STAINLESS STEEL AND CARBON STEEL)



## 1 VISU-CONTROL®

- Visual and tactile indicator.
- Application identification by ring colour.
- Recyclable

## 2 MARKING FOR PERFECT TRACEABILITY

- SUDO
- Dimension
- Certification

## 3 TECHNICAL LOCKED GROOVE

The pipe is stopped at the right depth.

## 4 PATENTED O-RING

- Indicates during pressure test if a fitting is not crimped.
- Identification by colour (black=EPDM).

## 5 V-PROFILE

- Safe guidance of the pipe.
- The O-ring is protected.
- Double crimping for better mechanical strength of the joint.

## APPLICATIONS\*

	Application	System	O-Ring	Operating temperature	Service pressure
	Compressed air <sup>1</sup>	SUDOPress Copper SUDOPress Stainless steel SUDOPress Carbon steel <sup>3</sup>	EPDM (black) HNBR (yellow) FKM (green)	-20°C to +70°C	Max. 16 bar
	Cooling water (with glycol)	SUDOPress Copper SUDOPress Stainless steel SUDOPress Carbon steel	EPDM (black)	Min -35°C	Max. 16 bar
	Drinking water	SUDOPress Copper SUDOPress Stainless steel	EPDM (black)	+5°C to +95°C	Max. 16 bar
	Fuel oil	SUDOPress Copper Gas	HNBR (yellow) FKM (green)	-20°C to +40°C	Max. 5 bar
	Gas <sup>2</sup>	SUDOPress Copper Gas	HNBR (yellow)	-20°C to +70°C	Max. 5 bar
	Heating water	SUDOPress Copper SUDOPress Stainless steel SUDOPress Carbon steel	EPDM (black)	-35°C to +110°C	Max. 16 bar
	Industrial water	SUDOPress Copper SUDOPress Stainless steel SUDOPress Carbon steel	EPDM (black)	-35°C to +110°C	Max. 16 bar
	Liquid gas (LPG) <sup>2</sup>	SUDOPress Copper Gas	HNBR (yellow)	-20°C to +70°C	Max. 5 bar
	Solar	SUDOPress Copper SUDOPress Stainless steel SUDOPress Carbon steel	FKM (green)	+180°C / glycol 50% max.	6 bar
	Steam	SUDOPress Copper SUDOPress Stainless steel	EPDM (black) FKM (green)	Max. 100°C Max. 120°C	0.5 bar 1 bar
	Urban heating	SUDOPress Copper SUDOPress Stainless steel SUDOPress Carbon steel	FKM (green)	+130°C / glycol 50% max.	10 bar
	Vacuum	SUDOPress Copper SUDOPress Stainless steel SUDOPress Carbon steel	HNBR (yellow) FKM (green)	+5°C to +50°C	Min. -0.8 bar

\* For all other applications, please contact Comap.

1. Use EPDM O-ring for oil-free compressed air system. If compressed air contains more than 25 mg / m<sup>3</sup> of lubricant use FKM or HNBR O-ring.

2. According to DVGW G260 and ATG B524-1.

3. Water content (for carbon steel) must not exceed 800 mg/m<sup>3</sup>.

## INSTALLATION

### 1 CUT

Cut the pipe with the tube cutter. The pipe should always be cut completely.

### 2 DEBURR

After being cut, the pipe ends must be carefully deburred, inside and out.

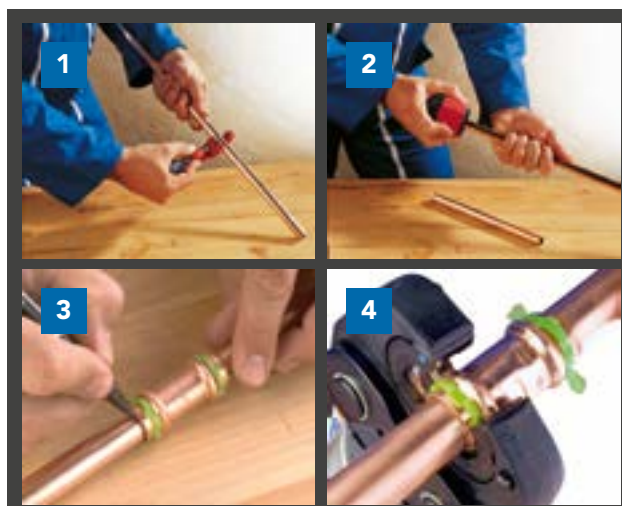
### 3 MARK

The necessary insertion depth must be marked on the tube or the fitting in order to guarantee a safe and proper joint. Check that the O-ring is properly placed inside the fitting.

### 4 PRESS

Before starting to press, the press jaws and slings must be checked for dirt. Make sure that you use the correct press jaw and units and that these parts correspond to the fittings used (check that the crimping units are not worn and are free of impurities and dirt).

Once you have properly assembled the pipe and fitting and checked your equipment, you can press the fitting.






**FITTING PROFILE: FROM 12 TO  
54MM V (M ON Ø > 54MM)**

## PATENTED O-RING

Standard fittings for water and central heating applications are provided with EPDM O-rings. The type of O-ring to be used depends on the application and the medium. For this reason, the gas press fittings are provided with HNBR O-rings.

For special applications, such as oil-containing substances or high temperatures, the Viton®/FKM O-ring should be used. Carbon steel,

stainless steel and copper press fittings are supplied with an O-ring designed to indicate any un-pressed fittings. This feature ensures that un-pressed connections will leak water from the O-ring during pressure tests (or pressure will drop if air is used for pressure testing). This simplifies the detection of un-pressed fittings.

	Type	Operating temperature	Maximum operating pressure	Applications
	EPDM patented O-ring (black)	-35°C to +110°C Peak 150°C	16 bar*	Drinking water systems. Sanitary hot and cold water systems. Heating systems. Cooling systems. Glycol water. Processed water systems. Recovery of rainwater. Dry compressed air systems.
	HNBR O-ring (yellow)	-20°C to +70°C	5 bar	LPG (Butane – Propane). Natural gas. Inert gases (non-toxic/non-explosive). Low pressure steam. Fuel and other hydrocarbons. Lubricated compressed air.
	FKM Viton® patented O-ring (green)	-20°C to +180°C Peak 230°C	16 bar	Solar systems. Glycol water max. 50%. Low pressure steam. Vacuum – min. 0.8 bar. Lubricated compressed air.

\*For higher pressures, please contact Comap.

## COMPRESSED AIR

The O-rings you should use for compressed air applications depend on air quality classes according to ISO 8573 (see table below).

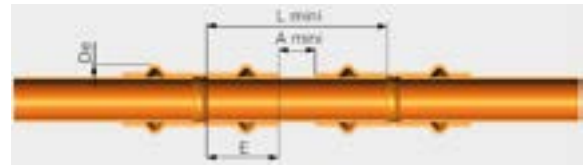
Class	Particles in compressed air		Water		Lubricant	O-ring
	Max. size in µm	Max. density in mg/m³	Dew point in °C	Volume in mg/m³	Oil Volume in mg/m³	Material
1	0.1	0.1	-70	3	0.01	EPDM
2	1	1	-40	120	0.1	EPDM
3	5	5	-20	880	1	EPDM
4	15	8	3	6,000	5	EPDM
5	40	10	7	7,800	25	EPDM
6			10	9,400	>25	HNBR / FKM / FPM



## MOUNTING RECOMMENDATIONS

### Mounting recommendation depending on diameters

Diameter (mm)	De (mm)	Min. A (mm)	Min. L (mm)	E (mm)
12	20	10	46	18
14	22	10	54	22
15	23	10	54	22
16	24	10	54	22
18	26.5	15	59	22
22	31.5	20	66	23
28	37.5	20	68	24
35	44.5	25	75	25
42	54	30	102	36
54	66	35	117	41

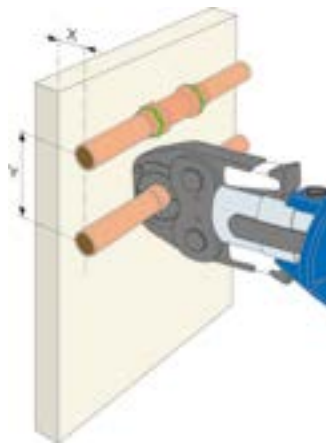


Minimum spacing from a crimped point to a welded point is 10cm.  
Minimum spacing from a welded point to a crimped point is 50cm.

### Pressing tools mounting recommendation

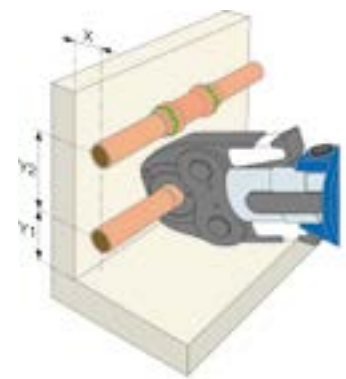
#### Wall mounting

Diameter (mm)	X (mm)	Y (mm)
12	31	60
14	31	61
15	31	62
16	31	63
18	31	65
22	31	69
28	31	72
35	31	76
42	75	115
54	85	120



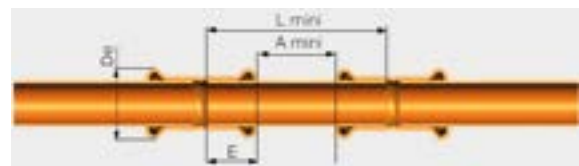
#### Bottom wall mounting

Diameter (mm)	X (mm)	Y1 (mm)	Y2 (mm)
12	35	44	69
14	35	44	70
15	35	44	71
16	35	44	72
18	35	44	73
22	35	44	77
28	35	44	81
35	35	44	86
42	75	75	115
54	85	85	120



### For diameters greater than 54mm

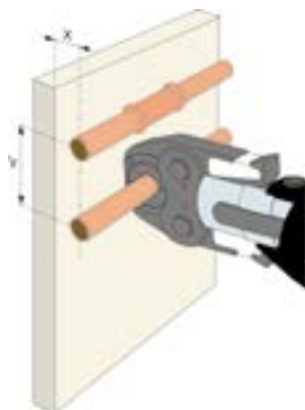
Diameter (mm)	Min. A (mm)	Min. L (mm)	E (mm)
76.1	55	165	55
88.9	65	191	63
108	80	234	77



Minimum spacing from a crimped point to a welded point is 10cm.  
Minimum spacing from a welded point to a crimped point is 50cm.

#### Wall mounting

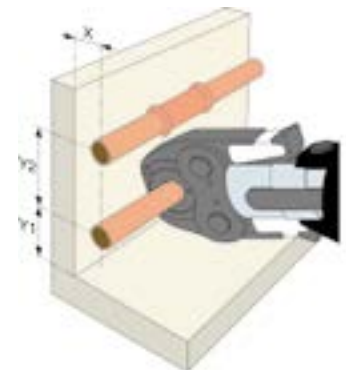
Diameter (mm)	X (mm)	Y (mm)
76.1	110*	140*
88.9	120*	150*
108	140*	170*



\*Slings

#### Bottom wall mounting

Diameter (mm)	X (mm)	Y1 (mm)	Y2 (mm)
76.1	115*	115	165*
88.9	125*	125	185*
108	135*	135	200*



\*Slings

## CRIMPING TOOL COMPATIBILITY

The table below shows the different crimping tools compatible with SUDOPress press fittings.

		12	14	15	16	18	22	28	35	42	54	76.1	88.9	108
		V	V	V	V	V	V	V	V	V	V	M	M	M
NOVOPRESS	ACO 102 SP1932 AFP101	⊙	⊙	⊙	⊙	⊙	⊙	⊙	-	-	-	-	-	-
	ACO 202	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	-	-	-
	ECO 301	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
REMS	MINI-PRESS ACC	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	-	-	-	-	-
	POWER-PRESS AKKU-PRESS	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	-	-	-
KLAUKE	MINI KLAUKE (MAP1, MAP2L)	⊙	⊙	⊙	⊙	⊙	⊙	-	-	-	-	-	-	-
	UAP2L UNP2 UAP3L UAP4L	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙*	⊙*	⊙*
VIEGA	PRESSGUN PICCO	⊙	⊙	⊙	⊙	⊙	⊙	⊙	-	-	-	-	-	-
	PRESSGUN 4B/4E PT3-AH PT3-EH	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	-	-	-

\*UAP4L only.

Tests carried out in Comap laboratory, performed with SUDOPress fittings produced by Comap and using press tools from different manufacturers.

## PIPE COMPATIBILITY

(Discover our pipe range from page 157)

### Copper pipes

Comap does not supply copper tubes. For a reliable and long-lasting connection with SUDOPress fittings, it is essential to check the pipe thickness.

SUDOPress press fittings must be used with copper pipes compliant with European standard EN 1057 - August 2006. The table below shows the minimum compatible pipe thicknesses, depending on the nominal diameter and metallurgical condition of the pipe.

Type	Nominal diameter (mm)										
	12	14	15	16	18	22	28	35	42	54	
Annealed: R220	1	1	1	1	1	1	NA	NA	NA	NA	
Half-hard: R250	1	1	1	1	1	1	1	NA	NA	NA	
Hard: R290	1	1	1	1	1	1	1	1	1	1.5	

These values are in accordance with the tests we carried out in order to certify our fittings to European standards such as CSTBAT, DVGW, ATG cert and Kiwa.

However, depending on the application (water, gas, heating, solar, etc.) and the country, it is necessary to refer to the corresponding local technical regulations.

Heating, sanitary and water applications	France	ATEC 14/11 1624
Gas application	France	ATG B 524-1: June 2005
Water and gas applications	Germany	GW 392: 2008
Water applications	Netherlands	K 760/04: 2010

### **Stainless steel pipes**

SUDOPress stainless steel fittings should only be used with stainless steel pipes supplied by Comap. See page 173 for more information.

### **Carbon steel pipes**

SUDOPress carbon steel fittings should only be used with carbon steel pipes supplied by Comap. See page 173 for more information.

**XPress**

# XPRESS STAINLESS STEEL FOR WATER APPLICATIONS

There's no need to choose between quality and efficiency; with our Multiconnect system you can have both. The Multiconnect system offers the widest range on the market, with connections for Multilayer, PEX, Copper, Stainless Steel and Carbon Steel pipes.



## APPLICATIONS

XPress Stainless Steel for water applications is ideal for sanitary and compressed air installations. It should only be used with Comap pipes.

Application	Operating temperature	Service pressure
Compressed air*	-20°C to +70°C	Max. 16 bar
Cooling water (with glycol)	Min -35°C	Max. 16 bar
Drinking water	+5°C to +95°C	Max. 16 bar
Heating water	-35°C to +135°C	Max. 16 bar
Industrial water	-35°C to +135°C	Max. 16 bar

\*Compressed air with less than 25mg/m<sup>3</sup> of oil.

For information regarding other fluids, please contact us.



PRESS M PROFILE



PATENTED O-RING



EUROPEAN PRODUCTION

## BENEFITS

- The press system is fast, economical, versatile and safe.
- The patented O-ring lets you know during pressure tests if you have forgotten to crimp a fitting.

## FEATURES

- Patented O-ring.
- M profile stainless steel fittings from 15 to 108mm.
- High quality EPDM O-ring.

Certifications:



## FOR WATER APPLICATIONS

### 90° ELBOW MALE-FEMALE

#### X7001A



Size	ITEM No	L	Z	H	Qty
15	M6190349	41	21	48,6	10
18	M6190351	45	25	51,4	10
22	M6190360	51	30	60	5
28	M6190371	60,1	37,1	65,5	5
35	M6190382	71,1	45,1	75,9	5
42	M6190393	86,1	56,1	92,5	2
54	M6190404	105	70	110,6	2
76,1	M6230037	150	95	165	2
88,9	M6230048	174	110	190	2
108	M6230059	216	138	238	2

### 90° ELBOW FEMALE-FEMALE

#### X7002A



Size	ITEM No	L	Z	Qty
15	M6190206	41	21	10
18	M6190217	45	25	10
22	M6190228	51	30	10
28	M6190239	60,1	37,1	5
35	M6190241	71,1	45,1	5
42	M6190250	86,1	56,1	2
54	M6190261	105	70	2
76,1	M6230004	150	95	2
88,9	M6230015	175	112	2
108	M6230026	214	136	2

## RELATED PRODUCTS

### STAINLESS STEEL PIPES

To complete our XPress Stainless Steel system, Comap offers a range of stainless steel pipes.



#### SUDOXPress Stainless

**Steel range:** In 316 for sanitary applications. Diameters from 15 to 54mm with blue caps.

#### XPress Stainless Steel range:

In 439 for industrial applications. Diameters from 15 to 108mm with black caps.

Tolerances conform to EN 10312 standards.

SudoXPress Stainless steel pipes

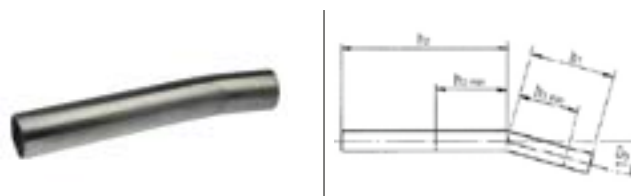
173

Xpress Stainless steel pipes

173

### 15° ELBOW FOR FITTING MALE - MALE

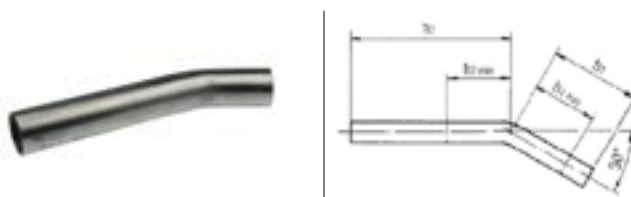
#### X7015L



Size	ITEM No	H1	H2	h1min	h2min	Qty
28	M6190008	45	134	45	48	10
35	M6190019	73	222	53	53	5
42	M6191834	89	280	59	59	2
54	M6191845	122	337	67	67	2

### 30° ELBOW FOR FITTING MALE - MALE

#### X7030L



Size	ITEM No	H1	H2	h1min	h2min	Qty
28	M6190021	51	130	51	54	10
35	M6190030	80	214	60	60	4
42	M6191856	99	272	69	69	2
54	M6191867	134	326	79	79	2

### 45° ELBOW MALE-FEMALE

**X7040**



Size	ITEM No	L	Z	H	Qty
15	M6190118	30,5	10,5	37,5	10
18	M6190129	32,1	12,1	38,5	10
22	M6190131	35,2	14,2	42,3	10
28	M6190140	40,2	17,2	45,6	10
35	M6190151	46,5	20,5	51,3	5
42	M6190162	56,3	26,3	62,6	4
54	M6190173	66,9	31,9	72,5	2
76,1	M6230092	98	43	117	2
88,9	M6230103	112	49	131	2
108	M6230114	138	61	154	2

### 45° ELBOW FEMALE-FEMALE

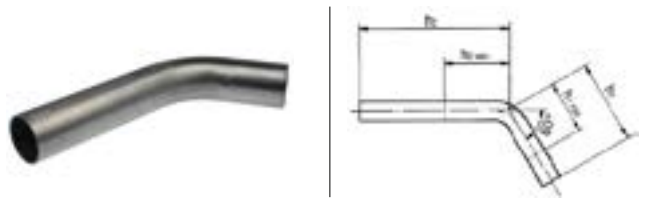
**X7041**



Size	ITEM No	L	Z	Qty
15	M6190041	30,5	10,5	10
18	M6190052	32,1	12,1	10
22	M6190063	35,2	14,2	10
28	M6190074	40,2	17,2	10
35	M6190085	46,5	20,5	5
42	M6190096	56,3	26,3	2
54	M6190107	66,9	31,9	2
76,1	M6230061	98	43	2
88,9	M6230070	112	49	2
108	M6230081	138	61	2

### 60° ELBOW FOR FITTING MALE - MALE

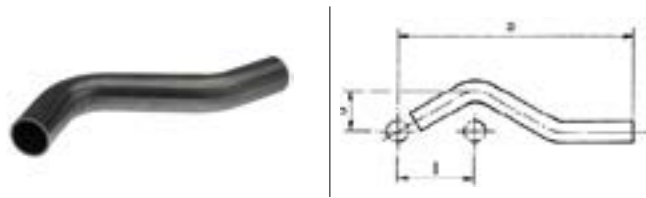
**X7060L**



Size	ITEM No	H1	H2	h1min	h2min	Qty
28	M6190184	63	121	63	66	5
35	M6190195	97	203	77	77	4
42	M6191878	120	256	90	90	5
54	M6191889	162	306	107	107	2

### PART CROSSOVER MALE - MALE

**X7086**



Size	ITEM No	L	A	B	Qty
15	M6191086	57	158	37	10
18	M6191097	60	165	40	10
22	M6191108	65	178	44	10
28	M6191119	74	210	50	10

### 90° SQUARE FEMALE THREADED - FEMALE

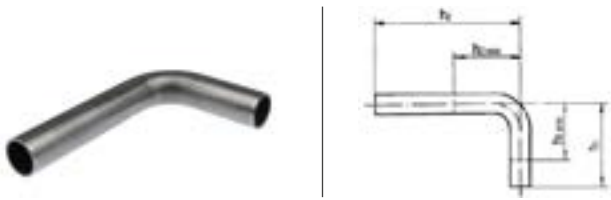
**X7090GL**



Size	ITEM No	Z	L1	Z1	L2	Qty
15x1/2	M6190822	23,5	28,2	13,2	43,5	10
18x1/2	M6190833	23,5	28,2	13,2	43,5	10
22x1/2	G111015001	24	31	16	45	10
22x3/4	M6190844	27,5	33	17	48,5	10
28x1/2	G111016001	24,5	35	16	47,5	5
28x3/4	G111017001	27,5	35	18,5	50,5	5
28x1"	M6190855	31,5	37	17,5	54,5	10
35x1/2	G111019001	30	35	20	56	5
35x3/4	G111020001	31,5	37	21	57,5	5
35x1"1/4	G111018001	32	40,5	21	58	5
35x1"1/4	M6190866	36	42,2	20,5	62	5

## 90° ELBOW FOR FITTING MALE - MALE

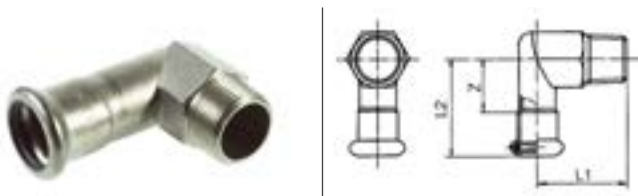
### X7090L



Size	ITEM No	H1	H2	h1min	h2min	Qty
15	M6190272	70	120	58	58	10
18	M6190283	70	120	63	63	10
22	M6190294	72	120	70	70	10
28	M6190305	82	120	80	80	5
35	M6190316	120	200	100	100	4
42	M6190327	150	250	120	120	2
54	M6190338	200	300	145	145	2

## 90° SQUARE MALE THREADED - FEMALE

### X7092GL



Size	ITEM No	Z	L1	L2	Qty
15x1/2	M6190877	23	30,5	43	10
18x1/2	M6190888	23,5	31,5	43,5	10
22x3/4	M6190899	27,5	38,5	48,5	10
28x1"	M6190901	30	46	53	10
35x1 1/4	M6190910	34	52	60	5
42x1 1/2	M6190921	39	58	69	2
54x2"	M6190932	47	68	82	2

## EQUAL TEE FEMALE

### X7130



Size	ITEM No	L1	Z1	L2	Z2	Qty
15	M6191350	35	15	39	19	10
18	M6191372	36,5	16,5	40,5	20,5	10
22	M6191405	39,5	18,5	43,5	22,5	10
28	M6191449	44,5	21,5	48,5	25,5	5
35	M6191493	51	25	55	29	5
42	M6191537	60	30	61,5	31,5	4
54	M6191581	71	36	72,5	37,5	2
76,1	M6204319	116	61	115	60	2
88,9	M6204321	131	68	127	64	2
108	M6204330	156	79	155	78	2

## TEE THREADED FEMALE TO SCREW - FEMALE

### X7130G



Size	ITEM No	L1	Z1	L2	Z2	Qty
15x1/2x15	M6191592	35	15	34,3	24,3	10
18x1/2x18	M6191603	36,5	16,5	35	25	10
18x3/4x18	M6191614	36,5	16,5	37	26	10
22x1/2x22	M6191625	39,5	18,5	37	27	10
22x3/4x22	M6191636	39,5	18,5	39	28	10
28x1/2x28	M6191647	44,5	21,5	40	30	5
28x3/4x28	M6191658	44,5	21,5	42	31	10
28x1"x28	G111021001	44,5	21,5	46	27,5	5
35x1/2x35	M6191669	51	25	43,5	33,5	5
35x3/4x35	M6191671	51	25	45,5	34,5	5
35x1"x35	G111022001	51	25	50	31	5
42x1/2x42	M6191680	60	30	46	36	4
42x3/4x42	M6191691	60	30	48	37	4
42x1"x42	G111023001	60	30	52,5	33,5	4
54x1/2x54	M6191702	71	36	52	42	2
54x3/4x54	M6191724	71	36	54	43	2
54x1"x54	G111024001	71	36	58	38	2
54x2"x54	M6191713	71	36	64,7	46,7	2
76,1x3/4x76,1	M6204528	116	55	68	55	2
76,1x2"x76,1	M6204550	116	55	81	59	2
88,9x3/4x88,9	M6204539	131	63	87	74	2
88,9x2"x88,9	M6204561	131	63	88	66	2
108x3/4x108	M6204541	156	77	86	73	2
108x2"x108	M6204572	156	77	98	76	2

## REDUCED TEE FEMALE

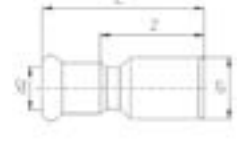
### X7130R



Size (S1-S2-S3)	ITEM No	L1	Z1	L2	Z2	Qty
18x15x18	M6191361	36,5	16,5	40,5	20,5	10
22x15x22	M6191383	39,5	18,5	42,5	22,5	10
22x18x22	M6191394	39,5	18,5	42,5	22,5	10
28x15x28	M6191416	44,5	21,5	45,5	25,5	5
28x18x28	M6191427	44,5	21,5	45,5	25,5	10
28x22x28	M6191438	44,5	21,5	46,5	25,5	5
35x15x35	M6191451	51	25	49	29	5
35x18x35	M6191460	51	25	49	29	5
35x22x35	M6191471	51	25	50	29	5
35x28x35	M6191482	51	25	52	29	5
42x22x42	M6191504	60	30	52,5	31,5	4
42x28x42	M6191515	60	30	54,5	31,5	4
42x35x42	M6191526	60	30	57,5	31,5	4
54x22x54	M6191548	71	36	58,5	37,5	2
54x28x54	M6191559	71	36	60,5	37,5	2
54x35x54	M6191561	71	36	63,5	37,5	2
54x42x54	M6191570	71	36	67,5	37,5	2
76,1x28x76,1	M6204352	116	61	71	47	2
76,1x35x76,1	M6204363	116	61	75	48	2
76,1x42x76,1	M6204374	116	61	79	47	2
76,1x54x76,1	M6204385	116	61	80	43	2
88,9x22x88,9	M6204396	131	68	76	53	2
88,9x28x88,9	M6204407	131	68	76	52	2
88,9x35x88,9	M6204418	131	68	83	56	2
88,9x42x88,9	M6204429	131	68	85	53	2
88,9x54x88,9	M6204431	131	68	93	56	2
88,9x76,1x88,9	M6204440	131	68	116	61	2
108x22x108	M6204451	156	79	85	62	2
108x28x108	M6204462	156	79	88	64	2
108x35x108	M6204473	156	79	94	67	2
108x42x108	M6204484	156	79	96	64	2
108x54x108	M6204495	156	79	102	65	2
108x76,1x108	M6204506	156	79	125	70	2
108x88,9x108	M6204517	156	79	135	72	2

## REDUCER MALE-FEMALE

### X7243

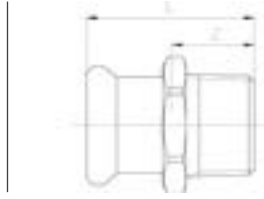


Size M-F	ITEM No	L	Z	Qty
18x15	M6191121	50,7	30,7	10
22x15	M6191130	58,8	38,8	10
22x18	M6191141	57	37	10
28x15	M6191152	65	45	10
28x18	M6191163	63	43	10
28x22	M6191174	61,2	40,2	10
35x15	M6192221	78,5	58,5	5
35x18	M6191185	77	57	5
35x22	M6191196	69	48	5
35x28	M6191207	68,1	45,1	5
42x15	M6192230	87	67	5
42x18	M6192241	85,5	65,5	5
42x22	M6191218	84,5	63,5	4
42x28	M6191229	77,9	54,9	4
42x35	M6191231	77,6	51,6	4
54x15	G112004001	99	79	4
54x18	M6192263	97,5	77,5	4
54x22	M6191240	96,5	75,5	4
54x28	M6191251	95,5	72,5	4
54x35	M6191262	94,6	68,6	4
54x42	M6191273	95,1	65,1	4
76,1x42	M6204211	151	119	4
76,1x54	M6204220	140	103	4
88,9x54	M6204231	156	119	4
88,9x76,1	M6204242	156	101	4
108x54	M6204253	204	167	2
108x76,1	M6204264	196	141	2
108x88,9	M6204275	196	127	2



## COUPLING MALE THREAD-FEMALE

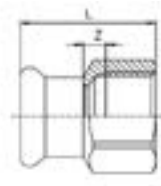
X7243G



Size	ITEM No	L	Z	Qty
15x1/2	M6190580	38	18	10
15x3/4	M6190591	41	21	10
18x1/2	M6190602	38	18	10
18x3/4	M6190613	41	21	10
22x1/2	M6190635	42	21	10
22x3/4	M6190646	43,3	22,3	10
22x1"	M6190624	48,5	27,5	10
28x3/4	M6190679	45,2	22,2	10
28x1"	M6190657	48	25	10
28x1 1/4	M6190668	51,5	28,5	10
35x1"	M6190681	52,7	26,7	10
35x1 1/4	M6190701	55	29	5
35x1 1/2	M6190690	56	30	10
42x1 1/4	M6190723	59	29	4
42x1 1/2	M6190712	59	29	4
54x1 1/2	M6190734	64,7	29,7	4
54x2"	M6190745	69	34	4
76,1x2 1/2	M6204759	125	70	2
88,9x3"	M6204761	138	75	2

## STRAIGHT CONNECTOR FEMALE TO SCREW - FEMALE

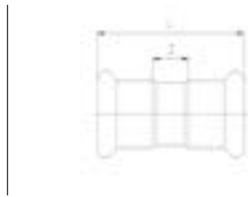
X7270G



Size	ITEM No	L	Z	Qty
15x1/2	M6190415	37,3	7,3	10
15x3/4	M6190426	39,2	8,2	10
18x1/2	M6190437	37	7	10
18x3/4	M6190448	38	7	10
22x1/2	M6190461	36,5	5,5	10
22x3/4	M6190470	39,5	7,5	10
22x1"	M6190459	43,6	9,6	10
28x1/2	M6193308	38	4,5	10
28x3/4	M6190503	40	6	10
28x1"	M6190481	44,6	8,6	10
28x1 1/4	M6190492	47	9	10
35x1"	M6190514	46	7	10
35x1 1/4	M6190536	50	9	10
35x1 1/2	M6190525	50	10	10
42x1 1/4	M6190558	52	3	4
42x1 1/2	M6190547	54	10	4
54x1 1/2	M6190569	58	9	4
54x2"	M6190571	63	10	4

## COUPLING FEMALE-FEMALE

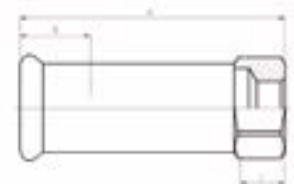
X7270



Size	ITEM No	L	Z	Qty
15	M6190943	50	10	10
18	M6190954	50	10	10
22	M6190965	52	10	10
28	M6190976	56,2	10,2	10
35	M6190987	62,3	10,3	5
42	M6190998	73,3	13,3	4
54	M6191009	83	13	4
76,1	M6204154	142	32	4
88,9	M6204165	163	37	4
108	M6204176	192	38	2

## SLIP COUPLING FEMALE TO SCREW - FEMALE

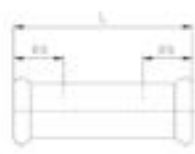
X7270GL



Size	ITEM No	A	B	C	ΔL	Qty
22x1/2	G112005001	92	25	15	40	10
22x3/4	G112006001	97	25	16	40	10
28x1/2	G112007001	94	30	15	40	10
28x3/4	G112008001	93	30	16	40	10

## SLIP COUPLING FEMALE-FEMALE

### X7270L



Size	ITEM No	L	es	Qty
15	M6191284	80	25	10
18	M6191295	80	25	10
22	M6191306	84	25	10
28	M6191317	91,2	30	10
35	M6191328	102,2	30	5
42	M6191339	120,3	40	4
54	M6191341	140	40	2
76,1	M6204286	230	60	2
88,9	M6204297	258	70	2
108	M6204308	305	80	2

## ADAPTOR PRESS / GROOVED

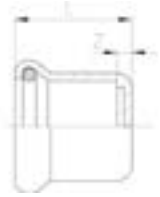
### X7270RA



Size	ITEM No	L	Z	D	Qty
28	G112009001	72,5	26	33,7	10
35	G112010001	81	26	42,4	10
42	G112011001	86	26	48,3	5
54	G112012001	96,5	26	60,3	5
76,1	M6193319	90	36	76,1	2
88,9	M6193321	100	36	88,9	2
108	M6193330	110	36	114,4	2

## STOP END FEMALE

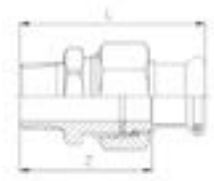
### X7300



Size	ITEM No	L	Z	Qty
15	M6191011	22,9	2,9	20
18	M6191020	22,9	2,9	20
22	M6191031	24,1	3,1	10
28	M6191042	26,1	3,1	10
35	M6191053	29,1	3,1	5
42	M6191064	36,6	6,6	4
54	M6191075	41,6	6,6	4
76,1	M6204187	95	40	2
88,9	M6204198	107	44	2
108	M6204209	127	50	2

## THREADED UNION MALE THREADED - FEMALE

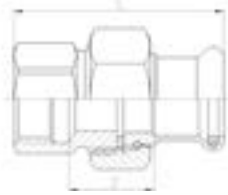
### X7341GEI



Size	ITEM No	L	Z	Qty
15x1/2	M6192120	61,8	41,8	2
15x3/4	M6192131	64,7	44,7	2
18x1/2	M6192142	61,8	41,8	2
18x3/4	M6192153	64,7	44,7	2
22x1/2	M6192164	63	42	2
22x3/4	M6192175	68,5	47,5	2
22x1"	M6192186	71,8	50,8	2
28x1"	M6192197	72,8	49,8	2
35x1 1/4	M6192208	78,2	52,2	2
42x1 1/2	M6192219	85,4	55,4	2
54x2"	M6192296	100	65	2

## THREADED UNION FEMALE THREADED - FEMALE

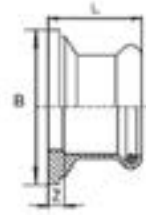
X7341GEL



Size	ITEM No	L	Z	Qty
15x1/2	M6192021	57	22	2
15x3/4	M6192032	60	23,5	2
18x1/2	M6192043	57	22	2
18x3/4	M6192054	60	23,5	2
22x3/4	M6192085	63	25,5	2
22x1"	M6192076	65,8	25,3	2
28x1"	M6192087	65	22,5	2
35x1 1/4	M6192098	73	25,3	1
42x1 1/2	M6192109	82	30	2
54x2"	M6192111	91	30	2

## COUPLING PRESS/FLAT SEAL

X7360



Size	ITEM No	L	Z	H	Qty
15x1 1/8	M6191891	30	10	34	20
15x1 1/2	M6191900	30	10	44,4	20
18x1 1/4	M6191911	29	9	38,8	20
18x1 1/2	M6191922	29	9	44,4	20
22x1 1/4	M6191933	28	7	38,8	20
22x1 1/2	M6191944	28	7	44,4	20
28x1 1/2	M6191955	30,5	7,5	44,4	20
35x2"	M6191966	33	7	56	10
42x2 1/4	M6191977	37	7	62	10
54x2 3/4	M6191988	44	9	77,6	5

## STRAIGHT FEMALE CONNECTOR - FEMALE

X7359GL

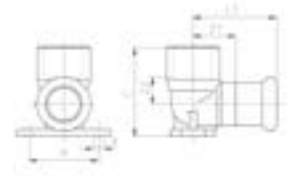
Free Nut



Size	ITEM No	L	Z	Qty
15x3/4	M6191735	31	11	10
18x3/4	M6191746	31	11	10
22x1"	M6191757	32	11	10
28x1 1/4	M6191768	33	10	10
35x1 1/2	M6191779	36	10	4
42x1 3/4	M6191781	43	13	4
54x2 3/8	M6191790	50	15	4

## 90° WALL PLATE FEMALE THREADED - FEMALE

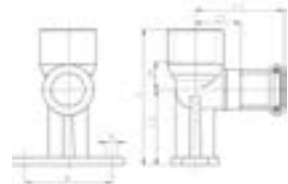
X7472GL



Size	ITEM No	L1	Z1	Z2	A	C	D	Qty
15x1/2	M6191801	45	25	13,2	34	41,2	5	10
18x1/2	M6191812	44,5	24,5	13,2	34	44,2	5	10
22x3/4	M6191823	48,5	27,5	16,7	40	52	5,5	10

## 90° LONG WALL PLATE FEMALE THREADED - FEMALE

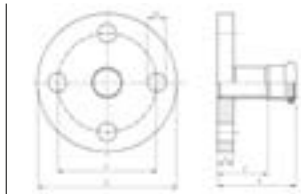
X7472GLL



Size	ITEM No	L1	Z1	Z2	A	C	D	Qty
15x1/2	G111025001	45	25	13,2	40	63,2	5	20
18x1/2	G111026001	44,5	24,5	13,2	40	63,2	5	20
22x3/4	G111027001	48,5	27,5	16,7	40	64	5,5	10

## FLANGED CONNECTOR PN 10 / 16

### X7500B

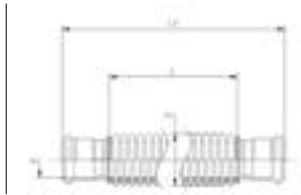


Size	ITEM No	L	B	D	D2	Holes	H	K	Qty
15	M6190756	34	11	95	14	4	54	65	1
18	M6190767	40	11	95	14	4	60	65	1
22	M6190778	42,5	12	105	14	4	63,5	75	1
28	M6190789	48	14	115	14	4	71	85	1
35	M6190791	53	15	140	18	4	79	100	1
42	M6190800	61	16	150	18	4	91	110	1
54	M6190811	77	18	165	18	4	112	125	1
76,1	M6204121	71	18	185	18	4	126	145	1
88,9	M6204132	84	20	200	18	8	147	160	1
108	M6204143	90	20	220	18	8	167	180	1

## AXIAL COMPENSATOR

### X7747A

Not certified for drinking water applications  
(female/female)

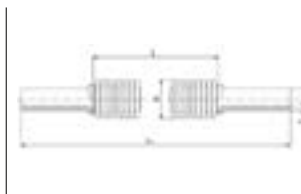


Size	ITEM No	L	D	s	L0	Qty
15	M6198302	60	24	1	110	10
18	M6198313	57	27	1	106	10
22	M6198324	70	36,5	1,2	120	5
28	M6198335	76	44	1,2	130	5
35	M6198346	78	50	1,5	140	4
42	M6198357	81	60	1,5	153	2
54	M6198368	100	54	1,5	180	2

## AXIAL COMPENSATOR

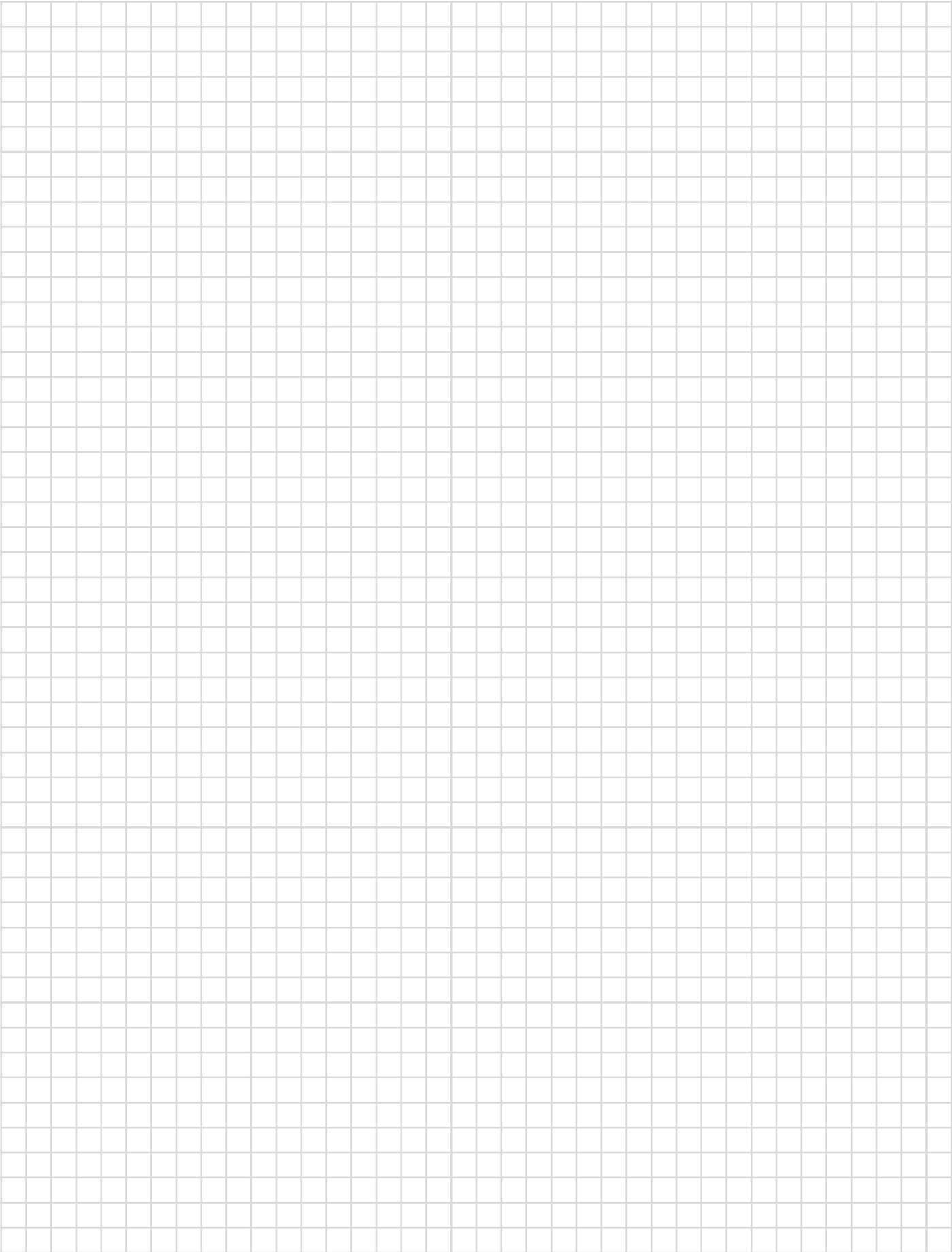
### X7747B

Not certified for drinking water applications  
(male/male)



Size	ITEM No	L	D	s	L0	Qty
76,1	M6198379	115	96	2	275	2
88,9	M6198381	109	115	2	289	2
108	M6198390	125	140	2	345	2

# NOTES



**XPress**

# XPRESS CARBON STEEL FOR WATER APPLICATIONS

There's no need to choose between quality and efficiency; with our Multiconnect system you can have both. The Multiconnect system offers the widest range on the market, with connections for Multilayer, PEX, Copper, Stainless Steel and Carbon Steel pipes.



## APPLICATIONS

XPress Carbon Steel for water applications is ideal for heating installations. It should only be used with Comap pipes.

Application	Operating temperature	Service pressure
Compressed air*	-20°C to +70°C	Max. 16 bar
Cooling water (with glycol)	Min -35°C	Max. 16 bar
Heating water	-35°C to +135°C	Max. 16 bar
Industrial water	-35°C to +135°C	Max. 16 bar

\*Compressed air with less than 25mg/m<sup>3</sup> of oil.

For information regarding other fluids, please contact us.



PRESS M PROFILE



PATENTED O-RING



EUROPEAN PRODUCTION

## BENEFITS

- The press system is fast, economical, versatile and safe.
- The patented O-ring lets you know during pressure tests if you have forgotten to crimp a fitting.

## FEATURES

- Patented O-ring.
- M profile carbon steel fittings from 12 to 108mm.
- High quality EPDM O-ring.

Note: Carbon steel is not suitable for drinking water applications.

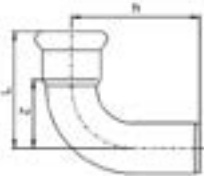
Certifications:



## FOR HEATING APPLICATIONS

### 90° ELBOW MALE-FEMALE

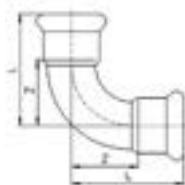
#### Z7001A



Size	ITEM No	L	Z	H	Qty
12	M6201624	35	18	42,4	10
15	M6201635	41	21	48,6	10
18	M6201646	45	25	51,4	10
22	M6201657	51	30	58,1	10
28	M6201668	60	37	65,5	5
35	M6201679	71	45	75,9	5
42	M6201681	86	56	92,5	2
54	M6201690	105	70	110,6	2
76,1	M6208061	149	94	166	2
88,9	M6208070	172	109	190	2
108	M6208081	198	122	230	2

### 90° ELBOW FEMALE-FEMALE

#### Z7002A



Size	ITEM No	L	Z	Qty
12	M6201547	35	18	10
15	M6201558	41	21	10
18	M6201569	45	25	10
22	M6201571	51	30	10
28	M6201580	60	37	5
35	M6201591	71	45	5
42	M6201602	86	56	2
54	M6201613	105	70	2
76,1	M6208004	150	95	2
88,9	M6208048	174	111	2
108	M6208059	215	139	2

## RELATED PRODUCTS

### CARBON STEEL PIPES

To complete our XPress Carbon system, Comap offers a range of carbon steel pipes.



#### XPress Carbon Steel range:

Diameters from 12 to 108mm with red caps and XPress marking.

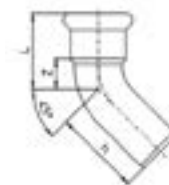
Tolerances conform to EN 10305-3 standards. These pipes are available in bars, naked or protected with a layer of polypropylene.

XPress carbon steel pipes

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### 45° ELBOW MALE-FEMALE

#### Z7040



Size	ITEM No	L	Z	H	Qty
15	M6201778	30,5	10,5	38,1	10
18	M6201789	32,1	12,1	38,5	10
22	M6201791	35,2	14,2	42,3	10
28	M6201800	40,1	17,1	45,6	10
35	M6201811	46,4	20,4	51,3	5
42	M6201822	56,1	26,1	62,6	4
54	M6201833	66,9	31,9	72,5	2
76,1	M6208092	96	41	119	2
88,9	M6208103	110	47	130	2
108	M6208114	137	61	160	2

### 45° ELBOW FEMALE-FEMALE

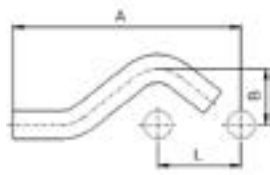
Z7041



Size	ITEM No	L	Z	Qty
15	M6201701	30,5	10,5	10
18	M6201712	32,1	12,1	10
22	M6201723	35,2	14,2	10
28	M6201734	40,1	17,1	10
35	M6201745	46,4	20,4	5
42	M6201756	56,1	26,1	4
54	M6201767	66,9	31,9	2
76,1	M6208125	98	43	2
88,9	M6208136	113	50	2
108	M6208147	138	62	2

### CROSSOVER MALE - MALE

Z7086



Size	ITEM No	L	A	B	Qty
12	M6201921	54	155	31	10
15	M6201932	54	155	31	10
18	M6201943	59,5	167	34	10
22	M6201954	64,5	177	37	10
28	M6201965	75	215	43	5

### 90° ELBOW FEMALE TO SCREW

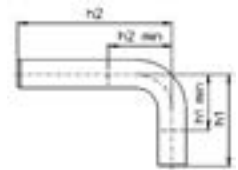
Z7090G



Size	ITEM No	Z	A	B	Qty
15x3/8	G121018001	21	40,5	41	10
15x1/2	G121017001	21	46,5	41	10
18x1/2	G121016001	25	50	45	10
22x1/2	G121013001	30	51	59	10
22x3/4	G121014001	30	51	59	10
28x1/2	G121011001	37	60	65	5
28x3/4	G121012001	37	60	65	5
28x1"	G121015001	37	60	69,5	5
35x1/2	G121002001	45	71	74,5	5
35x3/4	G121003001	45	71	74,5	5
35-1"	G121008001	45	71	74,5	5

### 90° ELBOW MALE-MALE

Z7090L



Size	ITEM No	H1	H2	h1min	h2min	Qty
12	M6201844	70	120	58	58	10
15	M6201855	70	120	58	58	10
18	M6201866	70	120	63	63	10
22	M6201877	72	120	70	70	10
28	M6201888	82	120	80	80	5
35	M6201899	120	200	100	100	2
42	M6201901	150	250	120	120	2
54	M6201910	200	300	145	145	2



## 90° ELBOW MALE TO SCREW - FEMALE

Z7092G



Size	ITEM No	Z	A	B	Qty
12x3/8	M6201976	18	35	41,5	10
15x3/8	M6201987	21	41	44,5	10
15x1/2	M6201998	21	41	49,5	10
18x1/2	M6202009	25	45	54	10
22x3/4	M6202011	30	51	61,5	10
28x1"	M6202020	37	60	73,5	5
35x1"1/4	M6202031	45	71	85,5	5
42x1"1/2	M6202042	56	86	95,5	2
54x2"	M6202053	70	105	115,5	2

## EQUAL TEE FEMALE-FEMALE-FEMALE

Z7130



Size	ITEM No	L1	Z1	L2	Z2	Qty
12	M6202482	30,5	13,5	39,5	22,5	10
15	M6202493	35	15	44	24	10
18	M6202504	36,5	16,5	45,5	25,5	10
22	M6202515	39,5	18,5	48,5	27,5	10
28	M6202526	44,5	21,5	53,5	30,5	5
35	M6202537	51	25	60	34	5
42	M6202548	60	30	66,5	36,5	4
54	M6202559	71	36	77,5	42,5	2
76,1	M6206442	116	61	121	61	2
88,9	M6206453	131	68	126	63	2
108	M6206464	152	78	152	74	2

## 90° ANGLE ADAPTER FEMALE TO SCREW - FEMALE

Z7096G



Size	ITEM No	L1	Z1	L2	Z2	Qty
22x1/2	M6341038	31	16	44,5	23	10
28x1/2	M6341049	35	20	50,5	26,7	5
35x1/2	M6341051	35	20	56,5	29,4	5

## TEE THREADED FEMALE TO SCREW - FEMALE

Z7130G



Size	ITEM No	L1	Z1	L2	Z2	Qty
15x1/2x15	M6202812	35	15	36,5	21,5	10
18x1/2x18	M6202823	36,5	16,5	37	22	10
18x3/4x18	G121006001	36,5	16,5	40	23,7	10
22x1/2x22	M6202834	39,5	18,5	39	24	10
22x3/4x22	M6206706	39,5	18,5	41	24,7	10
28x1/2x28	M6202845	44,5	21,5	42	27	5
28x3/4x28	M6207181	44,5	21,5	44	27,7	5
28x1"x28	G121007001	44,5	21,5	46	27,5	5
35x1/2x35	M6202856	51	25	45,5	30,5	5
35x3/4x35	M6207102	51	25	47,5	31,2	5
35x1xx35	G121005001	51	25	50	31	5
42x1/2x42	M6202867	60	30	48	33	4
42x3/4x42	M6207113	60	30	50	33,7	4
42x1xx42	G121004001	60	30	52,5	33,5	4
54x1/2x54	M6202878	71	36	54	39	2
54x3/4x54	M6207124	71	36	56	39,7	2
54x1"x54	G121001001	71	36	60	41	2
76,1x3/4x76,1	M6206508	116	61	69	52	2
88,9x3/4x88,9	M6206519	131	68	76	59	2
108x3/4x108	M6206521	156	78	86	69	2

## 90° ANGLE ADAPTER MALE TO SCREW - FEMALE

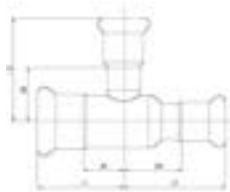
Z7098G



Size	ITEM No	Z	L1	L2	Qty
12x3/8	M6202064	19,5	22	36,5	10
15x3/8	M6202075	20	22	40	10
15x1/2	M6202086	21	28	41	10
18x1/2	M6202097	21,5	28	41,5	10
22x3/4	M6202108	23,5	32	44,5	10

## REDUCED TEE FEMALE

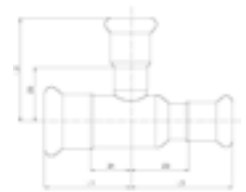
### Z7130R



Size (S1-S2-S3)	ITEM No	L1	Z1	L2	Z2	Qty
12x15x12	M6202768	30,5	13,5	42,5	22,5	10
15x12x15	M6202561	35	15	41	24	10
15x18x15	M6202779	35	15	44	24	10
15x22x15	M6202781	35	15	47,5	26,5	10
18x12x18	M6202570	36,5	16,5	42,5	25,5	10
18x15x18	M6202581	36,5	16,5	45,5	25,5	10
18x22x18	M6202790	36,5	16,5	47	26	10
22x12x22	M6202592	39,5	18,5	44,5	27,5	10
22x15x22	M6202603	39,5	18,5	47,5	27,5	10
22x18x22	M6202614	39,5	18,5	47,5	27,5	10
22x28x22	M6202801	39,5	18,5	52	29	5
28x15x28	M6202625	44,5	21,5	50,5	30,5	5
28x18x28	M6202636	44,5	21,5	50,5	30,5	5
28x22x28	M6202647	44,5	21,5	51,5	30,5	5
35x15x35	M6202658	51	25	54	34	5
35x18x35	M6202669	51	25	54	34	5
35x22x35	M6202671	51	25	55	34	5
35x28x35	M6202680	51	25	57	34	5
42x22x42	M6202691	60	30	57,5	36,5	4
42x28x42	M6202702	60	30	59,5	36,5	4
42x35x42	M6202713	60	30	62,5	36,5	4
54x22x54	M6202724	71	36	63,5	42,5	2
54x28x54	M6202735	71	36	65,5	42,5	2
54x35x54	M6202746	71	36	68,5	42,5	2
54x42x54	M6202757	71	36	72,5	42,5	2
76,1x22x76,1	M6207047	116	61	68	45	2
76,1x28x76,1	M6207058	116	61	71	47	2
76,1x35x76,1	M6207069	116	61	75	48	2
76,1x42x76,1	M6207071	116	61	79	47	2
76,1x54x76,1	M6206475	116	61	80	43	2
88,9x22x88,9	M6209654	131	68	76	53	2
88,9x28x88,9	M6209665	131	68	75,5	51,5	2
88,9x35x88,9	M6209676	131	68	83	56,5	2
88,9x42x88,9	M6209687	131	68	85	53	2
88,9x54x88,9	M6209698	131	68	92,5	55,5	2
88,9x76x88,9	M6206486	131	68	128	73	2
108x22x108	M6209711	156	78	85	62	2
108x28x108	M6209720	156	78	87,5	63,5	2
108x35x108	M6209731	156	78	93,5	66	2
108x42x108	M6209742	156	78	96	64	2
108x54x108	M6209753	156	78	102	65	2
108x76,1x108	M6209764	156	78	125	70	2
108x88,9x108	M6206497	156	78	135	72	2

## REDUCED TEE FEMALE

### Z7130RX



Size (S1-S2-S3)	ITEM No	L1	Z1	L2	Z2	L3	Z3	Qty
22x15x15	G121009001	39,5	18,5	47,5	27,5	46,5	26,5	10
22x22x15	G121010001	39,5	18,5	48,5	27,5	48,5	28,5	10

## CROSSING

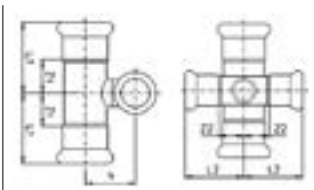
### Z7180



Size A-B	ITEM No	Qty
35x28	M6341005	2
35x35	M6340972	2
42x28	M6341016	2
42x42	M6340983	2
54x28	M6341027	1
54x54	M6340994	1

## 90° PASS CROSSING

### Z7181

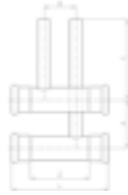


Size A-B	ITEM No	L1	Z1	L2	Z2	H	Qty
15x15	M6202889	35	15	35	15	21	5
18x15	M6202891	36,5	16,5	35	15	22,5	5
22x15	M6202900	39,5	18,5	35	15	24,5	10
22x18	M6202911	39,5	18,5	36,5	16,5	26	10
28x15	M6207135	44,5	21,5	35	15	27,5	5
28x18	M6207146	44,5	21,5	36,5	16,5	29	5
28x22	M6207157	44,5	21,5	39,5	18,5	31	5

## CROSSING PAIRE SINGLE

### Z7182

(A-Press x B-Male)



Size A-B	ITEM No	L1	Z1	A	B	C	Qty
12x12	M6206959	100	66	60	40	100	1
15x12	M6206961	120	80	60	40	100	1
15x15	M6206849	120	80	60	40	100	1
18x12	M6206851	120	80	60	40	100	1
18x15	M6206860	120	80	60	40	100	1
22x12	M6206871	120	78	60	40	100	1
22x15	M6206882	120	78	60	40	100	1
28x12	M6206893	120	74	60	40	100	1
28x15	M6206904	120	74	60	40	100	1

## CROSSING PAIRE DOUBLE

### Z7184

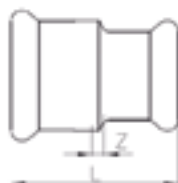
(A-Press x B-Male)



Size A-B	ITEM No	L	Z	A	B	C	Qty
12x12	M6206750	100	66	60	40	100	1
15x12	M6206761	120	80	60	40	100	1
15x15	M6206772	120	80	60	40	100	1
18x12	M6206783	120	80	60	40	100	1
18x15	M6206794	120	80	60	40	100	1
22x12	M6206948	120	78	60	40	100	1
22x15	M6206805	120	78	60	40	100	1
28x12	M6206816	120	74	60	40	100	1
28x15	M6206827	120	74	60	40	100	1
35x15	M6206838	120	67	60	40	100	1

## REDUCER FEMALE - FEMALE

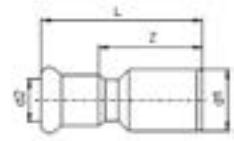
### Z7240



Size	ITEM No	L	Z	Qty
15-22	G122023001	45,5	4,5	10
22-28	G122021001	47,5	2,5	10

## REDUCER MALE-FEMALE

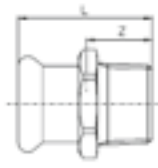
### Z7243



Size M-F	ITEM No	L	Z	d1	d2	Qty
15x12	M6202119	55	38	15	12	10
18x12	M6202121	53,8	36,8	18	12	10
18x15	M6202130	52	32	18	15	10
22x12	M6202141	57,2	40,2	22	12	10
22x15	M6202152	58,4	38,4	22	15	10
22x18	M6202163	59	39	22	18	10
28x15	M6202174	64	44	28	15	10
28x18	M6202185	62,3	42,3	28	18	10
28x22	M6202196	63	42	28	22	10
35x22	M6202207	68	47	35	22	5
35x28	M6202218	69	46	35	28	5
42x22	M6206651	80	59	35	22	4
42x28	M6206662	79	56	42	28	4
42x35	M6202229	76	50	42	35	4
54x18	M6206673	97	77	54	18	4
54x22	M6202231	89	68	54	22	4
54x28	M6202240	87	64	54	28	4
54x35	M6206684	89	63	54	35	4
54x42	M6202251	91	61	54	42	4
76,1x42	M6206387	151	121	76,1	42	4
76,1x54	M6206398	145	110	76,1	54	4
88,9x54	M6206409	157	122	88,9	54	4
88,9x76,1	M6206411	157	102	88,9	76,1	4
108x76,1	M6206420	196	141	108	76,1	2
108x88,9	M6206431	192	129	108	88,9	2

**STRAIGHT CONNECTOR MALE THREAD-FEMALE**

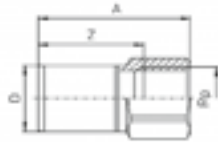
**Z7243G**



Size	ITEM No	L	Z	Qty
12x3/8	M6202262	31	14	10
15x3/8	M6202273	35	15	10
15x1/2	M6202284	39	19	10
18x1/2	M6202295	39	19	10
18x3/4	M6202306	40	20	10
22x1/2	M6206717	43	22	10
22x3/4	M6202317	44	23	10
22x1"	M6206728	50	29	10
28x3/4	G122020001	46	23	10
28x1"	M6202328	48	25	10
35x1"	M6341247	52,7	26,7	10
35x1 1/4	M6202339	55	29	5
42x1 1/2	M6202341	59	29	4
54x2"	M6202350	69	34	4
76,1x2 1/2	M6204781	123	68	2
88,9x3"	M6204792	134	71	2

**REDUCER FEMALE TO SCREW - MALE**

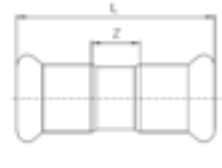
**Z7243GCU**



Size	ITEM No	Z	A	D	Qty
12x3/8	G122024001	30,6	42	12	10
12x1/2	M6202427	34	49	12	10
15x1/2	M6202438	36	51	15	10
18x1/2	M6202449	35	50	18	10
18x3/4	M6202451	36,7	53	18	10
22x1/2	M6202460	35	50	22	10
22x3/4	M6202471	36,7	53	22	10

**COUPLING FEMALE-FEMALE**

**Z7270**



Size	ITEM No	L	Z	Qty
12	M6201351	47	13	10
15	M6201360	53	13	10
18	M6201371	53	13	10
22	M6201382	55	13	10
28	M6201393	59	13	10
35	M6201404	65	13	5
42	M6201415	76	16	4
54	M6201426	86	16	4
76,1	M6206200	142	28	4
88,9	M6206211	160	34	4
108	M6206222	199	41	2

**STRAIGHT CONNECTOR FEMALE TO SCREW - FEMALE**

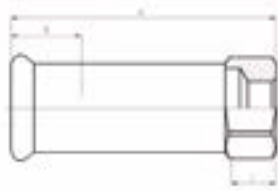
**Z7270G**



Size	ITEM No	L	Z	Qty
12x1/2	M6202361	39	7	10
15x1/2	M6202372	41	6	10
18x1/2	M6202383	40	5	10
18x3/4	M6202394	43	6,7	10
22x1/2	M6340202	36,5	4,5	10
22x3/4	M6202405	43	5,7	10
28x1/2	M6207806	38	2	10
28x3/4	G122022001	40,5	1	10
28x1"	M6202416	49	7	10
35x1/2	M6340917	42	5	10
35x3/4	M6340928	42	5	10
35x1"	M6340939	46	7	10
35 1 1/4	M6206695	50	2,3	10
42x1 1/2	M6341192	54	2	4
54x2"	M6341203	63	2	4

## SLIP COUPLING FEMALE TO SCREW - FEMALE

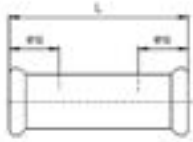
Z7270GL



Size	ITEM No	A	B	C	ΔL	Qty
22x1/2	G122013001	92	25	15	40	10
22x3/4	G122014001	97	25	16	40	10
28x1/2	G122015001	94	30	15	40	10
28x3/4	G122016001	93	30	16	40	10

## SLIP COUPLING FEMALE-FEMALE

Z7270L



Size	ITEM No	L	es	Qty
12	M6201437	67	25	10
15	M6201448	80	25	10
18	M6201459	80	25	10
22	M6201461	84	25	10
28	M6201470	91	30	5
35	M6201481	102	30	5
42	M6201492	120	40	4
54	M6201503	140	40	2
76,1	M6206233	230	60	2
88,9	M6206244	262	70	2
108	M6206255	304	80	2

## ADAPTOR PRESS / GROOVED

Z7270RA



Size A-B	ITEM No	L	Z	D	Qty
28x33,7	G122018001	72,5	26	33,7	10
35x42,4	G122019001	81	26	42,4	10
42x48,3	G122017001	86	26	48,3	5
54x60,3	G122012001	96,5	26	60,3	5
76,1x76,1	M6340774	90	36	76,1	2
88,9x88,9	M6340785	100	36	88,9	2
108x114	M6340796	110	36	114,3	2

## STOP END

Z7300

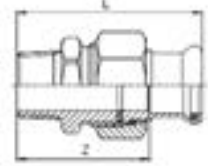


Size	ITEM No	L	Z	Qty
15	M6202955	25,5	5,5	20
18	M6202966	26,3	6,3	20
22	M6202977	28,5	7,5	10
28	M6202988	32,3	9,3	10
35	M6202999	34,4	8,4	5
42	M6203001	43,2	13,2	4
54	M6203010	51,8	16,8	4
76	M6206915	70	15	2
89	M6206926	87	24	2
108	G122011001	98	21	2

## THREADED UNION MALE THREADED - FEMALE

Z7341GEI

Brass Nut



Size	ITEM No	L	Z	Qty
15x1/2	M6207190	63,8	43,8	2
18x1/2	M6207036	63,8	43,8	2
22x3/4	M6207201	70	49	2
28x1"	M6207212	74,7	51,7	2
35x1 1/4	M6207223	81,8	55,8	2
42x1 1/2	M6207234	88	58	2
54x2"	M6207245	100	65	2

### THREADED UNION FEMALE TO SCREW - FEMALE

#### Z7341GEL



Size	ITEM No	L	Z	Qty
15x1/2	G122001001	58,5	20	2
18x1/2	G122002001	58,5	20	2
22x3/4	G122003001	63	22	2
28x1"	G122004001	65	19	2
35x1" 1/4	M6208941	75,5	24,5	2
42x1" 1/2	G122006001	82,5	27,5	2
54x2"	M6208961	92,5	28	2

### COMBINE PIPE MALE - MALE (UN GALVANIZED\*)

#### Z73500

After welding, a protective coating is required against corrosion



Size	ITEM No	L	Qty
17x15	M6207817	120	10
20x18	M6207828	120	10
24x22	M6207168	120	10
31x28	M6207179	120	5
38x35	M6201514	120	10
44,5x42	M6201525	120	4
57x54	M6201536	120	4
80,5x76,1	M6206530	230	2
94,9x88,9	M6206541	230	2
114x108	M6206552	230	2

### STRAIGHT CONNECTOR

#### Z7359

(Press x Eurocone)



Size	ITEM No	L	Z	Qty
15x3/4	M6208169	38	18	10
18x3/4	M6208171	38	18	10

### CONNECTOR WITH NUT FEMALE TO SCREW - FEMALE

#### Z7359GL

Free Nut female threaded - female



Size	ITEM No	L	Z	Qty
15x3/4	M6340521	31	11	10
18x3/4	M6340532	31	11	10
22x1"	M6340554	32	11	10
28x1" 1/4	M6340565	33	10	10
35x1" 1/2	M6340576	36	10	4
42x1" 3/4	M6340587	43	13	4
54x2" 3/8	M6340598	50	15	4

### VENTURI NOZZLE

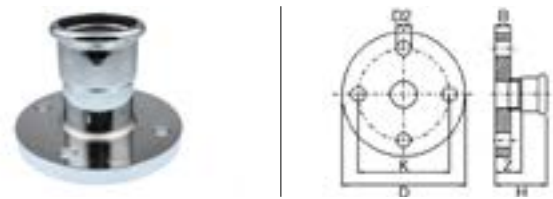
#### Z7431



Size	ITEM No	Qty
18	M6202922	10
22	M6202933	10
28	M6202944	10

### FLANGED CONNECTOR PN 10/16

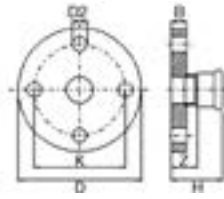
#### Z7500B



Size	ITEM No	Z	B	D	D2	Holes	H	K	Qty
76,1	M6206596	79	18	185	18	4	134	145	1
88,9	M6206607	78	20	200	18	8	141	160	1
108	M6206618	88	20	220	18	8	166	180	1

## FLANGED CONNECTOR PN6

Z7500A



Size	ITEM No	Z	B	D	D2	Holes	H	K	Qty
76,1	G122008001	74	14	160	14	4	126	130	1
88,9	G122009001	83	16	190	18	4	143	150	1
108	G122010001	92	16	210	18	4	168	170	1



# XPRESS FITTINGS (COPPER, STAINLESS STEEL, CARBON STEEL)



- 1 Patented O-ring
- 2 High quality stainless steel 316L
- 3 Marking for better identification



- 1 Patented O-ring
- 2 Red line to identify carbon steel fittings
- 3 High quality galvanised carbon steel
- 4 Marking for better identification



## APPLICATIONS

Application	System	O-ring	Operating temperature	Service pressure
Compressed air <sup>1</sup>	XPress Copper XPress Stainless steel XPress Carbon steel <sup>2</sup>	EPDM (black) FPM (green)	-20°C to +70°C	Max. 16 bar
Cooling water (with glycol)	XPress Copper XPress Stainless steel XPress Carbon steel	EPDM (black)	Min. -35°C (Steel) Min. -20°C (Copper)	Max. 16 bar
Drinking water	XPress Copper XPress Stainless steel	EPDM (black)	+5°C to +95°C	Max. 16 bar
Heating water	XPress Copper XPress Stainless steel XPress Carbon steel	EPDM (black)	-35°C to +135°C (Steel) -20°C to +110°C (Copper)	Max. 16 bar
Industrial water	XPress Copper XPress Stainless steel XPress Carbon steel	EPDM (black)	-35°C to +135°C (Steel) -20°C to +110°C (Copper)	Max. 16 bar
Solar	XPress Copper XPress Stainless steel XPress Carbon steel	FPM (grey)	+150°C / glycol 50% max.	6 bar
Steam	XPress Copper XPress Stainless steel	FPM (grey)	Max. +150°C	Max. 5 bar
Urban heating	XPress Copper XPress Stainless steel XPress Carbon steel	EPDM (black) FPM (grey)	+130°C / glycol 50% max.	10 bar
Vacuum	XPress Copper XPress Stainless steel XPress Carbon steel	FPM (grey)	+5°C to +50°C	Min. -0.8 bar

\* For all other applications, please contact Comap.

1. Use EPDM O-ring for oil-free compressed air system. If compressed air contains more than 25 mg / m<sup>3</sup> of lubricant use FPM or HNBR O-ring.

2. Water content for carbon steel must not exceed 800 mg/m<sup>3</sup>.

## INSTALLATION

### 1 CUT

Cut the pipe with the tube cutter. The pipe should always be cut completely.

### 2 DEBURR

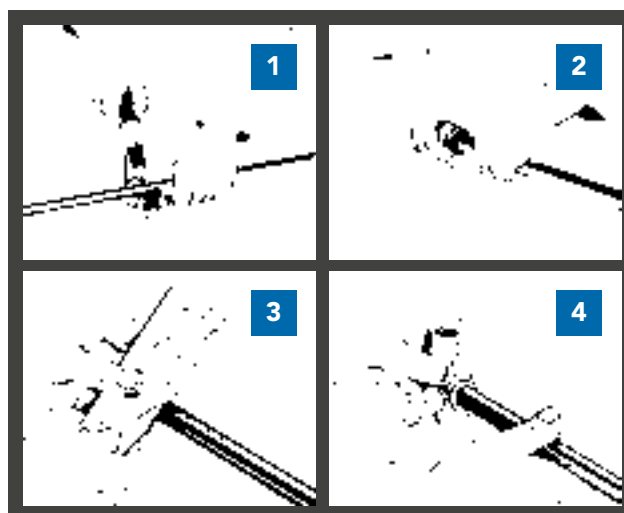
After being cut, the pipe ends must be carefully deburred, inside and out.

### 3 MARK

Mark the necessary insertion depth on the tube or the fitting, using an insertion depth marker. This will guarantee a safe and proper joint. Check that the O-ring is properly placed inside the fitting.

### 4 PRESS

Before starting to press, the press jaws and slings must be checked for dirt. Make sure that you use the correct press jaw and units and that these parts correspond to the fittings used.






**FITTING PROFILE: M**

Once you have properly assembled the pipe and fitting and checked your equipment, you can press the fitting.

## O-RINGS

Standard fittings for water and central heating applications are provided with EPDM O-rings. The type of O-ring to be used depends on the application and the medium. For special applications, such as oil-containing substances or high temperatures, the Viton®/FPM O-ring should be used. Carbon steel, stainless steel and copper press fittings

are supplied with an O-ring designed to indicate if a fitting is not pressed. This feature ensures that un-pressed connections will leak water from the O-ring during pressure tests (or the pressure will drop if air is used for pressure testing). This simplifies the detection of un-pressed fittings.

	Type	Operating temperature for the O-ring	Maximum operating pressure	Applications
	EPDM patented O-ring (black)	-35°C to +135°C Peak 150°C	16 bar*	With KTW recommendation. For all potable and processed water installations, warm water tubes, circulation tubes, fire-fighting lines, etc.
	FPM Viton® patented O-ring (green)	-30°C to +200°C Peak 230°C	16 bar	Installations for compressed air, fuel oil, vegetable oil, fuels, greases and industrial purposes. Ozone-resistant (industry design). Not suitable for hot water applications.
	FPM Viton® patented O-ring (grey)	-20°C to +150°C Peak 180°C	16 bar	Steam installations

\*For higher pressures, please contact Comap.

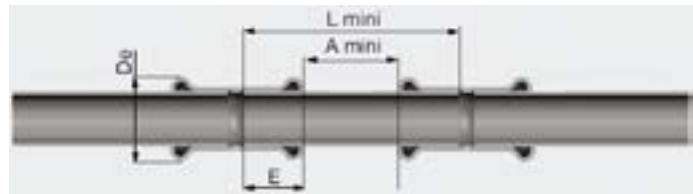
## MOUNTING RECOMMENDATIONS

### Mounting recommendation depending on diameters

Diameter (mm)	Min. A (mm)	Min. L (mm)	E (mm)
12	10	34	17
15	10	50	20
18	10	50	20
22	10	52	21
28	10	56	23
35	10	62	26
42	20	80	30
54	20	90	35
76.1	55	165	55
88.9	65	191	63
108	80	234	77

Minimum spacing from a crimped point to a welded point is 10cm.

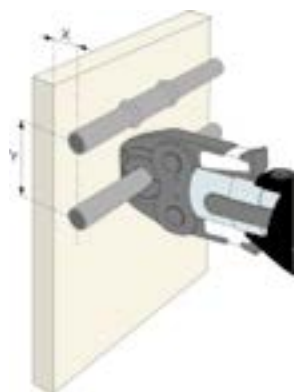
Minimum spacing from a welded point to a crimped point is 50cm.



## Pressing tools mounting recommendation

### Wall mounting

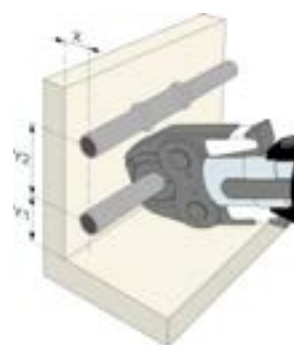
Diameter (mm)	X (mm)	Y (mm)
12	20	56
15	20	56
18	20	60
22	25	65
28	25	75
35	30	75
42	60/75*	140/115*
54	60/85*	140/120*
42	75	115
54	85	120
76.1	110*	140*
88.9	120*	150*
108	140*	170*



\*Slings

### Bottom wall mounting

Diameter (mm)	X (mm)	Y1 (mm)	Y2 (mm)
12	25	28	75
15	25	28	75
18	25	28	75
22	31	35	80
28	31	35	80
35	31	44	80
42	60/75*	75	140/115*
54	60/85*	85	140/120*
42	75	75	115
54	85	85	120
76.1	115*	115	165
88.9	125*	125	185*
108	135*	135	200*



\*Slings

## CRIMPING TOOL COMPATIBILITY

The table below shows the different crimping tools compatible with XPress press fittings.

		12	15	18	22	28	35	42	54	76.1	88.9	108	Jaws/slings
		M	M	M	M	M	M	M	M	M	M	M	
NOVOPRESS	ACO 102 AFP101	○	○	○	○	○	-	-	-	-	-	-	Presskid jaws 12-28mm (inlay) AFP 101 jaws 12-28mm
	ACO 202	○	○	○	○	○	○	○	○	-	-	-	Jaws 12-54mm Slings and adapter (ZB201/203) 35-54mm
	ECO 301	○	○	○	○	○	○	○	○	○	○	○	Jaws 12-54mm Slings and adapter (ZB302) 35-54mm Press slings 76.1-108mm For press slings 76.1 & 88.9 one adapter is needed (ZB321) For press sling 108 two adapters are needed (ZB 321 & ZB322) Important: Fitting size 108mm must be pressed in 2 stages!
REMS	MINI-PRESS ACC	○	○	○	○	○	-	-	-	-	-	-	Rems mini press jaws 12-28mm (18 and 28 only allowed with marking, "108" (Q1 2008) or higher.)
	POWER-PRESS AKKU-PRESS	○	○	○	○	○	○	○	○	-	-	-	Jaws 12-28mm (18 and 28 only allowed with marking, "108" (Q1 2008) or higher.) Slings and adapter 42-54mm
KLAUKE	MINI KLAUKE (MAP1, MAP2L)	○	○	○	○	○	-	-	-	-	-	-	Klauke mini jaws 12-28mm (28mm jaw is marked with VSH only)
	UAP2 UNP2 UAP3L	○	○	○	○	○	○	○	○	-	-	-	Jaws 12-54mm Slings and adapter 42-54mm Important: Both new Klauke M-slings (without press inlays) and old Klauke M-slings (with press inlays) can be used.
	UAP4L	○	○	○	○	○	○	○	○	○	○	○	Jaws 12-54mm Slings and adapter 42-54mm Slings and adapter 76.1-108mm

For other tools available on the market, please contact Comap.

		12	15	18	22	28	35	42	54	76.1	88.9	108	Jaws/slings
		M	M	M	M	M	M	M	M	M	M	M	
ROTHEMBERGER	ROMAX Compact	○	○	○	○	○	-	-	-	-	-	-	ROMAX Compact mini jaws 12-28mm
	ROMAX Pressliner ROMAX AC ECO	○	○	○	○	○	○	○	○	-	-	-	Jaws 12-35mm: Only new type of jaws with red dot and polished press profile. Jaws 42-54mm: Only new jaws with a circle around the dimension.
VIRAX	Viper P20 Viper P21	○	○	○	○	○	○	○	○	-	-	-	Jaws 12-54mm

## PIPE COMPATIBILITY

(Discover our pipe range on page 157.)

### Copper pipes

The copper pipes used in XPress copper systems for water must comply with EN 1057 R220/R250/R290 standards.

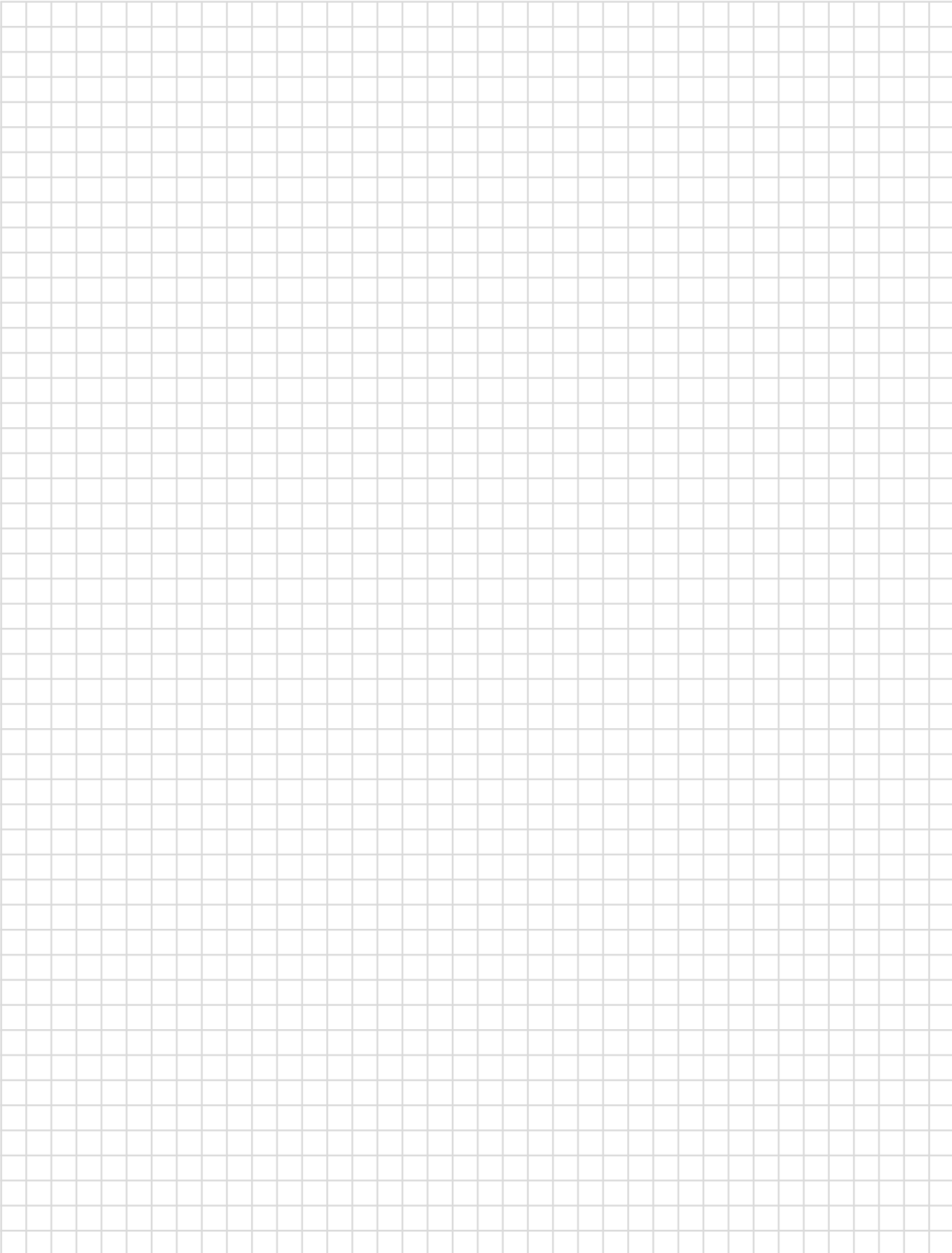
### Stainless steel pipes

XPress stainless steel fittings should only be used with stainless steel pipes supplied by Comap. See page 173 for more information.

### Carbon steel pipes

XPress carbon steel fittings should only be used with carbon steel pipes supplied by Comap. See page 173 for more information.

# NOTES



**XPress****XPRESS ACCESSORIES****XPRESS O-RING FOR WATER (STEEL)****M611S**

O-ring indicates if the fitting is not pressed (on O-rings from 12 to 54mm)

O-ring for water applications in EPDM (black)

Only for Xpress Stainless steel and Xpress Carbon steel



Size	ITEM No	Qty
12	M6222205	20
15	M6222216	20
18	M6222227	20
22	M6222238	20
28	M6222249	20
35	M6222251	20
42	M6222260	20
54	M6222271	20
76,1	M6208015	5
88,9	M6208026	5
108	M6208037	5

**XPRESS O-RING FOR SOLAR (STEEL)****M611**

O-ring indicates if the fitting is not pressed (on O-rings from 15 to 54mm)

O-ring for solar applications in FPM (green)

Only for Xpress Stainless steel and Xpress Carbon steel



Dimension	ITEM No	Qty
15	M6119401	20
18	M6119410	20
22	M6119421	20
28	M6119432	20
35	M6119443	20
42	M6119454	20
54	M6119465	20
76,1	M6119377	5
88,9	M6119388	5
108	M6119399	5

## XPRESS O-RING FOR STEAM (STEEL)

### M611A

O-ring indicates if the fitting is not pressed  
 O-ring for steam applications in FPM (grey)  
 Only for Xpress Stainless steel



Size	ITEM No	Qty
15	M6119784	20
18	M6119795	20
22	M6119806	20
28	M6119817	20
35	M6119828	20
42	M6119839	20
54	M6119841	20

## XPRESS STRIPPING TOOL

### MC1440

Stripping tool to use only to remove polypropylene layer from Xpress tube



Size	ITEM No	Qty
15	M6211843	1
18	M6211854	1
22	M6211865	1
28	M6211876	1
35-54	M6211887	1

## BLADES FOR STRIPPING TOOL

### MC1441

Size	ITEM No	Qty
15-18	M6212019	1
22-28	M6212021	1
35-54	M6212030	1

## XPRESS INSERTION DEPTH MARKER

### MR2742

Only for Xpress fittings



Size	ITEM No	Qty
12-54	M6212041	1

# CRIMPING TOOLS

Comap offers a range of crimping tools that reinforce the professionalism of this technique and simplify the work for the installer. Novopress ACO102, ACO202 and ECO301 tools allow crimping of all Comap diameters for copper, PEX, multilayer, stainless steel and carbon steel.

## INSERTS FOR NOVOPRESS TOOLS

### TH, THL INSERTS

**7023**  
for MultiSKIN crimping



Size	ITEM No	Qty
14	7023014	1
16	7023016	1
18	7023018	1
20	7023020	1
26	7023026	1
32	7023032	1

## \* NOTE

### COMAP TRACEABILITY



Comap fittings that are crimped with Novopress tools with inserts bear the Comap 'A' mark. This certifies the origin and the compatibility of the tool.

The two inserts are colour coded by diameter to avoid mistakes while mounting the jaws.

### TH INSERTS

**7030S**  
for MultiSKIN crimping



Size	ITEM No	Qty
14 - 16 - 20 26	7030030	1
16-20-26	7030031	1

### EMPTY BOX 7 INSERTS

**7223**  
for MultiSKIN crimping



ITEM No	Qty
7027099	1



## CO INSERTS

**7027**

for PEX crimping



Size	ITEM No	Qty
12	7027012	1
16	7027016	1
20	7027020	1
25	7027025	1

## BOX WITH CO INSERTS

**7030**

for PEX crimping



Size	ITEM No	Qty
12 - 16 - 20 - 25	7030040	1
16-20-25	7030041	1

## EMPTY BOX 4 INSERTS

**7227**

for PEX crimping



ITEM No	Qty
7027099	1

## V INSERTS

**7025**

for copper crimping



Size	ITEM No	Qty
12	7025012	1
14	7025014	1
15	7025015	1
16	7025016	1
18	7025018	1
22	7025022	1
28	7025028	1

## BOX WITH V INSERTS

**7030CU**

for copper crimping



Size	ITEM No	Qty
14 - 16 - 22 - 28	7030020	1

## EMPTY BOX 7 INSERTS

**7225**

for copper crimping



ITEM No	Qty
7025099	1

## M INSERTS

### 7028

for stainless steel and carbon crimping



Size	ITEM No	Qty
12	7028012	1
15	7028015	1
18	7028018	1
22	7028022	1
28	7028028	1

## BOX WITH M INSERTS

### 7030C

for stainless steel and carbon steel crimping



Size	ITEM No	Qty
12 - 15-18- 22- 28	70300050	1

## COLLARS FOR NOVOPRESS TOOLS

## TH COLLAR

### 7037

for MultiSKIN crimping



Size	ITEM No	Qty
40	J232001001	1
50	J232002001	1
63	J232003001	1

## V COLLAR

### 7036

for copper crimping



Size	ITEM No	Qty
42	J231001001	1
54	J231002001	1

## M COLLAR

### 7038

for stainless steel and carbon crimping



Size	ITEM No	Qty
42	43975-50	1
54	44131-50	1
76,1	44345-50	1
88,9	44346-50	1
108	44347-50	1

## EMPTY BOX M PROFILE COLLARS

### 7202

ø 76,1 - 88,9 mm+ adapter



ITEM No	Qty
44328-50	1

## EMPTY BOX FOR COLLARS

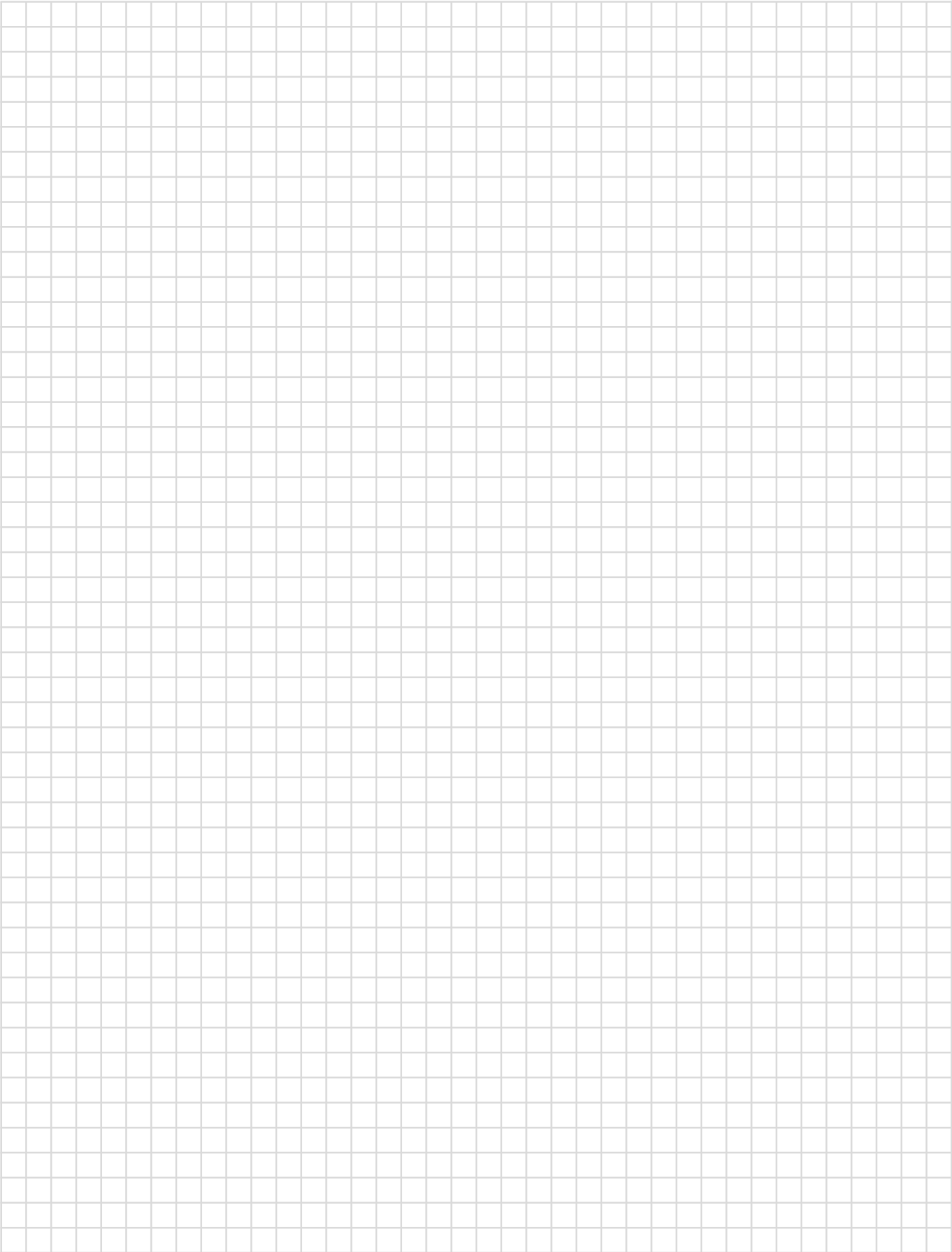
### 7229

Empty box for collars 40-42-50-54-63  
2 collars and one adapter



ITEM No	Qty
44306-50	1

# NOTES



# CRIMPING TOOLS

## NOVOPRESS ACO 102

The Novopress ACO 102 is the new generation of the AFP 101 and SP 1932 tools. It offers both power and technology but weighs less than 2kg. With its extreme convenience, it is the essential tool for crimping the most common diameters.

### TECHNICAL CHARACTERISTICS

Power consumption	240W
Nominal force	19kN
Height	70mm
Length	319mm with 7033 battery 345mm with 7032 battery
Width	96mm
Net weight	1.7kg (with battery)
Compression range	Plastic: up to 32mm diameter Metal: up to 28mm diameter
Temperature range during operation	-10°C to +50°C
Crimping cycle time	4.5 sec

### BENEFITS

- **MULTICRIMPING** – One single mother jaw for crimping copper, PEX, MultiSKIN, Cu/PERT, carbon steel and stainless steel.
- **LIGHT AND POWERFUL** – Piston force of 19 kN in a tool weighing only 1.7 kg.
- **CONVENIENT** – Well balanced and as compact as possible for comfortable use with a single hand.
- **QUICK AND PRACTICAL** – With a 4.5 second crimping cycle, 60 compressions are performed with a 7033 battery and 120 compressions with a 7032 battery. Charging times: 30 minutes for 7033 battery and 60 minutes for 7032 battery.
- **EASY MAINTENANCE** – Lights display battery charge level and possible defects as well as indicating when the service level has been reached.
- **CERTIFIED QUALITY** – The Comap “A” certifies the origin and the compatibility of the tool. It is displayed on Comap fittings crimped using Novopress tools with inserts.

## NOVOPRESS ACO 102

### NOVOPRESS ACO 102 SET

NEW

#### ACO102

Novopress ACO 102 tool + charger + battery + mother jaw + box



ITEM No	Qty
44034-12	1

### MOTHER JAW

7022



ITEM No	Qty
7022020	1

### EMPTY BOX

7031



ITEM No	Qty
44684-50	1

### BATTERY 12V 3,0 AH

NEW

7032



ITEM No	Qty
17661-50	1

### BATTERY 12V 1,5AH

NEW

7033



ITEM No	Qty
17660-50	1

### CHARGER

NEW

7034



ITEM No	Qty
17662-50	1

# CRIMPING TOOLS

## NOVOPRESS ACO 202

The powerful new ACO 202 allows you to crimp a wide range of materials, including multilayer, PEX, copper, stainless steel and carbon steel. It is suitable even for big dimensions, using a mother jaw and inserts for diameters up to 32mm and monobloc jaws and collars for bigger diameters. Its state-of-the-art technology gives you optimal quality and setting reliability. The new Li-Ion battery adds extra efficiency and endurance.

### TECHNICAL CHARACTERISTICS

Power consumption	450W
Nominal force	32kN
Height	125mm
Length	408mm with 7232 battery
Width	80mm
Net weight	3.3kg (with battery)
Compression range	Plastic: up to 63mm diameter Stainless steel: up to 54mm diameter
Temperature range during operation	-10°C to +50°C
Crimping cycle time	7 sec

### BENEFITS

- **MULTICRIMPING** – One single mother jaw for crimping copper, PEX, MultiSKIN, Cu/PERT, carbon steel and stainless steel.
- **RELIABILITY** – Constant control of every aspect of crimping, including a load indicator, jaw lock indicator, electronic sensors, crimping failure indicator and sound alarm.
- **CONVENIENCE** – An excellent balance of weight, power and ergonomics. The tool weighs only 3.3kg with battery and features a new 'Soft Grip' handle.
- **AUTONOMY** – Thanks to the Lithium Ion battery, the tool is both lightweight and efficient. Up to 110 press cycles can be performed with a fully charged battery.
- **EASY MAINTENANCE** – The logbook allows quick and reliable servicing during an annual check or if the tool is damaged. Maintenance is simple using approved service points.

## NOVOPRESS ACO 202

### NOVOPRESS ACO202 SET

#### ACO202

Novopress ACO 202 tool + charger + battery + mother jaw + box



ITEM No	Qty
J111003001	1

### MOTHER JAW

#### 70221



ITEM No	Qty
7022000	1

### V PROFILE MONOBLOC JAW

#### 70251

Ø 35 for copper



Size	ITEM No	Qty
35	7025035	1

### M PROFILE MONOBLOC JAW

#### 7026

Ø 35 for stainless steel and carbon



Size	ITEM No	Qty
35	43592-50	1

### COLLAR ADAPTER FOR ACO 202

#### 7039

Collar adapter for Ø 40 - 50 - 63 MultiSKIN and Ø 42 - 54 Copper, Stainless Steel and carbon



ITEM No	Qty
J240001001	1

### 18 V 1,5A BATTERY

#### 7230



ITEM No	Qty
J260001001	1

### CHARGER

#### 7231



ITEM No	Qty
J270001001	1

### EMPTY BOX

#### 7232



ITEM No	Qty
J280001001	1

# CRIMPING TOOLS

## NOVOPRESS ECO 301

The ECO 301 XXL is the most powerful tool in the Novopress range and is suitable for sizes above 54mm. This top quality tool features electronic safety equipment for guaranteed reliability. This includes sound and visual failure indicators and a detector for jaw microprocessor controlled effort.

### TECHNICAL CHARACTERISTICS

Power consumption	560W
Nominal force	45kN
Height	110mm
Length	420mm
Width	85mm
Net weight	5kg
Compression range	From 35 to 108mm
Crimping cycle time	Between 6 and 10 seconds

### BENEFITS

- **XXL** – Available with monobloc jaws and collars to crimp diameters up to 108mm.
- **MULTICRIMPING** – The ECO 301 is suitable for copper, carbon steel, stainless steel and multilayer for larger diameters.
- **RELIABILITY** – Hi-tech dependability thanks to superior manufacturing quality and electronic control devices.
- **CONVENIENCE** – Excellent ergonomics with ‘central catch’ makes the ECO 301 extremely handy.
- **EFFICIENCY** – 230V power supply allows continuous work even on the largest diameters.
- **EASY MAINTENANCE** – Maintenance is simple using service points approved by Novopress and Comap.



## NOVOPRESS ECO 301

### NOVOPRESS ECO 301 SET

#### ECO301

Novopress ECO 301 + box (no jaw included)



ITEM No	Qty
37562-50	1

### M MONOBLOC JAW

#### 7142

∅ 35 for stainless steel and carbon



ITEM No	Qty
41702-50	1

### COLLAR ADAPTER FOR ECO 301

#### ZB303

Collar adapter for ∅ 40 - 50 - 63 MultiSKIN and ∅ 42 - 54 Copper, Stainless Steel and carbon



ITEM No	Qty
44266-50	1

### COLLAR ADAPTER FOR ECO 301

#### ZB323

Collar adapter for ∅ 76,1 - 88,9 - 108 (first step) for copper, stainless steel, and carbon



ITEM No	Qty
44374-50	1

### COLLAR ADAPTER FOR ECO 301

#### ZB324

Collar adapter for ∅ 108 (second step) for copper, stainless steel, and carbon



Size	ITEM No	Qty
108	44375-50	1

### SET WITH M PROFILE COLLAR

#### 7302

Collars M profile (∅ 76,1 and 88,9mm) + adapter + box



ITEM No	Qty
44018-50	1

### SET WITH M PROFILE COLLAR

#### 7303

Collars M profile (∅ 42 and 54mm) + adapter + box



ITEM No	Qty
44024-50	1

### SET WITH M PROFILE COLLAR

#### 7304

Collar M profile (∅ 108mm) + adapter + box (second step)



ITEM No	Qty
44019-50	1

**EMPTY BOX**

**7130**



ITEM No	Qty
36057-50	1

**REMS JAWS**

**V PROFILE JAWS**

**5000**

for REMS AKKUPress, POWERPress and ECOPress



Size	ITEM No	Qty
12	5000012	1
14	5000014	1
15	5000015	1
16	5000016	1
18	5000018	1
22	5000022	1
28	5000028	1
35	5000035	1
42	5000042	1
54	5000054	1

**TH PROFILE JAWS**

**7012**

for REMS AKKUPress, POWERPress and ECOPress



Size	ITEM No	Qty
14	7012014N	1
16	7012016N	1
18	7012018N	1
20	7012020N	1
26	7012026N	1
32	7012032L	1
40	7012043S	1
50	7012050	1
63	7012063	1

**MINI KLAUKE JAWS**

**V PROFILE JAWS**

**7057**

for Mini KLAUKE (MAP2, MAP2L)



Size	ITEM No	Qty
12	SBM12VN	1
14	SBM14VN	1
15	SBM15VN	1
16	SBM16VN	1
18	SBM18VN	1
22	SBM22VN	1
28	SBM28VN	1

**TH PROFILE JAWS**

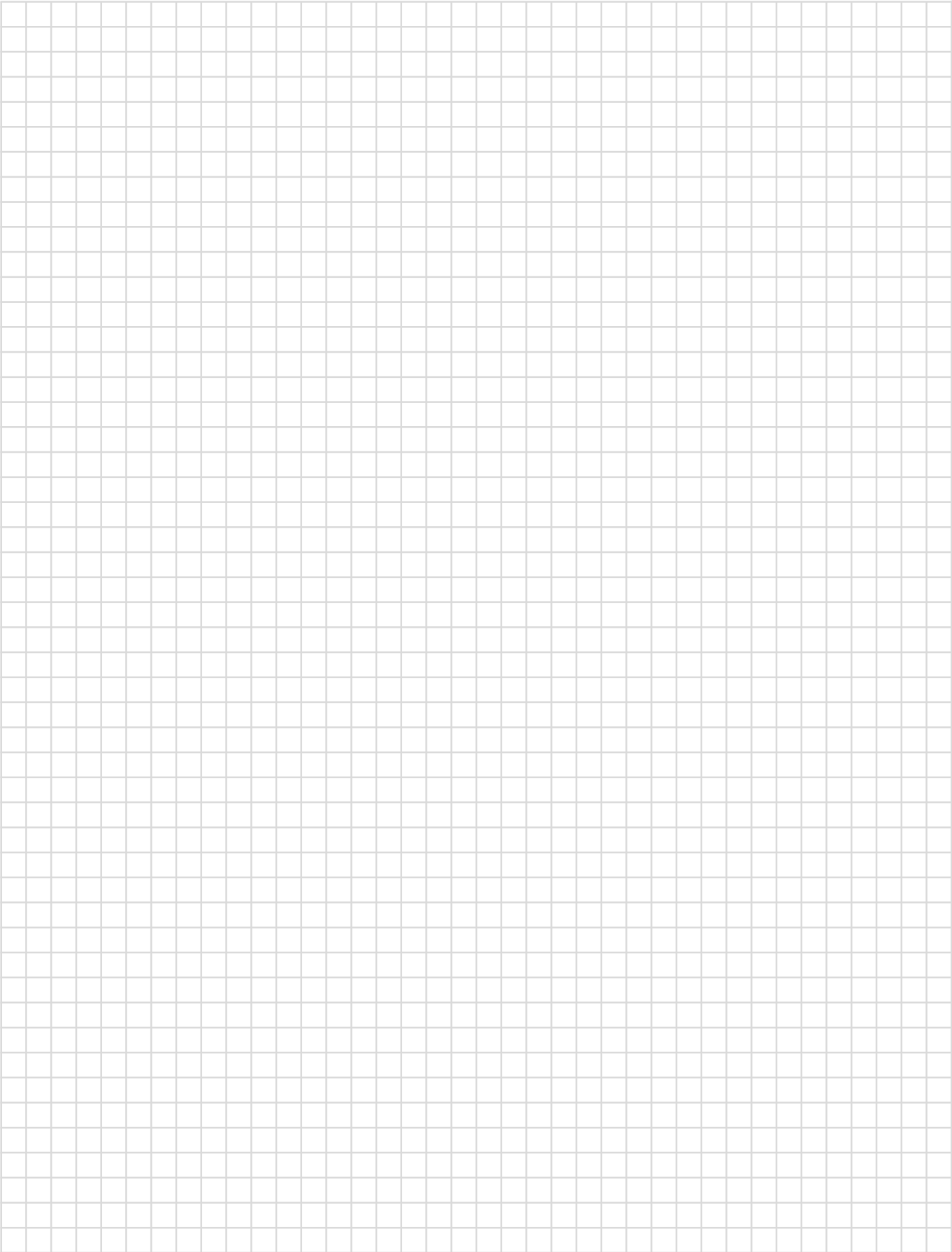
**7056**

for Mini KLAUKE (MAP2, MAP2L)



Size	ITEM No	Qty
14	7056114	1
16	7056116	1
18	7056118	1
20	7056120	1
26	7056126	1
32	7056132	1

# NOTES





# CRIMPING TOOLS

	Copper	Stainless steel	Carbon steel	Stainless steel	Carbon steel	PEX	MultiSKIN	
	SUDOPress	SUDOPress	SUDOPress	XPress	XPress	PEXPress	SKINPress	
	V	V	V	M	M	CO	TH/THL	TH/THL
	INSERT S Ø12-14 15-16-18 22-28	INSERT S Ø12-14 15-16-18 22-28	INSERT S Ø12-14 15-16-18 22-28	INSERT S Ø12-14 15-16-18 22-28	INSERT S Ø12-14 15-16-18 22-28	INSERT S Ø12-14 15-16-18 22-28	INSERT S Ø12-14 15-16-18 22-28	INSERT S Ø12-14 15-16-18 22-28
MOTHER JAW + INSERTS	ACO 102 ACO 202	ACO 102 ACO 202	ACO 102 ACO 202	ACO 102 ACO 202	ACO 102 ACO 202	ACO 102 ACO 202	ACO 102 ACO	ACO 102 ACO 202
	Ø35	Ø35	Ø35	Ø35	-	-	-	-
MONOBLOC JAW	ACO 202 ECO 301	ACO 202 ECO 301	ACO 202 ECO 301	ACO 202 ECO 301	-	-	-	-
	COLLAR S Ø42-54	COLLAR S Ø42-54	COLLAR S Ø42-54	CHAINS Ø42-54-76.1-88.9- 108	CHAINS Ø42-54-76.1-88.9- 108	-	CHAINS Ø42-54-76-63	-
ADAPTER + COLLARS	ACO 202 ECO 301	ACO 20 ECO 301	ACO 202 ECO 301	ACO 202 ECO 301	ACO 202 ECO 301	-	ACO 202 ECO 301	-

## Crimping with inserts and mother jaw

- 1 Fix the mother jaw with the axis.
- 2 Fit the insert until the security stop.
- 3 Turn the tool on.
- 4 Crimp until the cycle has been completed.



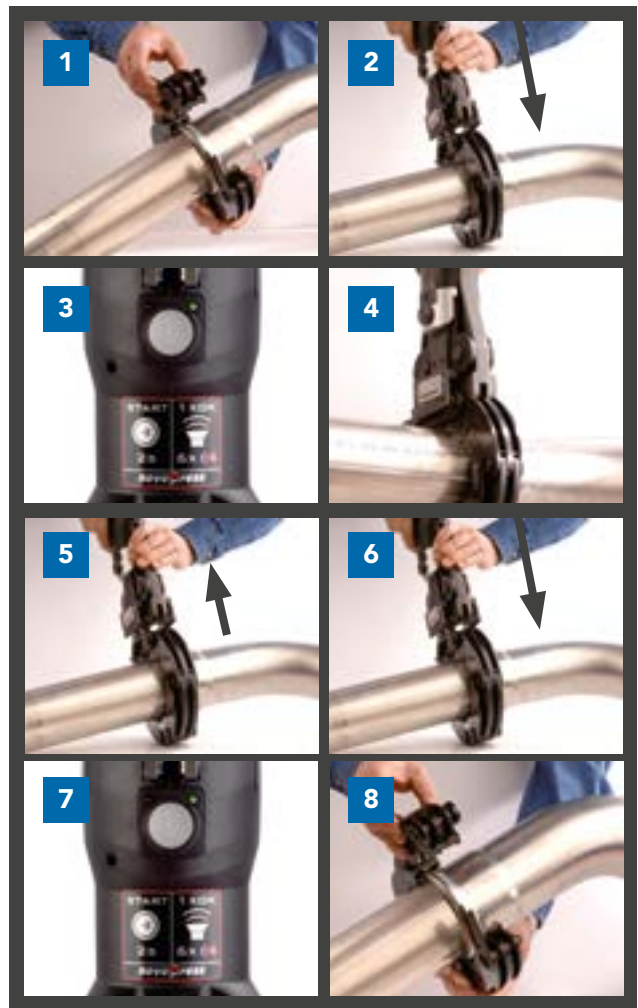
## Crimping with collar and adapter

- 1 Fix the collar around the fitting.
- 2 Fit the adapter to the collar until the security stop.
- 3 Position the tool. Turn the tool on.
- 4 Crimp until the cycle has been completed.



## Crimping for diameter 108 mm

- 1 Place the Ø 108 collar around the fitting.
- 2 Fix the first adapter ZB323 to the collar.
- 3 Turn the tool on.
- 4 Crimp until the cycle has been completed.
- 5 Remove the adapter from the collar but leave the collar on.
- 6 Fix the second adapter ZB324 on the other side of the collar.
- 7 Turn the tool on and crimp until the cycle has been completed.
- 8 Remove the adapter and then the collar. The fitting is crimped!





# Push System

## Easy, fast and high-performing

The innovative Tectite® system combines push-fit technology with a range of components designed to be used 'end to end' in plumbing and heating systems. It is available in several materials, including brass, copper, gunmetal and carbon steel. Tectite can be used in conjunction with plastic, copper or carbon steel pipes. With well over 200 million joints already in service, it is a tried and tested system which offers professionals a reliable, high performance solution.

### APPLICATIONS

Tectite systems can be used in a wide variety of domestic and commercial applications including:

- All above-ground hot and cold water services
- Heating and chilled water services (potable/non-potable)
- Low temperature hot water and heating
- Small bore or mini bore central heating systems
- Pressurised, vented and unvented heating systems

### 3 RANGES FOR TOTAL VERSATILITY

**TECTITE CLASSIC:** DZR brass system designed for use on a wide range of pipe types including copper, PEX and PB. Tectite Classic is demountable.

**TECTITE SPRINT:** Copper system ideal for use with copper pipes. Tectite Sprint is tamper-proof.

**TECTITE CARBON:** Carbon steel system designed for use on domestic and commercial sealed systems. Tectite Carbon is tamper-proof.

Tectite Classic	136
Tectite Sprint	142
Tectite Carbon	148

# Tectite

## TECTITE CLASSIC FOR WATER APPLICATIONS

This is the original Tectite fitting and it has been proven in the field for more than 15 years. Used for fast, efficient heat-free jointing, it offers a visually appealing, low profile design. It can be easily installed in confined spaces and is demountable.



### APPLICATIONS

Tectite Classic is specially designed for sanitary and heating applications. It should only be used with Comap PEX pipes or EN1057 copper pipes.

Application	Pipe compatibility	Temperature	Pressure
Sanitary and heating	Copper	-24°C	16 bar
		30°C	16 bar
		65°C	10 bar
		95°C	6 bar
	PEX / PB (insert needed)	-20°C	12 bar
		20°C	12 bar
		65°C	6 bar
		92°C	3 bar



PUSH



EUROPEAN PRODUCTION

### BENEFITS

- Heat-free system – no flame needed.
- Safe – no fumes created.
- Time-saving – faster to install than any other fitting.
- No tools needed.

### FEATURES

- Demountable.
- Made from gun metal or brass.
- Available in sizes from 10 to 54mm.
- Can be used with copper tubes, PB and PEX pipes (with inserts) or chrome plated copper tubes.

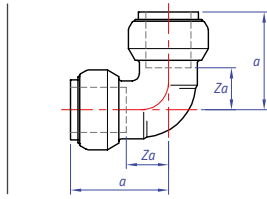
Certifications:





## 90° ELBOW FEMALE-FEMALE

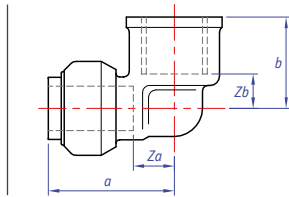
T090



Size	ITEM No	a	Za	Qty
10	T09010	30	6	10
12	T09012	31	7	10
14	T09014	33	9	10
15	T09015	33	9	10
16	T09016	34	10	10
18	T09018	40	12	5
22	T09022	40	12	5
28	T09028	49	17	5
35	T09035	76	19	1
42	T09042	85	23	1
54	T09054	98	29	1

## 90° ELBOW FEMALE TO SCREW - FEMALE

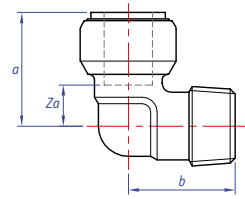
T090G



Size	ITEM No	a	Za	b	Zb	Qty
12-3/8	T090G1238	34	10	24	13	10
12-1/2	T090G1212	34	10	25	11	10
14-1/2	T090G1412	34	10	25	11	10
15-1/2	T090G1512	34	10	25	11	10
16-1/2	T090G1612	34	9	25	12	10
18-1/2	T090G1812	36	12	25	11	5
18-3/4	T090G1834	40	16	33	18	5
22-3/4	T090G2234	42	13	33	18	5
28-1"	T090G281	49	17	37	21	2

## 90° ELBOW MALE TO SCREW - FEMALE

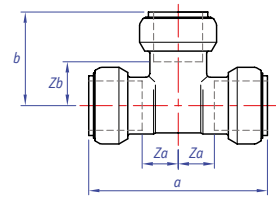
T092G



Size	ITEM No	a	Za	b	Qty
12-1/2	T092G1212	33	7	29	10
14-1/2	T092G1412	33	9	29	10
15-1/2	T092G1512	33	9	29	10
18-1/2	T092G1812	34	10	29	5
18-3/4	T092G1834	34	10	36	5

## EQUAL TEE

T130



Size	ITEM No	a	Za	b	Zb	Qty
10	T13010	59	6	30	6	10
12	T13012	62	7	31	7	10
14	T13014	65	8	33	8	10
15	T13015	65	9	34	9	10
16	T13016	68	10	34	10	10
18	T13018	68	10	34	10	5
20	T13020	80	14	41	12	5
22	T13022	81	12	41	12	5
28	T13028	97	16	49	15	2
35	T13035	152	20	76	20	1
42	T13042	170	23	85	23	1
54	T13054	196	29	98	29	1

## \* NOTE

### TECTITE INSERT



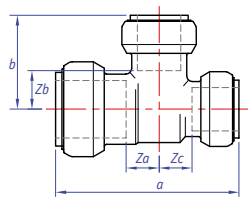
Tectite Classic fittings are suitable for PEX pipes. To use Tectite with PEX pipe, it's mandatory to use an insert in order to strengthen the pipe.

Tectite insert

141

## REDUCED TEE

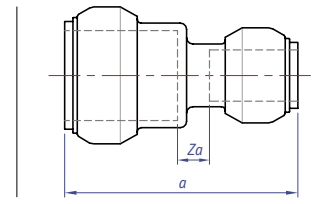
### TG130R



Size (S1-S2-S3)	ITEM No	a	Za	b	Zb	Zc	Qty
14-14-12	T130141214	62	8	33	9	8	10
15-15-12	T130151215	63	8	33	9	8	10
16-14-14	T130161414	66	10	33	9	9	10
16-16-12	T130161216	63	8	33	9	8	10
16-16-14	T130161416	67	10	34	10	10	10
18-18-14	T130181418	67	10	35	11	10	5
20-16-16	T130201616	38	9	36	12	9	5
20-20-16	T130201620	75	9	36	12	9	5
22-15-15	T130221515	73	9	36	13	10	5
22-15-22	T130222215	78	9	41	13	17	5
22-18-18	T130221818	71	9	36	12	11	5
22-18-22	T130222218	78	9	41	13	17	5
22-22-14	T130221422	75	9	38	14	9	5
22-22-15	T130221522	75	9	38	14	9	5
22-22-16	T130221622	75	9	38	14	9	5
22-22-18	T130221822	78	10	36	12	10	5
28-15-28	T130282815	88	12	48	16	25	2
28-18-18	T130281818	80	10	41	17	10	2
28-22-22	T130282222	89	15	44	16	15	2
28-22-28	T130282822	92	11	48	15	20	2
28-28-15	T130281528	84	10	40	16	10	2
28-28-18	T130281828	87	10	39	15	10	2
28-28-22	T130282228	91	12	44	15	12	2
35-35-15	T130351535	135	11	67	44	11	1
35-35-22	T130352235	148	17	74	45	17	1
35-35-28	T130352835	148	17	78	46	17	1
42-42-15	T130421542	159	18	82	58	18	1
42-42-22	T130422242	159	18	76	47	18	1
42-42-28	T130422842	159	18	81	49	18	1
54-54-15	T130541554	175	19	89	65	19	1
54-54-22	T130542254	175	19	89	65	19	1
54-54-28	T130542854	175	19	87	55	19	1
54-35-54	T130543554	177	21	86	29	21	1

## REDUCED COUPLING FEMALE-FEMALE

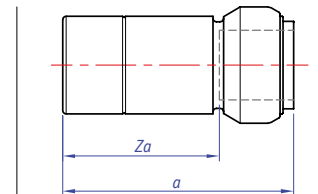
### T240



Size	ITEM No	a	Za	Qty
12-10	T2401210	49	1	10
14-12	T2401412	49	1	10
15-12	T2401512	49	1	10
16-12	T2401612	49	1	10
16-14	T2401614	49	1	10
18-15	T2401815	49	1	5
20-18	T2402018	54	1	5
22-15	T2402215	54	1	5
22-18	T2402218	54	1	5
28-22	T2402822	62	1	2

## REDUCER MALE-FEMALE

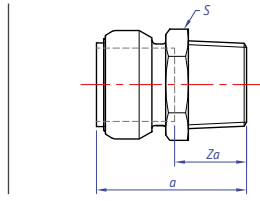
### T243



Size M-F	ITEM No	a	Za	Qty
12-10	T2431210	45	21	10
15-12	T2431512	46	22	10
22-12	T2432212	52	28	5
22-15	T2432215	52	28	5
22-18	T2432218	52	28	5
28-15	T2432815	55	31	5
28-18	T2432818	55	31	5
28-22	T2432822	56	27	5
35-15	T2433515	81	57	1
35-22	T2433522	83	54	1
35-28	T2433528	87	58	1
42-15	T2434215	86	62	1
42-22	T2434222	88	59	1
42-28	T2434228	92	60	1
42-35	T2434235	116	59	1
54-15	T2435415	94	70	1
54-22	T2435422	95	66	1
54-28	T2435428	100	68	1
54-35	T2435435	124	67	1
54-42	T2435442	129	67	1

## COUPLING MALE TO SCREW - FEMALE

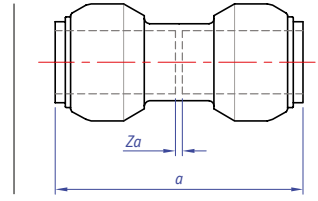
### T243G



Size	ITEM No	a	Za	S	Qty
10-3/8	T243G1038	39	15	22	10
10-1/2	T243G1012	42	18	23	10
12-3/8	T243G1238	39	15	22	10
12-1/2	T243G1212	40	16	25	10
14-3/8	T243G1438	37	13	22	10
14-1/2	T243G1412	37	14	22	10
15-3/8	T243G1538	39	16	20	10
15-1/2	T243G1512	40	16	22	10
16-3/8	T243G1638	37	13	25	10
16-1/2	T243G1612	38	14	24	10
18-1/2	T243G1812	43	19	24	5
18-3/4	T243G1834	43	19	28	5
22-3/4	T243G2234	46	18	28	5
28-1"	T243G281	53	21	37	2
35-1"1/4	T243G35114	83	26	43	1
42-1"1/2	T243G42112	88	26	50	1
54-2"	T243G542	100	31	61	1

## SLIP COUPLING

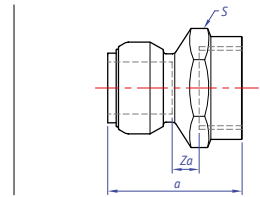
### T270S



Size	ITEM No	a	Za	Qty
12	T270S12	49	1	10
14	T270S14	49	1	10
15	T270S15	49	1	10
16	T270S16	49	1	10
18	T270S18	49	1	5
22	T270S22	59	1	5
28	T270S28	65	1	5
35	T270S35	115	1	1
42	T270S42	125	1	1
54	T270S54	139	1	1

## COUPLING FEMALE TO SCREW - FEMALE

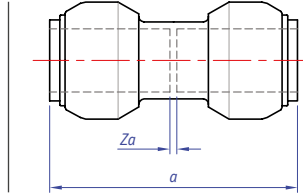
### T270G



Size	ITEM No	a	Za	S	Qty
12-3/8	T270G1238	39	2	25	10
12-1/2	T270G1212	40	2	25	10
14-3/8	T270G1438	39	2	22	10
14-1/2	T270G1412	40	2	25	10
15-3/8	T270G1538	39	2	22	10
15-1/2	T270G1512	40	3	25	10
16-1/2	T270G1612	40	1	25	5
18-1/2	T270G1812	40	3	25	5
18-3/4	T270G1834	43	3	32	5
22-3/4	T270G2234	47	3	32	5
22-1"	T270G221	49	2	38	5
35-1"1/4	T270G35114	84	5	48	1
42-1"1/2	T270G42112	89	4	54	1
54-2"	T270G542	101	4	66	1

## COUPLING FEMALE-FEMALE

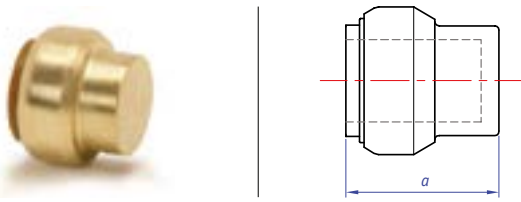
### T270



Size	ITEM No	a	Za	Qty
10	T27010	49	1	10
12	T27012	49	1	10
14	T27014	49	1	10
15	T27015	49	1	10
16	T27016	49	1	10
18	T27018	49	1	5
20	T27020	59	1	5
22	T27022	59	1	5
28	T27028	65	1	5
35	T27035	115	1	1
42	T27042	125	1	1
54	T27054	139	1	1

## STOP END FEMALE

T301



Size	ITEM No	a	Qty
10	T30110	24	10
12	T30112	24	10
14	T30114	24	10
15	T30115	24	10
16	T30116	24	10
18	T30118	24	5
20	T30120	29	5
22	T30122	29	5
28	T30128	32	5
35	T30135	57	1
42	T30142	62	1
54	T30154	69	1

## TECTITE FLEXIBLE - FEMALE OUTFLOW

T651



Size	ITEM No	Qty
10-3/8	21000	10
12-3/8	21009	10
14-3/8	21018	10

## TECTITE FLEXIBLE - MALE OUTFLOW

T652



Size	ITEM No	Qty
10-3/8	21002	10
12-3/8	21011	10
14-3/8	21020	10

## DISCONNECTING PLIER

T305



Size	ITEM No	Qty
10	30510	1
12	30512	1
14	30514	1
15	30515	1
16	30516	1
18	30518	1
20	30520	1
22	30522	1
28	30528	1

## DISCONNECTING CLIP

T509



Size	ITEM No	Qty
10	40510	5
12	40512	5
14	40514	5
15	40515	5
16	40516	5
18	40518	5
20	40520	5
22	40522	5
28	40528	2

## DEMOUNTING TOOL

T505



Size	ITEM No	Qty
35-54	5053554	1

## INSERT PER

T510



Size	ITEM No	Qty
12	50512	10
16	50516	10
18	50518	10
20	50520	10

# Tectite

## TECTITE SPRINT FOR WATER APPLICATIONS

Tectite Sprint non-demountable fittings are ideal for fast and efficient heat-free jointing. They offer a visually appealing, low profile design which can be easily installed in confined spaces. They are also easy to insulate.



### APPLICATIONS

Tectite Sprint is specially designed for sanitary and heating applications. It should only be used with Comap PEX pipes or EN1057 copper pipes.

Application	Pipe compatibility	Temperature	Pressure
Sanitary and heating	Copper	-24°C	16 bar
		30°C	16 bar
		65°C	10 bar
		114°C	10 bar
	PEX / PB (insert needed)	-20°C	12 bar
		20°C	12 bar
		65°C	6 bar
		92°C	3 bar



PUSH



EUROPEAN  
PRODUCTION

### BENEFITS

- Heat-free system – no flame needed.
- Safe – no fumes created.
- Time-saving – faster to install than any other fitting.
- No tools needed.

### FEATURES

- Made from copper and brass.
- Available in sizes from 10 to 28mm.
- Can be used with copper tubes, PB and PEX pipes (with inserts) or chrome plated copper tubes.

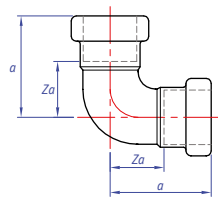
Certifications:

**WRAS**  
Water Regulations Authority Scheme



## 90° ELBOW FEMALE-FEMALE

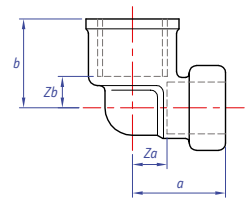
### TS090



Size	ITEM No	a	Za	Qty
10	D171023001	28	12	10
12	D171001001	32	15,5	10
15	D171024001	35	18	10
16	D171002001	37	21,5	10
18	D171003001	37,5	22	5
22	D171025001	44,5	26,5	5
28	D171026001	52,5	33,5	5

## 90° ELBOW FEMALE TO SCREW - FEMALE

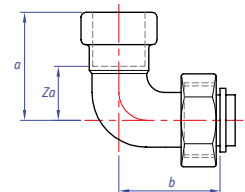
### TS090G



Size	ITEM No	a	Za	b	Zb	Qty
15-1/2	D171037001	27	10	25	10	10
16-1/2	D171015001	25	9,5	26,5	14	10

## BENT VALVE CONNECTOR

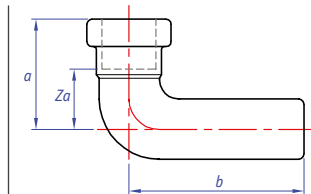
### TS002AG



Size	ITEM No	a	Za	b	Qty
10-1/2	D171063001	36	20	24	10
12-1/2	D171004001	32,5	16	24	10
15-1/2	D171064001	37	20	24	10
18-1/2	D171005001	40,5	24	32	5

## 90° ELBOW MALE-FEMALE

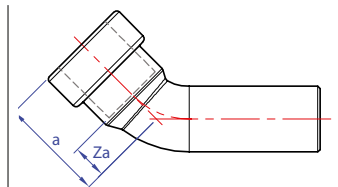
### TS092



Size	ITEM No	a	Za	b	Qty
10	D171027001	28	12	44	10
12	D171006001	32,5	16,5	33,5	10
14	D171028001	35	18	35	10
16	D171007001	37	21,5	37	10
18	D171008001	37,5	22	42,5	5
22	D171029001	52,5	33,5	50	5

## 45° ELBOW MALE-FEMALE

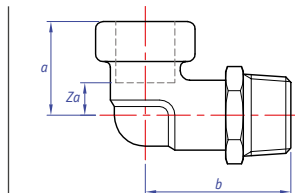
### TS040



Size	ITEM No	a	Za	Qty
12	D171009001	27,5	10	10
15	D171033001	28	12	10
16	D171010001	28,5	12,5	10
18	D171011001	30,5	14	5
22	D171031001	34	17	5
28	D171032001	40	21,5	5

## 90° ELBOW FEMALE TO SCREW-MALE

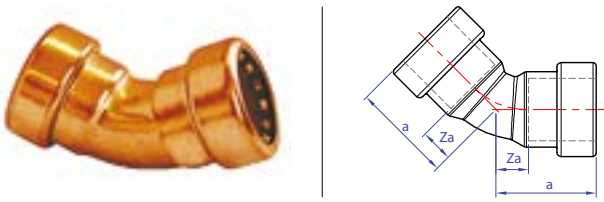
### TS092G



Size	ITEM No	a	Za	b	Qty
15-1/2	D171036001	25,5	8,5	29	10

### 45° ELBOW FEMALE-FEMALE

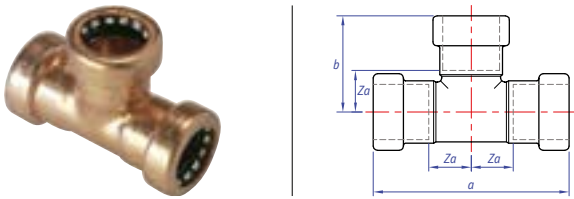
#### TS041



Size	ITEM No	a	Za	Qty
12	D171012001	26,5	10	10
15	D171030001	27,5	12	10
16	D171013001	28	12,5	10
18	D171014001	33	14	5
22	D171034001	34	17	5
28	D171035001	40	21,5	5

### EQUAL TEE

#### TS130



Size	ITEM No	a	Za	b	Qty
10	D171039001	46,5	7	23	10
12	D171016001	52	9	25,5	10
15	D171040001	52,5	9	26	10
16	D171017001	59,5	14	29,7	10
18	D171018001	57,5	13	28,5	5
22	D171041001	62,5	13	31	5
28	D171042001	72,5	17	36	2

## \* NOTE

### TECTITE INSERT

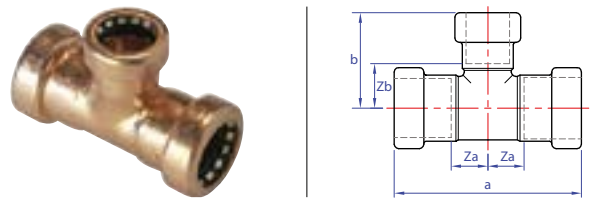


Tectite insert

Tectite Sprint fittings are suitable for PEX pipes. To use Tectite with PEX pipe, it's mandatory to use an insert in order to strengthen the pipe.

### TEE REDUCED BRANCH

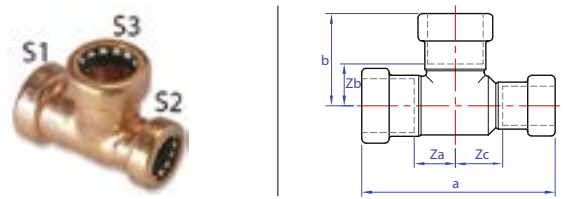
#### TS130R



Size (S1-S2-S3)	ITEM No	a	Za	b	Zb	Qty
15-15-10	D171043001	48	8,5	26,5	10	10
15-15-12	D171044001	49	8,5	27,5	11	10
16-12-16	D171019001	49	8,5	27,5	11	10
18-12-18	D171020001	50	8	29,5	13	5
18-18-15	D171045001	54	10	27,5	12	5
22-22-10	D171046001	50	7	29,5	13,5	5
22-22-15	D171047001	54	9	30,5	13,5	5
22-22-16	D171048001	60	12,5	31,5	16	5
22-22-18	D171049001	60	12,5	31,5	15	5
28-28-15	D171050001	56	12,5	34,5	15	2
28-28-18	D1710512001	63	12,5	34,5	18	2
28-28-22	D171052001	65	13,5	35,5	17,5	2

### TEE ONE END REDUCED

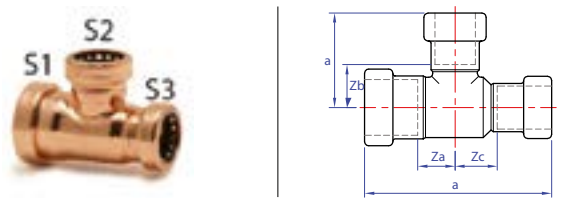
#### TS130R2



Size (S1-S2-S3)	ITEM No	a	Za	b	Zb	Zc	Qty
15-12-15	D171053001	60	12,5	28	15,5	12,5	10
18-18-12	D171021001	65	13	31,5	19	15	5
18-15-18	D171054001	64	13	30,5	18	14	5
22-15-22	D171055001	68,5	13,5	31,5	13,5	20	5
22-18-22	D171056001	68,5	14	32,5	14	20	5
28-15-28	D171057001	77,5	17,5	36,5	17,5	24	2
28-22-28	D171058001	78,5	17,5	36,5	17,5	24	2

### TEE ONE END AND BRANCH REDUCED

#### TS130R3

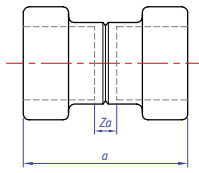


Size (S1-S2-S3)	ITEM No	a	Za	b	Zb	Zc	Qty
22-15-15	D171059001	63,5	12	30	13	13,5	5
22-18-18	D171060001	65	13,5	33	16,5	17,5	5
28-18-18	D171061001	73	13,5	33,5	20	24	2
28-22-22	D171062001	70	17,5	34	15	15,5	2



## COUPLING FEMALE TO SCREW - FEMALE

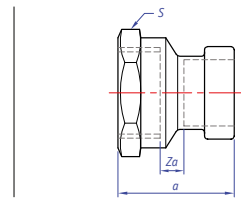
TS270



Size	ITEM No	a	Za	Qty
10	D17203001	34	2	10
12	D172007001	36	2	10
15	D172031001	36	2	10
16	D172008001	36	2	10
18	D172009001	37	2	5
22	D172032001	38	2	5
28	D172033001	40	2	5

## STRAIGHT CONNECTOR FEMALE TO SCREW-FEMALE

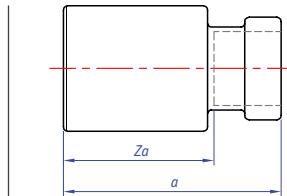
TS270G



Size	ITEM No	a	Za	S	Qty
10-1/2	D172039001	35,5	6,5	25	10
12-1/2	D172010001	35,5	6,5	25	10
15-1/2	D172040001	34	17	24,5	10
16-1/2	D172011001	35	6,5	25	5
18-1/2	D172012001	35,5	6	25	5
22-3/4	D172041001	37	19	30	5
28-1"	D172042001	41	3	38	2

## REDUCER MALE-FEMALE

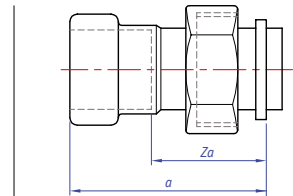
TS243



Size M-F	ITEM No	a	Za	Qty
15-10	D172048001	37	21	10
15-12	D172049001	37	21,5	10
18-15	D172050001	39	23,5	5
22-15	D172051001	39	22	5
28-15	D172052001	43	26	5
28-22	D172053001	44	26	5

## FLARED NIPPLE RIGHT UNION

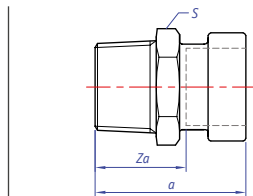
TS359GL



Size	ITEM No	a	Za	Qty
10-1/2	D172058001	33	17	10
12-3/8	D172013001	34,5	18	10
12-1/2	D172014001	36,5	20	10
15-1/2	D172059001	34	17	10
16-1/2	D172015001	36	20,5	10
16-3/4	D172016001	35,5	20	10
18,5	D172017001	36	20	5
18-3/4	D172018001	36	20	5
22-3/4	D172061001	38,5	20,5	5

## STRAIGHT CONNECTOR MALE TO SCREW-FEMALE

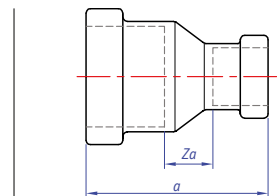
TS243G



Size	ITEM No	a	Za	S	Qty
10-3/8	D172043001	32	17	22	10
10-1/2	D172044001	34,5	19,5	22	10
12-1/2	D172004001	34,5	19	22	10
12-3/8	D172003001	32	16,5	22	10
15-1/2	D172045001	34	20	21	10
16-1/2	D172005001	35	19	22	10
18-3/4	D172006001	35,5	22	27	5
22-3/4	D172046001	37	21,5	26	5
28-1"	D172047001	41	24,5	32	2

## REDUCED COUPLING

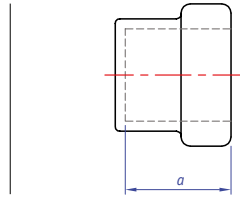
TS240



Size	ITEM No	a	Za	Qty
15-10	D172034001	41	8	10
15-12	D172035001	39	7	10
16-12	D172001001	40	7,5	10
18-15	D172036001	37,5	5,5	5
18-16	D172002001	37	5,5	5
22-15	D172037001	42	8	5
22-18	D172038001	41,5	7,5	5

**STOP END FEMALE**

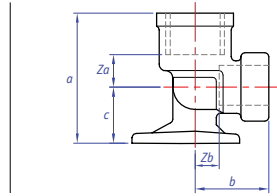
**TS301**



Size	ITEM No	a	Qty
10	D172054001	16	10
12	D172019001	18	10
15	D172055001	17	10
16	D172020001	17	10
18	D172021001	19	5
28	D172057001	19	5

**BACK PLATE ELBOW**

**TS471G**



Size	ITEM No	a	Za	b	Zb	c	Qty
12-1/2	D171038001	43	9,5	26	14	17	5
15-1/2	D171022001	41,5	10	27	10	17,5	5

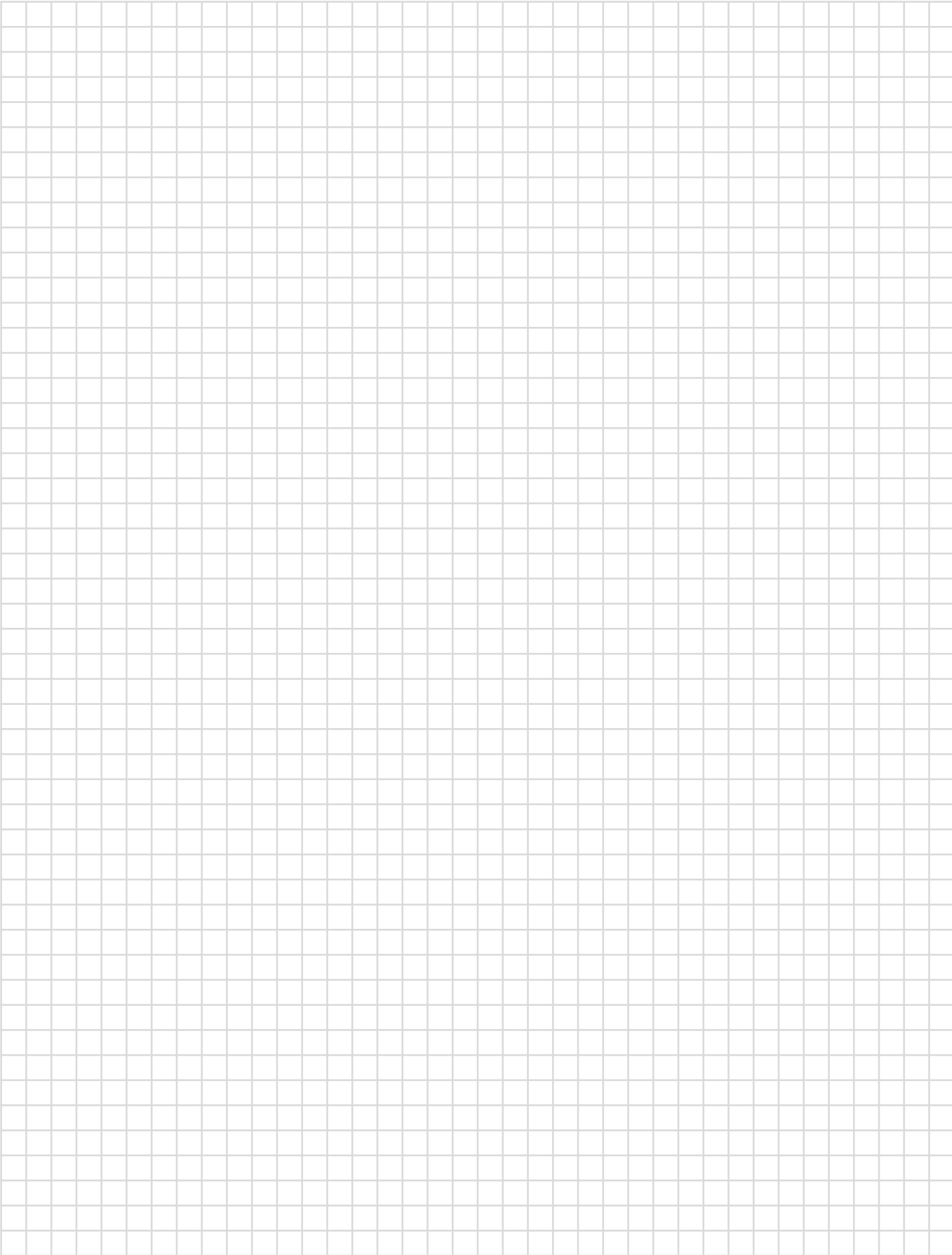
**DEBURRING / SCRIBE TOOL 10-28 MM**

**T115**



Size	ITEM No	Qty
10-28	D161008001	1

# NOTES



# Tectite

## TECTITE CARBON FOR HEATING APPLICATIONS

Tectite Carbon is the most recent addition to our Tectite range and is built on tried-and-tested technology. It combines a robust fitting and pipe solution in carbon steel. It is ideal for domestic and commercial sealed systems. Tectite Carbon provides professional installers with a lightweight and low profile solution.



### APPLICATIONS

Tectite Carbon for water applications is ideal for heating applications. It should only be used with Comap pipes.

Application	Pipe compatibility	Temperature	Pressure
Heating	Carbon Steel	-24°C	20 bar
		30°C	20 bar
		65°C	16 bar
		114°C	10 bar

*Carbon steel is not suitable for drinking water applications.*



PUSH



EUROPEAN  
PRODUCTION

### BENEFITS

- Heat-free system – no flame needed.
- Safe – no fumes created.
- Time-saving – faster to install than any other fitting.
- No tools needed.

### FEATURES

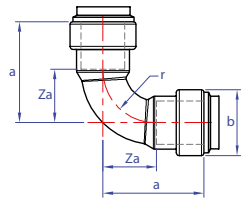
- Made from carbon steel.
- Available in sizes 15 to 54mm.
- Provides electrical continuity with integral earth strap.
- Designed for use with unvented closed circuit heating and chilled water services (closed loop).

Certifications:



## 90° ELBOW FEMALE - FEMALE

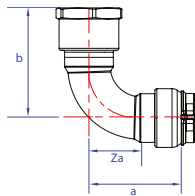
### TC090



Size	ITEM No	a	Za	b	r	Qty
15	76391TC	44	17	23	18	10
18	76392TC	49	21	26	22	10
22	76393TC	54	26	31	27	5
28	76394TC	65	35	38	34	5
35	76395TC	82	42	46	42	5
42	76396TC	93	51	55	50	1
54	76397TC	109	65	68	65	1

## 90° ELBOW MALE TO SCREW - FEMALE

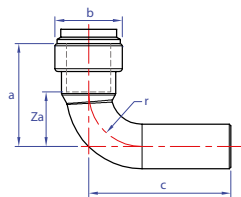
### TC090G



Size	ITEM No	a	Za	b	Qty
15-1/2	76426TC	44	17	43	10
18-1/2	76427TC	49	21	47	10
22-3/4	76429TC	54	26	54	10

## 90° ELBOW MALE - FEMALE

### TC092



Size	ITEM No	a	Za	b	c	r	Qty
15	76406TC	44	17	23	52	18	10
18	76407TC	49	21	26	52	22	10
22	76408TC	54	26	31	58	27	5
28	76409TC	65	35	38	68	34	5
35	76410TC	82	42	46	93	42	5
42	76411TC	93	51	55	105	50	1
54	76412TC	110	65	68	117	65	1

## RELATED PRODUCTS

### CARBON STEEL PIPES

To complete your Tectite Carbon system, choose from the Comap range of Carbon Steel pipes.



**SUDOPress Carbon Steel range:** Diameters from 12 to 54mm with red caps and SUDOPress marking.

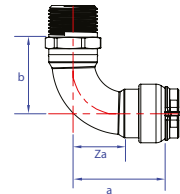
**XPress Carbon Steel range:** Diameters from 12 to 54mm with red caps and XPress marking.

Tolerances conform to EN 10305-3 standards. These pipes are available in bars, naked or protected with a layer of polypropylene.

SUDOPress Carbon Steel pipes	173
Xpress Carbon Steel pipes	173

## 90° ELBOW FEMALE TO SCREW - MALE

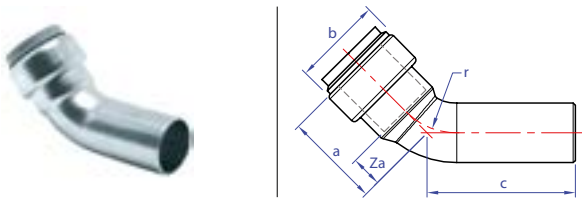
### TC092G



Size	ITEM No	a	Za	b	Qty
15-1/2	76416TC	44	17	43	10
18-1/2	76417TC	49	21	47	10
22-3/4	76418TC	54	26	54	5

### 45° ELBOW MALE - FEMALE

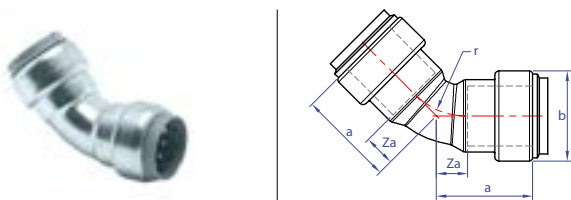
TC040



Size	ITEM No	a	Za	b	c	r	Qty
15	76456TC	34	7	23	37	18	10
18	76457TC	37	9	26	39	22	10
22	76458TC	39	11	31	42	27	5
28	76459TC	45	15	38	48	34	5
35	76460TC	57	17	46	68	42	5
42	76461TC	63	21	55	76	50	1
54	76462TC	71	26	68	86	65	1

### 45° ELBOW FEMALE - FEMALE

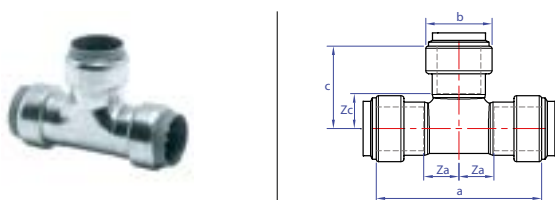
TC041



Size	ITEM No	a	Za	b	r	Qty
15	76441TC	34	7	23	18	10
18	76442TC	37	9	26	22	10
22	76443TC	39	11	31	27	5
28	76444TC	45	15	38	34	5
35	76445TC	57	17	46	42	5
42	76446TC	63	21	55	50	1
54	76447TC	71	26	6	65	1

### EQUAL TEE FEMALE

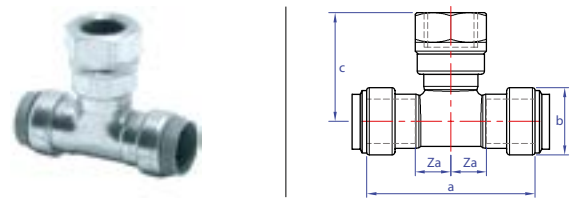
TC130



Size	ITEM No	a	Za	b	c	Zc	Qty
15	76467TC	84	14	26	41	13	10
18	76468TC	88	16	31	44	16	5
22	76469TC	102	21	38	50	2	2
28	76470TC	128	24	47	64	24	5
35	76471TC	138	27	55	70	28	1
42	76472TC	170	40	68	80	35	1
54	76466TC	78	12	23	39	12	10

### TEE FEMALE TO SCREW - FEMALE

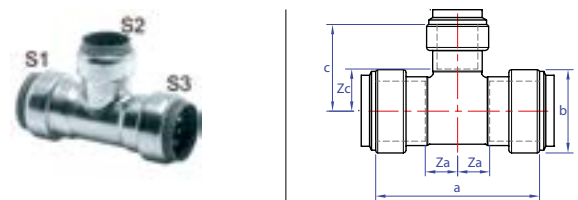
TC130G



Size	ITEM No	a	Za	b	c	Qty
15-1/2-15	76536TC	82	14	25	47	10
18-1/2-18	76537TC	84	14	29	52	10
22-1/2-22	76538TC	96	16	31	53	5
28-1/2-28	76539TC	98	19	41	59	2
35-1/2-35	76540TC	128	24	59	66	1
42-1/2-42	76541TC	155	27	79	63	1
54-1/2-54	76542TC	167	35	68	70	1

### REDUCED TEE FEMALE

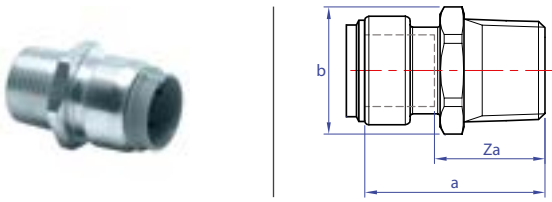
TC130R



Size (S1-S2-S3)	ITEM No	a	Za	b	c	Zc	Qty
18-15-18	76482TC	84	14	26	43	16	10
22-15-22	76483TC	96	20	31	44	17	5
22-18-22	76484TC	96	20	31	46	18	5
28-15-28	76485TC	102	21	38	48	21	2
28-18-28	76486TC	102	21	38	47	19	2
28-22-28	76487TC	102	21	38	48	20	2
35-15-35	76488TC	128	24	47	51	24	5
35-18-35	76489TC	128	24	47	52	24	5
35-22-35	76490TC	128	24	47	50	22	5
35-28-35	76491TC	128	24	47	55	25	5
42-22-42	76492TC	138	27	55	53	25	1
42-28-42	76493TC	138	27	55	57	27	1
42-35-42	76494TC	138	27	55	69	29	1
54-22-54	76495TC	170	40	68	59	31	1
54-28-54	76496TC	170	40	68	63	33	1
54-35-54	76497TC	170	40	68	75	35	1
54-42-54	76498TC	170	40	68	80	38	1

## STRAIGHT CONNECTOR MALE TO SCREW - MALE

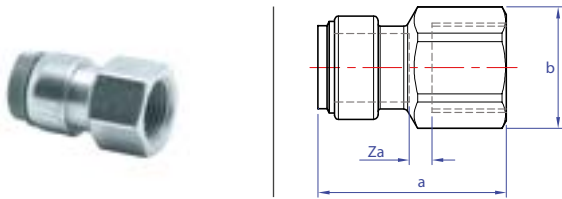
### TC243G



Size	ITEM No	a	Za	b	Qty
15-3/8	76348TC	43	16	22	10
15-1/2	76349TC	48	21	27	10
18-1/2	76350TC	50	22	30	10
18-3/4	76351TC	51	22	30	10
22-3/4	76352TC	52	24	36	5
28-1"	76353TC	56	26	46	5
35-1 1/4	76354TC	69	29	52	5
42-1 1/2	76355TC	72	30	63	1
54-2"	76356TC	79	34	78	1

## STRAIGHT CONNECTOR FEMALE TO SCREW - FEMALE

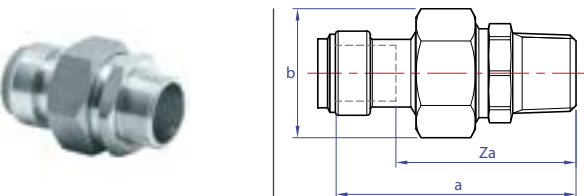
### TC270G



Size	ITEM No	a	Za	b	Qty
15-1/2	76336TC	48	3	27	10
18-1/2	76337TC	47	2	30	10
18-3/4	76338TC	50	3	34	10
22-3/4	76339TC	51	5	36	5
28-1"	76340TC	57	4	41	5
35-1 1/4	76341TC	72	5	48	1
42-1 1/2	76342TC	72	3	55	1

## RIGHT UNION

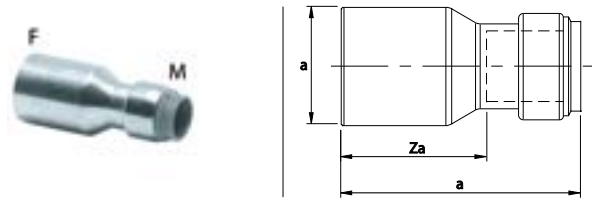
### TC331G



Size	ITEM No	a	Za	b	Qty
15-1/2	76571TC	80	53	32	10
18-1/2	76572TC	81	53	32	10
22-3/4	76573TC	87	59	38	5
28-1"	76574TC	95	65	48	2
35-1 1/4	76575TC	106	66	53	5
42-1 1/2	76576TC	113	71	67	1
54-2"	76577TC	133	88	67	1

## REDUCER MALE - FEMALE

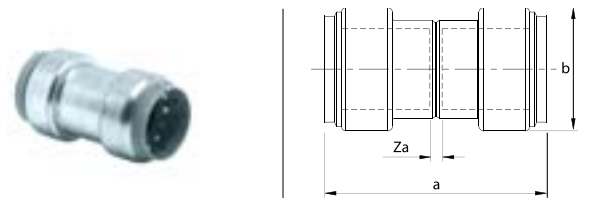
### TC243



Size M-F	ITEM No	a	Za	b	Qty
18-15	76361TC	52	25	18	10
22-15	76362TC	54	27	22	5
22-18	76363TC	58	30	22	5
28-15	76364TC	61	34	28	5
28-18	76365TC	60	32	28	5
28-22	76366TC	60	32	28	5
35-15	76367TC	75	48	35	5
35-18	76368TC	75	47	35	5
35-22	76369TC	71	43	35	5
35-28	76370TC	73	43	35	5
42-22	76371TC	81	53	35	1
42-28	76372TC	78	48	42	1
42-35	76373TC	86	46	42	1
54-22	76374TC	93	65	42	1
54-28	76375TC	91	61	54	1
54-35	76376TC	94	54	54	1
54-42	76377TC	96	54	54	1

## COUPLING FEMALE

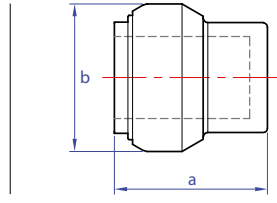
### TC270



Size	ITEM No	a	Za	b	Qty
15	76301TC	57	3	23	10
18	76302TC	60	4	26	10
22	76303TC	60	4	31	5
28	76304TC	66	6	38	5
35	76305TC	87	7	46	5
42	76306TC	91	7	55	1
54	76307TC	17	7	67	1

**STOP END - STAINLESS STEEL**

**TI301**



Size	ITEM No	a	Qty
15	25866TI	24	10
18	25870TI	24	5
22	25874TI	29	5
28	25876TI	34	5
35	25878TI	57	1
42	25580TI	62	1
54	25882TI	69	1

**CHAMFERING KIT**

**TC150**



Size	ITEM No	Qty
15-22mm	76207TC	1

**EXTERNAL CHAMFER BIT**

**TC145**

Spare part for use with TC150



Size	ITEM No	Qty
15-22mm	76202TC	1

**DEBURRING TOOL**

**S120**

To be used with any metallic pipe



Size	ITEM No	Qty
15-54mm	39168TC	1

**SOCKET INSERTION TOOL**

**TC117**

Only for Tectite Carbon fittings



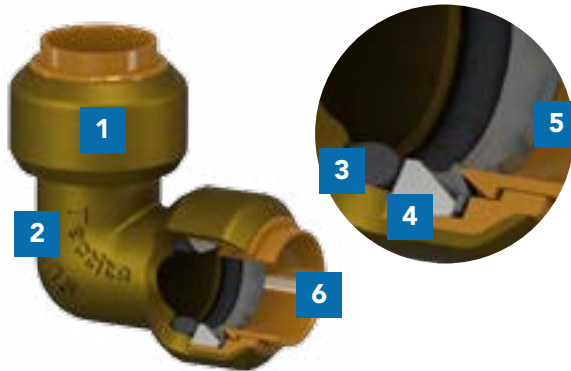
Size	ITEM No	Qty
15-54mm	76121TC	1





# TECTITE

## TECTITE CLASSIC



1 Brass body

2 Marking

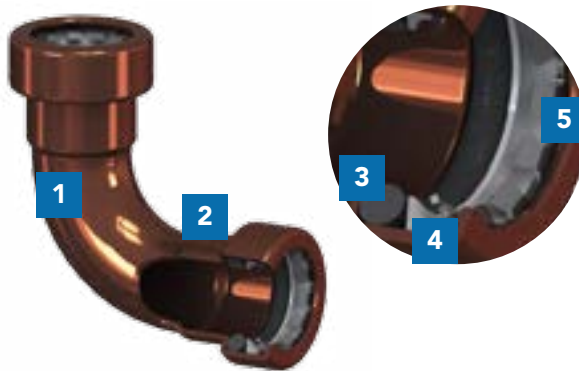
3 O-ring EPDM

4 Nylon protective ring

5 Stainless steel grab ring

6 Piping guide in PVDF

## TECTITE SPRINT



1 Copper body

2 Marking

3 O-ring EPDM

4 Nylon protective ring

5 Stainless steel grab ring

## TECTITE CARBON



1 Carbon body

2 Marking

3 O-ring EPDM

4 Nylon protective ring

5 Stainless steel grab ring

6 Pipe guide in PVDF

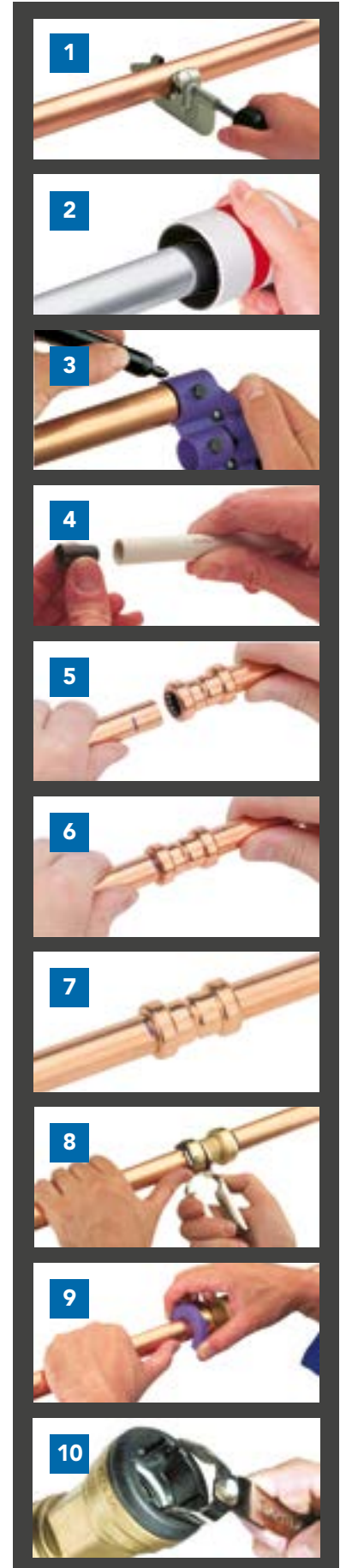
## INSTALLATION

### JOINTING

- 1** Select the correct pipe size and fitting for the job. Ensure both are clean, in good condition and free from damage, scores and imperfections. Do not use any additional lubricant or sealing compounds. Cut the pipe square using a rotary pipe cutter wherever possible.
- 2** Take care to ensure that the pipe end is deburred and chamfered. If the pipe is oval or damaged, use a re-rounding tool.
- 3** To make a perfect joint, the pipe must be fully inserted in the fitting until it meets the pipe stop. To confirm that this is the case, mark the socket depth on the pipe (see Socket Depth Table below).
- 4** For PEX and PB pipes, place the inserts (T510) into the end of the pipe.
- 5** Inspect the fitting, ensuring that the grab rings and O-rings have not been contaminated with grit or debris. Insert the pipe into the mouth of the fitting to rest against the grab ring.
- 6** Push the pipe firmly with a slight twisting action until it reaches the pipe stop with a distinct "click".
- 7** Ensure the depth insertion mark corresponds with the mouth of the fitting and then pull firmly on the pipe to ensure the fitting is secure.

### DE-MOUNTING

- 8** For **Tectite Classic (<35mm)**. Place the forks of the disconnecting tool (T350) around the fitting assembly. The fork side carrying the Tectite brand logo should be positioned around the pipe, with the opposite side around the neck of the fitting. Squeeze the disconnecting tool with one hand until the release collar in the fitting is depressed. With the other hand, twist out the pipe using the thumb as a lever against the tool to assist disconnection.
- 9** For **Tectite Classic (<35mm)**. The plastic disconnecting clip (T509) may be used where only where an occasional disconnecting facility is required.
- 10** For **Tectite Classic (>28mm)**. To remove the pipe from the fitting, insert the prongs of the Tectite DTX end cap tool (T505) in the recesses in the status indicator and turn anti-clockwise fully. The status indicator will withdraw into the fitting, indicating that the fitting is in the de-mountable position. Using a 'clockwise' twisting and pulling action, the pipe can now be removed.



**Socket Depth Table**

		Size (mm)											
		10	12	14	15	16	18	20	22	28	35	42	54
Socket Depth (mm)	Tectite Classic	23	23	23	23	23	23	23	27	31	57	62	68
	Tectite Sprint	15	15	15	16	16	16	16	18	-	-	-	-
	Tectite Carbon	-	-	-	28	-	28	-	30	32	40	42	45

# NOTES

A large grid of graph paper for taking notes, consisting of 20 columns and 30 rows of small squares.



# APPLICATIONS

Comap connection systems combine different fitting technologies with pipes of different materials to cover the maximum number of applications.

## PIPES AND FITTINGS COMPATIBILITY

Fitting range	Type	Pipes												
		Multilayer		PEX		Stainless steel			Carbon Steel			Copper <sup>1</sup> EN1057		
		MultiSKIN	BetaSKIN	Retube	BetaPEX	SudoXpress	Xpress 316	Xpress 439	SudoPress	Xpress	Xpress PP			
SKINPress	Press	○	○											
SKINPress PPSU	Press	○	○											
PEXPress	Press			○	○									
SudoPress Copper	Press												○	
SudoPress Stainless Steel	Press					○	○	○						
SudoPress Carbon Steel	Press								○	○	○			
Xpress Stainless Steel	Press					○	○	○						
Xpress Carbon Steel	Press								○	○	○			
Tectite Classic	Push			○	○									○
Tectite Sprint	Push			○	○									○
Tectite Carbon	Push								○	○	○			
Pexy	Slide			○	○									
TurboSKIN	Compression	○	○											
TurboPex	Compression			○	○									
Jevco	Compression													○
Sudo	Endfeed													○

<sup>1</sup> Copper pipe not provided by Comap.

<sup>2</sup> An insert is needed for PEX pipes.

# Pipes

A full range for the perfect installation

Comap provides a wide choice to complete connection systems for all types of installations. The range includes Multilayer, PEX, Stainless Steel and Carbon Steel pipes.

MultiSKIN Multilayer pipe 158

BetaSKIN Multilayer pipe 164

BetaPEX pipe 166

Stainless Steel and Carbon Steel pipe 172

Pipes accessories 176

# MULTISKIN MULTILAYER PIPE

MultiSKIN is a full range of multilayer pipes with diameters from 14 to 63mm. They are constructed in PERT/Al, with a strong aluminium core for more resistance to high temperatures and pressures. These pipes conform to EN ISO 21003 standards and are available in lengths, rolls, pre-insulated and protected in a corrugated conduit.



## APPLICATIONS

MultiSKIN is suitable for all heating and plumbing applications. The pipes can be used in new installations as well as for renovations. They can be concealed or exposed.

Application	Temperature	Pressure
Drinking water	-10°C to 95°C	10 bar
Heating and cooling	-10°C to 95°C	10 bar
Rainwater	-10°C to 95°C	10 bar
Dry compressed air	Normal ambient temperature	10 bar
Heating oil	Normal ambient temperature	10 bar



EUROPEAN  
PRODUCTION

## BENEFITS

- Temperature and pressure resistant.
- Low heat expansion.
- Non-corrosive.
- Shape retaining.
- Wear resistant.
- Impermeable to oxygen.
- Light and easy to handle.
- Noise-reducing.

## FEATURES

- Available in sizes 14 to 63mm.
- 5 layers: cross linked polyethylene / adhesive / aluminium / adhesive / cross linked polyethylene.
- Inner aluminium core longitudinally butt-welded for a homogenous wall thickness and a perfectly oxygen-tight pipe.
- Aluminium thickness: 0.4mm

Certifications:



## MULTISKIN4 NAKED

### MULTISKIN4 PIPE

#### MSS

Length of 5 meters



Size	ITEM No	Qty (pcs)	Qty (m)
16x2 - 5m	B111001004	25	125
18x2 - 5m	B111002004	20	100
20x2 - 5m	B111003004	18	90
26x3 - 5m	B111004004	10	50
32x3 - 5m	B111005004	7	35
40x3,5 - 5m	B111006004	9	45
50x4 - 5m	B111007004	7	35
63x4,5 - 5m	B111008004	4	20

### MULTISKIN4 PIPE

#### MS

Roll



Size	ITEM No	Qty (pcs)	Qty (m)
14x2 - 100m	B112001002	1	100
16x2 - 100m	B112002002	1	100
16x2 - 200m	B112002003	1	200
18x2 - 100m	B112003001	1	100
18x2 - 200m	B112003002	1	200
20x2 - 100m	B112004001	1	100
26x3 - 50m	B112005001	1	50
32x3 - 50m	B112006001	1	50

## MULTISKIN4 INSULATED

### MULTISKIN4 INSULATED PIPE

#### MSISO 6 MM BLUE

Roll



Size	ITEM No	Qty (pcs)	Qty (m)
14x2 - 100m - 6mm	B131001001	1	100
16x2 - 100m - 6mm	B131002001	1	100
18x2 - 50m - 6mm	B131003001	1	50
20x2 - 50m - 6mm	B131004001	1	50
26x3 - 50m - 6mm	B131005002	1	50
32x3 - 25m - 6mm	B131006001	4	100

### MULTISKIN4 INSULATED PIPE

#### MSISO 6 MM RED

Roll



Size	ITEM No	Qty (pcs)	Qty (m)
14x2 - 100m - 6mm	B132001001	1	100
16x2 - 100m - 6mm	B132002001	1	100
18x2 - 50m - 6mm	B132003001	1	50
20x2 - 50m - 6mm	B132004001	1	50
26x3 - 50m - 6mm	B132005002	1	50
32x3 - 25m - 6mm	B132006001	1	25

### MULTISKIN4 INSULATED PIPE

#### MSISO 10 MM BLUE

Roll



Size	ITEM No	Qty (pcs)	Qty (m)
14x2 - 50m - 10mm	B131007001	1	50
16x2 - 50m - 10mm	B131008001	1	50
18x2 - 50m - 10mm	B131009001	1	50
20x2 - 50m - 10mm	B131010001	1	50
26x3 - 25m - 10mm	B131011001	11	275
26x3 - 50m - 10mm	B131011002	1	50
32x3 - 25m - 10mm	B131012001	10	250

**MULTISKIN4 INSULATED PIPE****MSISO 10 MM RED**

Roll



Size	ITEM No	Qty (pcs)	Qty (m)
14x2 - 50m - 10mm	B132007001	1	50
16x2 - 50m - 10mm	B132008001	1	50
18x2 - 50m - 10mm	B132009001	1	50
20x2 - 50m - 10mm	B132010001	1	50
26x3 - 25m - 10mm	B132011001	11	275
26x3 - 50m - 10mm	B132011002	1	50
32x3 - 25m - 10mm	B132012001	10	250

**MULTISKIN4 INSULATED PIPE****MSISO 13 MM BLUE**

Roll



Size	ITEM No	Qty (pcs)	Qty (m)
16x2 - 50m - 13mm	B131013001	1	50
20x2 - 50m - 13mm	B131015001	1	50
26x3 - 50m - 13mm	B131016001	1	50

**MULTISKIN4 CORRUGATED****MULTISKIN4 CORRUGATED PIPE****MSF BLUE**

Roll



Size	ITEM No	Qty (pcs)	Qty (m)
14x2 - 100m	B121001003	1	100
16x2 - 50m	B121002002	1	50
16x2 - 100m	B121002003	1	100
18x2 - 100m	B121003002	1	100
20x2 - 50m	B121004002	1	50
26x3 - 50m	B121005001	1	50
32x3 - 50m	B121006001	1	50

**MULTISKIN4 CORRUGATED PIPE****MSF RED**

Roll



Size	ITEM No	Qty (pcs)	Qty (m)
14x2 - 100m	B122001003	1	100
16x2 - 50m	B122002002	1	50
16x2 - 100m	B122002003	1	100
18x2 - 100m	B122003002	1	100
20x2 - 50m	B122004002	1	50
26x3 - 50m	B122005001	1	50
32x3 - 50m	B122006001	1	50

**MULTISKIN4 CORRUGATED PIPE****MSFC**

Twin



Size	ITEM No	Qty (pcs)	Qty (m)
16x2 - 50m	B124002001	1	50

**MULTISKIN2 NAKED****MULTISKIN2 PIPE****MSS2**

Length of 5 meters



Size	ITEM No	Qty (pcs)	Qty (m)
16x2 - 125m	B141001004	25	125
18x2 - 100m	B141002004	20	100
20x3 - 90m	B141003004	18	90
26x3 - 50m	B141004004	10	50



## MULTISKIN2 PIPE

### MS2

Roll



Size	ITEM No	Qty (pcs)	Qty (m)
16x2 - 50m	B142002003	1	50
16x2 - 100m	B142002001	1	100
16x2 - 200m	B142002002	1	200
16x2 - 500m	B142002004	1	500
18x2 - 100m	B142003001	1	100
18x2 - 200m	B142003002	1	200
20x2 - 50m	B142004002	1	50
20x2 - 100m	B142004001	1	100
26x3 - 50m	B142004001	1	50

## MULTISKIN2 INSULATED

### MULTISKIN2 INSULATED PIPE

#### MSISO 2 6 MM BLUE

Roll



Size	ITEM No	Qty (pcs)	Qty (m)
16x2 - 50m - 6mm	B161001001	1	50
18x2 - 50m - 6mm	B161002001	1	50
20x2 - 50m - 6mm	B161003001	1	50
26x3 - 50m - 6mm	B161004001	1	50

### MULTISKIN2 INSULATED PIPE

#### MSISO 2 6 MM RED

Roll



Size	ITEM No	Qty (pcs)	Qty (m)
16x2 - 50m - 6mm	B162001001	1	50
18x2 - 50m - 6mm	B162002001	1	50
20x2 - 50m - 6mm	B162003001	1	50
26x3 - 50m - 6mm	B162004001	1	50

## MULTISKIN2 CORRUGATED

### MULTISKIN2 CORRUGATED PIPE

#### MSF2 BLUE

Roll



Size	ITEM No	Qty (pcs)	Qty (m)
16x2 - 50m	B151001001	1	50
16x2 - 100m	B151001002	1	100
18x2 - 50m	B151002001	1	50
20x2 - 50m	B151003001	1	50
20x2 - 100m	B151003002	1	100
26x3 - 50m	B151004001	1	50

### MULTISKIN2 CORRUGATED PIPE

#### MSF2 RED

Roll



Size	ITEM No	Qty (pcs)	Qty (m)
16x2 - 50m	B152001001	1	50
16x2 - 100m	B152001002	1	100
18x2 - 50m	B152002001	1	50
20x2 - 50m	B152003001	1	50
20x2 - 100m	B152003002	1	100
26x3 - 50m	B152004001	1	50

### MULTISKIN2 CORRUGATED PIPE

#### MSFC2

Twin



Size	ITEM No	Qty (pcs)	Qty (m)
16x2 - 50m	B154001001	1	50

## MULTISKIN GAS

### MULTISKIN GAS PIPE

#### MSGS

Length of 5 meters



Size	ITEM No	Qty (pcs)	Qty (m)
16x2 - 5m	B411001001	25	125
20x2 - 5m	B411002001	16	90
26x3 - 5m	B411003001	9	50
32x3 - 5m	B411004001	7	32

### MULTISKIN GAS PIPE

#### MSG

Roll



Size	ITEM No	Qty (pcs)	Qty (m)
16x2 - 50m	B412001001	1	50
20x2 - 50m	B412002001	1	50
26x3 - 50m	B412003001	1	50
32x3 - 50m	B412004001	1	50

### MULTISKIN GAS CORRUGATED PIPE

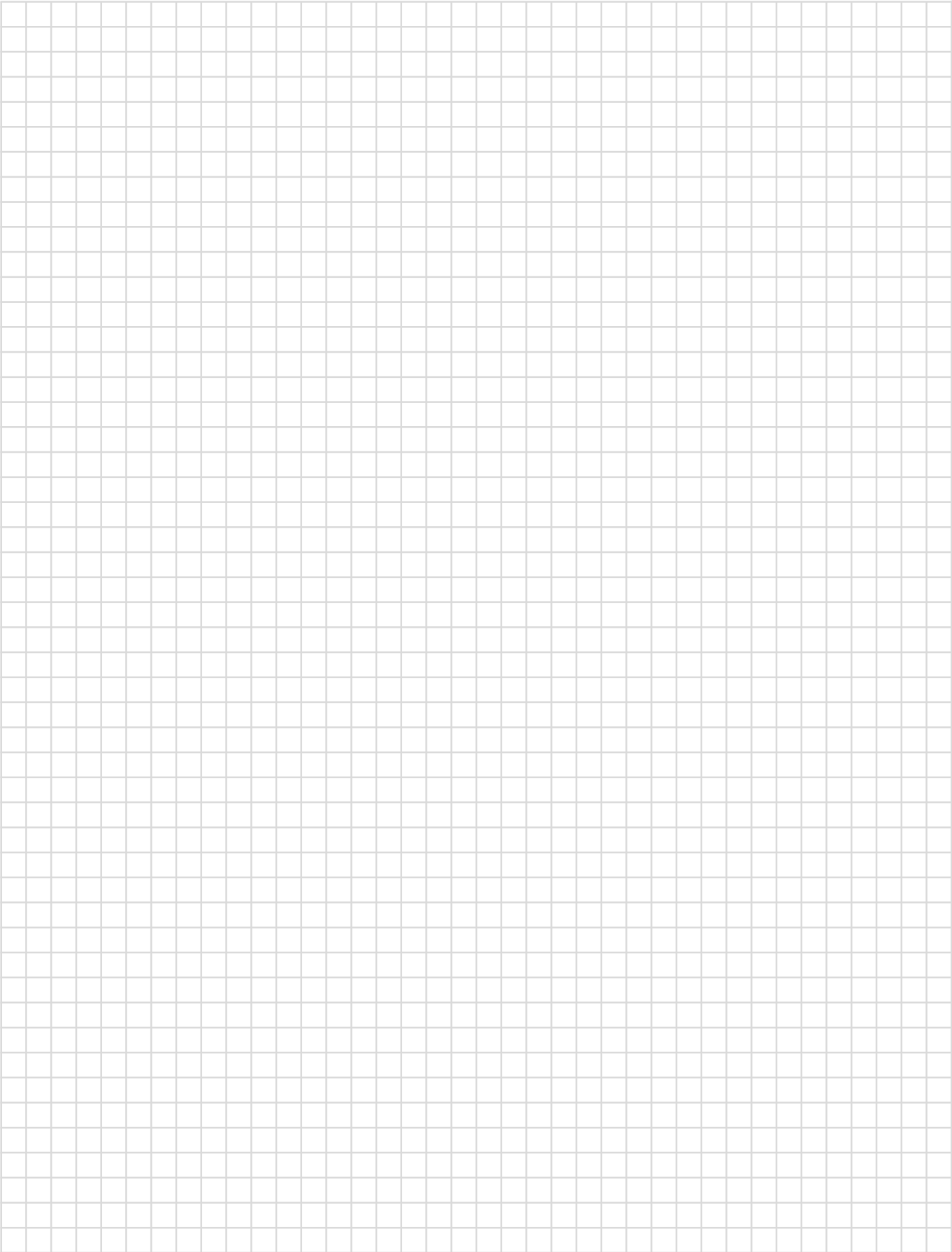
#### MSGF

Roll



Size	ITEM No	Qty (pcs)	Qty (m)
16x2 - 50m	B420001001	1	50
20x2 - 50m	B420002001	1	50
26x3 - 50m	B420003001	1	50
32x3 - 50m	B420004001	1	50

# NOTES



# BETASKIN MULTILAYER PIPE

BetaSKIN is a full range of multilayer pipes with diameters from 14 to 32mm. They are constructed in PERT/Al, with a light aluminium core for more flexibility in pipe handling. These pipes conform to EN ISO 21003 standards, and are available in rolls, pre-insulated and protected in a corrugated conduit.



## APPLICATIONS

BetaSKIN is suitable for all heating and plumbing applications. The pipes can be used in new installations as well as for renovations. They can be concealed or exposed.

Application	Temperature	Pressure
Drinking water	-10°C to 95°C	10 bar
Heating and cooling	-10°C to 95°C	10 bar
Rainwater	-10°C to 95°C	10 bar
Dry compressed air	Normal ambient temperature	10 bar
Heating oil	Normal ambient temperature	10 bar



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## BENEFITS

- Temperature and pressure resistant.
- Low heat expansion.
- Non-corrosive.
- Shape retaining.
- Wear resistant.
- Impermeable to oxygen.
- Light and easy to handle.
- Noise-reducing.

## FEATURES

- Available in sizes 14 to 32mm.
- 5 layers: heat-resisting polyethylene / adhesive / aluminium / adhesive / heat-resisting polyethylene.
- Inner aluminium core longitudinally butt-welded for a homogenous wall thickness and a perfectly oxygen-tight pipe.
- Aluminium thickness: 0.2mm

Certifications:



## BETASKIN NAKED

### BETASKIN PIPE

**BS**

Roll



Size	ITEM No	Qty (pcs)	Qty (m)
14x2 - 100m	B212001001	1	100
16x2 - 100m	B212002001	1	100
16x2 - 200m	B212002002	1	200
18x2 - 100m	B212003001	1	100
20x2 - 100m	B212004001	1	100
26x3 - 50m	B212005001	1	50
32x3 - 50m	B212006001	1	50

## BETASKIN INSULATED

### BETASKIN INSULATED PIPE

**BSISO6B**

Roll



Size	ITEM No	Qty (pcs)	Qty (m)
14x2 - 50m - 6mm	B231001001	1	50
16x2 - 50m - 6mm	B231002001	1	50
18x2 - 50m - 6mm	B231003001	1	50
20x2 - 50m - 6mm	B231004001	1	50
26x3 - 25m - 6mm	B231005001	1	25
32x3 - 25m - 6mm	B231006001	1	25

## BETASKIN INSULATED PIPE

**BSISO6R**

Roll



Size	ITEM No	Qty (pcs)	Qty (m)
14x2 - 50m - 6mm	B232001001	1	50
16x2 - 50m - 6mm	B232002001	1	50
18x2 - 50m - 6mm	B232003001	1	50
20x2 - 50m - 6mm	B232004001	1	50
26x3 - 25m - 6mm	B232005001	1	25
32x3 - 25m - 6mm	B232006001	1	25

## BETASKIN CORRUGATED

### BETASKIN CORRUGATED PIPE

**BSFB**

Roll



Size	ITEM No	Qty (pcs)	Qty (m)
16x2 - 100m	B221001001	1	100
20x2 - 100m	B221002001	1	100

### BETASKIN CORRUGATED PIPE

**BSFR**

Roll



Size	ITEM No	Qty (pcs)	Qty (m)
16x2 - 100m	B222001001	1	100
20x2 - 100m	B222002001	1	100

# BETAPEX PIPE

Produced in conformance with EN ISO 15875, BetaPEX is the connection solution for PEX installations.



## APPLICATIONS

BetaPEX is suitable for heating and sanitary applications. It can be used in new installations as well as for renovations.

EN ISO 15875 classification	Service conditions		Peak conditions			Maximum temperature (malfunction) conditions	
Hot water supply (Class 2)	70°C		49 years	80°C	1 year	95°C	100 hours
Underfloor heating and low temperature radiator (Class 4) (a)	20°C		20 years				
	40°C	plus cumulative	25 years	70°C	plus cumulative	2.5 years	100°C
	60°C		25 years				
High temperature radiator (Class 5) (a)	20°C		14 years				
	60°C	plus cumulative	25 years	90°C	plus cumulative	1 year	100°C
	80°C		10 years				



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## BENEFITS

- Corrosion resistant.
- Flexible and light to handle.
- Smooth surface ensuring low pressure loss.
- Less waste due to a wide range of packaging options.

## FEATURES

- Available in sizes 12 to 32mm.
- PE-Xb – the cross-linking ensures resistance to high temperatures and pressures.
- Available with anti-oxygen barrier (EVOH) ensuring a long service life for heating installations.

	12x1.1	16x1.5	16x2	16x2.2	17x2	18x2	20x1.9	20x2	25x2.3	32x2.9
ATEC	○	○					○		○	○
SKZ	○	○	○	○	○	○	○	○	○	○

Certifications:



## BETAPEX NAKED

### BLUE ROLL

9001



Size	ITEM No	Qty (pcs)	Qty (m)
12x1,1 - 60m	B611005003	10	600
12x1,1 - 120m	B611005001	10	1200
12x1,1 - 200m	B611005002	10	2000
16x1,5 - 80m	B611001006	10	800
16x1,5 - 100m	B611001001	10	1000
16x1,5 - 120m	B611001002	10	1200
16x1,5 - 200m	B611001003	6	1200
16x1,5 - 240m	B611001004	6	1440
16x1,5 - 800m	B611001005	4	3200
16x1,8 100m	B611002001	10	1000
20x1,9 - 80m	B611003006	10	800
20x1,9 - 120m	B611003002	6	720
20x1,9 - 200m	B611003003	4	800
25x2,3 - 100m	B611004001	5	500

### NATURAL ROLL

9002



Size	ITEM No	Qty (pcs)	Qty (m)
16x2 - 100m	B614002001	1	100
16x2,2 - 100m	B614003001	1	100
16x2,2 - 200m	B614003002	1	200
20x2 - 100m	B614006001	1	100
32x2,9 - 50m	B614007001	1	50

### RED ROLL

9006



Size	ITEM No	Qty (pcs)	Qty (m)
12x1,1 - 60m	B612009003	10	600
12x1,1 - 120m	B612009001	10	1200
12x1,1 - 200m	B612009002	10	2000
16x1,5 - 80m	B612001006	10	800
16x1,5 - 100m	B612001001	10	1000
16x1,5 - 120m	B612001002	10	1200
16x1,5 - 200m	B612001003	6	1200
16x1,5 - 240m	B612001004	6	1440
16x1,5 - 800m	B612001005	4	3200
16x1,8 - 100m	B612002001	10	1000
20x1,9 - 80m	B612003006	10	800
20x1,9 - 120m	B612003002	6	720
20x1,9 - 200m	B612003003	4	800
20x1,9 - 240m	B612003004	4	960
20x1,9 - 600m	B612003005	4	2400
25x2,3 - 100m	B612004001	5	500
32x2,9 - 50m	B612005001	6	300

### BLACK ROLL

9007



Size	ITEM No	Qty (pcs)	Qty (m)
15x2,5 - 100m	B614008001	1	100
16x2 - 150m	B614009002	1	150
18x2 - 150m	B614010002	1	150
18x2,5 - 100m	B614011001	1	100
20x2 - 150m	B614012002	1	150
22x3 - 100m	B614013001	1	100
28x3 - 50m	B614014001	1	50
32x3 - 50m	B614015001	1	50

## BETAPEX NAKED WITH EVOH

### NATURAL ROLL EVOH

9003



Size	ITEM No	Qty (pcs)	Qty (m)
16x2 - 100m	B613005001	1	100
16x2 - 200m	B613005002	1	200
16x2 - 600m	B613005003	1	600
17x2 - 200m	B613008001	1	200
18x2 - 200m	B613006002	1	200
20x2 - 100m	B613007001	1	100
20x2 - 200m	B613007002	1	200

### BLUE ROLL EVOH

9004



Size	ITEM No	Qty (pcs)	Qty (m)
12x1,1 - 200m	B613020001	10	2000
16x1,5 - 200m	B613021001	6	1200

### RED ROLL EVOH

9005



Size	ITEM No	Qty (pcs)	Qty (m)
12x1,1 - 200m	B613004001	10	2000
16x1,5 - 120m	B613001002	10	1200
16x1,5 - 200m	B613001003	6	1200
16x1,5 - 240m	B613001004	6	1440
16x1,5 - 800m	B613001005	4	3200
18x2 100m	B613011006	10	1000
20x1,9 - 120m	B613002002	6	720
20x1,9 - 200m	B613002003	4	800

## BETAPEX CORRUGATED

### BLUE PIPE CORRUGATED BLUE

9001G



Size	ITEM No	Qty (pcs)	Qty (m)
12x1,1 - 60m	B621004002	12	720
12x1,1 - 100m	B621004001	6	600
16x1,5 - 60m	B621001002	6	360
16x1,5 - 100m	B621001001	5	500
20x1,9 - 50m	B621002001	6	300
25x2,3 - 50m	B621003001	4	200

### RED PIPE CORRUGATED RED

9006G



Size	ITEM No	Qty (pcs)	Qty (m)
12x1,1 - 60m	B622004002	12	720
12x1,1 - 100m	B622004001	6	600
16x1,5 - 60m	B622001001	6	360
16x1,5 - 100m	B622001002	5	500
20x1,9 - 50m	B622002001	6	300
25x2,3 - 50m	B622003001	4	200

### BLACK PIPE CORRUGATED BLUE

9007GB



Size	ITEM No	Qty (pcs)	Qty (m)
15x2,5 - 50m	B621007001	1	50
16x2 - 50m	B621005001	1	50
18x2 - 50m	B621006001	1	50
18x2,5 - 50m	B621008001	1	50



## BLACK PIPE CORRUGATED RED

9007GR



Size	ITEM No	Qty (pcs)	Qty (m)
15x2,5 - 50m	B622007001	1	50
16x2 - 50m	B622005001	1	50
18x2 - 50m	B622006001	1	50
18x2,5 - 50m	B622008001	1	50

## BLUE AND RED TWIN CORRUGATED

9000G



Size	ITEM No	Qty (pcs)	Qty (m)
12x1,1 - 50m	B631001001	6	300
16x1,5 - 50m	B631002002	5	250

## EMPTY BLUE CONDUIT

9008B



Size	ITEM No	Qty (pcs)	Qty (m)
22x2,75 - 100m	C290005001	12	1200
26x3 - 100m	C290007001	10	1000

## EMPTY RED CONDUIT

9008R



Size	ITEM No	Qty (pcs)	Qty (m)
22x2,75 - 100m	C290006001	12	1200
26X3 - 100m	C290008001	10	1000

## BETAPEX CORRUGATED AND INSULATED

## BLUE PIPE CORRUGATED AND INSULATED

9009B



Size	ITEM No	Qty (pcs)	Qty (m)
12x1,1 - 100m	B642008001	3	300
16x1,5 - 50m	B642001001	5	250
20x1,9 - 50m	B642002001	3	150
25x2,3 - 50m	B642003001	3	150

## RED PIPE CORRUGATED AND INSULATED

9009R

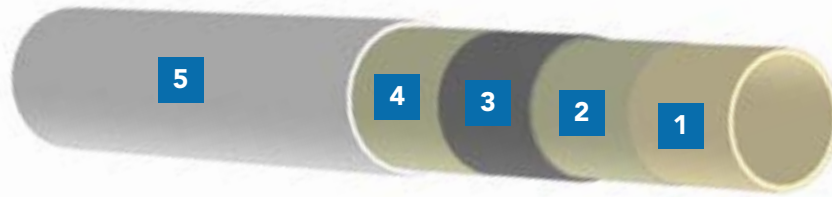


Size	ITEM No	Qty (pcs)	Qty (m)
12x1,1 - 100m	B642004001	3	300
16x1,5 - 50m	B642005001	5	250
20x1,9 - 50m	B642006001	3	150
25x2,3 - 50m	B642007001	3	150



# PLASTIC PIPES

## MULTISKIN: 5 LAYERS



1 PE-Xc

2 Adhesive

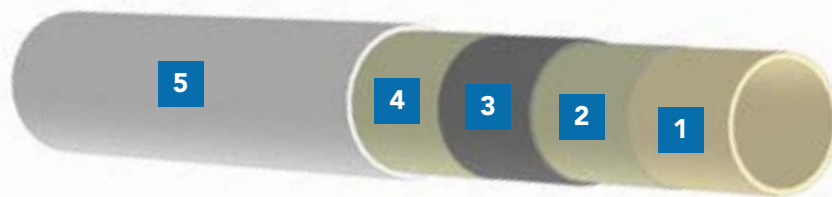
3 Aluminium: 0.4mm

4 Adhesive

5 PE-Xc

Pipe diameter (mm)	14	16	18	20	26	32	40	50	63
Inner diameter (mm)	10.0	12.0	14.0	16.0	20.0	26.0	33.0	42.0	54.0
Wall thickness (mm)	2.0	2.0	2.0	2.0	3.0	3.0	3.5	4.0	4.5
Thickness of the aluminium	0.4	0.4	0.4	0.4	0.5	0.7	0.7	0.9	1.2
Minimum manual bending radius / outer spring (mm)	≥ 5xDu	≥ 5xDu	≥ 5xDu	≥ 5xDu	≥ 5xDu	-	-	-	-
Minimum manual bending radius / inner spring (mm)	≥ 3xDu	≥ 3xDu	≥ 3xDu	≥ 3xDu	≥ 3xDu	-	-	-	-
Weight (g/m)	108	125	132	147	252	39	528	766	1.155
Content (l/m)	0.072	0.113	0.154	0.201	0.314	0.53	0.803	1.32	2.042

## BETASKIN: 5 LAYERS



1 PE-RT

2 Adhesive

3 Aluminium: 0.2mm

4 Adhesive

5 PE-RT

Pipe diameter (mm)	14	16	18	20	26	32
Inner diameter (mm)	10.0	12.0	14.0	16.0	20.0	26.0
Wall thickness (mm)	2.0	2.0	2.0	2.0	3.0	3.0
Minimum manual bending radius / outer spring (mm)	5 x D	5 x D	5 x D	5 x D	10 x D	-
Minimum manual bending radius / inner spring (mm)	2 x D	2 x D	2 x D	2 x D	5 x D	5 x D
Weight (g/m)	920	105	125	140	260	350
Content (l/m)	0.079	0.113	0.154	0.201	0.314	0.531

## BETAPEX: 3 LAYERS



1 PE-X

2 Adhesive

3 Anti-oxygen barrier (EVOH)

	12	16	20	25
Pipe diameter (mm)	12	16	20	25
Inner diameter (mm)	9.8	13	16.2	20.4
Wall thickness (mm)	1.1	1.5	1.9	2.3
Weight (g/m)	42	73	112	170
Content (l/m)	0.07	0.13	0.2	0.32

## BETAPEX: 1 LAYER

1 PE-X



	12	16	20	25	32
Pipe diameter (mm)	12	16	20	25	32
Inner diameter (mm)	9.8	13	16.2	20.4	26.2
Wall thickness (mm)	1.1	1.5	1.9	2.3	2.9
Weight (g/m)	42	73	112	170	270
Content (l/m)	0.07	0.13	0.2	0.32	0.52

## PROTECTION FOR PLASTIC PIPES



### Corrugated pipe

Pipes running through floors, walls or ceilings should be protected with a sleeve. After assembly, it is also advisable to protect the pipes against damage caused by other work being done on the site. The corrugated protector is made of polyethylene. It is fully impermeable and can withstand temperatures from -5°C to 80°C as well as a standard load of 450 Newtons.



### Insulated pipe

Comap provides pipes with a round thermal insulating material. The extruded polyethylene foam protects the pipe against condensation, heat loss, expansion and noise transmission. Pipes should also be protected where they are grouped at high temperatures (floor heating effect).

Quality standard: UNI and ISO 9002-94  
 Lambda value: 0.040W/mK at 40°C  
 Fire classification: 1-UNI 9177 and UNI 8457  
 Temperature range: -35°C to 95°C

# SudoPress

## STAINLESS STEEL AND CARBON STEEL PIPES

Comap offers a selection of high quality pipes in stainless steel and carbon steel. They fit a wide range of applications and needs.



### APPLICATIONS

The following stainless steel pipes are ideal for sanitary, compressed air and industrial uses:

- AISI 316 1,4401 pipes for sanitary applications.
- AISI 439 1,4520 pipes for industrial applications.

The following carbon steel pipes offer an economical solution for heating uses:

- Carbon steel pipes for heating applications.
- Carbon steel pipes with a polypropylene layer for heating applications.



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### BENEFITS

- Thin-walled precision steel pipes.
- High quality stainless steel (1,4401).
- Coloured caps for easy identification:
  - Green and blue for drinking applications.
  - Red and black for heating and industrial applications.
- Caps prevent penetration of dirt into the pipes.

### FEATURES

- Coloured caps.
- Stainless steel pipe tolerances comply with EN 10312.
- Carbon steel pipe tolerances comply with EN 1035-3.
- Zinc plating protects carbon steel pipes against external corrosion.

Note: Carbon steel is not suitable for drinking water applications.

Certifications:



## STAINLESS STEEL

### SUDOPRESS STAINLESS STEEL PIPE FOR SANITARY APPLICATION 1,4401 (AISI 316)

#### SP6000AV

Length of 6 meters



Size	ITEM No	Qty (pcs)	Qty (m)
15x1 - 6m	6000AVW15	20	120
18x1 - 6m	6000AVW18	15	90
22x1,2 - 6m	6000AVW22	10	60
28x1,2 - 6m	6000AVW28	10	60
35x1,5 - 6m	6000AVW35	5	30
42x1,5 - 6m	6000AVW42	5	30
54x1,5 - 6m	6000AVW54	5	30

### XPRESS STAINLESS STEEL PIPE FOR SANITARY APPLICATION 1.4401 (AISI 316)

#### X7000T

Length of 6 meters



Size	ITEM No	Qty (pcs)	Qty (m)
15x1 - 6m	M6117914	20	120
18x1 - 6m	M6117925	15	90
22x1,2 - 6m	M6117936	10	60
28x1,2 - 6m	M6117947	10	60
35x1,5 - 6m	M6117958	5	30
42x1,5 - 6m	M6117969	5	30
54x1,5 - 6m	M6117971	5	30
76,1x2 - 6m	M6117980	1	6
88,9x2 - 6m	M6117991	1	6
108x2 - 6m	M6118002	1	6

### XPRESS STAINLESS STEEL PIPE FOR INDUSTRIAL APPLICATION 1.4520 (AISI 439)

#### X7000I

Length of 6 meters. Not suitable for drinking water applications



Size	ITEM No	Qty (pcs)	Qty (m)
15x1 - 6m	G312003001	20	120
18 x1 - 6m	G312001001	15	90
22 x1,2 - 6m	G312002001	10	60
28x1,2 - 6m	M6193033	10	60
35x1,5 - 6m	G312004001	5	30
42x1,5 - 6m	G312005001	5	30
54x1,5 - 6m	G312006001	5	30
76,1x2 - 6m	M6118178	1	6
88,9x2 - 6m	M6118189	1	6
108x2 - 6m	M6118200	1	6

Pipe in Ø 76,1 mm; 88,9 mm and 108 mm are in stainless steel 1.4301 (AISI304)

## CARBON STEEL

### SUDOPRESS GALVANISED CARBON STEEL PIPE FOR HEATING APPLICATION

#### SP8000BV

Length of 6 meters. Not suitable for drinking water applications



Size	ITEM No	Qty (pcs)	Qty (m)
12x1,2 - 6m	8000BVW12	104	624
15x1,2 - 6m	8000BVW15	215	1290
18x1,2 - 6m	8000BVW18	254	1524
22x1,5 - 6m	8000BVW22	215	1290
28x1,5 - 6m	8000BVW28	104	624
35x1,5 - 6m	8000BVW35	67	402
42x1,5 - 6m	8000BVW42	67	402
54x1,5 - 6m	8000BVW54	61	366

## SUDOPRESS GALVANISED CARBON STEEL PIPE FOR HEATING APPLICATION

### SP8000CV

Length of 3 meters. Not suitable for drinking water applications



Size	ITEM No	Qty (pcs)	Qty (m)
15x1,2 - 3m	8000CVW15	430	1290
18x1,2 - 3m	8000CVW18	508	1524
22x1,5 - 3m	8000CVW22	430	1290
28x1,5 - 3m	8000CVW28	208	624
35x1,5 - 3m	8000CVW35	134	402
42x1,5 - 3m	8000CVW42	134	402
54x1,5 - 3m	8000CVW54	122	366

## XPRESS GALVANIZED CARBON STEEL PIPE FOR HEATING APPLICATION

### Z7000TE

Length of 6 meters. Not suitable for drinking water applications



Size	ITEM No	Qty (pcs)	Qty (m)
12x1,2 - 6m	M6204594	104	624
15x1,2 - 6m	M6204605	215	1290
18x1,2 - 6m	M6204616	254	1524
22x1,5 - 6m	M6204627	215	1290
28x1,5 - 6m	M6204638	104	624
35x1,5 - 6m	M6204649	67	402
42x1,5 - 6m	M6204651	67	402
54x1,5 - 6m	M6204660	61	366
76,1x2,0 - 6m	M6204803	61	366
88,9x2,0 - 6m	M6204814	19	114
108x2,0 - 6m	M6204825	37	222

## XPRESS CARBON STEEL PIPE WITH POLYPROPYLENE COATING FOR HEATING APPLICATION

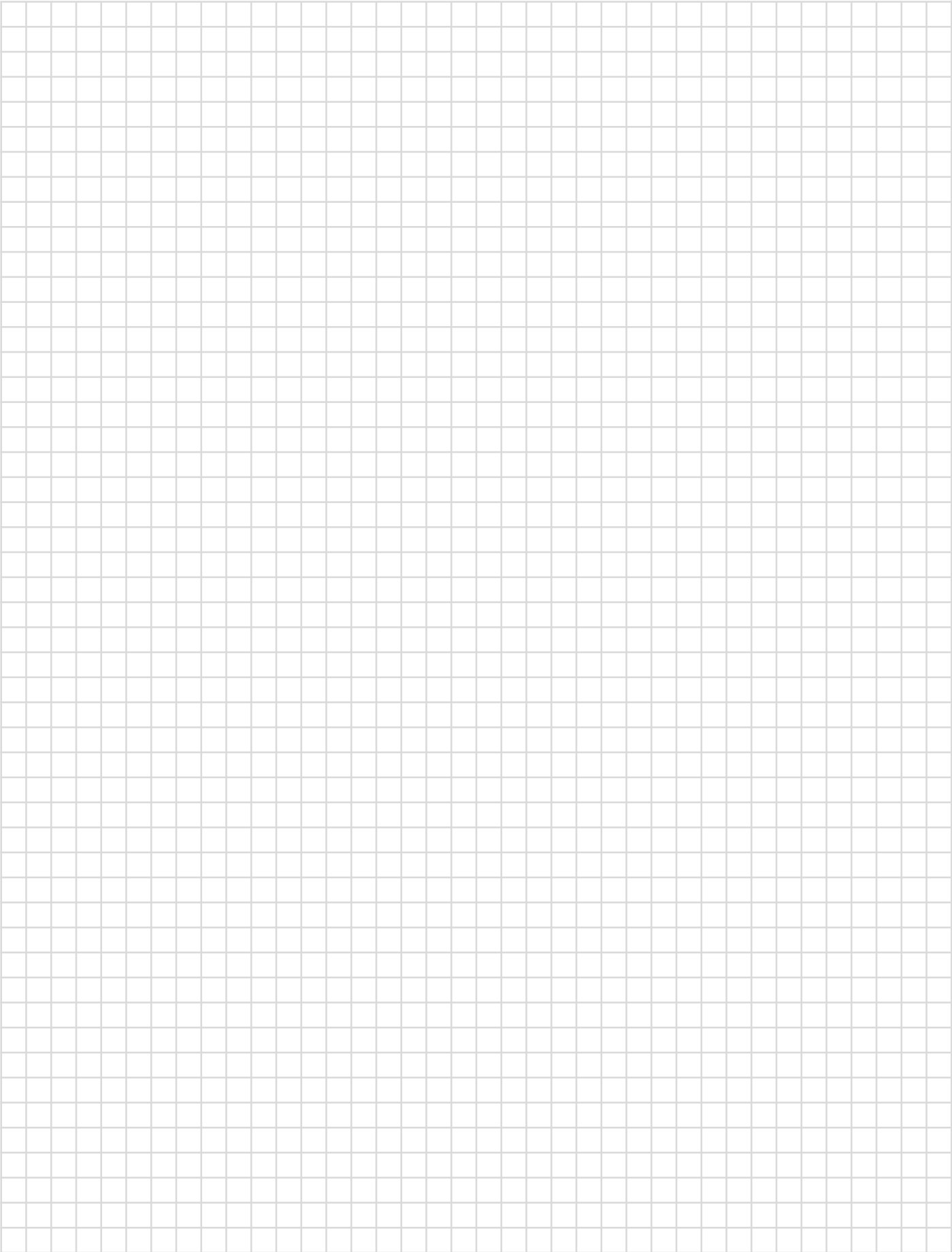
### Z7000TP

Length of 6 meters. Not suitable for drinking water applications



Size	ITEM No	Qty (pcs)	Qty (m)
15x1,2 - 6m	M6204682	20	120
18x1,2 - 6m	M6204693	15	90
22x1,5 - 6m	M6204704	10	60
28x1,5 - 6m	M6204715	10	60
35x1,5 - 6m	M6204726	5	30
42x1,5 - 6m	M6204737	5	30
54x1,5 - 6m	M6204748	5	30

# NOTES



# PIPES ACCESSORIES

## CALIBRATING TOOLS

### CALIBRATING TOOL

#### 112

for MultiSKIN (multilayer) Pipes  
(Compression and SKINPress fittings)



Size	ITEM No	Qty
14	11201A	1
16	11202B	1
18	11201D	1
20	11201E	1
26	11201J	1
32	11201K	1

### CALIBRATING TOOL HANDLE

#### 110

For item 112



ITEM No	Qty
11002X	1

### EMPTY BOX

#### 119

for calibrating tool, items 110 and 112 (handle)



ITEM No	Qty
11901X	1

### PLASTIC CALIBRATING TOOL

#### 120

for SKINPress Visu-Control



Size	ITEM No	Qty
14-18-32	120ADK	1
16-20-26	120BEJ	1

### CALIBRATING TOOL

#### 306G

for MultiSKIN (multilayer) Pipes  
(Compression and SKINPress fittings)



Size	ITEM No	Qty
40-50-63	30663	1



## CUTTING TOOLS

### CUTTING TOOL

#### 9508

for PEX and MultiSKIN (multilayer) Pipes



ITEM No	Qty
9508080	1

### COVER CUTTING TOOL

#### 9508G

for Ø 6 à 42



Size	ITEM No	Qty
6-42	9508100	1

### CUTTING TOOL

#### RS32

for MultiSKIN (multilayer) Pipes



Size	ITEM No	Qty
14-32	C270001001	1
14-63	C270002001	1

## BENDING TOOLS

### BENDING TOOL

#### R153

For MultiSKIN (multilayer) Pipes



Size	ITEM No	Old code	Qty
Ø 14-16-20-26	153026R	R153022	1

## INTERNAL BENDING SPRING

#### MB36

For MultiSKIN (multilayer) Pipes



Size	ITEM No	Qty
14x2	MB3610	1
16x2	MB3620	10
18x2	MB3630	10
20x2	MB3640	10

## EXTERNAL BENDING SPRING

#### MB36E

For MultiSKIN (multilayer) Pipes



Size	ITEM No	Qty
16x2	C210003001	1
18x2	C210004001	1
20x2	C210005001	1

## INTERNAL BENDING SPRING

#### 9875

For PEX Pipes



Size	ITEM No	Qty
12x1,1	987512	1
16x1,5	987516	1
20x1,9	987520	1
25x2,3	987525	1

## PIPES ACCESSORIES

### 90° ELBOW

#### 9503

For guiding the pipe in the bend



Size	ITEM No	Qty
20	C250007001	50
16-18	C250008001	20
25-29	C250006001	50

### 20 MM STEEL PIN FOR FLOOR FIXATION

#### 9626C



Size	ITEM No	Qty
20	9626220	100

### FIXING BRACKET FOR PIPES CONDUIT

#### 9626G



Size	ITEM No	Qty
20 simple	9626009	250
25 simple	9626011	1
25 double	9626061	250

### HAND TOOL FOR STEEL PIN

#### 9626T



ITEM No	Qty
9626200	1

### WHITE PIPES CLIP.

#### 9627

Recommended for use with MultiSKIN Pipes. Aesthetic and fast solution. Nut for 9627 pipes clip



Size	ITEM No	Qty
14 to 16 mm	96271416	100
16 to 20 mm	96271620	100
24 to 28 mm	96272428	50

### NUT FOR WHITE PIPES CLIP.

#### 9627X

Recommended for use with MultiSKIN Pipes. Aesthetic and fast solution. Nut for 9627 pipes clip

ITEM No	Qty
96270007	100

### PIPES DECOILER - 600M

#### D962

Compatible for PEX or Multilayers Pipes



Size	ITEM No	Qty
600M	C260001000	1

### PIPES DECOILER - 600M

#### 9628

Compatible for PEX or Multilayers Pipes



Size	ITEM No	Qty
600M	9628000	1

## PIPES STRAIGHTENER

### 9628X

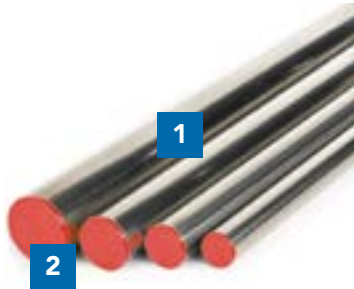
Compatible with pipe decoiler item D9628



ITEM No	Qty
9628001	1



# STAINLESS STEEL & CARBON STEEL PIPES



## 1 MARKING:

Comap guarantee. Provides information about type and certifications.

## 2 CAPS:

Protect the tube against dirt and dust. The colour gives information about the application and metal type.

## TUBE CAPS

Caps at both ends of the pipe prevent dirt entering during transportation or storage.

Cap colour	Metal	Application	Marking
Dark green	Stainless steel 1,4401	Sanitary	XPress
Blue	Stainless steel 1,4401	Sanitary	SUDOXpress
Black	Stainless steel 1,4501 or 1,4301	Industrial	XPress
Red	Carbon steel	Heating	SUDOPress XPress

## STAINLESS STEEL PIPE FOR INDUSTRIAL APPLICATIONS 439 (XPRESS)

Not suitable for drinking water applications

**Material:** Material no. 1.4520 according to DIN-EN 10088-2

**Specifications:** EN 10296-2 (see dimensions and weight below)

Nominal diameter	Ø outer diameter x thickness (mm)	Ø inner diameter (mm)	Mass (kg/m)	Pipe capacity (l/m)
DN 12	15 x 1.0	13.0	0.333	0.133
DN 15	18 x 1.0	16.0	0.410	0.201
DN 20	22 x 1.2	19.6	0.624	0.302
DN 25	28 x 1.2	25.6	0.790	0.515
DN 32	35 x 1.5	32.0	1.240	0.804
DN 40	42 x 1.5	39.0	1.503	1.195
DN 50	54 x 1.5	51.0	1.972	2.043

*Tubes in 76.1, 88.9 and 108mm are in stainless steel 1.4301 (AISI 304)*

## STAINLESS STEEL PIPES FOR SANITARY 316 (XPRESS OR SUDOPRESS)

**Material:** X5CrNiMo 17 12 2 Material no. 1.4401 according to DIN-EN 10088, PRE value >24

**Specifications:** EN 10312 – DVGW worksheet GW541 (2004) Table 2

Nominal width	Ø outer diameter x s (mm)	Ø inner diameter (mm)	Mass (kg/m)	Tube capacity (l/m)
DN 12	15 x 1.0	13.0	0.333	0.133
DN 15	18 x 1.0	16.0	0.410	0.201
DN 20	22 x 1.2	19.6	0.624	0.302
DN 25	28 x 1.2	25.6	0.790	0.515
DN 32	35 x 1.5	32.0	1.240	0.804
DN 40	42 x 1.5	39.0	1.503	1.195
DN 50	54 x 1.5	51.0	1.972	2.043
DN 65	76.1 x 2.0	72.1	3.550	4.548
DN 80	88.9 x 2.0	84.9	4.150	5.661
DN 100	108 x 2.0	104.0	5.050	8.495

## CARBON STEEL PIPE (XPRESS OR SUDOPRESS)

**Material:** Non-alloy ULC (ultra light carbon) or carbon steel, RSt 34-2 part no. 1.0034 according to EN 10305-3

**Specifications:** EN 10305-3 (formerly DIN 2394)

Nominal diameter	Ø outer diameter x thickness (mm)	Ø inner diameter (mm)	Mass (kg/m)	Pipe capacity (l/m)
DN 10	12 x 1.2	9.6	0.271	0.076
DN 12	15 x 1.2	12.6	0.420	0.125
DN 15	18 x 1.2	15.6	0.494	0.191
DN 20	22 x 1.5	19.0	0.761	0.284
DN 25	28 x 1.5	25.0	0.980	0.491
DN 32	35 x 1.5	32.0	1.241	0.804
DN 40	42 x 1.5	39.0	1.542	1.195
DN 50	54 x 1.5	51.0	1.999	2.043
DN 65	76.1 x 2.0	72.1	3.503	4.083
DN 80	88.9 x 2.0	84.9	4.412	5.661
DN 100	108 x 2.0	104.0	5.382	8.495

## CARBON STEEL WITH POLYPROPYLENE (XPRESS)

**Material:** Non-alloy ULC (ultra-light carbon) or carbon steel, RSt 34-2 part no. 1.0034 according to EN 10305-3

**Specifications:** EN 10305-3 (formerly DIN 2394)

Nominal diameter	Ø outer diameter x thickness (mm)	Ø inner diameter, including coating (mm)	Mass (kg/m)	Pipe capacity (l/m)
DN 12	15 x 1.2	17	0.434	0.125
DN 15	18 x 1.2	20	0.536	0.191
DN 20	22 x 1.5	24	0.824	0.284
DN 25	28 x 1.5	30	1.052	0.491
DN 32	35 x 1.5	37	1.320	0.804
DN 40	42 x 1.5	44	1.620	1.195
DN 50	54 x 1.5	56	2.098	2.043

*For safe crimping, it is essential to remove the polypropylene coating with a stripping unit along a length equivalent to the appropriate insertion depth. The rigidity of the press connection is only achieved by maintaining the insertion depth. Comap offers a stripping tool for this purpose (see page 119).*





# Manifolds and Junction Boxes

Manifold for sanitary and heating applications 184

Junction boxes 192

Connectors for manifolds and junction boxes 198

# MANIFOLD FOR SANITARY AND HEATING APPLICATIONS

Main manifold for sanitary and heating applications. It automatically balances parallel systems for your hot/cold water circuits. The large passage manifold also limits pressure drop.

## BRASS MANIFOLDS

### PUSH MANIFOLDS WITH INTEGRATED ISOLATING MECHANISM

#### 9533

Male Outlets 35 mm interaxis



Size	ITEM No	N° of outlets	Qty
In3/4 - Out1/2	9533122	2	1
In3/4 - Out1/2	9533123	3	1
In3/4 - Out1/2	9533124	4	1
In3/4 - OutM22	9533222	2	1
In3/4 - OutM22	9533223	3	1
In3/4 - OutM22	9533224	4	1

### PUSH MANIFOLDS WITH INTEGRATED ISOLATING MECHANISM

#### 9533A

Male Outlet Flat ring connection 35 mm interaxis



Size	ITEM No	N° of outlets	Qty
In3/4 - Out1/2	9533322	2	1
In3/4 - Out1/2	9533323	3	1
In3/4 - Out1/2	9533324	4	1

## STAMPED MANIFOLD

#### 9532

Male outlets 35 mm interaxis



Size	ITEM No	N° of outlets	Qty
In3/4 - Out1/2	9532102	2	1
In3/4 - Out1/2	9532103	3	1
In3/4 - Out1/2	9532104	4	1
In3/4 - OutM22	9532222	2	1
In3/4 - OutM22	9532223	3	1
In3/4 - OutM22	9532224	4	1
In1" - Out1/2	9532302	2	1
In1" - Out1/2	9532303	3	1
In1" - Out1/2	9532304	4	1
In1" - OutM22	9532422	2	1
In1" - OutM22	9532423	3	1
In1" - OutM22	9532424	4	1

## STAMPED MANIFOLD

#### 9532A

Male outlets 35 mm interaxis



Size	ITEM No	N° of outlets	Qty
In3/4 - Out1/2	9532142	2	1
In3/4 - Out1/2	9532143	3	1
In3/4 - Out1/2	9532144	4	1
In1" - Out1/2	9532342	2	1
In1" - Out1/2	9532343	3	1
In1" - Out1/2	9532344	4	1



## BAR MANIFOLDS

### 9800

Female outlet Interaxis 50 mm



Size	ITEM No	N° of outlets	Qty
In3/4 - Out1/2	9800202	2	1
In3/4 - Out1/2	9800203	3	1
In3/4 - Out1/2	9800204	4	1
In3/4 - Out1/2	9800205	5	1
In3/4 - Out1/2	9800206	6	1
In3/4 - Out1/2	9800207	7	1
In3/4 - Out1/2	9800208	8	1
In3/4 - Out1/2	9800209	9	1
In3/4 - Out1/2	9800210	10	1
In1" - Out1/2	9800302	2	1
In1" - Out1/2	9800303	3	1
In1" - Out1/2	9800304	4	1
In1" - Out1/2	9800305	5	1
In1" - Out1/2	9800306	6	1
In1" - Out1/2	9800307	7	1
In1" - Out1/2	9800308	8	1
In1" - Out1/2	9800309	9	1
In1" - Out1/2	9800310	10	1
In1" - Out1/2	9800311	11	1
In1" - Out1/2	9800312	12	1
In1 1/4 - Out1/2	9800402	2	1
In1 1/4 - Out1/2	9800403	3	1
In1 1/4 - Out1/2	9800404	4	1
In1 1/4 - Out1/2	9800405	5	1
In1 1/4 - Out1/2	9800406	6	1
In1 1/4 - Out1/2	9800407	7	1
In1 1/4 - Out1/2	9800408	8	1
In1 1/4 - Out1/2	9800409	9	1
In1 1/4 - Out1/2	9800410	10	1

## BAR MANIFOLDS

### 9800A

Female outlet Interaxis 50 mm 3/8 air vent holes



Size	ITEM No	N° of outlets	Qty
In1" - Out1/2	9800252	2	1
In1" - Out1/2	9800253	3	1
In1" - Out1/2	9800254	4	1
In1" - Out1/2	9800255	5	1
In1" - Out1/2	9800256	6	1
In1" - Out1/2	9800257	7	1
In1" - Out1/2	9800258	8	1
In1" - Out1/2	9800259	9	1
In1" - Out1/2	9800260	10	1

## ACCESSORIES

### FEMALE END CAP

#### 9825

with flat seal for outlet of 9532



Size	ITEM No	Qty
M22	982522	10
3/4	982526	10

### MALE-MALE ADAPTER

#### 9810

For manifold 9800



Size	ITEM No	Qty
3/8"-M22	981032	10
1/2"-M22	981042	10
1/2"-3/4"	981046	10
3/4"-M22	981062	10
3/4"-3/4"	981066	10

## MALE-MALE ADAPTER

### 9810N

Nickel plated for manifold 9800



Size	ITEM No	Qty
1/2"-M22	981022	10

## ADAPTER WITH O-RING

### 9810JT



Size	ITEM No	Qty
1/2"-M22	9810621	10
1/2"-3/4"	1C2070201	10
M 1-3/4"	1C2070301	10

## ADAPTER WITH O-RING

### 9810JTEUR



Size	ITEM No	Qty
1/2"-3/4E	98105461	10
3/4"-3/4E	98105661	10

## FEMALE-MALE ADAPTER

### 9811



Size	ITEM No	Qty
3/8"-M22	981132	10
1/2"-M22	981042	10
1/2"-3/4"	981146	10
3/4"-M22	981162	10
3/4"-3/4"	981166	10

## STRAIGHT COUPLING

### 9815



Size	ITEM No	Qty
M22-M22	981522	10
3/4"-3/4"	981526	10

## STRAIGHT COUPLING

### 9815N

Nickel plated



Size	ITEM No	Qty
M22-M22	981523	10

## MALE-MALE ADAPTER

### 9812N

For manifold 9800



Size	ITEM No	Qty
M22x1/2"	27632	10

## COUPLING

**9814N**

Nickel plated



Size	ITEM No	Qty
M22 x 1/2"	VBG93A00	10

## MALE END CAP FOR 9800 MANIFOLD

**9821**



Size	ITEM No	Qty
3/8	982103	10
1/2	982104	10
3/4	982106	10
1"	982108	10
1 1/4	982110	2

## TEE

**9438**



Size	ITEM No	Qty
M22 - 1/2	9438004	1
M22 - 3/4	9438006	150

## BALL VALVES FULL BORE WITH T BAR AND CONNECTION

**6826**



Size	ITEM No	Qty
3/4"	V111049001	1
1"	V111050001	1
1 1/4"	V111051001	1

## MANIFOLD COVER

**9861**

This unit is placed over the manifold after installation



Size	ITEM No	Qty
L=550 (2 to 6 outlets)	98610206	1
L=750 (7 to 11 outlets)	98610711	1

## UNION FITTING FOR COMBINING MANIFOLDS 9800

**9829**



Size	ITEM No	Qty
3/4"	982906	10
1"	982908	10

## MALE-FEMALE REDUCTION WITH FLAT RING

**9822**



Size	ITEM No	Qty
1/2	982264	10
1/2	982284	10
3/4	982286	10

## ISOLATING VALVE

**6437**

For isolating M22 or 1/2 flat joint connection circuits



Size	ITEM No	Qty
1/2"	643704	10
M22	643722	10

## FIXING BRACKETS

**9832**

For synthetic floor heating manifolds



ITEM No	Qty
983200	2

## FEMALE END CAP

**9761**

With O-ring for manifolds 9532 and 9532A



Size	ITEM No	Qty
3/4"	9761006	10
1"	9761008	10

## AUTOMATIC AIR VENT

**3081**

With non-return valve - Brass finish



Size	ITEM No	Qty
3/8"	308103	10
1/2"	308104	10

## MALE AIR VENT COUPLING

**9827**



Size	ITEM No	Qty
3/4"	982706	10
1"	982708	10
1 1/4"	982730	1

## FEMALE AIR VENT COUPLING

**9828**



Size	ITEM No	Qty
3/4"	982806	10
1"	982808	10

## DRAINING BALL TAP WITH THREADS

**121**



Size	ITEM No	Qty
1/2"	121004	1

## DRAINING BALL TAP WITH UNION

**122**



Size	ITEM No	Qty
1/2"	122004	1

## END MODULE

### 9827K

Includes items 9827, 3081, 122



Size	ITEM No	Qty
3/4	982756	10
1/2	982758	1

## END MODULE

### 9828K

Includes items 9828, 3081, 122

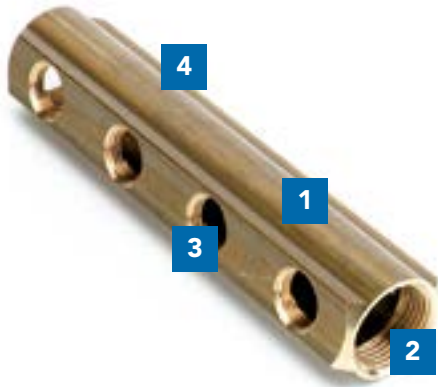


Size	ITEM No	Qty
3/4	982856	10
1/2	982858	10



# MANIFOLDS

## CONSTRUCTION



### Straight bar manifolds 9800

- 1 Manifolds manufactured from brass lengths
- 2 Inlet; female thread 3/4 - 1" - 1" 1/4
- 3 Outlet with 50mm interaxis; female thread 1/2
- 4 Air vent opening; female thread 3/8

### Stamped manifold 9532E

- 1 Stamped manifolds
- 2 Inlet; male/female thread 3/4 - 1"
- 3 Outlet with 35mm interaxis; male thread M22 or 1/2



## FLOW RATES

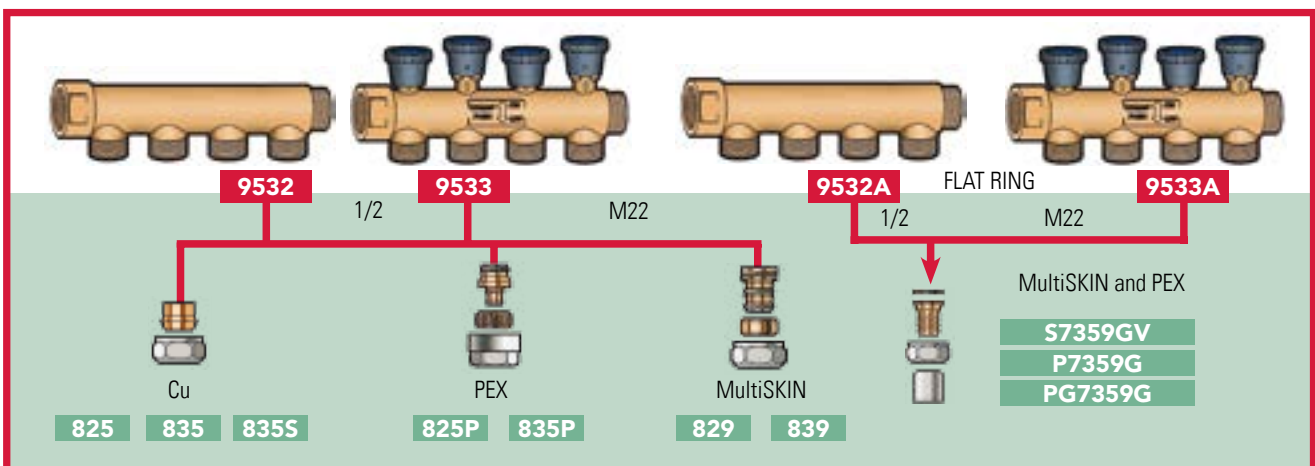
### Straight bar manifolds

3/4	Max. 1600 l/hr
1"	Max. 2200 l/hr
1"1/4	Max. 3600 l/hr

### Stamped manifolds

3/4	Max. 1350 l/hr
1"	Max. 1900 l/hr

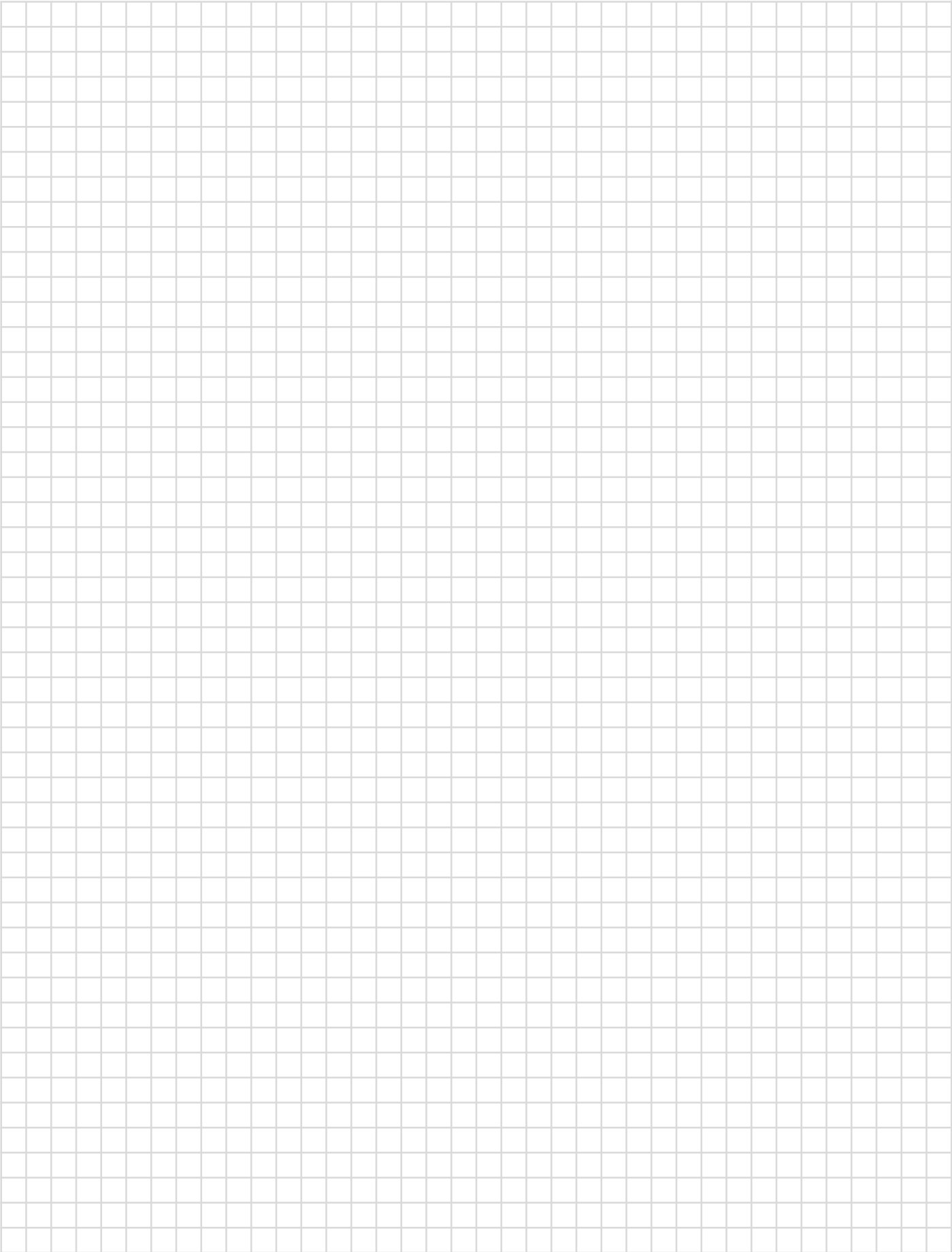
## CONNECTION



## INSTALLATION

We recommend that all manifolds be placed where they remain accessible after installation (basement, closet, beneath a sink), but hidden from public view and protected from frost.

# NOTES



# JUNCTION BOXES

Junction boxes guarantee the liaison between pipes and heating or plumbing accessories. Made of synthetic material, they are resistant to corrosion. If necessary, they allow easy access to the installation without damage to the surrounding wall.

## JUNCTION BOXES FOR SANITARY APPLICATIONS

### SIMPLE JUNCTION BOX

#### 9840

For embedded applications. Includes protection cap



Size	ITEM No	Qty
M22 - F1/2	984010	1

### STANDARD JUNCTION BOX

#### 9840A

With crimp fitting for PEX Ø 12 and 16 mm



Size	ITEM No	Qty
12x1,1 - F1/2	9840124	1
16x1,5 - F1/2	9840164	1

### STANDARD JUNCTION BOX 1/2"

#### 9840B

Inlet with flat ring



Size	ITEM No	Qty
1/2 - F1/2	984030	1

### COMPLETE MURAL KIT SIMPLE BOXES

#### 9840K

Interaxis 150 mm



Size	ITEM No	Qty
M22 - F1/2	984020	10

### DIVIDABLE FIXING BRACKET

#### 9505

Interaxis 150mm. For use with two 9840



ITEM No	Qty
950500	10



## DOUBLE JUNCTION BOX

**9846**

For embedded applications. Available in 3/4 COMAP and 3/4 Eurocone



Size	ITEM No	Qty
3/4E - F1/2	984610	10

## INTERAXIS 150 MM FOR USE WITH TWO 9846

**9510**



ITEM No	Qty
951000	10

## JUNCTION BOXES FOR HEATING APPLICATIONS

### SIMPLE JUNCTION BOX

**9841**

For embedded applications. Includes fitting for 15 mm pipe and protection cap



Size	ITEM No	Qty
M22-15	984110	10

### SIMPLE JUNCTION BOX

**9847**

For embedded applications. Includes protection cap



Size	ITEM No	Qty
M22 - F1/2	984710	10

## FIXING BRACKET

**9504**

For 9800 manifolds and 9532 For s 3/4, 1" and 1" 1/4



ITEM No	Qty
950400	10

## LARGE COVER PLATE

**9854**

For models 9848 et 9841



Size	ITEM No	Qty
61 mm	985400	10
50 mm	985405	10

## EXTENSION

**9848**

ø 15mm. Delivered with 835 fitting in 22 - 15 mm. L = 80mm. For use with 9847



Size	ITEM No	Qty
M1/2	984800	2

## DOUBLE COVER PLATE,

**9855**

Adjustable from ø 10 to 18mm. Protection sleeve



ITEM No	Qty
985500	1

## FLOOR JUNCTION BOXES

### DOUBLE FLOOR BLEND

**9540**

and double cover plate



ITEM No	Qty
31107	10

### PROTECTION SLEEVE

**9840C**



ITEM No	Qty
9840015	10



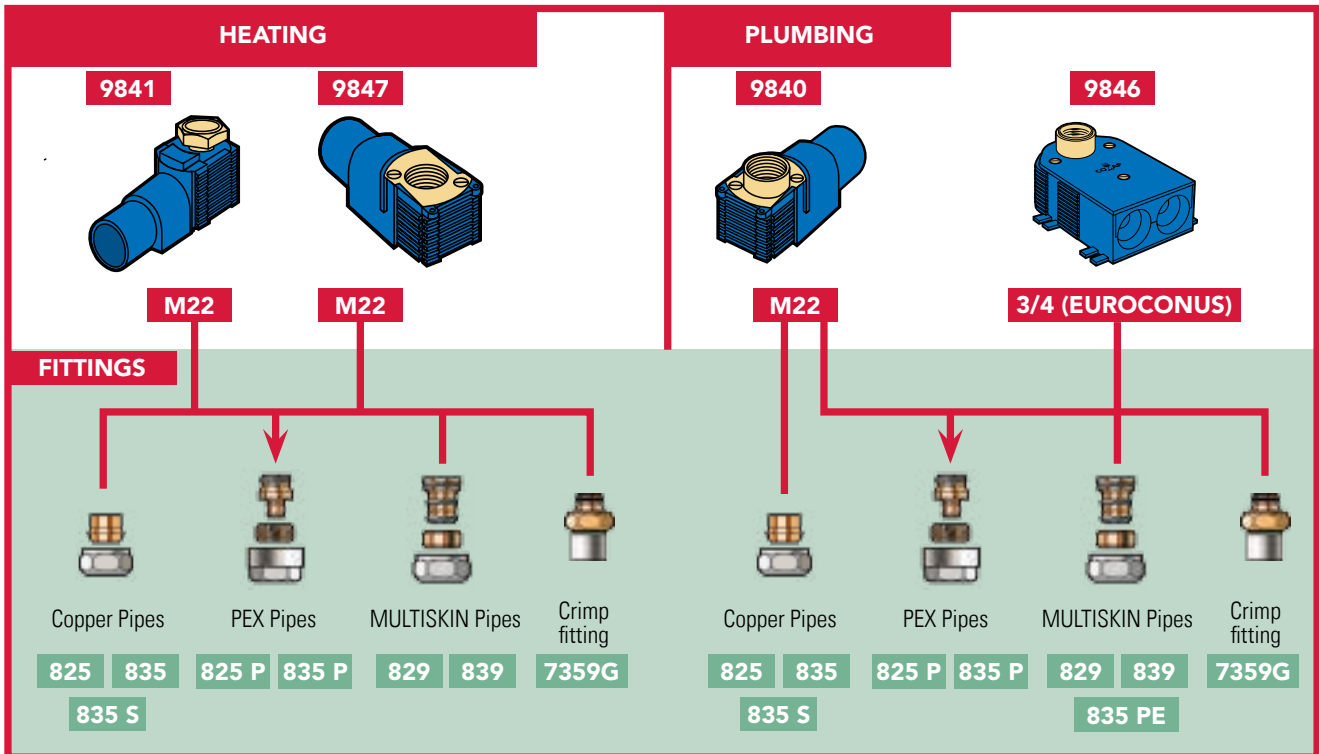
# JUNCTION BOXES

## TECHNICAL INFORMATION

Heating boxes	Model 9847	Model 9841
Height	40mm	40mm
Width	35mm	35mm
Length	102mm	102mm
Outlet	½ interior thread	M22 with 15mm fitting
Inlet	M22 exterior thread	M22 exterior thread

Plumbing boxes	Model 9840	Model 9846
Height	40mm	40mm
Width	35mm	95mm
Length	102mm	126mm
Interaxial	-	35mm
Outlet	½ interior thread	½ interior thread
Inlet	M22 exterior thread	2 x ¾ exterior thread (Euroconus)

## CONNECTION



Note : All 3/4 Euroconus threaded are defined as 3/4E.

## INSTALLATION



The junction boxes presented here have a universal gas 1/2 female outlet.

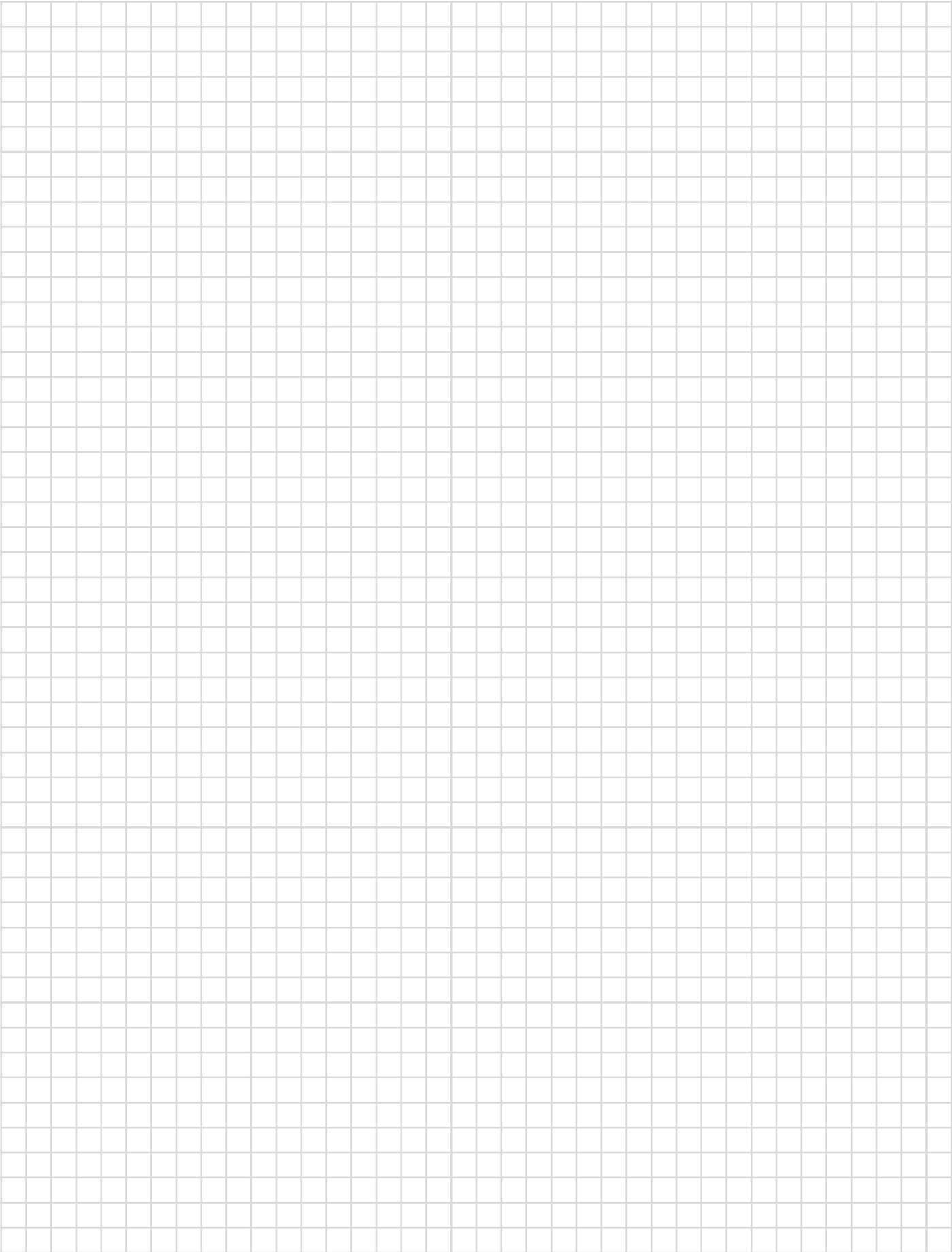
The 35mm threading range allows for easy positioning on any wall type. The encasement depth of 40mm is also in line with most dry wall standards. The double junction box shown here can be fixed directly on the wall due to its pre-perforated base.

The junction boxes are to be used with the SKINPress and PEXPress crimp fittings range and the 825P comPression fittings range, designed for most configurations.

We recommend that the fittings remain accessible after installation to allow for future interventions. This is possible by avoiding encasing the fitting in the wall, and by using a covering cap.

Note: Make sure the pipe moves freely in the outer corrugated conduit before the final installation.

# NOTES



# CONNECTORS FOR MANIFOLDS AND JUNCTION BOXES

## CONNECTORS FOR MULTILAYER

### MECHANICAL FITTING M22, 3/4 OR 1"

#### 829

Interior thread, brass finish

\* 3/4 thread not compatible with junction box 9846



Size	ITEM No	Qty
M22-14x2	829514	2
M22-16x2	829516	2
3/4-16x2 *	829716	2
3/4-18x2 *	829718	2
3/4-20x2 *	829719	2
1"-26x3	829821	2
1/2" - 16x2	1C2071000	2

### COMPRESSION ADAPTER

#### J829(C)

Connecting MultiSKIN to copper fittings



Size	ITEM No	Qty
15 - 14x2	829142	2
22-20x2-22	829202	2

### COMPRESSION ADAPTER

#### J829

Connecting MultiSKIN to copper fittings



Size	ITEM No	Qty
15 - 16x2	VPDBWA60	2

### MECHANICAL FITTING M22

#### 839

Threaded, nickel plated



Size	ITEM No	Qty
M22-14x2	839514	2
M22-16x2	839516	2
M22-18x2	839418	2
M22-20x2	839420	2
1/2" - 16x2	1C2071001	2

## COMPRESSION ADAPTER

### J839

Nikel plated  
Connecting MultiSKIN to copper fittings



Size	ITEM No	Qty
15 - 16x2	VPDBWA73	2

## CONNECTORS FOR PEX AND MULTILAYER

## MECHANICAL FITTING 3/4 EUROCONE

### 835PE

Interior thread, brass finish 6 sides nuts



Size	ITEM No	Qty
3/4E-12x2	835722	2
3/4E-15x2,5	8358625	2
3/4E - 16x1,5	A731001001	2
3/4E - 16x2	A731002001	2
3/4E-17x2	835872	2
3/4E-18x2	835882	10

## CONNECTORS FOR PEX

## MECHANICAL FITTING M22

### 825P

Interior thread, nickel plated



Size	ITEM No	Qty
M22-12/1,1	825221	2
M22-14x2	825242	2
M22-15x2,5	825253	2
M22-16x1,5	825261	2
M22-16x2	825262	2
M22-16x2,2	8252622	2

## MECHANICAL FITTING 3/4

### 825P-3/4

Interior thread, brass finish



Size	ITEM No	Qty
3/4-16x1,5	825561	2
3/4-16x2	925562	2
3/4-16x2,2	9255622	2
3/4-18 x 2 mm	925582	2
3/4-20x1,9	835601	2
3/4-20x2,8 mm	825628	2

## MECHANICAL FITTING 3/4

### 835P-3/4

Interior thread, nickel plated



Size	ITEM No	Qty
3/4-16x1,5	835561	2
3/4-20x1,9	835601	2

## MECHANICAL FITTING M22

### 835P

Interior thread, brass finish

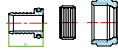


Size	ITEM No	Qty
M22-12x1,1	835221	2
M22-12x1,8	8352218	2
M22-12x2	835222	2
M22-13x2,5	835233	2
M22-14x2	835242	2
M22-15x2,5	835253	2
M22-16x1,5	835261	2
M22-16x2	835262	2
M22-16x2,2	8352622	2
M22-17x2	835272	2
M22-18x2	835082	2
M22-18x2,5	835083	2

## MECHANICAL FITTING 1/2

### 9440

Interior thread, brass finish



Size	ITEM No	Qty
15X2,5-1/2	9440024	10
16X2-1/2	9440031	10
16X2,2-1/2	9440032	10

## LIAISON FITTINGS : CONNECTING PEX PIPES TO CU COMPRESSION FITTINGS

### JPEX



Size	ITEM No	Qty
14 - 16x2	825142	2
20 - 22x2	825202	2

## CONNECTORS FOR PB

### FOR PB PIPES M22

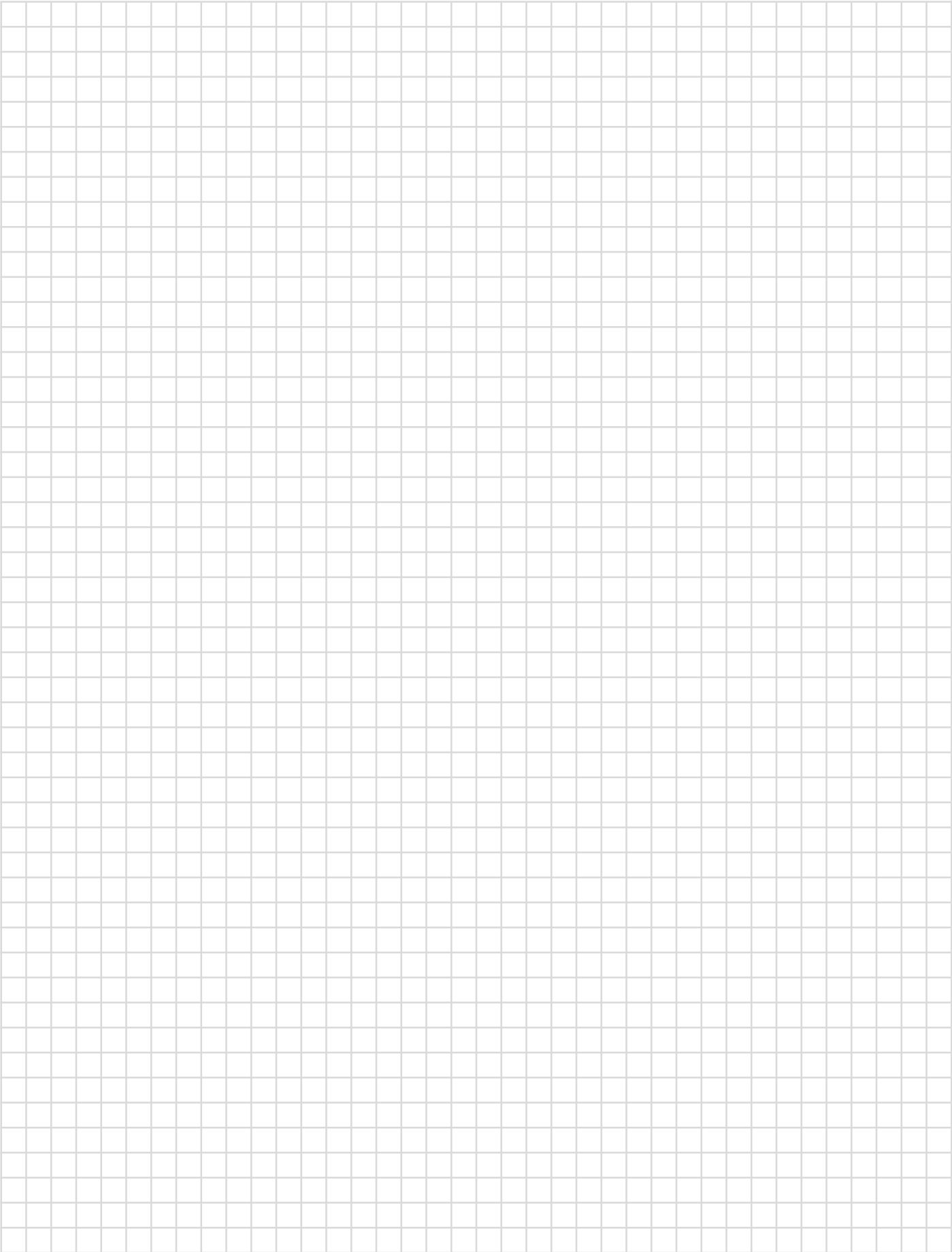
### 835PB



Size	ITEM No	Qty
M22-14x2	835916	2
M22-16x2	835931	2



# NOTES





# Traditional Fittings

Traditional fitting solutions for all your needs

We provide a wide range of traditional fittings for Multilayer, PEX and copper pipes. They are available in three different technologies: compression fitting, slide fitting (PEXY) and end feed.

## APPLICATIONS

Technology	Comap offer	Pipe	Sanitary	Gas	Heating	Cooling	Underfloor
Slide fittings	PEXY	PEX	○		○	○	○
Compression	TurboSKIN	Multilayer	○		○	○	○
Compression	TurboPEX	PEX	○		○	○	○
Compression	Jevco	Copper	○		○	○	
End feed	SUDO Copper	Copper	○	○	○	○	
End feed	SUDO Brass	Copper	○		○	○	
End feed	SUDO Gunmetal	Copper	○		○	○	

## UNBEATABLE QUALITY AND CHOICE

**PROVEN EXPERTISE:** Benefit from more than 60 years of Comap experience in fittings manufacturing and the plumbing industry.

**TOP QUALITY:** We use only high quality metal to manufacture our traditional fittings.

**GUARANTEED PERFORMANCE:** Our fittings have received the main European certifications.

**WIDE SELECTION:** With 7 different ranges, Comap has the solution for every plumbing requirement.

PEXY slide fittings	204
Compression fittings	210
SUDO end feed fittings	224
SUDO accessories	254

# PEXY SLIDE FITTINGS

PEXY slide fittings are available for a wide range of PEX pipes, from 12 to 32mm.



## APPLICATIONS

The PEXY range is non-demountable. It is suitable for apparent or embedded applications and can be used in new installations or renovations. It should only be used with PEX pipes from Comap.

	Sanitary	Gas	Heating	Cooling	Underfloor
PEXY	X		X	X	X



EUROPEAN PRODUCTION

## BENEFITS

- Slide fittings are easy to use and quicker than other traditional solutions.
- Non-demountable – suitable for all applications.
- Reliable and safe.

## FEATURES

- Slide fittings in brass from 12 to 32mm.

Certifications:



## PEXY - FOR PEX

### 90° ELBOW

PG7090



Size	ITEM No	L	Z	Qty
12x1,1	4330	27	15	10
16x1,5	4331	27,5	15	10
20x1,9	4332	27,5	15	10
25x2,3	4333	37	21	10

### FEMALE ELBOW

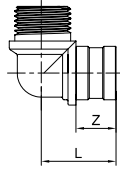
PG7090G



Size	ITEM No	L	Z	Qty
12x1,1 - 3/8	4334	28	15	10
12x1,1 - 1/2	4335	28	15	10
16x1,5 - 3/8	4336	28	15	10
16x1,5 - 1/2	4337	28	15	10
20x1,9 - 1/2	4338	28	15	10

## MALE ELBOW

### PG7092G

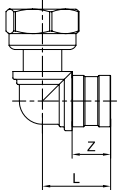


Size	ITEM No	L	Z	Qty
12x1,1 - 3/8	4340	28	15	10
12x1,1 - 1/2	4341	28	15	10
16x1,5 - 1/2	4342	28	15	10
20x1,9 - 1/2	4343	28	15	10

## FEMALE ELBOW

### PG7096G

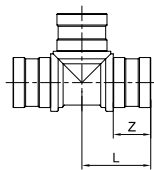
with swivel nut flat ring (not included)



Size	ITEM No	L	Z	Qty
12x1,1 - 1/2	4293	29	15	10
16x1,5 - 1/2	4294	29	15	10
20x1,9 - 1/2	4295	29	15	10
25x2,3 - 3/4	4363	39	21	10

## EQUAL TEE

### PG7130



Size	ITEM No	L	Z	Qty
12x1,1	4296	55	15	10
16x1,5	4297	55	15	10
20x1,9	4298	55	15	10
25x2,3	4299	74	21	10

## FEMALE TEE

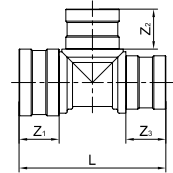
### PG7130G



Size	ITEM No	Qty
12x1,1 - 1/2	4349	10
16x1,5 - 1/2	4350	10
20x1,9 - 1/2	4351	10

## REDUCED TEE

### PG7130R



Size (S1-S2-S3)	ITEM No	L	Z1	Z2	Z3	Qty
12x1,1 - 12x1,1 - 16x1,5	4301	55	15	15	15	10
12x1,1 - 16x1,5 - 16x1,5	4302	55	15	15	15	10
16x1,5 - 12x1,1 - 16x1,5	4303	55	15	15	15	10
16x1,5 - 20x1,9 - 16x1,5	4305	55	15	15	15	10
20x1,9 - 12x1,1 - 16x1,5	4399	55	15	15	15	10
20x1,9 - 12x1,1 - 20x1,9	4307	55	15	15	15	10
20x1,9 - 16x1,5 - 16x1,5	4308	55	15	15	15	10
20x1,9 - 16x1,5 - 20x1,9	4309	55	15	15	15	10
20x1,9 - 20x1,9 - 16x1,5	4310	55	15	15	15	10

## MALE TEE

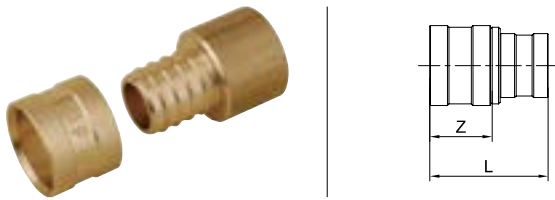
### PG7132G



Size	ITEM No	Qty
12x1,1 - 1/2	4345	10
16x1,5 - 1/2	4346	10
20x1,9 - 1/2	4347	10

## STRAIGHT COUPLING - SOLDER CU

### PG7243CU



Size	ITEM No	L	Z	Qty
12x1,1 - 12	4357	28	15	10
12x1,1 - 14	4358	30	15	10
16x1,5 - 14	4359	30	15	10
16x1,5 - 16	4360	30	15	10
20x1,9 - 18	4361	32	15	10

## RELATED PRODUCTS

### PEX PIPES

To complete your Pexy system, use the Comap range of PEX pipes.



#### BetaPEX-RETUBE range:

Diameters from 12 to 32mm, in PE-Xb. Available with an anti-oxygen barrier (EVOH), ensuring a long service life for heating installations.

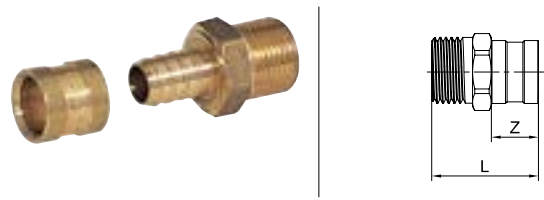
Conforming to EN ISO 15875 standards, these pipes are available in rolls, pre-insulated and protected in a corrugated conduit.

BetaPEX-RETUBE pipes

166

## MALE COUPLING

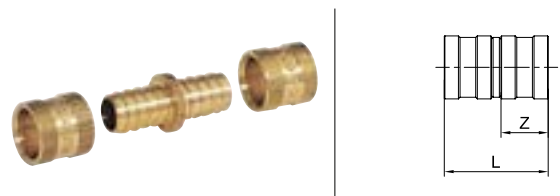
### PG7243G



Size	ITEM No	L	Z	Qty
12x1,1 - 3/8	4269	35	15	10
12x1,1 - 1/2	4270	35	15	10
16x1,5 - 3/8	4271	33	15	10
16x1,5 - 1/2	4272	34	15	10
16x1,5 - 3/4	4273	34	15	10
20x1,9 - 1/2	4274	36	15	10
20x1,9 - 3/4	4275	34	15	10
25x2,3 - 3/4	4277	40	21	10
25x2,3 - 1"	4278	45	21	10
32x2,9 - 1"	5502	48	21	5

## STRAIGHT COUPLING

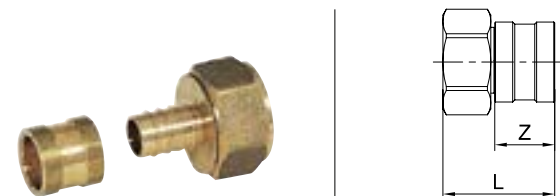
### PG7270



Size	ITEM No	L	Z	Qty
12x1,1	4321	33	15	10
16x1,5	4322	33	15	10
20x1,9	4323	33	15	10
25x2,3	4324	37	21	10

## FEMALE COUPLING

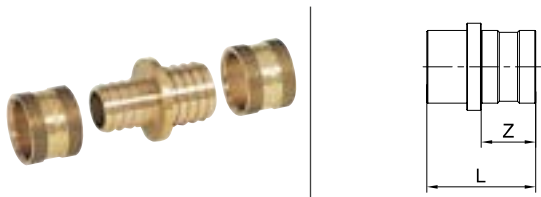
### PG7270G



Size	ITEM No	L	Z	Qty
12x1,1 - 3/8	4279	27	15	10
12x1,1 - 1/2	4280	30	15	10
16x1,5 - 3/8	4281	27	15	10
16x1,5 - 1/2	4282	30	15	10
20x1,9 - 1/2	4283	30	15	10
20x1,9 - 3/4	4284	28	15	10
25x2,3 - 3/4	4285	34	21	10

## REDUCED COUPLING

PG7270R



Size	ITEM No	L	Z	Qty
16x1,5 - 12x1,1	4325	33	15	10
20x1,9 - 12x1,1	4326	33	15	10
20x1,9 - 16x1,5	4327	33	15	10

## FEMALE SWIVEL NUT WITH FLAT RING

PG7359G



Size	ITEM No	L	Z	Qty
12x1,1 - 3/8	4260	28	15	10
12x1,1 - 1/2	4261	30	15	10
16x1,5 - 3/8	4262	28	15	10
16x1,5 - 1/2	4263	30	15	10
16x1,5 - 3/4	4264	29,5	15	10
20x1,9 - 1/2	4265	30	15	10
20x1,9 - 3/4	4266	29,5	15	10
25x2,3 - 3/4	4267	35,5	21	10
25x2,3 - 1"	4268	39	21	10
32x2,9 (32x3) - 1" *	5500	55	21	5

\*No ATEC

## WALL PLATE ELBOW\*

PG7472G



Size	ITEM No	L	Z	Qty
12x1,1 - 1/2	4287	29	15	10
16x1,5 - 1/2	4288	29	15	10
20x1,9 - 1/2	4289	29	15	10

\*No ATEC

## LONG WALL PLATE ELBOW

PG7472GL



Size	ITEM No	L	Z	Qty
12x1,1 - 1/2	4290	29	15	10
16x1,5 - 1/2	4291	29	15	10

## ACCESSORIES FOR PEXY

### SLIDING SLEEVE

PG7502



Size	ITEM No	Qty
12x1,1	4353	10
16x1,5	4354	10
20x1,9	4355	10
25x2,3	4356	10

### SLIDING TOOL SET

PG1

(tool + inserts)



Size	ITEM No	Qty
12-16-20-25	4378	1

### PIPES EXPANDER FOR PEX PIPES

PG3



Size	ITEM No	Qty
12-16-20-25	4377	1



# PEXY FITTINGS

## TECHNICAL INFORMATION

1 Comap guarantee mark

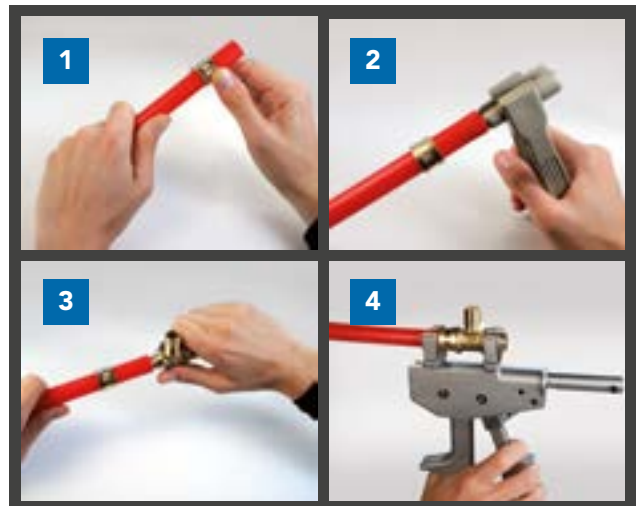


## APPLICATIONS

	Applications
PEXY	Chilled applications: 5°C/6 bar Heating applications: 80°C/6 bar Sanitary applications: 70°C/6 bar Water or 50% water or 50% glycol

## INSTALLATION

- 1 Cut the pipe and slide the ring onto it.
- 2 Widen the pipe, using the correct tool.  
See the Tools and Accessories page (p. 176) for more information
- 3 Insert the fitting into the pipe.
- 4 Choose the appropriate jaws and slide the ring against the fitting.



## TECHNICAL FEATURES

PEX pipes must comply with the dimensions given in the table below.

	PEXY					
External Ø (mm)	12	16	20	25	32	
Thickness (mm)	1.1	1.5	1.9	2.3	2.9	3
Internal Ø (mm)	9.8	13	16.2	20.4	26.2	26



# NOTES

A large grid of graph paper for taking notes, consisting of 20 columns and 30 rows of small squares.

# COMPRESSION FITTINGS

Our range includes fittings for a wide range of pipes:

- TurboSKIN compression fittings are suitable for Multilayer pipes.
- TurboPEX compression fittings are suitable for PEX pipes.
- SUDO Compression (Jevco) fittings are suitable for Copper pipes.



## APPLICATIONS

Compression fittings are demountable and, therefore, cannot be installed in structural elements (e.g. embedded in a wall or a floor). Compression fittings can only be used for apparent applications or must be accessible. They are suitable for new installations or renovations.

They should only be used with Comap PEX, Comap Multilayer pipes and copper pipes compliant with EN 1057 (according to the fitting as shown in the table below).

Technology	Comap offer	Pipe	Sanitary	Gas	Heating	Cooling	Underfloor
Compression	TurboSKIN	Multilayer	●	-	●	●	●
Compression	TurboPEX	PEX	●	-	●	●	●
Compression	Jevco	Copper	●	-	●	●	



EUROPEAN  
PRODUCTION

## BENEFITS

- EASY TO USE: No specific tools are needed - only regular spanners.
- VERSATILE: Suitable for all repairs.

## FEATURES

- TurboSKIN
  - Compression fittings in brass from 14 to 32mm.
  - High quality EPDM O-ring.
- TurboPEX
  - Compression fittings in brass from 12 to 32mm.
- SUDO Compression (Jevco)
  - Compression fittings in gun metal from 10 to 108mm.
  - Compliant with EN 1254-1 standards.

Certifications:



Turbo PEX and  
TurboSKIN only



SUDO  
Compression only.

MALE COUPLING

9460



Size	ITEM No	Qty
14x2 - 1/2	9460164	10
16x2 - 1/2	9460314	10
16x2 - 3/4	9460316	10
18x2 - 1/2	9460404	10
18x2 - 3/4	9460406	10
20x2 - 1/2	9460514	10
20x2 - 3/4	9460516	10
26x3 - 3/4	9460786	5
26x3 - 1"	9460788	5
32x3-1"	9460968	5

STRAIGHT COUPLING

9461



Size	ITEM No	Qty
14x2	9461016	10
16x2	9461031	10
18x2	9461040	10
20x2	9461051	10
26x3	9461078	10
32x3	9461096	5

FEMALE COUPLING

9462



Size	ITEM No	Qty
14x2 - 1/2	9462164	10
16x2 - 1/2	9462314	10
16x2 - 3/4	9462316	10
18x2 - 1/2	9462404	10
18x2 - 3/4	9462406	10
20x2 - 1/2	9462514	10
20x2 - 3/4	9462516	10
26x3 - 3/4	9462786	5
26x3 - 1"	9462788	5
32x3 - 1"	9462968	5

RELATED PRODUCTS

MULTILAYER PIPES

To complete your TurboSKIN system, choose from the Comap range of Multilayer pipes.



**MultiSKIN range:** Diameters from 14 to 63mm. Made in PEX/Al, with a strong aluminium core for more resistance to high temperatures and pressures.

**BetaSKIN range:** Diameters from 14 to 32mm. Made in PE-RT/Al, with a light aluminium core for more flexibility in pipe handling.

Conforming to EN ISO 21003 standards, these pipes are available in bars, rolls, pre-insulated and protected in a corrugated conduit.

MultiSKIN pipes	158
BetaSKIN pipes	164

## 90° ELBOW

9463



Size	ITEM No	Qty
14x2	9463016	10
16x2	9463031	10
18x2	9463040	10
20x2	9463051	10
26x3	9463078	5
32x3	9463096	5

## MALE ELBOW

9464



Size	ITEM No	Qty
16x2 - 1/2	9464314	10
16x2 - 3/4	9464316	10
18x2 - 1/2	9464404	10
20x2 - 1/2	9464514	10
20x2 - 3/4	9464516	10
26x3 - 3/4	9464786	5
26x3 - 1"	9464788	5
32x3 - 1"	9464968	5

## FEMALE ELBOW

9465



Size	ITEM No	Qty
16x2 - 1/2	9465314	10
16x2 - 3/4	9465316	10
18x2 - 1/2	9465404	10
20x2 - 1/2	9465514	10
20x2 - 3/4	9465516	10
26x3 - 3/4	9465786	5
26x3 - 1"	9465788	5
32x3 - 1"	9465968	5

## WALL PLATE ELBOW

9466



Size	ITEM No	Qty
14x2 - 1/2	9466164	10
16x2 - 1/2	9466314	10
18x2-1/2	9466404	10
20x2 - 1/2	9466514	10
20x2 - 3/4	9466516	10

## TEE

9467



Size	ITEM No	Qty
14x2	9467016	10
16x2	9467031	10
18x2	9467040	10
20x2	9467051	10
26x3	9467078	5
32x3	9467096	5

## MALE TEE

9468



Size	ITEM No	Qty
16x2 - 1/2	9468314	10
20x2 - 1/2	9468514	10
20x2 - 3/4	9468516	10
26x3 - 1/2	9468784	5
26x3 - 3/4	9468786	5
26x3 - 1"	9468788	5
32x3 - 1"	9468968	5

## FEMALE TEE

9469



Size	ITEM No	Qty
16x2 - 1/2	9469314	10
18x2 - 1/2	9469404	10
20x2 - 1/2	9469514	10
20x2 - 3/4	9469516	10
26x3 - 3/4	9469786	5
26x3 - 1"	9469788	5
32x3 - 1"	9469968	5

## REDUCED COUPLING

9461R



Size	ITEM No	Qty
18x2 - 16x2	94614031	10
20x2 - 16x2	94615131	10
26x3 - 20x2	94617851	5

## DOUBLE WALL PLATE ELBOW

9466D



Size	ITEM No	Qty
16x2 - 1/2 - 16x2	946631431	10

## REDUCED TEE

9467R

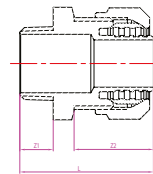


Size (S1-S2-S3)	ITEM No	Qty
20x2 - 16x2 - 16x2	9467513131	10
20x2 - 16x2 - 20x2	9467513151	10
20x2 - 20x2 - 16x2	9467515131	10
26x3 - 16x2 - 26x3	9467783178	5
26x3 - 20x2 - 20x2	9467785151	10
26x3 - 20x2 - 26x3	9467785178	5
26x3 - 26x3 - 20x2	9467787851	5
32x3 - 26x3 - 32x3	9467967896	5

## TURBOPEX - FOR PEX

### MALE COUPLING

9400



Size	ITEM No	L	Z1	Z2	Qty
12x1,1 - 3/8	9400103	35,5	10	19,5	10
12x1,1 - 1/2	9400104	36,5	11	19,5	10
14x2 - 1/2	9400114	36,5	11	19,5	10
15x2,5 - 1/2	9400244	38	11	21,5	10
16x1,5 - 1/2	9400304	38	11	21,5	10
16x2 - 1/2	9400314	38	11	21,5	10
16x2,2 - 1/2	9400324	38	11	21,5	10
16x2,2 - 3/4	9400326	38,5	12	21,5	10
18x2 - 1/2	9400404	37	11	20	10
18x2,5 - 1/2	9400444	37	11	20	10
18x2,5 - 3/4	9400446	38	12	20	10
20x1,9 - 3/4	9400506	39,5	12	21,5	10
20x2 - 1/2	9400514	38,5	11	21,5	10
20x2 - 3/4	9400516	39,5	12	21,5	10
20x2,8 - 1/2	9400554	38,5	11	21,5	10
20x2,8 - 3/4	9400556	39,5	12	21,5	10
22x3 - 1/2	9400664	38,5	11	22,5	10
22x3 - 3/4	9400666	39,5	12	21,5	10
25x2,3 - 3/4	9400736	48	12	29	10
25x2,3 - 1"	9400738	51	15	28,5	10
25x3,5 - 3/4	9400776	48	12	28,5	10
25x3,5 - 1"	9400778	51	15	28,5	10
28x3 - 1"	9400868	51	15	28,5	10
32x3 - 1"	9400968	51,5	15	28	10

# RELATED PRODUCTS

## PEX PIPES

To complete your TurboPEX system, use the Comap range of PEX pipes.



### BetaPEX-RETUBE range:

Diameters from 12 to 32mm, in PE-Xb. Available with an anti-oxygen barrier (EVOH), ensuring a long service life for heating installations.

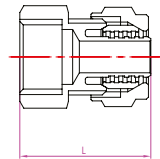
Conforming to EN ISO 15875 standards, these pipes are available in rolls, pre-insulated and protected in a corrugated conduit.

BetaPEX-RETUBE pipes

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## FEMALE COUPLING

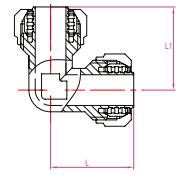
9402



Size	ITEM No	L	Qty
12x1,1 - 3/8	9402103	31	10
12x1,1 - 1/2	9402104	32,5	10
15x2,5 - 1/2	9402244	34,5	10
16x1,5 - 1/2	9402304	34,5	10
16x2 - 1/2	9402314	34,5	10
16x2,2 - 1/2	9402324	34,5	10
16x2,2 - 3/4	9402326	36,5	10
18x2 - 1/2	9402404	33	10
18x2,5 - 1/2	9402444	33	10
20x1,9 - 1/2	9402504	33	10
20x1,9 - 3/4	9402506	35,5	10
20x2 - 1/2	9402514	33	10
20x2 - 3/4	9402516	35,5	10
20x2,8 - 1/2	9402554	33	10
20x2,8 - 3/4	9402556	36,5	10
22x3 - 1/2	9402664	33	10
22x3 - 3/4	9402666	35,5	10
25x2,3 - 3/4	9402736	36	10
25x3,5 - 3/4	9402776	36	10
28x3 - 1"	9402868	46	10
32x3 - 1"	9402968	40	10

## 90° ELBOW

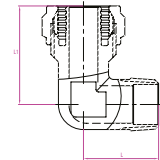
9403



Size	ITEM No	L	L1	Qty
16x2	9403031	35	35	10
16x2,2	9403032	35	35	10
18x2	9403040	37,5	37,5	10
18x2,5	9403044	37	37	10
20x2	9403051	39	39	10
20x2,8	9403055	39	39	10

## MALE ELBOW

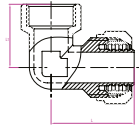
9404



Size	ITEM No	L	L1	Qty
15x2,5 - 1/2"	9404244	35	28,5	10
16x2 - 1/2	9404314	35	28,5	10
16x2 - 3/4	9404316	35	34	10
16x2,2 - 1/2	9404324	35	28,5	10
18x2 - 1/2	9404404	34	29,5	10
18x2,5 - 1/2	9404444	34	29,5	10
20x2 - 1/2	9404514	39	30	10
20x2 - 3/4	9404516	39	33	10
20x2,8 - 1/2	9404554	39	30	10
20x2,8 - 3/4	9404556	39	33	10
22x3 - 3/4	9404666	39	33	10
25x3,5 - 3/4	9404776	46	33	5

## FEMALE ELBOW

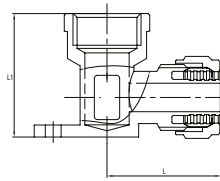
9405



Size	ITEM No	L	L1	Qty
15x2,5 - 1/2	9405244	35	31,5	10
16x2 - 1/2	9405314	35	31,5	10
16x2,2 - 1/2	9405324	35	31,5	10
18x2 - 1/2	9405404	35	31,5	10
18x2,5 - 1/2	9405444	35	31,5	10
20x2 - 1/2	9405514	39	31,5	10
20x2 - 3/4	9405516	39	35	10
20x2,8 - 1/2	9405554	39	31	10
20x2,8 - 3/4	9405556	39	35	10
22x3 - 1/2	9405664	39	31,5	10
25x3,5 - 3/4	9405776	46	35	5

## WALL PLATE ELBOW

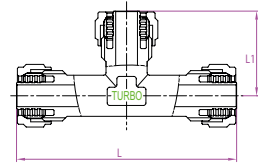
9406



Size	ITEM No	L	L1	Qty
15x2,5 - 1/2	9406244	36	39	10
16x2 - 1/2	9406314	36	39	10
16x2,2 - 1/2	9406324	36	39	10
18x2 - 1/2	9406404	37,5	40,5	10
18x2,5 - 1/2	9406444	37,5	40,5	10
20x2,8 - 1/2	9406554	38	46,5	10

## TEE

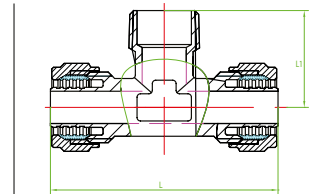
9407



Size	ITEM No	L	L1	Qty
15x2,5	9407024	70	35	10
16x2	9407031	70	35	10
16x2,2	9407032	70	35	10
18x2	9407040	75	37,5	10
18x2,5	9407044	74	37	10
20x2	9407051	78	39	10
20x2,8	9407055	78	39	10
22x3	9407066	80	40	10

## MALE TEE

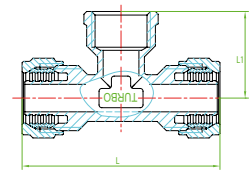
9408



Size	ITEM No	L	L1	Qty
16x2 - 1/2 - 16x2	9408314	67	28,5	10
22x3 - 3/4 - 22x3	9408666	80	33	10

## FEMALE TEE

9409



Size	ITEM No	L	L1	Qty
16x2 - 1/2 - 16x2	9409314	67	31,5	10
16x2,2 - 1/2 - 16x2,2	9409324	67	31,5	10
18x2 - 1/2 - 18x2	9409404	78	33	10
18x2,5 - 1/2 - 18x2,5	9409444	70	31,5	10
20x2 - 1/2 - 20x2	9409514	78	33	10
20x2,8 - 1/2 - 20x2,8	9409554	78	33	10
22x3 - 3/4 - 22x3	9409666	80	36	10

## MALE COUPLING WITH O-RING

9400JT



Size	ITEM No	Qty
16x2 - 1/2	9400364	10
16x2 - 3/4	9400316	10
16x2,2 - 1/2	9400374	10

## STRAIGHT COUPLING

940A1



Size	ITEM No	Qty
15x2,5	9401024	10
16x2	9401031	10
16x2,2	9401032	10
18x2	9401040	10
18x2,5	9401044	10
20x2	9401051	10
20x2,8	9401055	10
22x3	9401066	10

## SUDO COMPRESSION - FOR COPPER

### RIGHT UNION MALE

J500



Size	ITEM No	Qty
10-1/4	8500022	10
10-3/8	8500032	10
10-1/2	8500042	10
12-3/8	8500033	10
12-1/2	8500043	10
14-3/8	8500034	10
14-1/2	8500044	10
14-3/4	8500064	10
15-1/2	8500045	10
15-3/4	8500065	10
16-1/2	8500046	10
16-3/4	8500066	10
18-1/2	8500047	10
18-3/4	8500067	10
22-1/2	8500049	10
22-3/4	8500069	10
22-1"	8500089	10
28-3/4	8500070	10
28-1"	8500090	10
35-1"1/4	8600111	1
54-2"	8600174	1



## RIGHT UNION FEMALE

### J501



Size	ITEM No	Qty
10-3/8	8501032	10
10-1/2	8501042	10
12-3/8	8501033	10
12-1/2	8501043	10
14-3/8	8501034	10
14-1/2	8501044	10
15-1/2	8501045	10
15-3/4	8501065	10
16-1/2	8501046	10
16-3/4	8501066	10
18-3/4	8501067	10
18-1/2	8501047	10
22-1/2	8501049	10
22-3/4	8501069	10
22-1"	8501089	10
28-1"	8501090	10
35-1"1/4	8601111	1
42-1"1/2	8601133	1

## \* NOTE

### SUDO COMPRESSION (JEVCO) INSERT



When installing SUDO Compression fittings (Jevco) on annealed pipe, it is mandatory to use a reinforcing insert to strengthen the pipe.

Jevco reinforcing insert

141

## RIGHT UNION

### J503

2 sides compression



Size	ITEM No	Qty
10	8503022	10
12	8503033	10
14	8503044	10
15	8503055	10
16	8503066	10
18	8503077	10
22	8503099	10
28	8503110	10
35	8603121	1
42	8603143	1
54	8603154	1

## REDUCED RIGHT UNION

### J503R

2 sides compression



Size	ITEM No	Qty
12-10	8503032	10
22-15	8503095	10
28-22	8503109	10

## 90° ELBOW MALE

J507



Size	ITEM No	Qty
10-1/2	8507042	10
12-3/8	8507033	10
12-1/2	8507043	10
14-1/2	8507044	10
15-1/2	8507045	10
16-1/2	8507046	10
18-1/2	8507047	10
18-3/4	8507067	10
22-3/4	8507069	10
28-1"	8507090	10

## 90° ELBOW FEMALE

J509



Size	ITEM No	Qty
12-1/2	8509043	10
14-1/2	8509044	10
15-1/2	8509045	10
16-1/2	8509046	10
16-3/4	8509066	10
18-1/2	8509047	10
18-3/4	8509067	10
22-1/2	8509049	10
22-3/4	8509069	10
28-1"	8509090	10

## 90° ELBOW

J512

2 sides compression



Size	ITEM No	Qty
10	8512022	10
12	8512033	10
14	8512044	10
15	8512055	10
16	8512066	10
18	8512077	10
22	8512099	10
28	8512110	10
35	8612121	1
42	8612143	1
54	8612154	1

## 90° REDUCED ELBOW

J512R

2 sides compression



Size	ITEM No	Qty
22-15	8512095	10
28-22	8512109	10

## BACKPLATE ELBOW FEMALE

J510

3 screws fixing



Size	ITEM No	Qty
12-1/2	8510043	10
14-1/2	8510044	10
15-1/2	8510045	10
16-1/2	8510046	10

## EQUAL TEE

J514



Size	ITEM No	Qty
10	8514010	10
12	8514012	10
14	8514014	10
15	8514015	10
16	8514016	10
18	8514018	10
22	8514022	10
28	8514028	10
35	8614035	5
42	8614042	1
54	8614054	1

## REDUCED TEE

J515



Size (S1-S2-S3)	ITEM No	Qty
22-15-22	85150950	10
28-15-28	85151050	10
28-22-28	85151090	5

## REDUCED TEE FEMALE TO SCREW

J518



Size	ITEM No	Qty
12-1/2-12	85180343	10
14-1/2-14	85180444	10
15-1/2-15	85180545	10
18-1/2-18	85180747	10
22-1/2-22	85180949	10
22-3/4-22	85180969	10
28-1"-28	85181090	10

## INTERNAL REDUCER

J637



Size	ITEM No	Qty
18-15	8637075	10
22-15	8637085	10
22-18	8637097	10

## NUT

JCN



Size	ITEM No	Qty
12	8599012	10
15	8599015	10
18	8599018	10

## BRASS DOUBLE CONE RING

JCR



Size	ITEM No	Qty
10	8599410	10
12	8599412	10
14	8599414	10
15	8599415	10
16	8599416	10
18	8599418	10
22	8599422	10
28	8599428	10
35	8599435	10

## REINFORCING INSERT

**9216**

for annealed copper pipe



Size	ITEM No	Qty
8	9216008	50
10	9216010	50
12	9216012	50
13	9216013	50
14	9216014	50
16	9216016	50

## COMPRESSION FITTING

**823RMC**

Spare part - Distributor to Pipe



Size	ITEM No	Qty
M22-15	823415	10

## COMPRESSION FITTING

**824RMC**

Spare part - Valve to Pipe



Size	ITEM No	Qty
15-1/2	824402	10

## COMPRESSION FITTING

**825**

Non nickel Finish



Size	ITEM No	Qty
M22-15	825415	10

## COMPRESSION FITTING

**834**

Valve to Pipe



Size	ITEM No	Qty
12-3/8	587123	10
12-1/2	587124	10
14-1/2	587144	10
15-1/2	587154	10
16-1/2	587164	10
18-3/4	587186	10
22-3/4	587226	10

## OLIVE COMPRESSION FITTING

**835**

with SarFit fast connection - for twin or triple panel radiator



Size	ITEM No	Qty
M22-10	835410	10
M22-12	835412	10
M22-14	835414	10
M22-15	835415	10
M22-16	835416	10
M22-18	835418	10

## SOFT OLIVE COMPRESSION FITTING

**835E**

3 / 4 - EUROCONUS - Nickel Plated



Size	ITEM No	Qty
18-3/4E	835618	2

## SOFT OLIVE COMPRESSION FITTING

### 835EC

3 / 4 - EUROCONUS - For Chrome finished pipe



Size	ITEM No	Qty
12-3/4E	835912	2
14-3/4E	835914	2
15-3/4E	835915	2
16-3/4E	8359161	2

## DESIGN VALVES CONNECTORS CHROME

### 835ECDECO

3 / 4 - EUROCONUS - Chrome finish



Size	ITEM No	Qty
3/4E-14	8350914	2
3/4E-15	8350915	2
3/4E-16	8350916	2

## DESIGN VALVES CONNECTORS SATIN

### 835ECDECOS

3 / 4 - EUROCONUS - Satin finish



Size	ITEM No	Qty
3/4E-14	8351914	2
3/4E-15	8351915	2
3/4E-16	8351916	2

## SOFT OLIVE COMPRESSION FITTING

### 835S

Plastic ring, threaded, nickel plated - 6 pans nuts SW27



Size	ITEM No	Qty
M22-12	835712	2
M22-15	835715	2
M22-16	835716	2
M24-18	835818	2

## SOFT OLIVE COMPRESSION FITTING

### 836



Size	ITEM No	Qty
M22-10	836410	10
M22-12	836412	10
M22-14	836414	10
M22-15	836415	10

## RELATED PRODUCTS

### STAINLESS STEEL PIPES

To complete our XPress Stainless Steel system, Comap offers a range of stainless steel pipes.



#### SUDOXPRESS Stainless

**Steel range:** In 316 for sanitary applications. Diameters from 15 to 54mm with blue caps.

#### XPress Stainless Steel range:

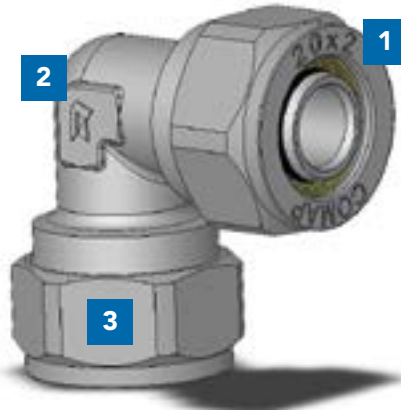
In 439 for industrial applications. Diameters from 15 to 108mm with black caps.

Tolerances conform to EN 10312 standards.

SudoXPress Stainless steel pipes	173
Xpress Stainless steel pipes	173



# TURBO COMPRESSION FITTINGS



**1** EPDM O-ring (TurboSKIN)

**3** CW617N high quality brass (TurboSKIN)

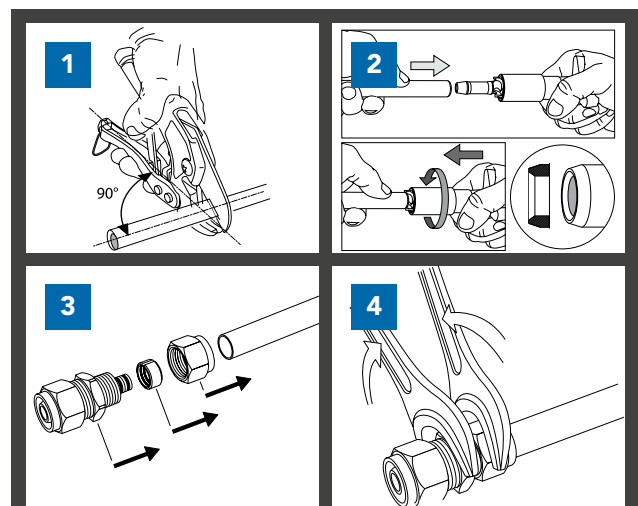
**2** 'A' mark – a Comap quality guarantee

## APPLICATIONS

	Applications
TurboSKIN	Chilled applications: 5°C/10 bar Heating applications: 95°C/10bar Sanitary applications: 95°C/10 bar Water or 50% water or 50% glycol
TurboPEX	Chilled applications: 5°C/6bar Heating applications: 80°C/6 bar Sanitary applications: 70°C/6 bar Water or 50% water or 50% glycol
SUDO Compression (Jevco)	Chilled applications: 5°C/10 bar Heating applications: 110°C/6 bar Sanitary applications: 95°C/16 bar Water or 50% water or 50% glycol

## INSTALLATION

- 1** Cut the pipe at a 90° angle using a pipe cutter.
- 2** TurboPEX/TurboSKIN: Calibrate the pipe using the Comap calibrating tool.  
Jevco: Debur using sandpaper or a deburring tool.
- 3** Mount the nut and then the olive on the pipe.  
Slide the fitting body into the pipe until the stop to ensure tightening.
- 4** Screw the nut, binding it tightly without twisting the pipe.



	TurboPEX	TurboSKIN	SUDO Compression (Jevco)
<b>Torque specification</b>	Average torque advised: 20Nm < Ø 14mm 30Nm between Ø 14mm and Ø 26mm 40Nm > Ø 26mm	Average torque advised: 30Nm between Ø 14mm and Ø 26mm 40Nm > Ø 26mm	Average torque advised: 20Nm < ½" 30Nm between ½" and ¾" 40Nm > 1"

## TECHNICAL FEATURES

PEX and Multilayer pipes must comply with the dimensions given in the tables below.

TurboSKIN Multilayer pipe						
<b>External Ø (mm)</b>	14	16	18	20	26	32
<b>Thickness (mm)</b>	2	2	2	2	3	3
<b>Internal Ø (mm)</b>	10	12	14	16	20	26

TurboPEX PEX pipe																	
<b>External Ø (mm)</b>	12	14	15	16	16	16	18	18	20	20	20	22	25	25	28	32	
<b>Thickness (mm)</b>	1.1	2	2.5	1.5	2	2.2	2	2.5	1.9	2	2.8	3	2.3	3.5	3	2.9	3
<b>Internal Ø (mm)</b>	9.8	10	10	13	12	11.6	14	13	16.2	16	14.4	16	20.4	18	22	26	26.2

SUDO Compression (Jevco) must be used with copper pipe complying with EN 1057, August 2006.

## SUDO END FEED FITTINGS

SUDO end feed fittings are available for copper pipes:

- Copper end feed capillary fittings for copper pipes from 6 to 108mm.
- Brass end feed fittings for copper pipes from 10 to 76mm.
- Gun metal end feed fittings for copper pipes from 10 to 108 mm.



### APPLICATIONS

- SUDO copper end feed fittings can be used in all hot and chilled water systems, for sanitary uses and for heating. They can also be used in many industrial applications. A part of the range is suited to gas, butane, propane and natural gas circuits, depending on current legislation.
- SUDO brass and gun metal end feed fittings can be used in all hot and chilled water systems, for sanitary and heating applications.
- SUDO end feed fittings should only be used with EN 1057 copper pipes.

	Sanitary	Gas	Heating	Cooling
SUDO copper end feed	●	●	●	●
SUDO brass end feed	●		●	●
SUDO gun metal end feed	●		●	●

Working conditions for SUDO brass and gun metal end feed fittings:

- Chilled applications: 5°C/10 bar
- Heating applications: 110°C/6 bar
- Sanitary applications: 95°C/16 bar
- Water or 50% water/50% glycol



SOLDERING  
(COPPER)



TO SCREW (BRASS  
AND GUN METAL)



EUROPEAN  
PRODUCTION  
(COPPER AND  
BRASS)

### BENEFITS

- Large range of high quality products.
- Quality complies with EN 1254-1 standards.
- Comap "A" marking ensures perfect traceability of many of our brass fittings.
- Thermal treatment on the majority of our brass fittings gives exceptional strength.
- Gun metal products are Full Flow guaranteed.

### FEATURES

- SUDO copper fittings from 6 to 108mm.
- SUDO brass fittings from 10 to 76mm.
- SUDO gun metal fittings from 10 to 108mm.
- In accordance with EN 1254-1 standards.

Certifications:



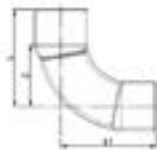
(Copper fittings only)



## SUDO COPPER END FEED FITTINGS

### 90° ELBOW MALE-FEMALE

1ACU / 5001A

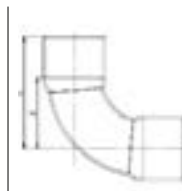


1aCu/5001A

Size	ITEM No	L	Z	L1	Qty
10	071010	21	13,2	21	10
12	071012	23,5	14,9	23,5	10
14	071014	27	16,4	27	10
15	071015	28,7	18,1	29	25
16	071016	31	20,4	32	10
18	071018	34,4	21,8	35	10
22	071022	42	26,6	42	10
28	071028	52,2	33,8	52,2	10
32	071032	-	-	-	10
35	071035	53,5	30,5	55,5	10
40	071040	84,5	57,5	86,5	1
42	071042	64,5	37,5	67	1
52	071052	108	76	108	1
54	071054	82	50	84,5	1
64	071064	98,5	66	110,5	1
76	071076	124,8	91,3	127,8	1
89,9	071089	144,2	106,7	147,2	1
108	071108	153	105,5	156	1

### 90° ELBOW FEMALE-FEMALE

2ACU / 5002A

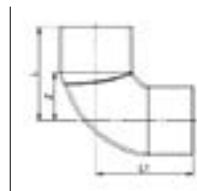


2aCu/5002A

Size	ITEM No	L	Z	Qty
8	072008	-	-	10
10	072010	21	13,2	10
12	072012	23,5	14,9	10
14	072014	27	16,4	10
15	072015	28,8	18,2	25
16	072016	31	20,4	10
18	072018	34,4	21,8	10
20	072020	36	22,6	10
22	072022	42	26,6	10
25	072025	46	29,6	10
28	072028	52,2	33,8	10
32	072032	-	-	10
35	072035	53,5	30,5	10
36	072036	54,5	30,5	10
40	072040	84,5	57,5	1
42	072042	64,5	37,5	1
52	072052	98	66	1
54	072054	82	50	1
63	072063	112,5	80,5	1
64	072064	113,5	81	1
67	072067	110	76,5	1
70	072070	109	75,5	1
76	072076	124,8	91,3	1
89	072089	144,2	106,7	1
108	072108	153	105,5	1

## 90° ELBOW MALE-FEMALE

92CU / 5092

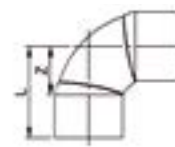


92Cu/5092

Size	ITEM No	L	Z	L1	Qty
10	092010	16,5	8,7	16,5	10
12	092012	18,8	10,2	20,8	10
14	092014	21,5	10,9	22,5	10
15	092015	21,5	10,9	23	25
16	092016	23	12,4	24,5	10
18	092018	25	12,4	27	10
20	092020	29,2	15,8	31,2	10
22	092022	30,5	15,1	33	10
28	092028	36	17,6	40	10
32	092032	45	24,6	47	10
35	092035	47,55	24,55	53,5	10
36	092036	48,5	24,5	53,5	10
40	092040	66,5	39,5	66,5	1
42	092042	57,05	30,05	64	1
52	092052	58	35	58	1
54	092054	71,05	39,05	79	1

## 90° ELBOW FEMALE-FEMALE

90CU / 5090

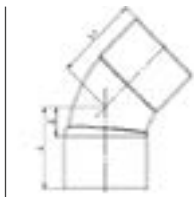


90Cu/5090

Size	ITEM No	L	Z	Qty
6	090006	-	-	10
8	090008	14,2	7,4	10
10	090010	16,5	8,7	10
12	090012	18,8	10,2	10
14	090014	21,5	10,9	10
15	090015	21,5	10,9	25
16	090016	23	12,4	10
18	090018	25	12,4	10
20	090020	29,2	15,8	10
22	090022	30,5	15,1	10
25	090025	34,5	18,1	10
28	090028	36	17,6	10
32	090032	44	23,6	10
35	090035	48,5	25,5	10
36	090036	47,5	23,5	10
40	090040	66,5	39,5	1
42	090042	58	31	1
52	090052	58	35	1
54	090054	72	40	1
63	090063	85,5	52	1
64	090064	83,5	51	1
67	090067	85,5	52	1
76	090076	91,5	58	1
108	090108	125,5	78	1

## 45° ELBOW MALE-FEMALE

40Cu / 5040

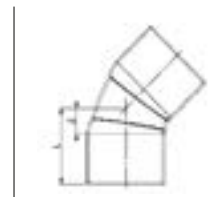


40Cu/5040

Size	ITEM No	L	Z	L1	Qty
10	080010	13,6	5,8	15,6	10
12	080012	15	6,4	15	10
14	080014	17	6,4	17	10
15	080015	18	7,4	18	25
16	080016	19	8,4	19	10
18	080018	20,5	7,9	20,5	10
22	080022	25	9,6	25	10
28	080028	31	12,6	31	10
32	080032	-	-	-	10
35	080035	35,5	12,5	37	10
40	080040	49,4	22,4	51,4	1
42	080042	43	16	44,5	1
52	080052	51	20	51	1
54	080054	51	19	55	1
64	080064	60	27,5	62	1
76	080076	66	32,5	69	1
89	080089	75	37,5	78	1
108	080108	89	41,5	92	1

## 45° ELBOW FEMALE-FEMALE

41Cu / 5041

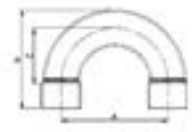


41Cu/5041

Size	ITEM No	L	Z	Qty
10	081010	13,6	5,8	10
12	081012	15	6,4	10
14	081014	17	6,4	10
15	081015	18	7,4	25
16	081016	19	8,4	10
18	081018	20,5	7,9	10
22	081022	25	9,6	10
28	081028	31	12,6	10
32	081032	-	-	10
35	081035	35,5	12,5	10
40	081040	49,4	22,4	1
42	081042	43	16	1
52	081052	53,5	21,5	1
54	081054	51	19	1
63	081063	56	24	1
64	081064	60	27,5	1
67	081067	60	26,5	1
76	081076	66	32,5	1
89	081089	75	37,5	1
108	081108	89	41,5	1

## DOUBLE ELBOW FEMALE

60Cu / 5060

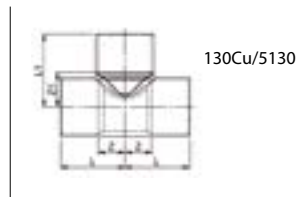


60Cu/5060

Size	ITEM No	Z	a	b	Qty
10	083010	16	30	29	10
12	083012	18,4	36	33	10
15	083015	37,5	45	39	10
16	083016	24,4	48	43	10
18	083018	27,9	54	49,5	10
22	083022	29,2	56,84	55,6	10

## EQUAL TEE FEMALE

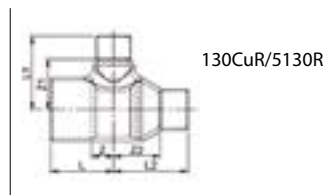
130Cu / 5130



Size	ITEM No	L	Z	L1	Z1	Qty
6	130006	13	7,2	13,7	7,9	10
8	130008	13	7,2	12,75	6,95	10
10	130010	15	7,2	15	7,2	10
12	130012	16	7,4	15,75	7,15	10
14	130014	18,5	7,9	19,5	8,9	10
15	130015	19	8,4	19	8,4	25
16	130016	20,25	9,65	20,5	9,9	10
18	130018	23	10,4	23,5	10,9	10
20	130020	26,5	13,1	26,5	13,1	10
22	130022	26,5	11,1	29,5	14,1	10
25	130025	32,7	16,3	32,7	16,3	10
28	130028	33,5	15,1	34	15,6	10
32	130032	40,5	20,1	40,5	20,1	10
35	130035	42,5	19,5	41	18	10
36	130036	44	20	44	20	10
40	130040	49	22	49	22	1
42	130042	52	25	52	25	1
52	130052	64	32	64	32	1
54	130054	64	32	64	32	1
63	130063	68	36	68	36	1
64	130064	73,25	40,75	73,5	41	1
67	130067	75,5	42	75,5	42	1
70	130070	76	42,5	76	42,5	1
76	130076	80	46,5	80	46,5	1
89	130089	92,5	55	95	57,5	1
108	130108	112	64,5	112	64,5	1

## REDUCED END TEE FEMALE

130CUR / 5130R



Size (S1-S2-S3)	ITEM No	L	Z	L1	Z1	L2	Z2	Qty
8-6-8	131008	13	6,2	13,7	7,9	13	6,2	10
10-6-10	131102	-	-	-	-	-	-	10
10-10-8	131121	15	7,2	15	7,2	16	9,2	10
10-12-10	131132	19	11,2	15,75	7,15	19	11,2	10
10-15-10	131052	23,5	15,7	19	8,4	23,5	15,7	25
12-6-12	131203	-	-	-	-	-	-	10
12-8-12	131213	16	7,4	19,5	12,7	16	7,4	10
12-10-10	131222	16	7,4	19	11,2	19	11,2	10
12-10-12	131223	16	7,4	19	11,2	16	7,4	10
12-12-10	131232	16,75	8,15	17	8,4	18,25	10,45	10
12-14-12	131243	21	12,4	19,5	8,9	21	12,4	10

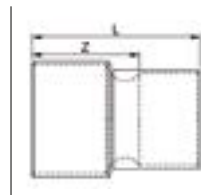
Size (S1-S2-S3)	ITEM No	L	Z	L1	Z1	L2	Z2	Qty
12-15-12	131253	22,5	13,9	19	8,4	22,5	13,9	25
12-16-12	131263	21	12,4	20,5	9,9	21	12,4	10
12-18-12	131273	23	14,4	23,5	10,9	26	17,4	10
14-10-14	131424	17,75	7,15	20,5	12,7	17,75	7,15	10
14-12-12	131433	17,75	7,15	18	9,4	20	11,4	10
14-12-14	131434	17,75	7,15	18	9,4	17,75	7,15	10
14-14-12	131443	18,5	7,9	19,5	8,9	21	12,4	10
14-16-12	131463	18,5	7,9	20,5	9,9	21	12,4	10
14-16-14	131464	18,5	7,9	20,5	-8,5	18,5	7,9	10
14-18-12	131473	27,5	16,9	23,5	10,9	26	17,4	10
14-18-14	131474	27,5	16,9	23,5	10,9	27,5	16,9	10
14-22-14	131494	31,5	20,9	29,5	14,1	31,5	20,9	10
15-10-15	131525	18,75	8,15	20,5	12,7	18,75	8,15	25
15-12-12	131533	18,75	8,15	18	9,4	20	11,4	25
15-12-15	131535	18,75	8,15	18	9,4	18,75	8,15	25
15-15-12	131553	19	8,4	19	8,4	22,5	13,9	25
15-18-12	131573	27,5	16,9	23,5	10,9	26	17,4	25
15-18-15	131575	27,5	16,9	23,5	10,9	27,5	16,9	25
15-22-15	131595	32	21,4	29,5	14,1	32	21,4	25
16-10-10	131622	18,5	7,9	21,5	13,7	21,5	13,7	10
16-10-16	131626	18,5	7,9	21,5	13,7	18,5	7,9	10
16-12-12	131633	18,5	7,9	19,5	10,9	21	12,4	10
16-12-14	131634	18,5	7,9	19,5	10,9	21,5	10,9	10
16-12-16	131636	18,5	7,9	19,5	10,9	18,5	7,9	10
16-14-12	131643	19,5	8,9	19,5	8,9	22	13,4	10
16-14-14	131644	19,5	8,9	19,5	8,9	22,5	11,9	10
16-14-16	131646	19,5	8,9	19,5	8,9	19,5	8,9	10
16-16-12	131663	20,25	9,65	20,5	9,9	23	14,4	10
16-16-14	131664	20,25	9,65	20,5	9,9	23,5	12,9	10
16-18-14	131674	27,5	16,9	23,5	10,9	27,5	16,9	10
16-18-16	131676	27,5	16,9	23,5	10,9	27,5	16,9	10
16-22-16	131696	32,5	21,9	29,5	14,1	32,5	21,9	10
18-12-12	131833	20,75	8,15	19,5	10,9	21	12,4	10
18-12-15	131835	20,75	8,15	19,5	10,9	21,5	10,9	25
18-12-16	131836	20,75	8,15	19,5	10,9	20,75	10,15	10
18-12-18	131837	20,75	8,15	19,5	10,9	20,75	8,15	10
18-14-12	131843	21,75	9,15	19,5	8,9	22	13,4	10
18-14-14	131844	21,75	9,15	19,5	8,9	22,5	11,9	10
18-14-16	131846	21,75	9,15	19,5	8,9	21,75	11,15	10
18-14-18	131847	20,5	7,9	19,5	8,9	20,5	7,9	10
18-15-12	131853	20,5	7,9	21	10,4	24	15,4	25
18-15-15	131855	20,5	7,9	21	10,4	24,5	13,9	25
18-15-18	131857	20,5	7,9	21	10,4	20,5	7,9	25
18-16-14	131864	22,5	9,9	21	10,4	23,5	12,9	10
18-16-16	131866	22,5	9,9	21	10,4	22,5	11,9	10
18-16-18	131867	22,5	9,9	21	10,4	22,5	9,9	10
18-18-12	131873	22,5	9,9	23,5	10,9	26	17,4	10
18-18-14	131874	22,5	9,9	23,5	10,9	27,5	16,9	10
18-18-15	131875	22,5	9,9	23,5	10,9	27,5	16,9	25
18-18-16	131876	22,5	9,9	23,5	10,9	27,5	16,9	10
18-22-15	131895	32,5	19,9	29,5	14,1	32	21,4	25
18-22-18	131897	32	19,4	29,5	14,1	32	19,4	10
18-28-18	131907	38,5	25,9	34	15,6	38,5	25,9	10
22-12-12	132233	23,75	8,35	25	16,4	27	18,4	10
22-12-15	132235	23,75	8,35	27,5	18,9	28,5	17,9	10
22-12-18	132237	23,75	8,35	27,5	18,9	29	16,4	10
22-12-22	132239	23,75	8,35	27,5	18,9	23,75	8,35	10
22-14-14	132244	23,75	8,35	26	15,4	28	17,4	10

Size (S1-S2-S3)	ITEM No	L	Z	L1	Z1	L2	Z2	Qty
22-14-16	132246	23,75	8,35	26	15,4	29	18,4	10
22-14-18	132247	23,75	8,35	26	15,4	29	16,4	10
22-14-22	132249	23,75	8,35	26	15,4	23,75	8,35	10
22-15-15	132255	23,75	8,35	26	15,4	28,5	17,9	25
22-15-18	132257	23,75	8,35	26	15,4	29	16,4	25
22-15-22	132259	23,75	8,35	26	15,4	23,75	8,35	25
22-16-14	132264	23,75	8,35	26	15,4	28	17,4	10
22-16-16	132266	23,75	8,35	26	15,4	29	18,4	10
22-16-18	132267	23,75	8,35	26	15,4	29	16,4	10
22-16-22	132269	23,75	8,35	26	15,4	23,75	8,35	10
22-18-14	132274	25,25	9,85	26	13,4	29,5	18,9	10
22-18-15	132275	25,25	9,85	26	13,4	30	19,4	25
22-18-16	132276	25,25	9,85	26	13,4	30,5	19,9	10
22-18-18	132277	25,25	9,85	26	13,4	30,5	17,9	10
22-22-12	132293	26,25	10,85	29,5	14,1	30,5	21,9	10
22-18-22	132279	25,25	9,85	26	13,4	25,25	9,85	10
22-22-14	132294	26,25	10,85	29,5	14,1	31,5	20,9	10
22-22-15	132295	26,25	10,85	29,5	14,1	32	21,4	25
22-22-16	132296	26,25	10,85	29,5	14,1	32,5	21,9	10
22-22-18	132297	26,25	10,85	29,5	14,1	32,5	19,9	10
22-28-22	132299	39	23,6	34	15,6	39	23,6	10
22-28-15	132300	40,5	25,1	34	15,6	42,25	31,65	25
22-35-22	132319	51	35,6	41	18	51	35,6	10
28-12-28	132840	31,5	13,1	36,5	27,9	31,5	13,1	10
28-14-28	132850	27,5	9,1	26,25	15,65	27,5	9,1	10
28-15-15	132855	27,5	9,1	26,25	15,65	34,5	23,9	10
28-15-18	132857	27,5	9,1	26,25	15,65	34	21,4	10
28-15-22	132859	27,5	9,1	26,25	15,65	33	17,6	10
28-15-28	132860	27,5	9,1	26,25	15,65	27,5	9,1	25
28-16-22	132869	27,5	9,1	26,25	15,65	33	17,6	10
28-16-28	132870	27,5	9,1	26,25	15,65	27,5	9,1	10
28-18-15	132875	31,5	13,1	35	22,4	38,5	27,9	10
28-18-18	132877	31,5	13,1	35	22,4	37,5	24,9	10
28-18-22	132879	31,5	13,1	35	22,4	36,5	21,1	10
28-18-28	132880	31,5	13,1	35	22,4	31,5	13,1	10
28-22-15	132895	31,5	13,1	30,5	15,1	38,25	27,65	10
28-22-18	132897	31,5	13,1	30,5	15,1	37,5	24,9	10
28-22-22	132899	31,5	13,1	30,5	15,1	36,5	21,1	10
28-22-28	132900	31,5	13,1	30,5	15,1	31,5	13,1	10
28-28-15	132905	33,5	15,1	34	15,6	42	31,4	25
28-28-16	132906	33,5	15,1	34	15,6	41,25	30,65	10
28-28-18	132907	33,5	15,1	34	15,6	38,5	25,9	10
28-28-22	132909	33,5	15,1	34	15,6	39	23,6	10
28-35-28	132920	48,75	30,35	41	18	48,75	30,35	10
32-22-32	133292	40,5	20,1	40,5	25,1	40,5	20,1	10
32-28-32	133302	40,5	20,1	40,5	22,1	40,5	20,1	10
35-15-28	133560	40	17	46,75	36,15	46	27,6	10
35-15-35	133561	40	17	46,75	36,15	40	17	10
35-18-28	133580	40	17	46	33,4	46	27,6	10
35-18-35	133581	40	17	46	33,4	40	17	10
35-22-22	133599	40	17	45	29,6	48,25	32,85	10
35-22-28	133600	40	17	45	29,6	46	27,6	10
35-22-35	133601	40	17	45	29,6	40	17	10
35-28-22	133609	40	17	38	19,6	48,25	32,85	10
35-28-28	133610	40	17	38	19,6	46	27,6	10
35-35-15	133614	42,5	19,5	41	18	52,5	41,9	10
35-28-35	133615	40	17	38	19,6	40	17	10
35-35-18	133617	42,5	19,5	41	18	52	39,4	10

Size (S1-S2-S3)	ITEM No	L	Z	L1	Z1	L2	Z2	Qty
35-35-22	133619	42,5	19,5	41	18	51	35,6	10
35-35-28	133620	42,5	19,5	41	18	48,75	30,35	10
40-32-40	134122	49	23	49	28,6	49	23	1
42-15-42	134263	43,5	16,5	44,5	33,9	43,5	16,5	1
42-18-42	134283	43,5	16,5	45,5	32,9	43,5	16,5	1
42-22-35	134301	43,5	16,5	46,5	31,1	43,5	20,5	1
42-22-42	134303	43,5	16,5	46,5	31,1	43,5	16,5	1
42-28-35	134311	43,5	16,5	43,5	25,1	43,5	20,5	1
42-28-42	134313	43,5	16,5	43,5	25,1	43,5	16,5	1
42-32-42	134317	49	22	49	28,6	49	22	1
42-35-35	134321	49	22	48,5	25,5	49	26	1
42-35-42	134323	49	22	48,5	25,5	49	22	1
42-42-28	134340	52	25	52	25	52	33,6	1
42-42-35	134341	52	25	52	25	52	29	1
54-32-52	135328	54,5	22,5	53	33	54,5	22,5	1
54-15-54	135455	54,5	22,5	58	47,4	54,5	22,5	1
54-22-54	135505	54,5	22,5	57	41,6	54,5	22,5	1
54-28-42	135513	54,5	22,5	53	34,6	54,5	27,5	1
54-28-54	135515	54,5	22,5	57	38,6	54,5	22,5	1
54-35-42	135523	-	-	-	-	-	-	1
54-35-54	135525	54,5	22,5	53	30	54,5	22,5	1
54-42-42	135543	58,5	26,5	58	31	58,5	31,5	1
54-42-54	135545	58,5	26,5	58	31	58,5	26,5	1
54-54-42	135563	64	32	64	32	64	37	1
64-35-64	135616	72	39,5	77	54	72	39,5	1
64-42-64	135646	58	25,5	64	37	58	25,5	1
64-54-64	136566	65	32,5	68	36	65	32,5	1
67-28-67	136818	78	44,5	82	63,6	78	44,5	10
67-35-67	136828	78	44,5	82	59	78	44,5	1
67-42-67	136848	78	44,5	82	55	78	44,5	10
67-54-67	136868	69,5	36	78	46	69,5	36	1
76-28-76	1377161	80	46,5	77	58,6	80	46,5	10
76-35-76	137726	80	46,5	80	57	80	46,5	1
76-42-76	137746	80	46,5	81	54	80	46,5	1
76-54-76	137766	80	46,5	81	49	80	46,5	1
89-54-89	139057	77	38,5	87,5	55,5	77	38,5	1
89-64-89	139077	87	49,5	93	60,5	87	49,5	1
108-35-108	139908	112	64,5	115	92	112	64,5	1
108-42-108	139928	113	65,5	111	84	113	65,5	1
108-54-108	139948	113	65,5	106	74	113	65,5	1
108-76-108	139978	113	65,5	105	71,5	113	65,5	1

## REDUCER FEMALE-FEMALE

240CU / 5240



240Cu/5240

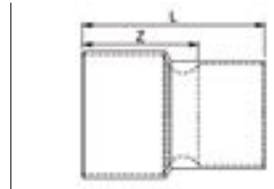
Size	ITEM No	L	Z	Qty
10-6	240106	-	-	10
10-8	240108	18,5	3,9	10
12-8	240128	22,5	7,1	10
12-10	240130	20,5	4,1	10
14-10	240150	23	4,6	10
14-12	240152	23,5	4,3	10

Size	ITEM No	L	Z	Qty
15-10	240160	23	4,6	25
15-12	240162	23,1	3,9	25
15-14	240164	26	4,8	10
16-10	240170	25,5	7,1	10
16-12	240172	24	4,8	10
16-14	240174	26,5	5,3	10
16-15	240175	26	4,8	25
18-10	240190	26	5,6	10
18-12	240192	27	5,8	10
18-14	240194	27	3,8	10
18-15	240195	27,7	4,5	25
18-16	240196	29,5	6,3	10
20-14	240214	29,5	5,5	10
20-16	240216	28	4	10
20-18	240218	30,5	4,5	10
22-12	240232	36	12	10
22-14	240234	31	5	10
22-15	240235	33,1	7,1	25
22-16	240236	31,5	5,5	10
22-18	240238	33	5	10
22-20	240240	34	5,2	10
28-14	240294	37	8	10
28-15	240295	44	15	25
28-18	240296	36	7	10
28-18	240298	38,1	7,1	10
28-22	240302	41	7,2	10
32-18	240338	42	9	10
32-22	240342	41,5	5,7	10
32-28	240348	46,5	7,7	10
35-18	240368	54	18,4	10
35-22	240372	48	9,6	10
35-28	240378	54	12,6	10
36-28	240388	55	12,6	10
40-28	240428	59	13,6	1
40-32	240432	61	13,6	1
40-36	240434	60	9	1
42-22	240442	60,5	18,1	1
42-28	240448	60,5	15,1	1
42-32	240452	61	13,6	1
42-35	240455	66	16	1
52-32	240552	69	17	1
52-40	240557	71	13	1
52-42	240558	70	11	1
54-22	240562	-	-	1
54-28	240568	-	-	1
54-35	240575	79	24	1
54-42	240582	74	15	1
63-42	240672	77	18	1
63-52	240683	77	14	1
63-54	240684	75	11	1
64-35	240689	79	23,5	1
64-42	240692	78	18,5	1
64-54	240694	78	23,5	1
70-52	240753	84	19,5	1
76-35	240795	85	28,5	1
76-42	240802	86	25,5	1
76-54	240814	84	18,5	1
76-64	240824	80	14	1

Size	ITEM No	L	Z	Qty
89-76	240986	87	16	1
108-89	240989	110	25	1
159-108	240997	155	47,5	1

## REDUCER MALE-FEMALE

243CU / 5243

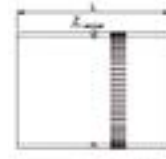


Size M-F	ITEM No	L	Z	Qty
6-8	242086	14	8,2	10
6-10	242106	-	-	10
8-10	242108	16	9,2	10
8-12	242128	18,5	11,7	10
10-12	242130	18,5	10,7	10
10-14	242150	22,5	14,7	10
12-14	242152	21	12,4	10
10-15	242160	21,5	13,7	25
12-15	242162	22,1	13,5	25
14-15	242164	25	14,4	10
10-16	242170	21	13,2	10
12-16	242172	21	12,4	10
14-16	242174	23,5	12,9	10
15-16	242175	25	14,4	25
10-18	242190	23	15,2	10
12-18	242192	25,1	16,5	10
14-18	242194	25,5	14,9	10
15-18	242195	27,7	17,1	25
16-18	242196	25,5	14,9	10
14-20	242214	28	17,4	10
16-20	242216	26,5	15,9	10
18-20	242218	28	15,4	10
10-22	242230	28,5	20,7	10
12-22	242232	28,5	19,9	10
14-22	242234	29	18,4	10
15-22	242235	33,1	22,5	25
16-22	242236	29,5	18,9	10
18-22	242238	33,1	20,5	10
20-22	242240	31	17,6	10
22-25	242272	34	18,6	10
12-28	242292	41	32,4	10
14-28	242294	36	25,4	10
15-28	242295	37,1	26,5	25
16-28	242296	34	23,4	10
18-28	242298	37,1	24,5	10
22-28	242302	40,1	24,7	10
18-32	242338	40,5	27,9	10
22-32	242342	40,5	25,1	10
28-32	242348	41,5	23,1	10
15-35	242365	51	40,4	10
18-35	242368	51	38,4	10
22-35	242372	46,1	30,7	10
28-35	242378	50,8	32,4	10
32-35	2423781	56	36	1

Size M-F	ITEM No	L	Z	Qty
22-36	242382	51	35,6	10
28-36	242388	51	32,6	10
28-40	242428	60	42	1
32-40	242432	61	41	1
36-40	242434	59	35	1
15-42	242435	68	57,4	1
18-42	242438	69	56,4	1
22-42	242442	60,5	45,1	1
28-42	242448	58	39,6	1
32-42	242452	61	40,6	1
35-42	242455	58	35	1
32-52	242552	69	48,6	1
40-52	242557	70	43	1
42-52	242562	70	43	1
22-54	242564	70,5	55,1	1
28-54	242568	69	50,6	1
35-54	242575	70,5	47,5	1
42-54	242582	70,5	43,5	1
42-63	242672	80	53	1
52-63	242683	80	49	1
35-64	242685	75	52	1
42-64	242686	76	49	1
54-64	242694	74	42	1
28-67	242698	83	64,6	1
35-67	242705	82	59	1
42-67	242712	81	54	1
54-67	242724	84	52	1
28-67	242788	-	-	1
35-76	242795	91	68	1
42-76	242802	89	62	1
54-76	242814	88	56	1
64-76	242824	83	50,5	1
67-76	242827	87	53,5	1
54-89	242944	100	68	1
64-89	242954	95	62,5	1
76-89	242966	93	59,5	1
76-108	242976	115	81,5	1
42-108	242982	117	90	1
54-108	242984	94	67	10
67-108	242987	118	84,5	1
89-108	242989	108	70,5	1

## COUPLING FEMALE FEMALE

270CU / 5270



270Cu/5270

Size	ITEM No	L	Z	Qty
6	270006	13	1,4	10
8	270008	15	1,4	10
10	270010	16,4	0,8	10
12	270012	18	0,8	10
14	270014	22	0,8	10
15	270015	22	0,8	25
16	270016	22	0,8	10
18	270018	26	0,8	10
20	270020	28	1,2	10
22	270022	31,5	0,7	10
25	270025	34,8	2	10
28	270028	39	2,2	10
32	270032	44	3,2	10
35	270035	49,5	3,5	10
36	270036	49,5	1,5	10
40	270040	55,5	1,5	1
42	270042	57	3	1
52	270052	66,5	2,5	1
54	270054	66	2	1
63	270063	67	3	1
64	270064	67	2	1
67	270067	70	3	1
70	270070	70	3	1
76	270076	70	3	1
89	270089	76	1	1
108	270108	107	12	1

## SLIP COUPLING FEMALE

271CU / 5271



271Cu/5271

Size	ITEM No	L	Qty
15	271015	21,2	25
22	271022	30,8	10
28	271028	36,8	10

## STOP END FEMALE

300CU-C / 5301C

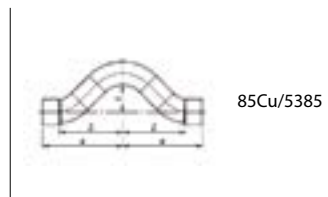


300Cu-C/5301C

Size	ITEM No	L	Qty
8	301008	9	10
10	301010	10	10
12	301012	10,5	10
14	301014	12,5	10
15	301015	14	25
16	301016	14	10
18	301018	15	10
22	301022	18,5	10
28	301028	22,5	10
32	301032	25	1
35	301035	27	10
40	301040	30	1
42	301042	30	1
54	301054	35,5	1
63	301063	39	1
64	301064	38	1
67	301067	40,5	1
76	301076	40,5	1
89	301089	46,5	1
108	301108	56	1

## FULL CROSSOVER FEMALE

85CU / 5085

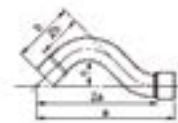


85Cu/5385

Size	ITEM No	Z	a	c	Qty
12	085012	40,9	49,5	20	10
14	085014	46,4	57	20	10
15	085015	46,4	57	20	10
16	085016	49,4	60	20	10
18	085018	50,9	63,5	20	10
22	085022	58,1	73,5	20	10

## PART CROSSOVER MALE-FEMALE

86CU / 5086



86Cu/5386

Size	ITEM No	a	Za	b	Zb	c	Qty
12	086012	82,5	73,9	40	31,4	20	10
14	086014	93	82,4	40	29,4	20	10
15	086015	93	82,4	40	29,4	20	10
16	086016	97,5	86,9	41	30,4	20	10
18	086018	102,5	89,9	45	32,4	20	10
22	086022	117,5	102,1	50	34,6	20	10

## EXPANSION COMPENSATOR

1090



Size	ITEM No	Qty
12	397112	1
14	397114	1
15	397115	1
16	397116	1
18	397118	1
22	397122	1
28	397128	1
35	397135	1

## DRAINING FITTINGS COUPLING MALE-FEMALE

2243JT

Draining fitting with O-ring



Size	ITEM No	Qty
42	224432JT	1
40	224440JT	1



## DRAINING FITTINGS COUPLING FEMALE

### 2170JT

Draining fitting with O-ring



Size	ITEM No	Qty
32	217132JT	1
40	217140JT	1

## DRAINING FITTINGS ELBOW FEMALE

### 2090JT

Draining fitting with O-ring



Size	ITEM No	Qty
32	209032JT	1
40	209040JT	1

## DRAINING FITTINGS ELBOW MALE-FEMALE

### 2092JT

Draining fitting with O-ring



Size	ITEM No	Qty
32	209232JT	1
40	209240JT	1

## DRAINING FITTINGS COUPLING FEMALE-FEMALE

### 2270V



Size	ITEM No	Qty
32	217032	1
40	217040	1

## DRAINING FITTINGS EQUAL TEE FEMALE

### 2131CU

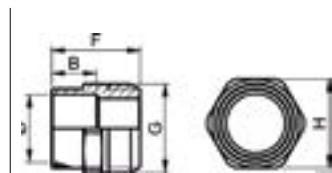


Size	ITEM No	Qty
32	214032	1
40	214040	1
42	214042	1
52	214052	1

## SUDO BRASS END FEED FITTINGS

### COUPLING MALE TO SCREW - FEMALE

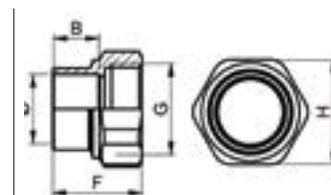
#### L243GCU



Size	ITEM No	F	H	B	Qty
10-1/4	E112031001	16	13	8	10
10-3/8	E112033001	17,5	17	8	10
10-1/2	E112035001	19	21	8	10
12-1/4	E112032001	17	15	9	10
12-3/8	E111004001	18,5	17	9	10
12-1/2	E112036001	19,5	21	9	10
12-3/4	E112040001	22,5	26	9	10
14-3/8	E111005001	19,5	17	11	10
14-1/2	E111009001	19,5	21	11	10
14-3/4	E112041001	22,5	26	11	10
15-1/2	E112037001	19,5	21	11	10
16-3/8	E112034001	21	19	11	10
16-1/2	E111011001	21	21	11	10
16-3/4	E111016001	24	26	11	10
18-1/2	E112038001	23	21	13	10
18-3/4	E112042001	25	26	13	10
20-3/4	E112043001	26,5	26	15	10
22-1/2	E112039001	27	26	15	10
22-3/4	E111019001	27	26	15	10
22-1"	E111021001	28	33	15	5
28-3/4	E112044001	30,5	32	18	10
28-1"	E111022001	31,5	33	18	5
28-1 1/4	E112046001	34	42	18	5
32-1"	E112045001	37	36	23	5
32-1 1/4	E112047001	37	42	23	5
32-1 1/2	E112052001	38	48	23	1
35-1 1/4	E112048001	39	42	23	5
36-1 1/4	E112049001	39	42	23	5
40-1 1/4	E112050001	43	45	27	5
40-1 1/2	E112053001	41	48	27	1
42-1 1/4	E112051001	43	48	27	5
42-1 1/2	E112054001	43	48	27	1
42-2"	E112055001	44	60	27	1
52-2"	E112056001	51	60	32	1
54-2"	E112057001	51	60	32	1
63-2"	E112058001	52	68	32	1
63-2 1/2	E112060001	-	-	-	1
64-2"	E112059001	52	76	32	1
64-2 1/2	E112061001	-	-	-	1
70-2 1/2	E112062001	-	-	-	1
76-2 1/2	E112063001	-	-	-	1

### COUPLING FEMALE TO SCREW - FEMALE

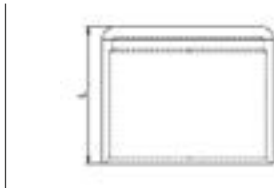
#### L270GCU



Size	ITEM No	F	H	B	Qty
10-1/4	E112064001	15,5	16	7,8	10
10-3/8	E112066001	16,5	19	7,8	10
12-1/4	E112065001	16,5	16	8,6	10
12-3/8	E112067001	17,5	19	8,6	10
12-1/2	E112070001	18,5	24	8,6	10
14-3/8	E112068001	19,5	19	10,6	10
14-1/2	E111049001	20,5	24	10,6	10
14-3/4	E112074001	21,5	30	10,6	10
15-1/2	E112071001	20,5	24	10,6	10
15-3/4	E112075001	21,5	30	10,6	10
16-3/8	E112069001	19,5	24	9	10
16-1/2	E111051001	20,5	24	10,6	10
16-3/4	E112076001	21,5	30	10,6	10
18-1/2	E112072001	22,5	24	12,6	10
18-3/4	E112077001	23,5	30	12,6	10
20-3/4	E112078001	26	30	15,4	10
22-1/2	E112073001	25,5	26	15,4	10
22-3/4	E112079001	26	30	15,4	10
22-1"	E112081001	28,2	38	15,4	5
28-3/4	E112080001	29,5	32	18,4	10
28-1"	E112082001	31	38	18,4	5
28-1 1/4	E112084001	33	45	18,4	5
32-1"	E112083001	35,5	38	23	5
32-1 1/4	E112085001	37,5	45	23	5
35-1 1/4	E112086001	37,5	45	23	5
40-1 1/4	E112087001	41,5	45	27	5
40-1 1/2	E112088001	42,5	52	27	1
42-1 1/2	E112089001	42,5	52	27	1
52-2"	E112090001	48,5	64	32	1
54-2"	E112091001	48,5	64	32	1

## STOP END FEMALE

300CU



Size	ITEM No	Qty
10	E112092001	10
12	E112093001	10
14	E112094001	10
16	E112095001	10
18	E112096001	10
22	E112097001	10
28	E112098001	5
32	E112099001	5
35	E112100001	5
40	E112101001	5
42	E112102001	5
54	E112103001	1

## RIGHT UNION FEMALE-FEMALE

340CU

Round-Cone-Shaped Seal



Size	ITEM No	Qty
10	E112104001	10
12	E112105001	10
14	E112106001	10
15	E112107001	10
18	E112108001	10
22	E112109001	10
28	E112110001	10

## RIGHT UNION FEMALE-FEMALE TO SCREW

L340GCU

Round-Cone-Shaped Seal



Size	ITEM No	G2	Qty
10-3/8	E112112001	3/8	10
12-3/8	E112113001	1/2	10
12-1/2	E112115001	1/2	10
14-3/8	E112114001	1/2	10
14-1/2	E112116001	1/2	10
14-3/4	E112119001	1/2	10
16-1/2	E112117001	5/8	10
16-3/4	E112120001	5/8	10
18-1/2	E112118001	3/4	10
18-3/4	E112121001	3/4	10
22-3/4	E111102001	7/8	10
22-1"	E111104001	7/8	5
28-3/4	E112122001	Ø 38x150	10
28-1"	E111105001	Ø 38x150	5
28-1 1/4	E112124001	Ø 38x150	5
32-1"	E112123001	1 1/4	5
32-1 1/4	E112125001	1 1/4	5
32-1 1/2	E112128001	1 1/4	1
35-1 1/4	E112126001	1 1/2	5
36-1 1/4	E112127001	1 1/2	5
40-1 1/2	E112129001	1 3/4	10
42-1 1/2	E112130001	1 3/4	1
52-2"	E112131001	2 1/4	1
54-2"	E112132001	2 1/4	1

## RIGHT UNION FEMALE-MALE TO SCREW

### L341GCU

Round-Cone-Shaped Seal



Size	ITEM No	Qty
10-1/4	E112133001	10
10-3/8	E112134001	10
12-3/8	E112135001	10
12-1/2	E112137001	10
14-3/8	E112136001	10
14-1/2	E111121001	10
14-3/4	E112140001	10
15-1/2	E112138001	10
16-1/2	E111123001	10
16-3/4	E112141001	10
18-1/2	E112139001	10
18-3/4	E112142001	10
20-3/4	E112143001	10
22-3/4	E111129001	10
22-1"	E111131001	5
28-3/4	E112144001	10
28-1"	E111132001	5
28-1"1/4	E111134001	5
28-1"1/2	E112149001	1
32-1"	E112145001	5
32-1"1/4	E111135001	5
32-1"1/2	E112150001	1
35-1"1/4	E112146001	5
36-1"1/4	E112147001	5
40-1"1/2	E112151001	1
42-1"1/4	E112148001	5
42-1"1/2	E112152001	1
52-2"	E112153001	1
54-2"	E112154001	1
63-2"	E112155001	1
63-2"1/2	E112157001	1
64-2"	E112156001	1

## BENT VALVE CONNECTOR

### C2AGCU

Flat Seal - Captive Elbow (copper) Nut (brass)



Size	ITEM No	Qty
10-3/8	E111204001	25
12-3/8	E111205001	25
12-1/2	E111207001	25
14-3/8	E111206001	25
14-1/2	E111208001	25
14-3/4	E111212001	25
15-1/2	E111209001	25
16-1/2	E111210001	25
16-3/4	E111213001	25
18-1/2	E111211001	25
18-3/4	E111214001	25
22-3/4	E111215001	25
22-1"	E111216001	10
28-1"	E111217001	10

## STRAIGHT VALVE CONNECTOR FEMALE

### C359GLCU

Flat Seal - Coupling (copper) - Nut (brass)



Size	ITEM No	Qty
10-3/8	E112174001	25
10-1/2	E112177001	25
12-3/8	E112175001	25
12-1/2	E112178001	25
14-3/8	E112176001	25
14-1/2	E131007001	25
14-3/4	E112182001	25
15-1/2	E112179001	10
16-1/2	E112180001	25
16-3/4	E131011001	25
18-1/2	E112181001	25
18-3/4	E131012001	25
22-3/4	E131013001	25
22-1"	E112184001	10
28-3/4	E112183001	25
28-1"	E112185001	10
28-1"1/4	E112186001	10
32-1"1/4	E112187001	10
40-1"1/2	E112189001	10
42-1"1/2	E112188001	10

## STRAIGHT VALVE CONNECTOR FEMALE

### L359GCU

Flat Seal - Coupling (copper) - Nut (brass)



Size	ITEM No	Qty
10-3/8	E112158001	10
10-1/2	E112160001	10
12-3/8	E112159001	10
12-1/2	E112161001	10
12-3/4	E112164001	10
14-1/2	E112162001	10
14-3/4	E112165001	10
15-1/2	E112163001	25
16-3/4	E112166001	10
18-3/4	E112167001	10
18-1"	E112169001	5
20-3/4	E112168001	10
22-1"	E112170001	5
28-1 1/4	E112171001	5
32-1 1/4	E112172001	5
36-1 1/2	E112173001	5

## 90° ELBOW FEMALE-MALE TO SCREW

### L92GCU



Size	ITEM No	Qty
12-3/8	1372	10
12-1/2	1374	10
14-3/8	1373	10
14-1/2	E112030001	10
16-1/2	1377	10
16-3/4	1379	10
18-1/2	1378	10
18-3/4	1380	10
22-3/4	1382	10
22-1"	1383	5
28-1"	1384	10

## 90° ELBOW FEMALE-FEMALE

### L90GCU



Size	ITEM No	A	B	C	Qty
12-3/8	1386	20	20	10	10
12-1/2	1388	21,5	22	10	10
14-3/8	1387	21,5	20,5	11	10
14-1/2	E112005001	22,5	23	11	10
16-1/2	E112006001	24	24	13	10
16-3/4	1393	27,5	27,5	13	10
18-1/2	1392	25	25	14	10
18-3/4	1394	28,5	28,5	14	10
22-3/4	1396	30,5	30,5	17	10
22-1"	1397	34	33	17	5
28-1"	1398	38	35	20	10

## LONG 90° ELBOW FEMALE-FEMALE

### L90GLCU



Size	ITEM No	Qty
12-1/2	10819	10
14-1/2	10820	10
16-1/2	10821	10

## 90° ELBOW FEMALE-FEMALE

### L90GRCU

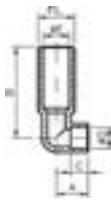
Long Radius



Size	ITEM No	Qty
12-3/8	10809	10
12-1/2	10811	10
14-3/8	10810	10
14-1/2	10812	10
16-1/2	10814	10
18-1/2	10815	10

## ELBOW FEMALE-MALE

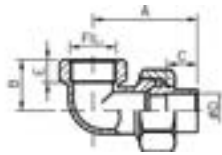
### L92GLCU



Size	ITEM No	A	B	C	Qty
12-3/8	10832	18	50	10	10
14-3/8	10833	20	50	11	10
14-1/2	10835	21	53	11	10

## UNION ELBOW FEMALE TO SCREW-FEMALE

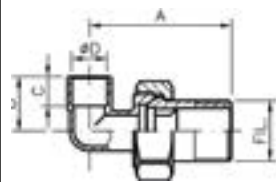
### L96GCU



Size	ITEM No	A	B	C	E	Qty
12-3/8	1442	37,5	18	11	8	10
14-3/8	1443	37,5	18	11	8	10
14-1/2	1445	39,5	20	11	9	10
16-1/2	1447	44	23	13	11	10
16-3/4	1449	46	23	13	10,5	10
18-3/4	1450	46	23	14	10,5	10
22-3/4	1452	52	25,3	17,5	10,5	10
22-1"	1453	55	41	17,5	12	10
28-1"	1454	67,3	41	23,7	12	5

## UNION ELBOW FOR HEATING MALE TO SCREW - FEMALE

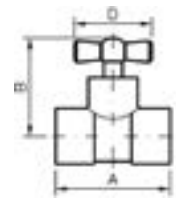
### L98GCU



Size	ITEM No	A	B	C	Qty
12-3/8	1415	48	20	10	10
14-3/8	1416	48	20	11	10
14-1/2	1418	51	20,5	11	10
16-1/2	1420	51	23,5	13	10
16-3/4	1422	55	24	13	10
18-3/4	1423	55	26	14	10
22-3/4	1425	58	31	17	10
22-1"	1426	65	31	17	5
28 1"	1427	70	37	20	5

## DRAIN-COCK RIGHT TEE FEMALE

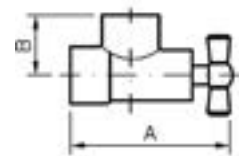
### 130PCU



Size	ITEM No	A	B	D	Qty
12	1477	35	27	33	10
14	1478	37	28	33	10
16	1480	41	29	33	10
18	1481	43	30	33	10
22	1483	49	32	33	10

## DRAIN-COCK ANGLE TEE FEMALE

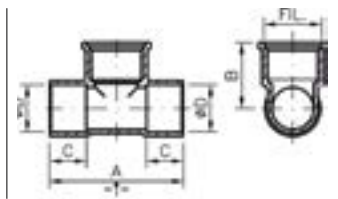
### 90PCU



Size	ITEM No	A	B	Qty
12	1485	34,5	17	10
14	1486	47,5	19	10
16	1488	51	21,5	10
18	1489	54	23,5	10

## TEE FEMALE - FEMALE TO SCREW - FEMALE

### L130GCU



Size	ITEM No	A	B	C	Qty
12-3/8	1493	39	23	10	10
12-1/2	1495	43	22	10	10
14-3/8	1494	41	23	11	10
14-1/2	1496	45	23	11	10
16-1/2	1498	49	24	13	10
18-1/2	1499	51	25	14	10
22-1/2	1500	53	29,5	17	10
22-3/4	1501	59	30,5	17	10

## 90° ELBOW FEMALE

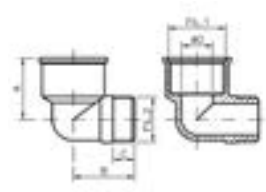
8090



Size	ITEM No	A	B	ØC	Qty
1/8	1623	-	-	-	10
1/4	1624	19	19	9	10
3/8	1625	20	11	14	10
1/2	E212004001	22	11	18	10
3/4	E212005001	27	13,5	23	10
1*1/4	1629	45	20	36	5
1*1/2	1630	48	21,5	40	5
1"	E212006001	35	15,5	30	5
2"	1631	58	23,5	51	1

## 90° ELBOW MALE-FEMALE

8092



Size	ITEM No	A	B	C	Qty
1/8	316	-	-	-	10
1/4	1632	19	21	9	10
3/8	1633	23	9,85	9,85	10
1/2	E212020001	26,5	27	12,5	10
3/4	E212021001	30,5	29	12,4	10
1*1/4	1637	45	45	18	5
1*1/2	1638	48	27	20	5
1"	E212022001	36	35,5	13,5	10
2"	317	58	58	22	1

## 90° ELBOW FEMALE

8090N

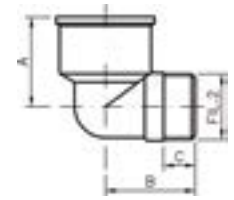
Nickel Plated



Size	ITEM No	A	B	ØC	Qty
3/8	3979	20	11	14	10
1/2	3980	22	11	18	10

## 90° REDUCED ELBOW MALE-FEMALE

8092R



Size	ITEM No	A	B	C	Qty
1/2-3/4	1639	28,5	28,5	10	10

## 90° ELBOW MALE

8091



Size	ITEM No	A	B	Qty
3/8	1616	20	7	10
1/2	1617	22	7,5	10
3/4	E212012001	26	9	10
1"	1619	32	10	10
1*1/4	1620	45	18	5
1*1/2	1621	48	20	5
2"	1622	58	22	1

## SHORT 90° ELBOW MALE-FEMALE

8092L

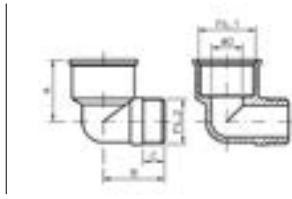


Size	ITEM No	Qty
3/8	E121001001	10
1/2	E121002001	10
3/4	E121003001	10
1"	10493	5

## 90°ELBOW MALE-FEMALE

### 8092C

Nickel Finish



Size	ITEM No	A	B	C	Qty
3/8	3988	23	9,85	9,85	10
1/2	3989	26,5	27	12,5	10

## 90° FITTING ELBOW

### 8012

with equal swivel nuts



Size	ITEM No	Qty
1/2	3810	10
3/4	3811	10

## EQUAL TEE FEMALE

### 8130



Size	ITEM No	A	B	C	Qty
1/4	1606	-	-	-	10
3/8	1607	40	20	11	10
1/2	E212033001	44	22	11	10
3/4	E212034001	54	27	13,5	10
1"	E212035001	70	35	15,5	5
1 1/4	1611	90	45	20	5
1 1/2	1612	96	48	21,5	5
2"	1613	114	57	23,5	1

## EQUAL TEE FEMALE

### 8130C

Nickel finished



Size	ITEM No	A	B	C	Qty
1/2	8130104	44	22	11	10
3/4	3963	54	27	13,5	10

## EQUAL TEE MALE

### 8131

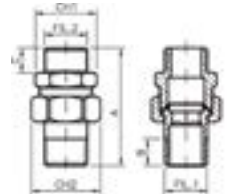


Size	ITEM No	A	B	C	Qty
3/8	1598	40	20	7	10
1/2	E212040001	44	22	7,5	10
3/4	1600	52	26	9	10
1"	1601	64	32	10	5
1 1/4	1602	90	45	18	5
1 1/2	1603	96	48	20	5
2"	1604	116	58	22	1

## UNION MALE-MALE

### 8093

Round-Cone-Shaped Seal



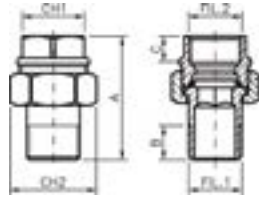
Size	ITEM No	A	B	C	Qty
1/4	3900	51	10,1	8,5	10
3/8	1457	58	13,5	12	10
1/2	1458	60	12	13	10
3/4	1459	68	14	14	10
1"	1460	79	15	16	5



## UNION MALE-FEMALE

**8094**

Round-Cone-Shaped Seal

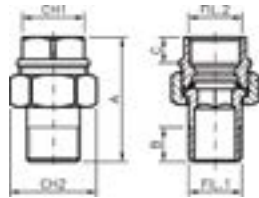


Size	ITEM No	A	B	C	Qty
3/8	1461	43	10,1	7	10
1/2	1462	48	13,2	11	10
3/4	1463	51	12	11	10
1"	1464	59	14	12	5
1 1/4	3048	70	15	19	5
1 1/2	3049	-	-	-	5
2"	3050	-	-	-	1

## UNION MALE-FEMALE

**8094C**

Nickel Finish - Round-Cone-Shaped Seal

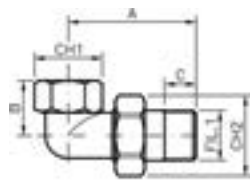


Size	ITEM No	A	B	C	Qty
3/4	3942	51	12	11	10
1"	3943	59	14	12	5
1 1/4	3944	70	15	19	5

## 90° UNION ELBOW MALE-FEMALE

**8095**

Round-Cone-Shaped Seal

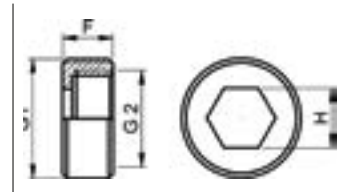


Size	ITEM No	A	B	C	Qty
1/2	1466	54	23	13,2	10
3/4	1467	59	25	12	10
1"	1468	70	35	14	5

## REDUCER MALE-FEMALE

**8199**

with stop

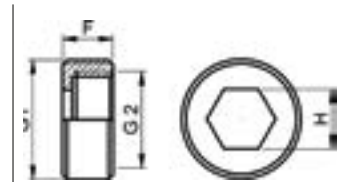


Size	ITEM No	F	H	Qty
3/8-1/4	722	9	-	10
1/2-3/8	724	10	H10	10
3/4-3/8	726	11	-	10
3/4-1/2	727	11	H13	10
1 3/4	731	13	H17	10

## REDUCER MALE-FEMALE

**8199C**

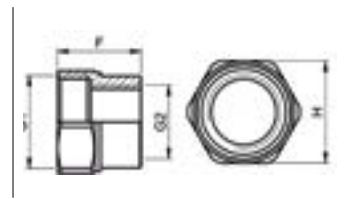
Chrome Finish - with stop



Size	ITEM No	F	H	Qty
1/2-3/8	741	10	H10	10
3/4-1/2	744	11	H13	10

## REDUCER FEMALE-FEMALE

**8240**

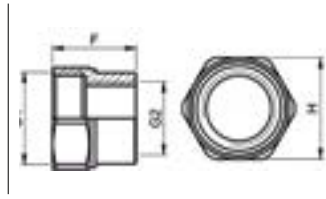


Size	ITEM No	F	H	Qty
3/8-1/4	E122002001	16	19	10
1/2-1/4	E122003001	17,3	24	10
1/2-3/8	E122004001	17,3	24	10
3/4-3/8	E122005001	20,5	29	10
3/4-1/2	E122006001	20,8	29	10
1 1/4-3/4	673	26	44	5
1 1/4-1"	674	29	45	5
1 1/2-1 1/4	675	32	52	5
1"-1/2	E122007001	23	36	5
1"-3/4	E122008001	24	36	5
2"-1 1/2	3084	35	64	1

## REDUCER FEMALE-FEMALE

### 8240C

Chrome finish

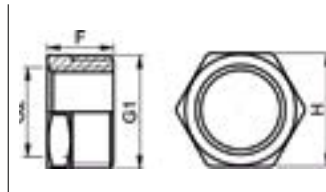


Size	ITEM No	F	H	Qty
1/2-3/8	E123022001	17,3	24	10
3/4-1/2	E123023001	20,8	29	10

## REDUCER MALE-FEMALE

### 8241

with flange 6 sides

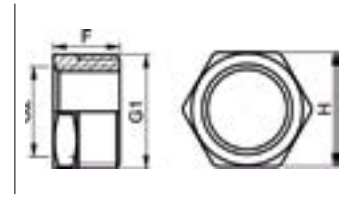


Size	ITEM No	F	H	Qty
3/8-1/8	755	11,5	17	10
3/8-1/4	756	11,5	17	10
1/4-1/8	754	10	15	10
1/2-1/8	757	13	21	10
1/2-3/8	E122010001	13	21	10
1/2-1/4	E122009001	13	21	10
3/4-1/4	760	15,5	26	10
3/4-3/8	E122011001	15,5	26	10
3/4-1/2	E122012001	15,5	26	10
1-3/8	763	17,5	33	10
1-3/4	E122014001	17,5	33	10
1-1/2	E122013001	17,5	33	10
1-1/4-1/2	766	20	42	5
1-1/4-3/4	767	20	42	5
1-1/4-1"	768	20	42	5
1-1/2-3/4	771	21	48	5
1-1/2-1-1/4	773	21	48	5
1-1/2-1"	772	21	48	5
2"-1-1/4	778	233	60	1
2"-1-1/2	779	23	60	1
2-1/2-2"	3080	32	80	1
2-1"	777	23	60	1

## REDUCER MALE-FEMALE

### 8241C

Chrome Finish - with flange 6 sides

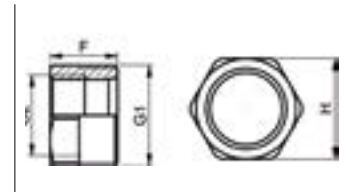


Size	ITEM No	F	H	Qty
1/2-3/8	E123025001	13	22	10
3/4-1/2	E123024001	26	10	10

## REDUCER MALE-FEMALE

### 8243

without stop

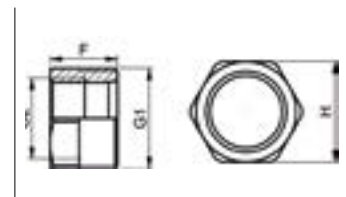


Size	ITEM No	F	H	Qty
3/8-1/8	547	13	17	10
3/8-1/4	E122015001	14	17	10
3/4-3/8	553	17	26	10
3/4-1/2	E211058001	17,5	26	10
1/4-1/8	546	12	13	10
1/2-1/4	E122016001	15	21	10
1/2-3/8	E122017001	15,5	21	10
1-3/8	564	21	33	10
1-1/2	E122018001	20	33	10
1-3/4	E211061001	20	33	10
1-1/4-1"	570	24	42	5
1-1/2-1"	298	26	48	5
1-1/4-1/2	568	24	42	5
1-1/4-3/4	569	24	42	5
1-1/2-3/4	571	26	48	5
1-1/2-1-1/4	572	26	48	5
2"-1-1/4	573	28	60	1
2"-1-1/2	574	28	60	1
2-1/2-2"	576	36	76	1

## REDUCER MALE-FEMALE

### 8243C

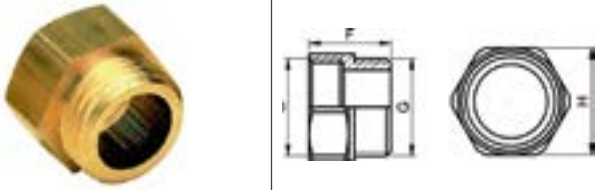
Chrome Finish - with stop



Size	ITEM No	Qty
3/4-1/2	E123018001	10

## REDUCER MALE-FEMALE

8246

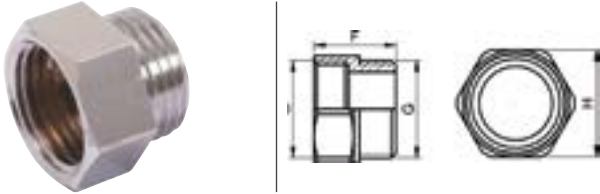


Size	ITEM No	F	H	Qty
1/8	448	15	13	10
1/4	E122020001	16	15	10
3/8	E122021001	18	19	10
1/2	E211074001	20,5	24	10
3/4	E211075001	22,5	29	10
1*1/4	459	30	45	5
1*1/2	460	32,5	52	5
1"	E122022001	26,5	36	5
2"	461	35	64	1

## REDUCER MALE-FEMALE

8246C

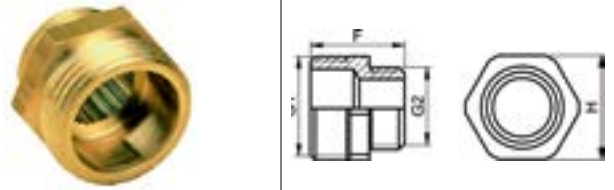
Chrome Finish - with stop



Size	ITEM No	F	H	Qty
3/8	E123013001	18	19	10
1/2	E123014001	20,5	24	10
3/4	E123015001	22,5	29	10

## REDUCER MALE-MALE

8245

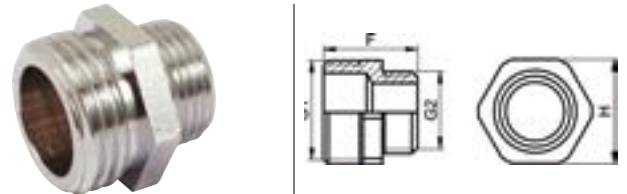


Size	ITEM No	F	H	Qty
3/8-1/8	375	18	17	10
3/8-1/4	376	18	17	10
3/4-3/8	385	23	26	10
3/4-1/2	E211087001	24	26	10
1/4-1/8	374	17	13	10
1/2-1/4	378	20	21	10
1/2-3/8	E211084001	21	21	10
5/8-1/2	E122019001	23,5	23	10
1*1/2	394	26	33	10
1*-3/4	E211089001	27	33	10
1*1/4-1"	E211091001	32	42	5
1*1/4-3/4	398	29,5	42	5
1*1/2-1"	402	34	48	5
1*1/2-1*1/4	403	36	48	5
2*-1*1/4	405	39	60	1
2*-1*1/2	406	39	60	1

## REDUCER MALE-MALE

8245C

Chrome Finish



Size	ITEM No	F	H	Qty
1/2-3/8	E123011001	21	21	10
3/4-1/2	E123012001	24	26	10

## LONG EQUAL REDUCER MALE-FEMALE

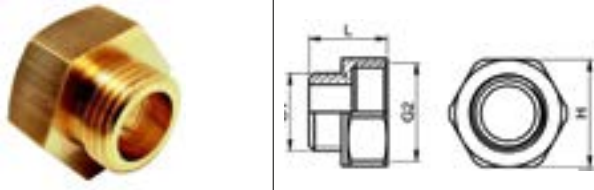
8246L



Size	ITEM No	Qty
3/8	E122056001	10
1/2	E122056001	10
3/4	E122057001	10

## REDUCER MALE-FEMALE

8246R

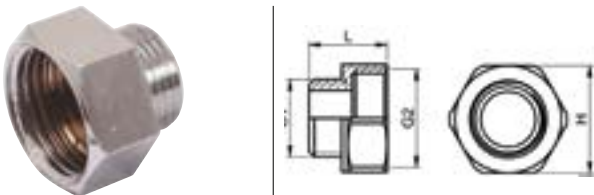


Size	ITEM No	F	H	Qty
1/8-1/4	E122058001	16	15	10
1/8-3/8	E122059001	17	19	10
1/8-1/2	E122060001	18,5	24	10
1/4-3/8	E122061001	20	19	10
1/4-1/2	E122062001	18,5	24	10
1/4-3/4	E122063001	22,5	29	10
3/8-1/2	E211105001	19,5	24	10
3/8-3/4	E122064001	21	29	10
1/2-5/8	E122065001	22	25	10
1/2-3/4	E211108001	21,5	29	10
3/4-1"	E211111001	24,5	36	10
3/4-1 1/4	505	27	44	5
1 1/4-1 1/2	511	33	52	5
1 1/4-2"	512	34	65	10
1/2-1"	E122066001	24	36	10
1/2-1 1/4	499	26	44	10
1 1/2-2"	513	35	64	1
1"-1 1/4	E211113001	28	45	5
1"-1 1/2	509	31	52	5
1"-2"	510	31	65	5
2"-2 1/2	624	-	-	1

## REDUCER MALE-FEMALE

8246RC

Chrome Finish

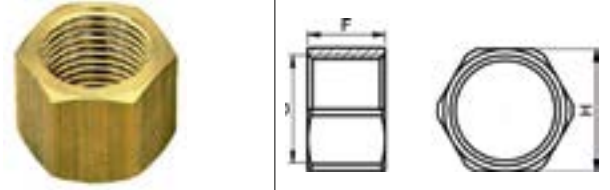


Size	ITEM No	F	H	Qty
3/8-1/2	E123016001	19,5	24	10
1/2-3/4	E123017001	21,5	29	10

## EQUAL COUPLING FEMALE-FEMALE

8270

Without stop



Size	ITEM No	F	H	Qty
1/8	E122023001	15	14	10
1/4	E122024001	16	16	10
3/8	E122025001	15	21	10
1/2	E122026001	17	25	10
3/4	E122027001	19	30	10
1"	E122028001	27	38	5
1 1/4	621	31	45	5
1 1/2	622	33	54	5
2"	623	36	68	1

## EQUAL COUPLING FEMALE-FEMALE

8270C

Chrome Finish - Without stop

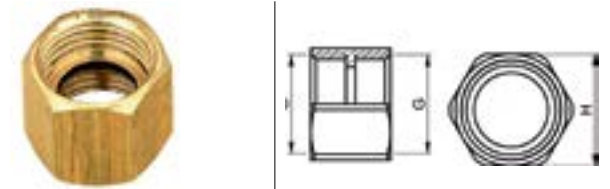


Size	ITEM No	F	H	Qty
3/8	E123019001	15	21	10
3/4	E123021001	19	30	10
1/2	E123020001	17	25	10

## EQUAL COUPLING FEMALE-FEMALE

8271

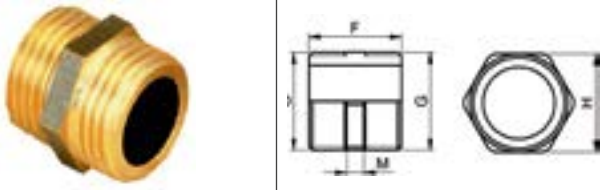
Without stop



Size	ITEM No	F	H	Qty
1/4	E122029001	17	16	10
3/8	E122030001	17	21	10
1/2	E211131001	19	24	10
3/4	E122031001	21,5	30	10
1"	E122032001	25	38	5
1 1/4	649	31	45	5
1 1/2	650	33	54	5
2"	651	36	64	1

## COUPLING MALE-MALE

8280

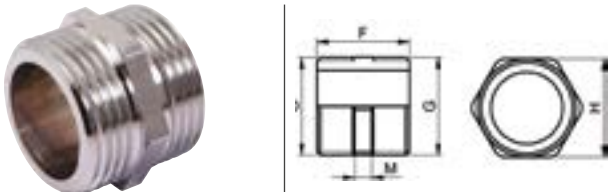


Size	ITEM No	H	F	M	Qty
1/8	333	11	17	3	10
1/4	334	13	17	3	10
3/8	E211139001	17	19,5	3,5	10
1/2	E211140001	21	22	4	10
3/4	E211141001	26	24,5	4,5	10
1"	E211142001	33	29	5	5
1 1/4	E211143001	42	34	6	5
1 1/2	E211144001	50	36	6	5
2"	349	60	38	6	1
2 1/2	351	-	-	-	1

## COUPLING MALE-MALE

8280C

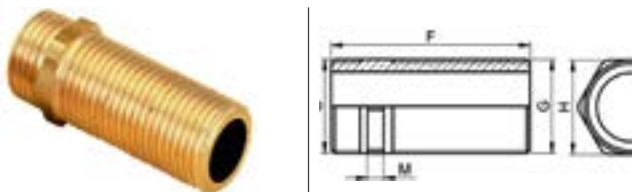
Chrome Finish



Size	ITEM No	F	H	Qty
3/8	E123007001	19,5	17	10
1/2	E123008001	22	21	10
3/4	E123009001	24,5	26	10
1"	E123010001	29	33	5

## LONG EQUAL COUPLING MALE-MALE

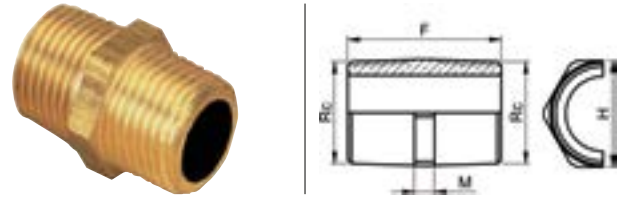
8280L



Size	ITEM No	H	F	M	Qty
3/8	E122033001	17	51	3	10
1/2	E122034001	21	53	4	10
3/4	E122035001	26	55	5	10
1"	E122036001	33	57	5	5

## EQUAL FLARE COUPLING MALE-MALE

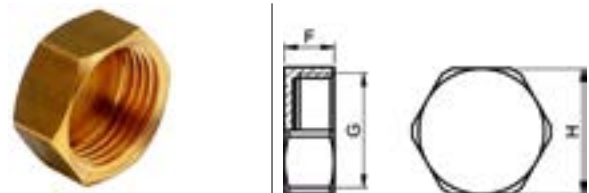
8281



Size	ITEM No	F	H	M	Qty
3/8	E122037001	29	17	5	10
1/2	295	35	23	5	10
3/4	296	39	27	5	10

## STOP END FEMALE

8300



Size	ITEM No	F	H	Qty
1/8	E122046001	8	12	10
1/4	E122047001	8	15	10
3/8	E211167001	9,5	19	10
1/2	E211168001	10,5	24	10
5/8	E122048001	12	25	10
3/4	E211170001	11,5	29	10
1"	E122049001	13	36	5
1 1/4	E122050001	15	44	5
1 1/2	E122051001	16	52	5
2"	E122052001	17,5	65	1

## STOP END FEMALE

8300C

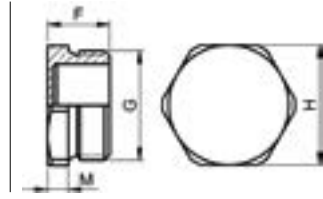
Chrome Finish



Size	ITEM No	F	H	Qty
3/8	E123026001	9,5	19	10
1/2	E123027001	10,5	24	10
3/4	E123028001	11,5	29	10

## STOP END MALE

8292

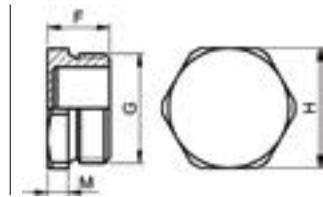


Size	ITEM No	F	H	M	Qty
1/8	E122038001	8	13	2,5	10
3/8	E122040001	11	19	3	10
5/8	E122041001	15	26	4,5	10
3/4	E211160001	15	29	5	10
1/4	E122039001	8	15	2,5	10
1/2	E211158001	13,5	23	4,5	10
1"	E122042001	18	36	6	5
1 1/4	E122043001	20	44	7	5
1 1/2	E122044001	23	52	8	5
2"	E122045001	23	65	10	1

## STOP END MALE

8292C

Chrome Finish



Size	ITEM No	F	H	M	Qty
3/8	E123029001	3	19	3	10
3/4	E123031001	5	29	5	10
1/2	E123030001	4,5	23	4,5	10

## REDUCER FEMALE

8342R

With swivel nuts



Size	ITEM No	Qty
3/8-1/2	2571	10
1/2-3/4	692	10

## STRAIGHT UNION FEMALE-FEMALE

8342

with equal swivel nuts



Size	ITEM No	Qty
3/8	637	10
1/2	638	10
3/4	639	10
1"	256	5

## HEXAGON NUT

8374GC

Flared Nipple - Chrome Finish



Size	ITEM No	Qty
10-3/8	E123001001	10
10-1/2	E123003001	10
12-3/8	E123002001	10
12-1/2	E123004001	10
14-1/2	E123005001	10
18-3/4	E123006001	10

## HEXAGON NUT

8374G



Size	ITEM No	Qty
8-3/8	E122067001	10
10-3/8	E122068001	10
10-1/2	E122070001	10
12-3/8	E122069001	10
12-3/4	E122073001	10
12-1/2	E122071001	10
14-1/2	E211189001	10
14-3/4	E122074001	10
16-1/2	E122072001	10
16-3/4	E122075001	10
18-3/4	E122076001	10
20-3/4	E122077001	10
22-3/4	E122081001	10
22-1"	E122078001	10
32-1"1/4	E122080001	5
28-1"1/4	E122079001	5

## THREAD PIPE

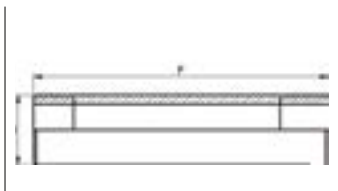
8439



Size	ITEM No	F - G	Qty
50mm-3/8	2204	50-G 3/8	10
50mm-1/2	2171	50-G 1/2	10
50mm-3/4	2205	50-G 3/4	10
100mm-3/8	2173	100-G 3/8	10
100mm-1/2	2174	100-G 1/2	10
100mm-3/4	2175	100-G 3/4	10
100mm-1"	2176	100-G 1"	10
100mm-1"1/4	2177	100-G 1"1/4	5
100mm-1"1/2	2178	100-G 1"1/2	5
1m-3/8	2185	1000-G 3/8	1
1m-1/2	2186	1000-G 1/2	1
1m-3/4	2187	1000-G 3/4	1
1m-1"	2188	1000-G 1"	1

## BARREL NIPPLE

8471

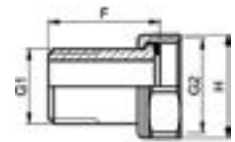


Size	ITEM No	Qty
105-3/4-3/4	3228	5
110-3/4-3/4	3226	5
130-3/4-3/4	3227	5
170-3/4-3/4	3324	5

## METER 2 PIECES FITTING

8359

without flat - without lead seal hole

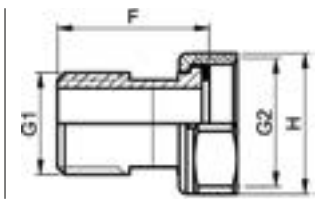


Size	ITEM No	L	H	Qty
3/8-1/2	1060	29,5	24	10
1/2-3/4	1061	31,5	29	10
3/4-1"	1062	37,5	36	5
1-1"1/4	1063	41,5	45	5
1"1/4-1"1/2	1064	46,5	52	5
1"1/2-2"	1065	53,5	64	1

## METER THREADED 2 PIECES FITTING

8359CTP

with flat - 1 lead seal hole

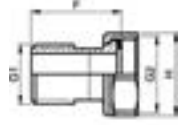


Size	ITEM No	F	H	Qty
1/2-1/2	1083	32,5	24	10
1/2-3/4	1940	31,5	29	10
3/4-3/4	1084	38,5	32	10
3/4-1"	1941	37,5	36	5
1"1/2-2"	1088	53,5	64	1
1"1/4-1"1/2	1087	46,5	52	5
1"-1"1/4	1086	41,5	45	5
1"-1"	1085	42,5	38	10
2"-2"1/2	1090	-	-	1

## METER THREADED 2 PIECES FITTING

### 8359C

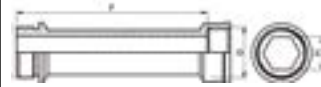
with flat - 1 lead seal hole



Size	ITEM No	F	H	Qty
3/8-1/2	1930	29,5	24	10
1/2-1/2	1080	32,5	24	10
1/2-3/4	1931	31,5	29	10
3/4-3/4	1081	38,5	32	10
3/4-1"	1932	37,5	36	10
1"-1"	1082	42,5	38	10
1"1/4-1"1/2	1934	46,5	52	5
1"1/2-2"	1935	53,5	64	1
1"-1"1/4	1933	41,5	45	5
2"-2"1/4	3417	56,5	72	1
2"-2"1/2	1937	61,5	82	1

## EXTENSION PIECE

### 8446EB

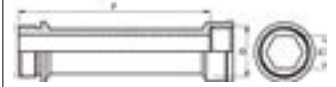


Size	ITEM No	H	Qty
25-3/8	1969	H10	2
25-1/2	1979	H13	2
25-3/4	1989	H17	2
50-3/8	1972	H10	10
50-1/2	1982	H13	10
50-3/4	1992	H17	2
75-1/2	1985	H13	2
75-3/4	1985	H17	2
100-1/2	1987	H13	2
100-3/4	1997	H17	2

## EXTENSION PIECE

### 8446EBC

Chrome Finish



Size	ITEM No	H	Qty
25-1/2	2039	H13	2
25-3/4	2049	H17	2
50-1/2	2042	H13	2
50-3/4	2052	H17	2

## SMOOTH EXTENSION PIECE

### 8446LC

Short Valveping - Raw Brass Finish



Size	ITEM No	F	H	Qty
15-2,5	2070	50	H 17	2
22-3	2071	75	H 17	2
25-3/8	2061	25	H 10	2
25-1/2	2065	25	H 13	2
25-3/4	2069	25	H 17	2
28-3	2072	100	H 17	2
50-3/8	2062	50	H 10	10
50-1/2	2066	50	H 13	10
75-1/2	2067	75	H 13	2
100-1/2	2068	100	H 13	2

## SMOOTH EXTENSION PIECE

### 8446LCP

Short valveping - Polished Brass Finish



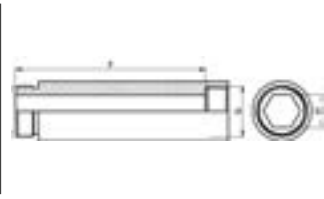
Size	ITEM No	F	H	Qty
35-3	2077	-	-	2
42-4	2078	-	-	2
54-4	2082	-	-	2



## SMOOTH EXTENSION PIECE

### 8446LCC

Short Valving - Chrome Finish

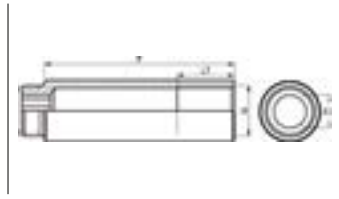


Size	ITEM No	F	H	Qty
25-1/2	2089	25	H13	2
25-3/4	2093	25	H17	2
50-1/2	2090	50	H13	2
50-3/4	2094	50	H17	2

## SMOOTH EXTENSION PIECE

### 8446LLBC

Long Valving - Chrome Finish

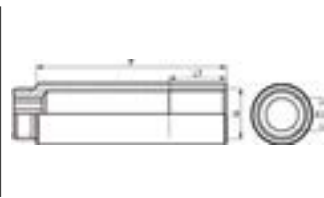


Size	ITEM No	H	LT	Qty
25-3/8	10255	6p10	15	2
25-1/2	10267	12p12	15	2
25-3/4	10279	12p17	15	2
50-3/8	10258	6p10	30	2
50-1/2	10270	12p12	30	2
50-3/4	10282	12p17	30	2

## SMOOTH EXTENSION PIECE

### 8446LLB

Long Valving - Raw Brass Finish

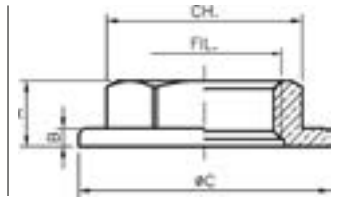


Size	ITEM No	H	LT	Qty
25-3/8	10254	6p10	15	2
25-1/2	10266	12p12	15	2
25-3/4	10278	12p17	15	2
50-3/8	10257	6p10	30	10
50-1/2	10269	12p12	30	10
50-3/4	10281	12p17	30	2
75-1/2	10272	12p12	30	2
75-3/4	10284	12p17	30	2
100-1/2	10263	12p12	30	2
100-3/4	10275	12p17	30	2

## HEXAGON BACKNUT

### 8360L

with brass plate



Size	ITEM No	A	B	Qty
3/8	2157	8.5	2.5	10
1/2	2158	9	2.5	10
3/4	2159	9.5	3	10
1"	2160	10	3	10
1 1/4	2161	-	-	5
1 1/2	2162	-	-	5

## HEXAGON BACKNUT

### 8360P

with plastic plate

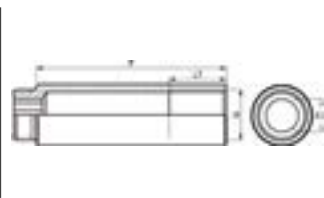


Size	ITEM No	Qty
1/2	2932	10

## SMOOTH EXTENSION PIECE

### 8446LLBP

Long Valving - Polished Brass Finish



Size	ITEM No	H	LT	Qty
25-3/8	10256	6p10	15	2
25-1/2	10268	12p12	15	2
25-3/4	10280	12p17	15	2
50-3/8	10259	6p10	30	2
50-1/2	10271	12p12	30	2
50-3/4	10283	12p17	30	2

## HEXAGON BACKNUT

8360



Size	ITEM No	Qty
1/4	2147	10
3/8	2149	10
1/2	E122053001	10
3/4	E122054001	10
1"	2153	10
1 1/4	2154	5
1 1/2	2155	5

## SUDO GUN METAL END FEED FITTINGS

### 90° ELBOW FEMALE-FEMALE

90GCU / 4090G



Size	ITEM No	Qty
10-3/8	0901031-01	10
12-3/8	0901231-01	10
12-1/2	0901241-01	10
14-3/8	0901431-01	10
14-1/2	0901441-01	10
15-3/8	0901531-01	10
15-1/2	0901541-01	25
15-3/4	0901561-01	25
16-1/2	0901641-01	10
16-3/4	0901661-01	10
18-1/2	0901841-01	10
18-3/4	090186-01	1
22-1/2	090224-01	10
22-3/4	0902261-01	10
22-1"	090228-01	10
28-3/4	090286-01	10
28-1"	090288-01	10
35-1 1/4	090360-01	1

## LONG ELBOW FEMALE-FEMALE

90GLCU / 4090GL



Size	ITEM No	Qty
14-1/2	0906441-01	10
15-1/2	0906541-01	10

### 90° ELBOW FEMALE-MALE TO SCREW

92GCU / 4092G



Size	ITEM No	Qty
12-3/8	0921231-01	10
12-1/2	0921241-01	10
14-1/2	0921441-01	10
15-3/4	092156-01	10
15-1/2	092154-01	25
16-1/2	0921641-01	10
18-1/2	092184-01	10
18-3/4	092186-01	10
22-1/2	092224-01	10
22-3/4	092226-01	10
22-1"	092228-01	10
28-3/4	092286-01	10
28-1"	092288-01	10

### UNION ELBOW FEMALE TO SCREW-FEMALE

96GCU / 4096G



Size	ITEM No	Qty
15-1/2	096154-01	10
22-3/4	0962261-01	10
28-1"	0962881-01	5

## TEE FEMALE- FEMALE TO SCREW-FEMALE

130GCU / 4130G



Size	ITEM No	Qty
10-3/8	130103-01	10
12-3/8	1301231-01	10
12-1/2	1301241-01	10
14-1/2	1301441-01	10
15-3/8	1301531-01	10
15-1/2	1301551-01	25
16-1/2	1301641-01	10
18-3/4	130186-01	10
18-1/2	1301841-01	10
22-3/8	1302231-01	10
22-1/2	130224-01	10
22-3/4	130226-01	10
28-1/2	130284-01	10
35-1/2	130354-01	1

## COUPLING MALE TO SCREW - FEMALE

243GCU / 4243G



Size	ITEM No	Qty
10-3/8	2431032-01	10
10-1/2	2431041-01	10
12-3/8	2431232-01	10
12-1/2	2431242-01	10
14-3/8	2431432-01	10
14-1/2	2431442-01	10
14-3/4	2431461-01	10
15-3/8	2431532-01	25
15-3/4	2431561-01	25
15-1/2	2431542-01	25
16-1/2	2431642-01	10
16-3/4	2431661-01	10
18-1/2	2431842-01	10
18-3/4	2431861-01	10
22-1/2	243224-01	10
22-3/4	2432261-01	10
22-1"	243228-01	10
28-3/4	243286-01	10
28-1"	2432881-01	10
35-1"	243358-01	10
35-1 1/4	243360-01	10
35-1 1/2	243362-01	10
40-1 1/2	243412-01	10
42-1 1/4	243430-01	1
42-1 1/2	243432-01	10
42-2"	243436-01	1
54-2"	243556-01	1
76-2 1/2	243780-01	1
76-3	243784-01	1
89-3	243824-01	1
108-4	243882-01	1

## COUPLING FEMALE

270GCU / 4270G



Size	ITEM No	Qty
10-3/8	2701031-01	10
10-1/2	2701041-01	10
12-3/8	2701231-01	10
12-1/2	2701241-01	10
14-3/8	2701431-01	10
14-1/2	2701441-01	10
14-3/4	2701461-01	10
15-3/8	2701531-01	25
15-1/2	2701541-01	25
15-3/4	2701561-01	25
16-1/2	2701641-01	10
16-3/4	2701661-01	10
18-1/2	2701841-01	10
18-3/4	2701861-01	10
22-1/2	270224-01	10
22-3/4	2702261-01	10
22-1"	270228-01	10
28-1/2	270284-01	10
28-3/4	270286-01	10
28-1"	2702881-01	10
28-1"1/4	270290-01	10
35-1"	270358-01	10
35-1"1/4	270360-01	10
42-1"1/4	270430-01	1
42-1"1/2	270432-01	1
54-1"1/2	270552-01	1
64-2"1/2	270660-01	1
76-2"1/2	270780-01	1
89-3"	270824-01	1

## RIGHT UNION FOR HEATING

3341GCU / 4341G

round-shaped seal - solder female - screw male



Size	ITEM No	Qty
12-3/8	3421231-01	10
12-1/2	3421241-01	10
14-1/2	3421441-01	10
15-1/2	3421541-01	10
16-1/2	3421641-01	10
18-1/2	3421841-01	10
18-3/4	3421861-01	10
22-3/4	3422261-01	10
22-1"	3422281-01	1
28-1"	3422881-01	5
32-1"1/4	342360-01	1
42-1"1/2	342432-01	5

## RIGHT UNION FEMALE

340CU / 4340

round-cone-shaped seal - solder female



Size	ITEM No	Qty
12	3400121	10
15	3400151	10
18	3400181	10
22	3400221	10
28	3400281	5
35	340035	1

## RIGHT UNION FOR HEATING FEMALE TO SCREW-FEMALE

**340GCU / 4340G**

round-shaped seal - solder female - screw female



Size	ITEM No	Qty
12-3/8	3401231-01	10
12-1/2	3401241-01	10
15-1/2	3401541-01	10
15-3/4	340156-01	10
18-1/2	3401841-01	10
18-3/4	3401861-01	10
22-3/4	3402261-01	10
22-1"	3402281-01	10
28-1"	3402881-01	1
28-1 1/4	3402901-01	1
35-1 1/4	3403601-01	5
42-1 1/2	3404321-01	5
54-2"	3405521-01	1

## COUPLING MALE-FEMALE

**4246GCU**



Size	ITEM No	Qty
15-3/8	4246153-01	25
15-1/2	4246154-01	25
18-1/2	4246184-01	10
22-1/2	4246224-01	10
22-3/4	4246226-01	10

## COUPLING FEMALE-FEMALE

**4340GCU**

round-cone-shaped seal - 3 pieces



Size	ITEM No	Qty
15-1/2	4340154-01	10
18-3/4	4340186-01	10
22-3/4	4340226-01	10
22-1"	4340228-01	10
28-1"	4340288-01	1

## WALL PLATE ELBOW FEMALE

**471GCU / 4471G**

3 screws fixing



Size	ITEM No	Qty
12-1/2	471124-01	10
14-1/2	471144-01	10
15-1/2	471154-01	25
16-1/2	471164-01	10
18-1/2	471184-01	10
18-3/4	471186-01	10
22-1/2	471224-01	10
22-3/4	471226-01	10

## WALL PLATE ELBOW FEMALE

**472GCU / 4472G**

2 screws fixing



Size	ITEM No	Qty
12-1/2	472124-01	10
14-1/2	472144-01	10
15-1/2	472154-01	25
16-1/2	472164-01	10
18-1/2	472184-01	10
18-3/4	472186-01	10
22-3/4	472226-01	10

# SUDO ACCESSORIES

## SUDO ACCESSORIES

### FIBRE O-RING

**8361**

For Fitting



Size	ITEM No	Qty
3/8-15-10-1.5	304	10
1/2-18-10-1.5	305	10
1/2-18-14-1.5	3116	10
5/8-20.5-14-1.5	3117	10
3/4-24-14-1.5	306	10
3/4-24-18-1.5	3118	10
7/8-26-21-1.5	3119	10
1"-30-24-1.5	3120	10
1 1/4-38.5-30-1.5	308	10
2"-55-42-1.5	3121	10

### FIBRE WASHER

**8362**



Size	ITEM No	Qty
3/8	3112	10
3/4	3114	10
1/4	3111	10
1/2	3113	10
1"	3115	10

### SOFT SOLDER WIRE REEL

**8520A**

Tin 96,5 / Lead 3,5



Size	ITEM No	Qty
20/10 (2mm)	032020	12

### SOFT SOLDER WIRE REEL

**8520AB**

Tin 94 / Lead 6



Size	ITEM No	Qty
20/10 (2mm)	398521	12

### HARD SOLDER WIRE REEL

**8520C**

The hard solder 820 C complies to the ATG B 524-3. It is mandatory to use th Carbo-flux 8530. Length = 500 mm . Box of 25 bars.



Size	ITEM No	Qty
20/10 (2mm)	D500001001	1

## SOFT SOLDER WIRE REEL

### 8520CU

Tin 50 / Lead 50



Size	ITEM No	Qty
20/10 (2mm)	032100	12

## SOFT SOLDER WIRE REEL

### 8520PB

Tin 50 / Lead 50



Size	ITEM No	Qty
20/10 (2mm)	398520	12

## WHITE CARBO FLUX

### 8530

To be used with hard solder wire reel 8520Cu (350grs)



ITEM No	Qty
398531	10

## STEEL WOOL

### 8533

12 pieces



Size	ITEM No	Qty
-	398533	10

## WELDING FLUX

### 8534



Size	ITEM No	Qty
-	398535	10



# SUDO END FEED FITTINGS

## SUDO COPPER END FEED FITTINGS

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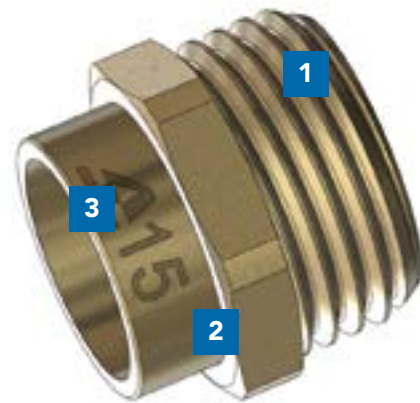
- 1 High quality European copper.
- 2 SUDO logo – a Comap quality guarantee.
- 3 Diameter marking for better part identification.

## SUDO BRASS AND GUN METAL END FEED FITTINGS

---

### BRASS

- 1 Thermal treatment (on threaded female up to 1") for exceptional strength.
- 2 Brass quality complies with EN1254-1.
- 3 'A' mark on the majority of our brass range – the Comap quality guarantee.



### GUN METAL



- 1 Gun metal quality complies with EN1254-1.
- 2 Marking for better identification.



## APPLICATIONS

Maximum temperatures and pressures for copper and iron/copper fittings.

COPPER					
Type of soldering	Brazing and welding examples	Temperature (in °C)	Pressure (in bar)		
			6 to 34 mm	>34 to 54 mm	>54 to 108 mm
Soft Solder	Lead/Tin 50/50% or 60/40%	30	16	16	10
	Do not use for domestic water supply	65	10	10	6
		110	6	6	6
	Tin/Silver 95/5% Tin/Copper 3% max.	30	25	25	16
		65	25	16	16
		110	16	10	10
Hard Solder	Cadmium free silver 55-40% Ag	30	25	25	16
	Silver with cadmium 30% or 40% Ag	65	25	16	16
	Copper / phosphorus 94/6%				
	Copper/phosphorus with 2% Ag 92/6/2%	110	16	10	10

### SUDO Brass and Gunmetal end feeds

- Chilled applications: 5°C / 10 bar
- Heating applications: 110°C / 6 bar
- Sanitary applications: 95°C / 16 bar
- Water or 50% water or 50% glycol

*Copper pipe must comply with EN 1057, August 2006.*

## INSTALLATION

For installation of our threaded fittings, we recommend adding flat O-rings. (The use of oakum is prohibited.)

Average torque advised:

20Nm < ½'

30Nm between ½' and ¾'

40Nm > 1"

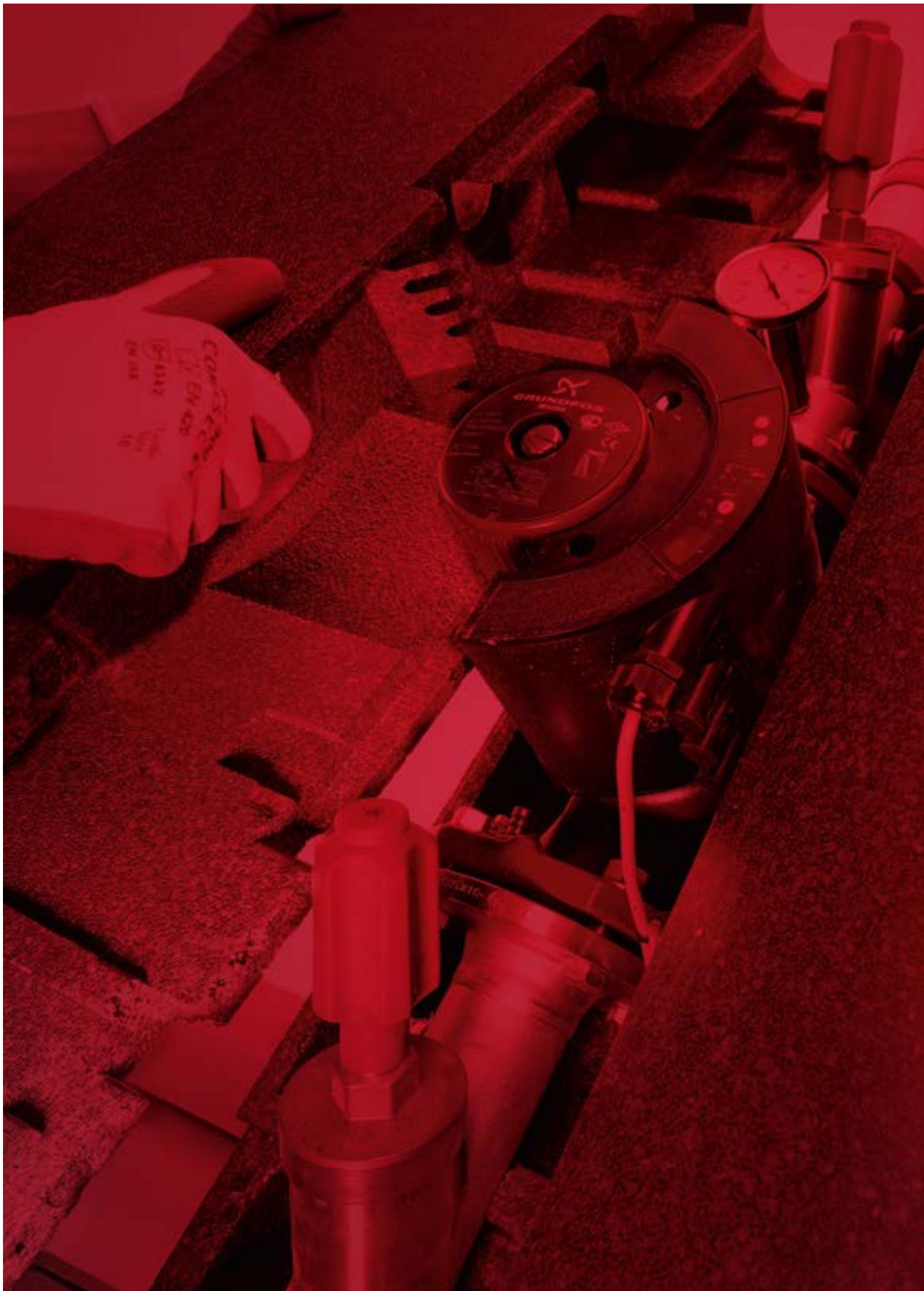


# Efficient Controls

Control is the key to comfort, energy savings, and security. Our European manufacturing plants deliver highly reliable and accurate valves to provide optimal control of heating, cooling and sanitary circuits.

With Comap, you never have to choose between performance and style. Our radiator heads and valves are designed to meet the lifestyle and design preferences of your customers.

Interfaces	261
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Climate control	309
Underfloor heating and cooling	389
Sanitary	445





# Interfaces

A versatile solution for collective heating.

Meibes interfacing modules by Comap are professional connection kits to the mains for optimised energy distribution and circuit protection.

Today's professional heating installers expect a fast, yet versatile way of distributing, sharing and counting energy for every apartment.

The Meibes product range fulfils this requirement while providing intelligent solutions to the installer, including sanitary water heating by the main heating network, modular apartment modules with hydraulic separation for space saving, etc.

The Meibes product line extends from the boiler to the door of the apartment.

## APPLICATIONS

For all collective residential housings with centralised heating distributed by risers, interface modules guarantee:

- Individualization of the energy costs.
- Individual circuit balancing.
- Less energy usage by reduction of circuit dependence.

## BENEFITS

- Fast installation
- Reduced space requirement
- Energy savings

Interfaces 262

Central heating apartment modules 266

# INTERFACES

## BY-PASS VALVE

### BY-PASS VALVE WITH FLAT O-RING

**872B**



Size	ITEM No	Qty
3/4" x 3/4"	872600	10

### BY-PASS VALVE WITH COMPRESSION FITTINGS

**872B**



Size	ITEM No	Qty
DN22 x DN22	872610	10

## CHECK VALVES

### CHECK VALVES, THREADED BRASS

**1270**

0 - 10 bar



Size	ITEM No	Type	PN	Qty
3/8"	127003	FF	PN16	1
1/2"	127004	FF	PN16	1
3/4"	127006	FF	PN16	1
1"	127008	FF	PN16	1
1"1/4	127010	FF	PN10	1
1"1/2	127012	FF	PN10	1
2"	127016	FF	PN10	1
2"1/2	127020	FF	PN8	1
3"	127024	FF	PN8	1
4"	127032	FF	PN8	1

### STEEL FILTER WITH BRASS FITTING

**1276**

For 1270 non return valve



Size	ITEM No	Qty
2"1/2	127620	1
3"	127624	1
4"	127632	1

## CHECK VALVES WITH DOUBLE DRAIN, THREADED BRASS

**1280**

Metal to metal seat



Size	ITEM No	Type	PN	Qty
3/4"	128006	MF	PN25	1

## SWING CHECK VALVES, THREADED BRASS

**2840**

All positions



Size	ITEM No	Type	PN	Qty
3/8"	284003	FF	PN16	1
1/2"	284004	FF	PN16	1
3/4"	284006	FF	PN16	1
1"	284008	FF	PN16	1
1 1/4"	284010	FF	PN16	1
1 1/2"	284012	FF	PN16	1
2"	284016	FF	PN16	1
2 1/2"	284020	FF	PN16	1
3"	284024	FF	PN16	1
4"	284032	FF	PN10	1

## SWING CHECK VALVES, THREADED BRASS

**2841**



Size	ITEM No	Type	PN	Qty
3/8"	284103	FF	PN16	1
1/2"	284104	FF	PN16	1
3/4"	284106	FF	PN16	1
1"	284108	FF	PN16	1
1 1/2"	284112	FF	PN16	1
1 1/4"	284110	FF	PN16	1
2"	284116	FF	PN16	1

## PRESSURE REDUCING VALVES

### COMPACT PRESSURE REDUCING VALVE WITH 1/4" GAUGE PORT

**5435**

[mini setting: 1.5 bar ; max setting: 6 bar] - Factory presetting: 3 bar



Size	ITEM No	Type	Qty
1/2"	543504	FF	1
3/4"	543506	FF	1

### COMPACT PRESSURE REDUCING VALVE WITH 1/4" GAUGE PORT

**5436**

[mini setting: 1.5 bar ; max setting: 6 bar] - Factory presetting: 3 bar



Size	ITEM No	Type	Qty
1/2"	543604	MM	1
3/4"	543606	MM	1

### COMPACT PRESSURE REDUCING VALVE WITH 1/4" GAUGE PORT

**5437**

[mini setting: 1.5 bar ; max setting: 6 bar] - Factory presetting: 3 bar



Size	ITEM No	Type	Qty
3/4"	543706	Mswivel nut	1

### HEAVY SERIES PRESSURE REDUCING VALVE WITH 1/4" GAUGE PORT FOR DIAMETER DN32 - 1" 1/4

**5485**

Setting 1 to 7 bar, without factory presetting



Size	ITEM No	Type	Qty
1/2"	548504	FF	1
3/4"	548506	FF	1
1"	548508	FF	1
1"1/4	548510	FF	1
1"1/2	548512	FF	1
2"	548516	FF	1
2"1/2	548520	FF	1
4"	548532	FF	1

### PRESSURE REDUCER ACS

**5486**

[mini setting: 1.5 bar ; max setting: 7 bar] - without factory presetting



Size	ITEM No	Type	Qty
1/2"	548604	MM	1
3/4"	548606	MM	1
1"	548608	MM	1

### PRESSURE GAUGE FOR PRV 5435-5436-5437-5480-5481-5486 (CONNECTION BELOW)

**5475**

[mini setting: 1 bar ; max setting: 7 bar] - without factory presetting



Size	ITEM No	Qty
1/4	P164000	1

### NF PRESSURE REDUCING VALVE WITH 1/4" GAUGE PORT

**5480**

[mini setting: 1.5 bar ; max setting: 6 bar] - Factory presetting: 3 bar



Size	ITEM No	Type	Qty
1/2"	548004	FF	1
3/4"	548006	FF	1

### NF PRESSURE REDUCING VALVE WITH 1/4" GAUGE PORT

**5481**

[mini setting: 1.5 bar ; max setting: 6 bar] - Factory presetting: 3 bar



Size	ITEM No	Type	Qty
1/2"	548104	MM	1
3/4"	548106	MM	1

### SAFETY VALVES

#### SAFETY VALVE FF

**866**

with pressure gauge NF P52001



Size	ITEM No	Type	Load	Qty
1/2"	866004	FF	3 bar	1
3/4"	866006	FF	3 bar	1

#### SAFETY VALVE FF

**867**

with pressure gauge NF P52001



Size	ITEM No	Type	Load	Qty
1/2"	867004	MF	3 bar	1
3/4"	867006	MF	3 bar	1



## SAFETY VALVE FF

**868**

without pressure gauge NF P52001



Size	ITEM No	Type	Load	Qty
3/4"	868006	FF	3 bar	1
1/2"	8680047	FF	7 bar	1
3/4"	8680067	FF	7 bar	1
1/2"	868004	FF	3 bar	1

## SAFETY VALVE MF

**869**

without pressure gauge NF P52001



Size	ITEM No	Type	Load	Qty
1/2" - 3 bar	869004	MF	3 bar	1
3/4" - 3 bar	869006	MF	3 bar	1
1/2" - 7 bar	8690047	MF	7 bar	1
3/4" - 7bar	8690067	MF	7 bar	1

## PRESSURE REDUCING VALVES

### PRESSURE GAUGE FOR PRV 5430-5431-5432-5485 (CONNECTION BACKWARDS)

**5465**

0-10 bar



Size	ITEM No	Qty
1/4"	P163900	1

# CENTRAL INDIVIDUALIZED HEATING APARTMENT MODULES

CIH apartment modules connect the mains to the horizontal distribution of apartments. They provide an efficient and economical solution for energy counting individualization in residential collective heating projects. CIH apartment modules are suitable for both new buildings and renovation projects.



## APPLICATIONS

- Central heating circuit individualization.
- Solutions for connecting heat counters.
- 2-way valves CIH are best fitted for condensing boilers.
- Hydraulic separation guarantees hydraulic independence in case of heavy renovation or circuit extensions.
- Zone separation is easily achieved by electrical control.

## TECHNICAL CHARACTERISTICS

P Max = 10 bars

T Max = 110°C

### Max flows:

781STAT and 781DYNA: 600, 1500 and 2500 l/h

782 and 784: 600 l/h per apartment

## BENEFITS

- High efficiency circulator, easily programmable through individual screens (782 and 784).
- Hydraulic independence between upstream and downstream circuits is ensured by the hydraulic separator (782 and 784).
- Space-saving solution for multiple apartments (784).
- On/Off control via individual 24V or 230V thermostats.
- 24V or 230V actuator (781STAT and 781DYNA).

## FEATURES

Model	Heat meter pre-equipment	Hydraulic separation	Flow limiter	High efficiency individual circulator	Backflow preventer valve
781STAT	Yes	-	-	N/R	Yes
781DYNA	Yes	-	Yes	N/R	Yes
782	-	Yes	-	Yes	-
784	Yes	Yes	-	Yes	-

## INDIVIDUAL SUB STATION WITH 2 WAY VALVE

### SUB STATION FOR HEATING CIRCUIT INDIVIDUALIZATION AND BALANCING

**NEW**

#### 781STAT

Includes mounting kit for heat meters



Size	ITEM No	Flow range (m³/h)	Operating voltage	Qty
DN15	7810410-230	0,6	230	1
DN15	7810411-230	1,5	230	1
DN20	7810612-230	2,5	230	1
DN15	7810410-24	0,6	24	1
DN15	7810411-24	1,5	24	1
DN20	7810612-24	2,5	24	1

### ACTUATOR FOR 781STAT

**NEW**

#### 781ACT

Adapts on the 2 way valve



ITEM No	Operating voltage	Qty
A069840	230	1
A069841	24	1

## INDIVIDUAL SUB STATION WITH FLOW CONTROL VALVE

### SUB STATION FOR HEATING CIRCUIT INDIVIDUALIZATION WITH FLOW LIMITER

**NEW**

#### 781DYNA

Includes mounting kit for heat meters



Size	ITEM No	Flow range (m³/h)	Operating voltage	Qty
DN15	7810450-230	0,6	230	1
DN15	7810451-230	1,5	230	1
DN20	7810652-230	2,5	230	1
DN15	7810450-24	0,6	24	1
DN15	7810451-24	1,5	24	1
DN20	7810652-24	2,5	24	1

## ON/OFF CONTROL THERMOELECTRIC ACTUATOR AND RING.

### ACTUONOFF

Adapts on the 781 Dyna



Size	ITEM No	Type	Operating voltage	Control Input	Qty
M30x1,5	U620002001	NC	230V	ON/OFF	1
M30x1,5	U620003001	NC	24V	ON/OFF	1

## INDIVIDUAL SUB STATION WITH HYDRAULIC SEPARATOR

### SUB STATION FOR HEATING CIRCUIT INDIVIDUALIZATION WITH HYDRAULIC SEPARATOR

#### 782

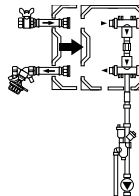


Model	ITEM No	Qty
-	782000	1
Reduced kv	782050	1
Variable speed circulator	782115A	1
Variable speed circulator and reduced kv	782155A	1
Variable speed circulator and battery chronothermostat	782215A	1
Variable speed circulator, reduced kv and battery chronothermostat	782255A	1

## MODULAR INDIVIDUAL SUB STATION WITH HYDRAULIC SEPARATOR

### INDIVIDUALIZED APARTMENT MODULE - LEFT SUPPLY 1 OUTLET

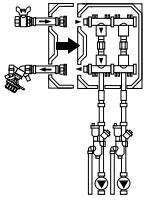
#### 7841-L1



ITEM No	Kv	Outputs	Qty
784141A	Normal	1 x 1/2"	1
784151A	Reduced	1 x 1/2"	1

**INDIVIDUALIZED APARTMENT MODULE - LEFT SUPPLY 2 OUTLET**

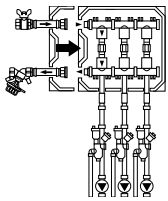
**7841-L2**



ITEM No	Kv	Outputs	Qty
784142A	Normal	2 x 1/2"	1
784152A	Reduced	2 x 1/2"	1

**INDIVIDUALIZED APARTMENT MODULE - LEFT SUPPLY 3 OUTLETS**

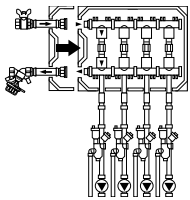
**7841-L3**



ITEM No	Kv	Outputs	Qty
784143A	Normal	3 x 1/2"	1
784153A	Reduced	3 x 1/2"	1

**INDIVIDUALIZED APARTMENT MODULE - LEFT SUPPLY 4 OUTLETS**

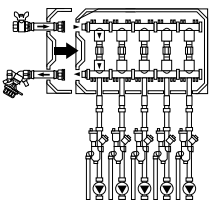
**7841-L4**



ITEM No	Kv	Outputs	Qty
784144A	Normal	4 x 1/2"	1
784154A	Reduced	4 x 1/2"	1

**INDIVIDUALIZED APARTMENT MODULE - LEFT SUPPLY 5 OUTLETS**

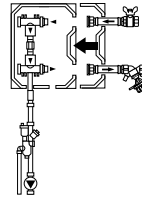
**7841-L5**



ITEM No	Kv	Outputs	Qty
784145A	Normal	5 x 1/2"	1
784155A	Reduced	5 x 1/2"	1

**INDIVIDUALIZED APARTMENT MODULE - RIGHT SUPPLY 1 OUTLET**

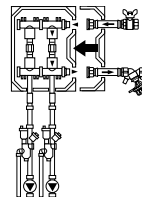
**7841-R1**



ITEM No	Kv	Outputs	Qty
784161A	Normal	1 x 1/2"	1
784171A	Reduced	1 x 1/2"	1

**INDIVIDUALIZED APARTMENT MODULE - RIGHT SUPPLY 2 OUTLETS**

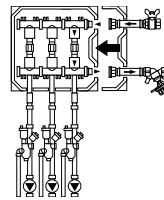
**7841-R2**



ITEM No	Kv	Outputs	Qty
784162A	Normal	2 x 1/2"	1
784172A	Reduced	2 x 1/2"	1

**INDIVIDUALIZED APARTMENT MODULE - RIGHT SUPPLY 3 OUTLETS**

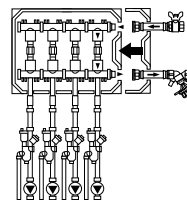
**7841-R3**



ITEM No	Kv	Outputs	Qty
784163A	Normal	3 x 1/2"	1
784173A	Reduced	3 x 1/2"	1

**INDIVIDUALIZED APARTMENT MODULE - RIGHT SUPPLY 4 OUTLETS**

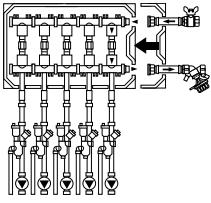
**7841-R4**



ITEM No	Kv	Outputs	Qty
784164A	Normal	4 x 1/2"	1
784174A	Reduced	4 x 1/2"	1

## INDIVIDUALIZED APARTMENT MODULE - RIGHT SUPPLY 5 OUTLETS

7841-R5



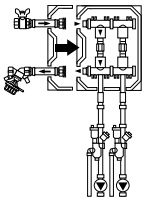
ITEM No	Kv	Outputs	Qty
784165A	Normal	5 x 1/2"	1
784175A	Reduced	5 x 1/2"	1

## MODULAR INDIVIDUAL SUB STATION WITH HYDRAULIC SEPARATOR AND PROGRAMMABLE THERMOSTAT

### INDIVIDUALIZED APARTMENT MODULE - LEFT SUPPLY 2 OUTLET

7841-L2T

With thermostat

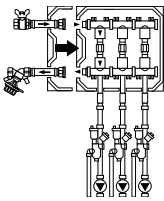


ITEM No	Kv	Outputs	Qty
784242A	Normal	2 x 1/2"	1
784252A	Reduced	2 x 1/2"	1

### INDIVIDUALIZED APARTMENT MODULE - LEFT SUPPLY 3 OUTLETS

7841-L3T

With thermostat

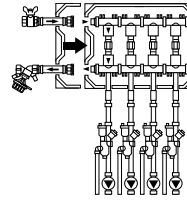


ITEM No	Kv	Outputs	Qty
784243A	Normal	3 x 1/2"	1
784253A	Reduced	3 x 1/2"	1

## INDIVIDUALIZED APARTMENT MODULE - LEFT SUPPLY 4 OUTLETS

7841-L4T

With thermostat

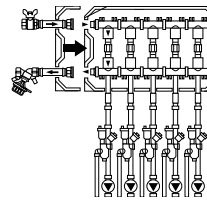


ITEM No	Kv	Outputs	Qty
784244A	Normal	4 x 1/2"	1
784254A	Reduced	4 x 1/2"	1

## INDIVIDUALIZED APARTMENT MODULE - LEFT SUPPLY 5 OUTLETS

7841-L5T

With thermostat

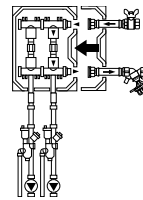


ITEM No	Kv	Outputs	Qty
784245A	Normal	5 x 1/2"	1
784255A	Reduced	5 x 1/2"	1

## INDIVIDUALIZED APARTMENT MODULE - RIGHT SUPPLY 2 OUTLETS

7841-R2T

With thermostat

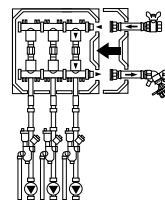


ITEM No	Kv	Outputs	Qty
784262A	Normal	2 x 1/2"	1
784272A	Reduced	2 x 1/2"	1

## INDIVIDUALIZED APARTMENT MODULE - RIGHT SUPPLY 3 OUTLETS

7841-R3T

With thermostat



ITEM No	Kv	Outputs	Qty
784263A	Normal	3 x 1/2"	1
784273A	Reduced	3 x 1/2"	1





# Balancing

Ballorex – precision made easy

Balancing the cooling or heating circuits is a must to ensure an even and controlled distribution of energy throughout the network.

The Ballorex range of valves, actuators and flow meters simplifies the job for professional installers with solutions such as direct reading valves, automatic and dynamic valves, etc.

## APPLICATIONS

Suitable for all hot and cold hydronics circuits for central heating and HVAC.

Valves should be inserted on the main circuit (boiler), on the risers, before the zones (apartments, spaces) or directly at the terminal (fan coils).

## BENEFITS

- Extensive range
- High performance

Balancing valves ..... 272

Building valves ..... 302

## BALANCING VALVES

Comap Ballorex is a complete range of static, dynamic and automatic valves for balancing hot and cold water circuits. Easily commissioned, they guarantee the optimal balance between control and energy savings.



### APPLICATIONS

**PICV VALVES (Pressure Independent Control Valves, Ballorex Dynamic):** Ideal for applications where constant flow is required (such as fan coils and air conditioners) or areas where intermittent operation is necessary (such as hotel rooms and shops). Suitable for cooling or heating applications.

**DPCV VALVES (Differential Pressure Control Valve, or Automatic Balancing Valve):** Guarantee a constant differential pressure **across the risers of heating systems** to ensure they operate at their optimum pressure range, and prevent hydraulic interference from other branches.

**MANUAL BALANCING VALVES (750, 750B, Ballorex V):** Variable Orifice Valves are the most economical way to compensate for **circuit construction unbalance**.

**STATIC VALVES (VENTURI):** Ideal for heating applications. The direct reading capability feature is very convenient for fast commissioning; whatever the valve setting, the orifice Kv for flow measuring remains constant. One can directly read the actual flow while modifying the setting without changing the flow meter value. This dramatically reduces the commissioning time.

### TECHNICAL CHARACTERISTICS

Model	Range dimensions	PN	Temperature
750	DN10-DN50	PN16	-25°C / +110°C
Ballorex V	DN15-DN50	PN25	-20°C / +120°C
750B	DN15-DN400	PN16	-10°C / +120°C (up to DN200) -10°C / +200°C (DN250-400)
Venturi	DN15-DN50	PN25	-20°C / +120°C
Ballorex Dynamic	DN15-DN32	PN25	-20°C / +120°C
Ballorex DP	DN15-DN32	PN25	-20°C / +135°C

### BENEFITS

Model	Installer benefits
750	Sanitary compatibility (French ACS). Multiple orientation digital display. Sealable setting memory.
Ballorex V	Fast shut-off and isolation without losing the setting. Easy setting (Allen key). Symmetrical design: no flow direction constraint. Super compact design.
750B	Robust and accurate design
Venturi	Fast shut-off. Flow reading accuracy across the Venturi, without changing the flow meter value. Easy setting (Allen key). No straight upwards/downwards pipe required.
Ballorex Dynamic	Very accurate flow reading across the Venturi, without changing the flow meter value. Flow regulation stability. No straight pipes required.
Ballorex DP	Energy savings thanks to removal of overflows in the pipes and homogeneous temperature returns. Possibility to create new zones in the building without upgrading the whole heating system. Thermostatic valves always work at their best authority. Noise reduction in the installation.

### FEATURES

The fast connector prevents the pressure ports from leaking and ageing.

Model	Venturi orifice for flow measure	Pressure port type	Principles and features
750		Fast / Needle	Bronze, oblique seat variable orifice direct reading valve (VODRV).
Ballorex V		Needle	DZR straight seat (VODRV).
750B		Fast	Cast iron flanged valves, variable orifice direct reading valve (VODRV).
Venturi	Yes	Needle	DZR valves, straight seat, fixed orifice direct reading valve (FODRV). Compactness and direct reading.
Ballorex Dynamic	Yes	Fast / Needle	DZR valve, EPDM membrane. Works with On-Off or modulating actuators.
Ballorex DP		Fast / Needle	CW602N brass valve, EPDM membrane, 2 versions, 5-25 kPa (LP) and 20-40 kPa (HP).



## DYNAMIC BALANCING VALVES

### PRESSURE INDEPENDANT CONTROL VALVE

NEW

#### BALLOREX DYNAMIC

With needle pressure test points



Size	Size (metric)	ITEM No	Flow range (m³/h)	Qty
½" F-F	DN15	4360000L-000001	0,036-0,118	1
½" F-F	DN15	4360000S-000001	0,090-0,450	1
½" F-F	DN15	4360000H-000001	0,300-1,400	1
¾" F-F	DN20	4460000S-000001	0,820-0,882	1
¾" F-F	DN20	4460000H-000001	0,835-2,220	1
1" F-F	DN25	4560000S-000001	0,835-2,340	1
1" F-F	DN25	4560000H-000001	1,750-3,330	1
1¼" F-F	DN32	4660000H-000001	1,910-4,400	1

### PROPORTIONAL CONTROL THERMO-ELECTRIC ACTUATOR AND RING.

#### ACTUMOD

To be mounted on the Ballorex Dynamic



Size	ITEM No	Type	Operating voltage	Control Input	Qty
M30x1,5	U620001001	Normally closed	24V	0-10V	1

### ON/OFF CONTROL THERMOELECTRIC ACTUATOR AND RING.

#### ACTUONOFF

To be mounted on the Ballorex Dynamic



Size	ITEM No	Type	Operating voltage	Control Input	Qty
M30x1,5	U620002001	Normally closed	230V	ON/OFF	1
M30x1,5	U620003001	Normally closed	24V	ON/OFF	1

## DIFFERENTIAL PRESSURE AUTOMATIC BALANCING VALVES

### AUTOMATIC DIFFERENTIAL PRESSURE CONTROL VALVE

NEW

#### BALLOREX DP- 5-25 KPA



Size	Size (metric)	ITEM No	Qty
1/2"	DN15	43550010-021003	1
3/4"	DN20	44550010-021003	1
1"	DN25	45550010-021003	1
1 1/4"	DN32	46550010-021003	1
1 1/2"	DN40	47550010-021003	1
2"	DN50	98550010-021003	1

### AUTOMATIC DIFFERENTIAL PRESSURE CONTROL VALVE

NEW

#### BALLOREX DP- 20-40KPA



Size	Size (metric)	ITEM No	Qty
1/2"	DN15	43550030-021003	1
3/4"	DN20	44550030-021003	1
1"	DN25	45550030-021003	1
1 1/4"	DN32	46550030-021003	1
1 1/2"	DN40	47550030-021003	1
2"	DN50	98550010-021003	1

### PARTNER VALVE FOR BALLOREX DP

#### 750PV

With 2 pressure test points (for flow measuring) and connection to the Ballorex DP



Size	Size (metric)	ITEM No	Flow range (m³/h)	Qty
1/2"	DN15	754404	0,1-4,47	1
3/4"	DN20	754406	0,13-5,9	1
1"	DN25	754408	0,17-8,52	1
1 1/4"	DN32	754410	0,2-14,88	1

## MANUAL BALANCING VALVES

### VENTURI BALANCING VALVE

#### BALLOREX F

Needle pressure port, Fast shut-off and Venturi



Size	Size (metric)	ITEM No	Kv range (m³/h)	Venturi Kv (m³/h)	Qty
1/2"	DN15L	435000L-001003	0,062-0,226	0,359	1
1/2"	DN15S	435000S-001003	0,13-0,530	0,746	1
1/2"	DN15H	435000H-001003	0,267-1,17	1,566	1
3/4"	DN20L	445000L-001003	0,13-0,530	0,746	1
3/4"	DN20S	445000S-001003	0,267-0,17	1,566	1
3/4"	DN20H	455000H-001003	0,511-2,17	2,952	1
1"	DN25S	455000S-001003	0,511-2,17	2,952	1
1"	DN25H	455000H-001003	1,044-4,500	6,01	1
1"1/4	DN32H	465000H-001003	1,044-4,500	6,01	1
1"1/2	DN40H	475000H-001003	1,580-6,760	9,204	1
2"	DN50H	485000H-001003	2,952-12,63	17,1	1

### VENTURI BALANCING VALVE - COMPRESSION

#### BALLOREX C

Needle pressure port, Fast shut-off and Venturi



Size	Size (metric)	ITEM No	Kv range (m³/h)	Venturi Kv (m³/h)	Qty
1/2"	DN15L	4850100H-001063	0,062-0,226	0,359	1
1/2"	DN15S	4850100H-001063	0,13-0,530	0,746	1
1/2"	DN15H	4850100H-001063	0,267-1,17	1,566	1
3/4"	DN20L	4850100H-001063	0,13-0,53	0,746	1
3/4"	DN20S	4850100H-001063	0,267-1,170	1,566	1
3/4"	DN20H	4850100H-001063	0,511-2,17	2,952	1
1"	DN25S	4850100H-001063	0,511-2,17	2,952	1
1"	DN25H	4850100H-001063	1,044-4,50	6,01	1
1"1/4	DN32H	4850100H-001063	1,044-4,50	6,01	1
1"1/2	DN40H	4850100H-001063	1,584-6,76	9,204	1
2"	DN50H	4850100H-001063	2,952-12,63	17,1	1

## MANUAL BALANCING VALVES, VODRV

NEW

#### BALLOREX V

Needle pressure port, Fast shut-off



Size	Size (metric)	ITEM No	Type	Kvs (m³/h at BP 2k)	Qty	Kv range
1/2"	DN15	4351000S-001003	-	1,71	1	0,019-0,530
3/4"	DN20	4451000S-001003	-	4,4	1	0,055-1,170
1"	DN25	4551000S-001003	-	7,46	1	0,084-2,170
1¼"	DN32	4651000S-001003	-	13,5	1	0,310-4,500
1½"	DN40	4751000S-001003	-	23,7	1	0,450-6,770
2"	DN50	4851000S-001003	-	34,5	1	0,960-12,640
½"	DN15	4351000S-001673 With Drain		1,71	1	0,019-0,530
¾"	DN20	4451000S-001673 With Drain		4,4	1	0,95-1,170
1"	DN25	4551000S-001673 With Drain		7,46	1	0,084-2,170
1¼"	DN32	4651000S-001673 With Drain		13,5	1	0,310-4,500
1½"	DN40	4751000S-001673 With Drain		23,7	1	0,450-6,776
2"	DN50	4851000S-001673 With Drain		34,5	1	0,960-12,640

## BALANCING VALVES WITH DIGITAL HANDWHEEL

#### 753



Size	Size (metric)	ITEM No	Kv range (m³/h)	Qty
1/2"	DN15	753104	0,1-4,47	1
3/4"	DN20	753106	0,13-5,9	1
1"	DN25	753108	0,17-8,52	1
1"1/4	DN32	753110	0,2-14,88	1
1"1/2	DN40	753112	0,23-21,09	1
2"	DN50	753116	0,55-35,48	1

## BALANCING VALVES WITHOUT HANDWHEEL

**1753**



Size	Size (metric)	ITEM No	Kv range (m <sup>3</sup> /h)	Qty
1/2"	DN15	175304	0,09-4,52	1
3/4"	DN20	175306	0,12-6,01	1
1"	DN25	175308	0,15-8,65	1
1 1/4"	DN32	175310	0,25-14,97	1
1 1/2"	DN40	175312	0,29-21,2	1
2"	DN50	175316	0,76-35,73	1

## BALANCING VALVES WITHOUT HANDWHEEL

**1752**

with one drain



Size	Size (metric)	ITEM No	Kv range (m <sup>3</sup> /h)	Qty
1/2"	DN15	175204	0,09-4,52	1
3/4"	DN20	175206	0,12-6,01	1
1"	DN25	175208	0,15-8,65	1

## BALANCING VALVES WITH DIGITAL HANDWHEEL

**750**

1 pressure test point and 1 drain



Size	Size (metric)	ITEM No	Kv range (m <sup>3</sup> /h)	Qty
3/8"	DN10	750403	0,12-1,95	1
1/2"	DN15	750404	0,1-4,47	1
3/4"	DN20	750406	0,13-5,9	1
1"	DN25	750408	0,17-8,52	1
1 1/4"	DN32	750410	0,2-14,88	1
1 1/2"	DN40	750412	0,23-21,09	1
2"	DN50	750416	0,55-35,48	1

## REDUCED KV BALANCING VALVES WITH DIGITAL HANDWHEEL

**750R**

1 pressure test point and 1 drain



Size	Size (metric)	ITEM No	Kv range (m <sup>3</sup> /h)	Qty
1/2"	DN15	7504041	0,115-1,90	1
3/4"	DN20	7504061	0,115-1,89	1
1"	DN25	7504081	0,1-5,19	1

## REDUCED KV BALANCING VALVES WITH DIGITAL HANDWHEEL

**751**

2 pressure test points



Size	Size (metric)	ITEM No	Kv range (m <sup>3</sup> /h)	Qty
3/8"	DN10	751403	0,12-1,95	1
1/2"	DN15	751404	0,1-4,47	1
3/4"	DN20	751406	0,13-5,9	1
1"	DN25	751408	0,17-8,52	1
1 1/4"	DN32	751410	0,2-14,88	1
1 1/2"	DN40	751412	0,23-21,09	1
2"	DN50	751416	0,55-35,48	1

## REDUCED KV BALANCING VALVES WITH DIGITAL HANDWHEEL

**751R**

2 pressure test points



Size	Size (metric)	ITEM No	Kv range (m <sup>3</sup> /h)	Qty
1/2"	DN15	7514041	0,115-1,90	1
3/4"	DN20	7514061	0,115-1,89	1
1"	DN25	7514081	0,1-5,19	1

## FLANGED BALANCING VALVES

### FLANGED CAST IRON BALANCING VALVE

#### 751B

Straight through seat, VODRV



Size (metric)	ITEM No	Kv range (m <sup>3</sup> /h)	Qty
DN15	751504	0,13-4,5	1
DN20	751506	0,22-6,6	1
DN25	751507	0,22-9,8	1
DN32	751508	0,29-15,1	1
DN40	751509	0,88-24,9	1
DN50	751510	1,07-48,5	1
DN65	751512	2,98-74,4	1
DN80	751513	3,65-111	1
DN100	751514	3,77-165	1
DN125	751516	8,30-242	1
DN150	751518	16,2-372	1
DN200	751520	32,5-704	1

### FLANGED CAST IRON BALANCING VALVE

#### 750B

Straight through seat, VODRV



Size (metric)	ITEM No	Kv range (m <sup>3</sup> /h)	Qty
DN250	750750	179-812	1
DN300	750800	411-1383	1
DN350	750850	395-1651	1
DN400	750900	690-2383	1

## VENTURI FLANGED BALANCING VALVE

NEW

### BALLOREX VENTURI

Butterfly cast iron, FODRV



Size (metric)	ITEM No	Kvs (m <sup>3</sup> /h at BP 2k)	Flow range (m <sup>3</sup> /h)	Qty
DN65	3937000-680009	78,2	6,48 - 25,2	1
DN80	3937600-680009	169	12,6 - 54,0	1
DN100	3938200-680009	360	22,3 - 93,6	1
DN125	3938800-680009	502	32,4 - 144	1
DN150	3939400-680009	1010	60,5 - 205	1
DN200	3940000-680009	1910	101 - 360	1
DN250	3940600-680009	2540	148 - 565	1
DN300	3941200-680009	4850	259 - 814	1

## ACCESSORIES

### ANTI-LEAK QUICK COUPLING TEST POINT

#### 2761

For 750 and 751 type valves



Size	ITEM No	Qty
1/4"	276102	2
3/8"	276103	2

### 50 MM TEST POINT EXTENSION

#### 27

For 750 and 751 type valves



Size	ITEM No	Qty
1/4"	VBG95C00	2
3/8"	VBG95C01	2

## DRAIN FOR BALANCING VALVES

**1210**

For 751 type valves



Size	ITEM No	Qty
1/4"	VPD00A11	1
3/8"	VPD00A12	1

## CAP + O-RING

**2754**

For 750 and 751 type valves



Size	ITEM No	Qty
1/4"	VPD00A15	10
3/8"	VPD00A16	10

## PRESSURE ADAPTER FOR DRAIN PORT

**2762**

For 750 type valves



Size	ITEM No	Qty
3/4"	276200	2

## BALANCING INSTRUMENT FOR COMMISSIONING

**NEW**

**3760XBI**

Includes needle and quick coupling leak-free adaptors



ITEM No	Qty
376010	1

## 3MM NEEDLE ADAPTER FOR COMAP MEASURER

**2756**

TA valves compatible



ITEM No	Qty
275631	2

## PAIR OF FILTERS

**3060F**

For balancing instruments



ITEM No	Qty
VMP07A06	2

## MEASURER ADAPTER FOR COMAP VALVES

**2758**



ITEM No	Measurers	Qty
275802	COMAP, Oventrop, Honeywell, Herz...	2
275801	TA	2

## QUICK COUPLING HEAD FOR COMAP VALVES

**2764**

Adapts on 2759



ITEM No	Qty
276400	2

## ADAPTER BODY

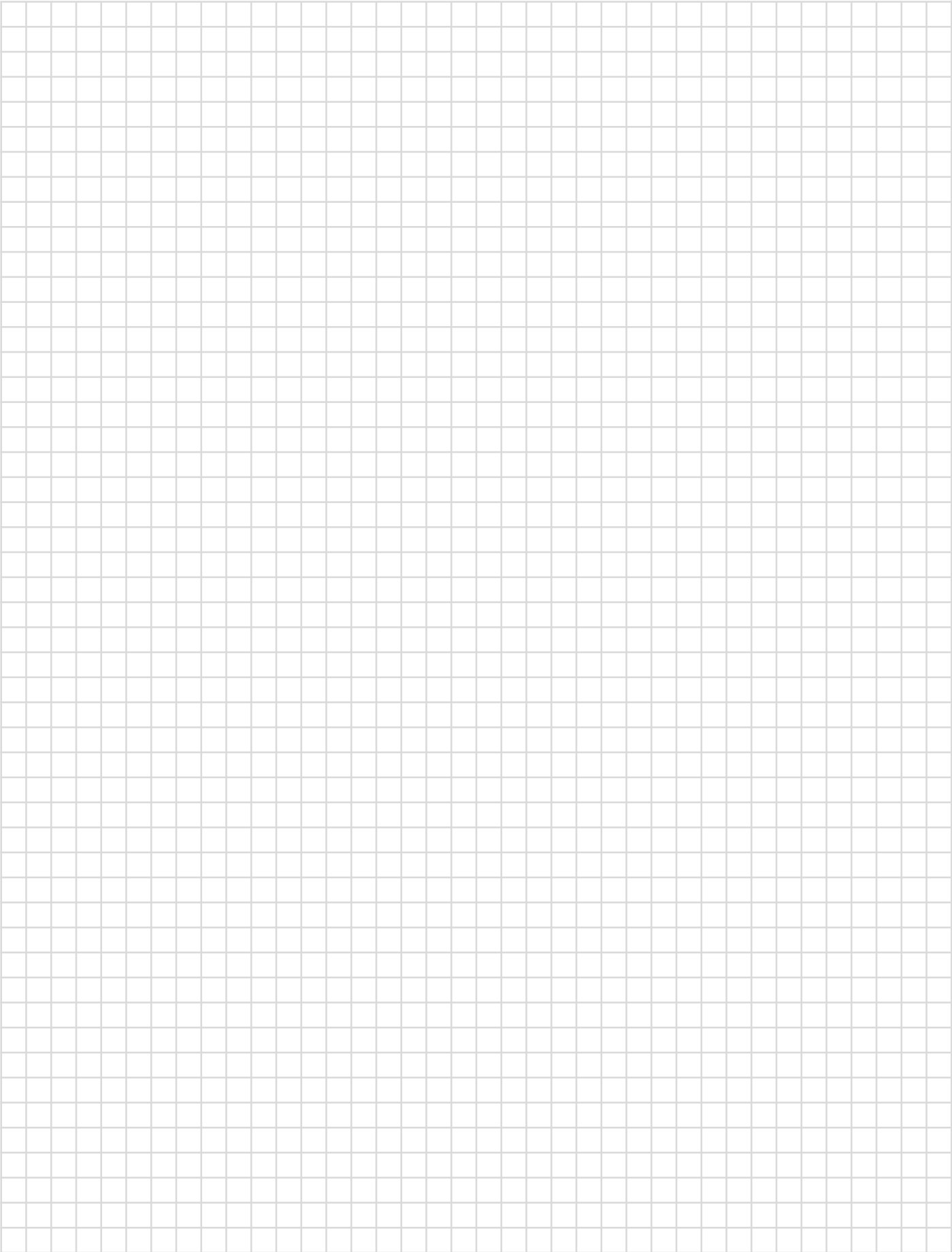
**2759**

With ball valve



ITEM No	Qty
275900	2

# NOTES



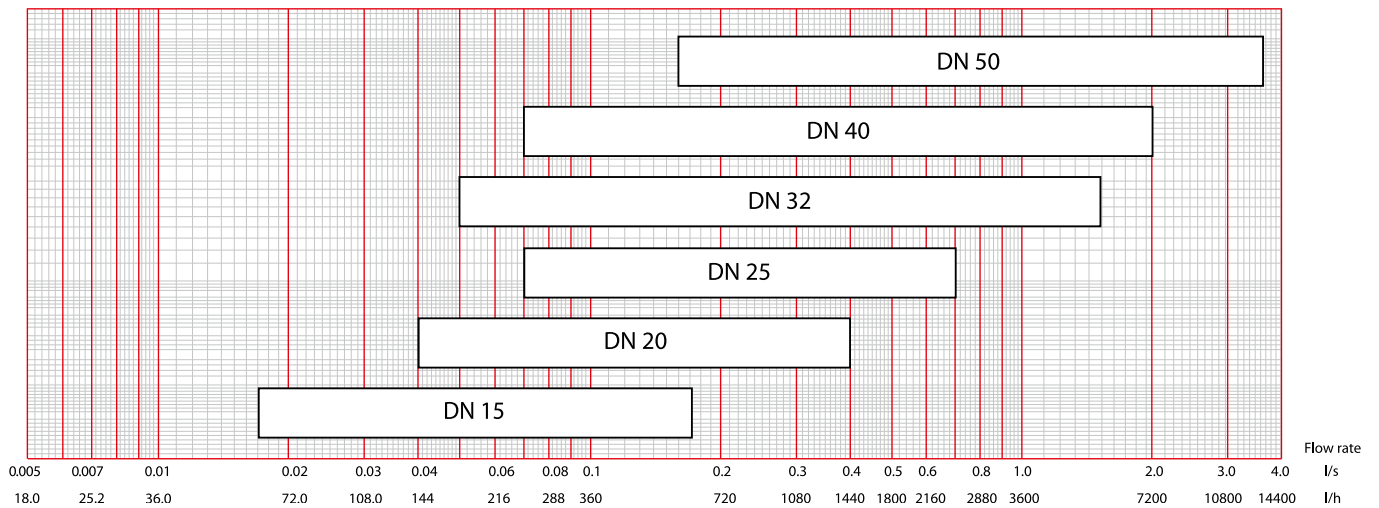


# BALLOREX V

## SELECTION



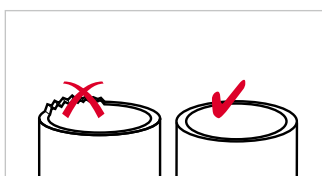
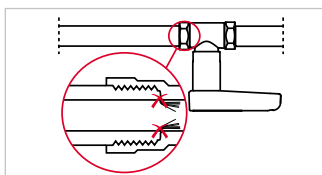
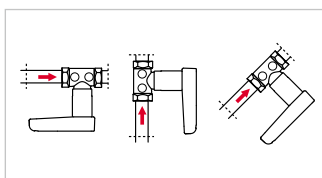
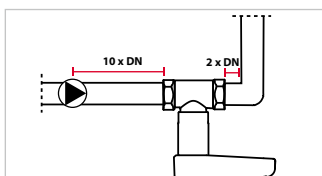
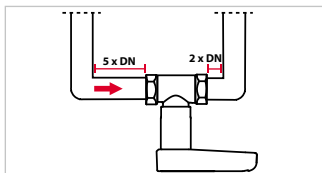
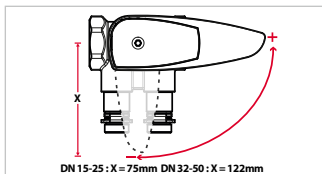
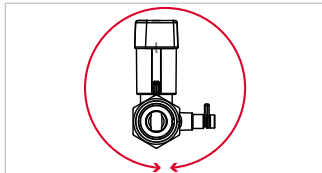
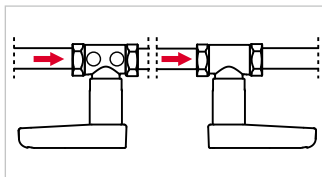
Temperature range	-20°C to +120°C
Pressure class	PN25
Valve housing material	CW602N





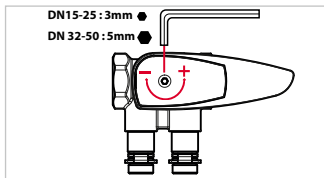
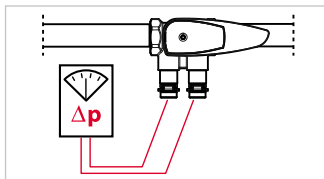
Flow range		kVs m <sup>3</sup> /h	Dimension
l/s	l/h		
0.017 – 0.17	60 – 610	1.71	DN 15
0.04 – 0.4	145 – 1440	4.40	DN 20
0.07 – 0.7	250 – 2520	7.46	DN 25
0.05 – 1.5	180 – 5400	13.48	DN 32
0.07 – 2	250 – 7200	23.68	DN 40
0.16 – 3.6	580 – 12960	34.52	DN 50

## INSTALLATION



- The Ballorex V can be installed regardless of flow direction.
- The Ballorex V can be oriented 360° around the pipe axis.
- Installation space is required to ensure 90° isolation.
- 5 x DN straight piping is required when the valve is mounted directly before the bend.
- 10 x DN piping is required when the pipe is mounted directly after the pump.
- The Ballorex V can be installed on pipes regardless of their inclination.
- Loose hemp must not hang into the pipe.
- Deburring of pipe ends should be carried out to avoid system clogging.

## SETTING

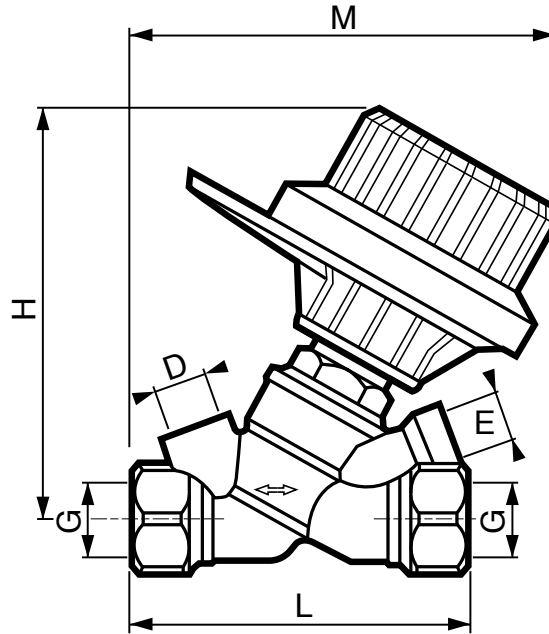


- Comap balancing computer is used for flow verification.
- The Ballorex V should be selected in the menu and the valve's setting entered on the balancing computer to obtain the flow reading.
- When connecting a device other than a Comap balancing computer, the Kvm value of the valve should be entered to obtain the flow reading.
- Setting the valve is easily done with an Allen key.
- Adjust the valve until the required flow is obtained.



# BALLOREX 750 STATIC BALANCING VALVE

## SELECTION



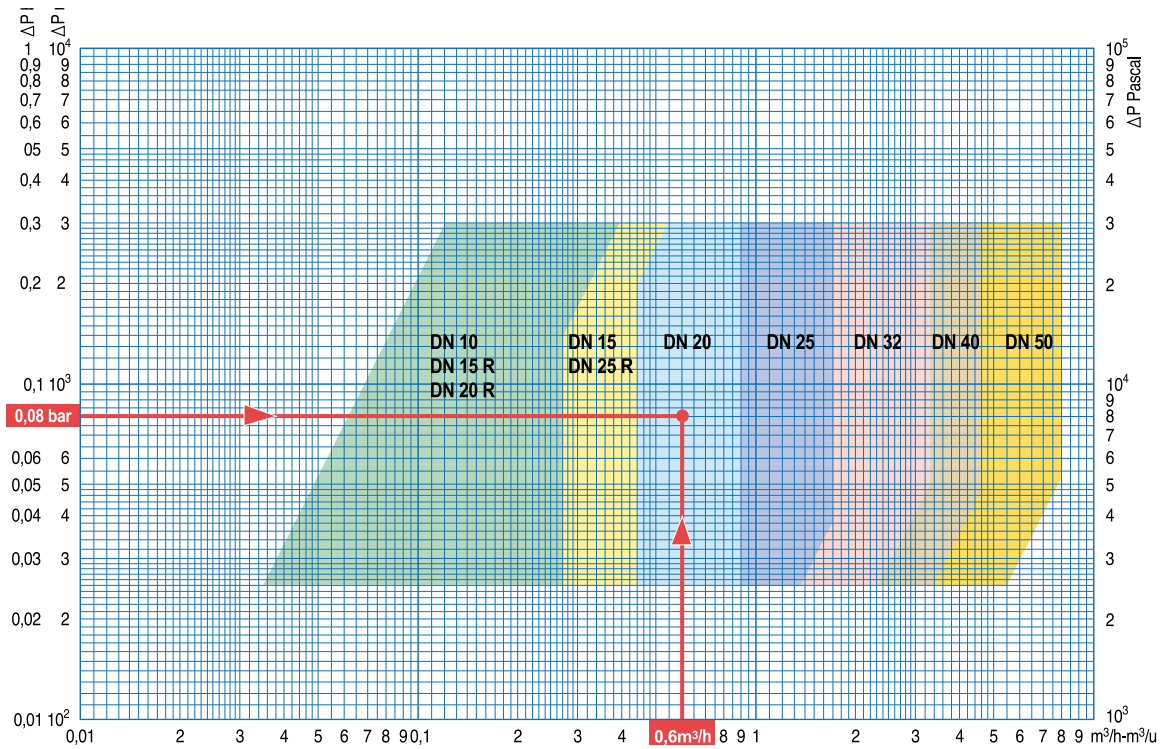
### Size, features and material

DN	G	D	E	H	L	M
10	3/8"	1/4"	1/4"	104	88.5	106
15/15R	1/2"	1/4"	1/4"	104	88.5	106
20/20R	3/4"	1/4"	1/4"	104	95.5	112
25/25R	1"	1/4"	1/4"	108	96	116
32	5/4"	3/8"	1/4"	117	117	127
40	6/4"	3/8"	1/4"	122	125	133
50	2"	3/8"	1/4"	126	149	146

Temperature range	-25°C / +110°C
Pressure class	PN16
Valve housing material	Bronze

## QUICK SELECTION CHART

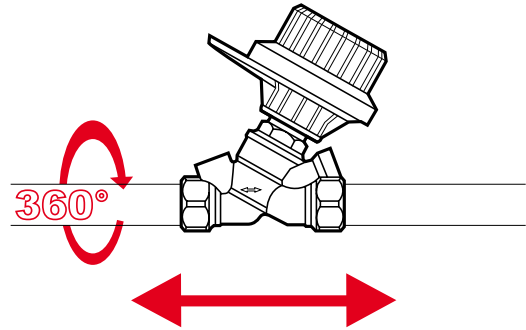
Quickly select the valve by crossing the nominal flow and associated pressure loss.



## INSTALLATION

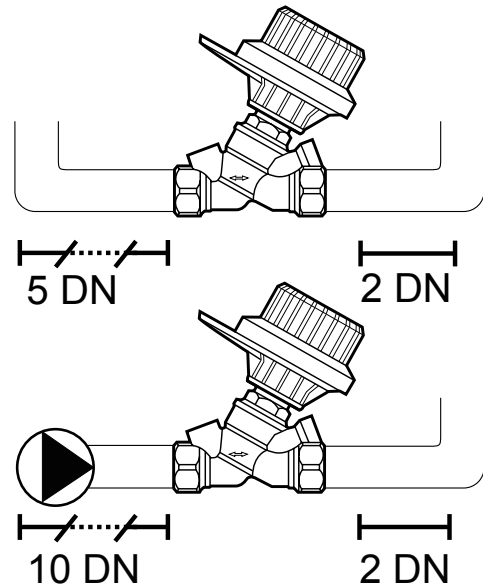
### Valve orientation

- Can be mounted in both flow directions, though preferred flow direction is A  $\rightarrow$  B (marked on the body).
- Can be mounted 360° around pipe axis.
- Can be installed in either the supply or the return pipe, although installation in the return pipe is recommended.



### Recommended pipe length

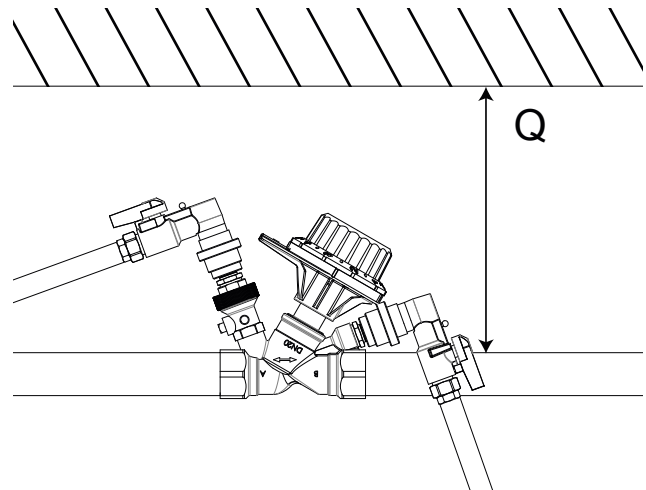
- For optimum measuring results, inlet and outlet pipe lengths of 15 x DN are recommended.
- Minimum length of straight pipe on inlet:
  - Downstream from a pump: 10 x DN
  - Downstream from valves or fittings: 5 x DN
- The minimum length of the outlet section should be at least 2 x DN.



## Reserved space for accessibility

- For easy connection of the measurer on the balancing valve, a comfort distance (Q) is recommended.

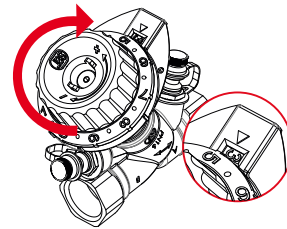
Size	Q (mm)
DN 15 – 1/2"	165
DN 20 – 3/4"	165
DN 25 – 1"	170
DN 32 – 1 1/4"	180
DN 40 – 1 1/2"	185
DN 50 – 2"	190



## SETTING

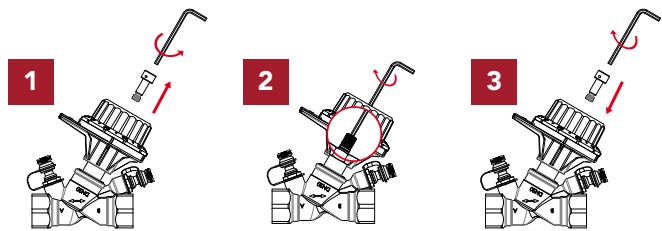
### Setting position

- The valves close when the handwheel is turned clockwise.
- The setting position is shown in the digital display.



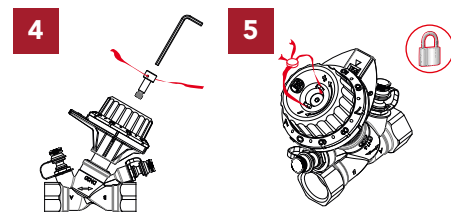
### Setting memorisation

- Remove the protection screw.
- Screw the setting memorisation screw until its stop limit. The setting is memorised.
- Unscrew the protection screw. The setting is memorised and protected.



### Setting sealing

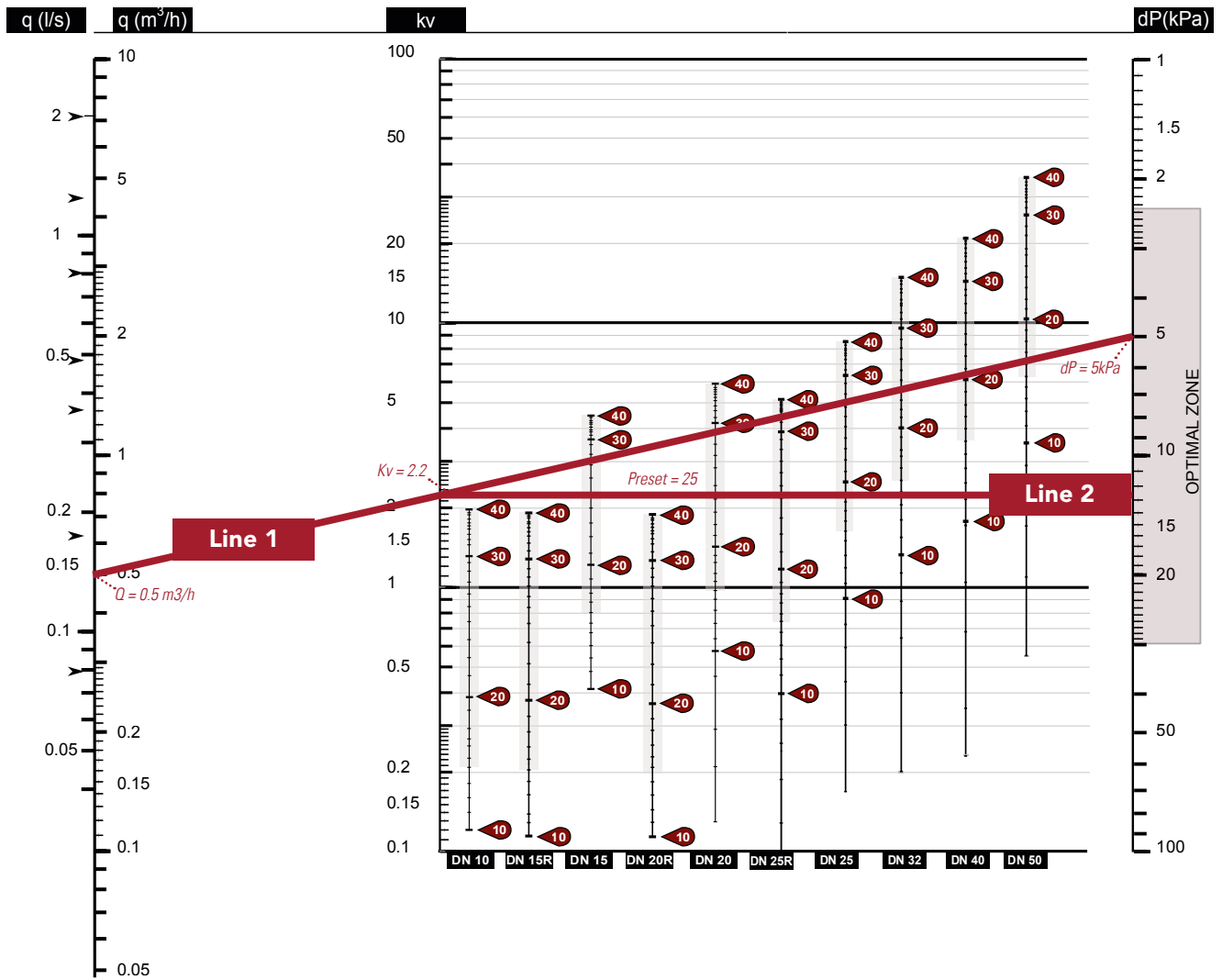
- Insert the protection screw in which the sealing wire will be inserted.
- Unscrew the protection screw and pass the wire through the eyes of the handwheel.



### Control sealing

- Insert the ring of the plate into the hole in the graduated collar of the handwheel. The control is sealed.



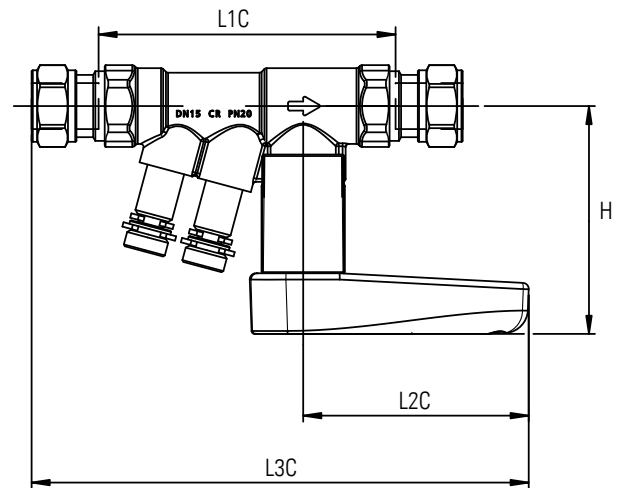
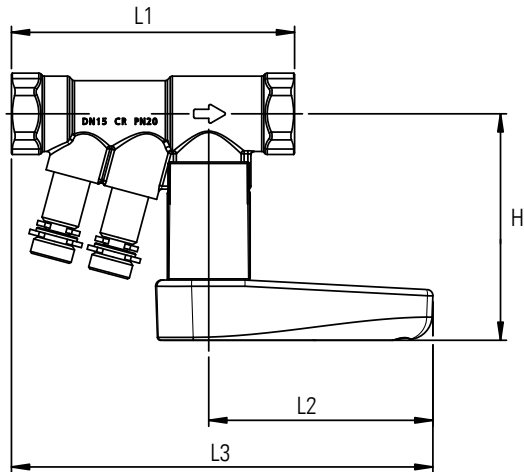


- 1 Draw a line (line 1) between the required flow (here  $q=0.5m^3/h$ ) and the pressure drop (here  $dP=5kPa$ ).
- 2 The intersection of this line and the Kv-axis indicates the Kv setting required (here  $Kv=2.2$ ).
- 3 Draw a horizontal line (line 2) on the valves selection chart.
- 4 Select the most appropriate valve (here DN 15) with corresponding pre-setting (here 25).



# BALLOREX VENTURI STATIC BALANCING VALVE

## SELECTION

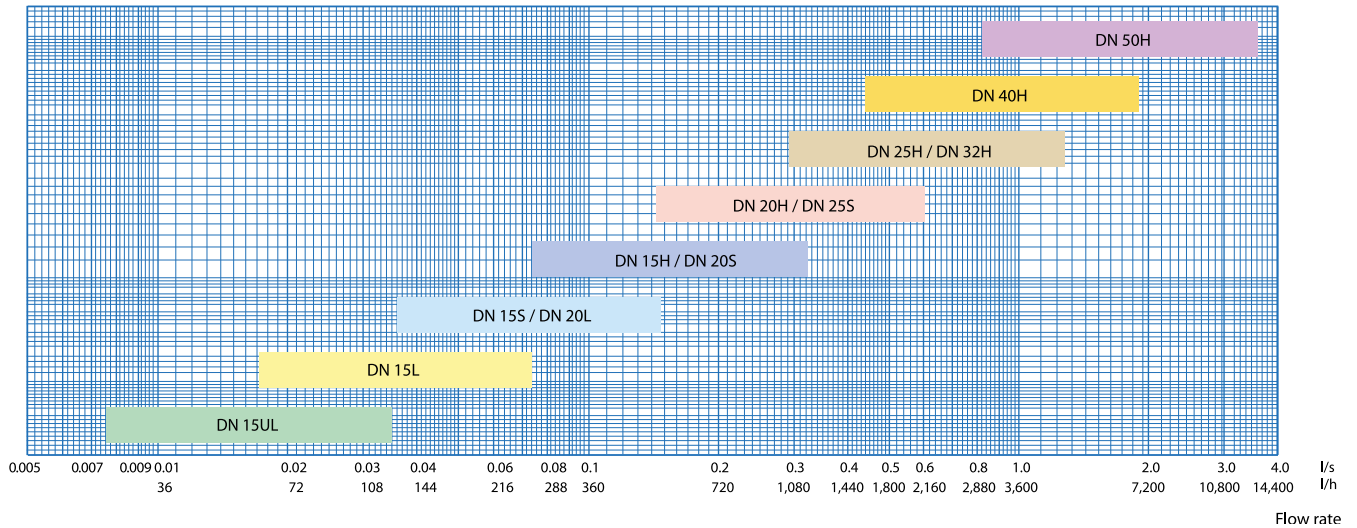


### Size, features and material

DN	H	L1	L1C	L2	L3	L3C
15L	76	94	99	75	100	164
20	79	100	105	75	144	170
25	83	112	118	75	150	177
32	109	130	135	122	208	241
40	113	140	149	122	213	253
50	120	156	167	122	221	265

Max. temperature	120°C
Min. temperature	-20°C
Max. pressure	25 bar
Valve housing material	DR Brass CW602N CuZn36Pb2As
Ball & needle material	DR Brass CW602N (chrome plated)
Valve handle material	Polyamide (PA6.6 30%GF)

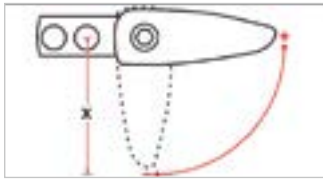
## QUICK SELECTION CHART



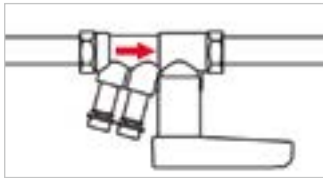
## INSTALLATION AND SETTING



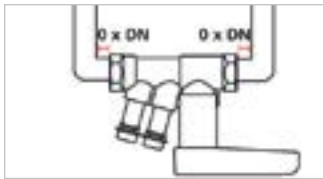
- Ballorex can be oriented 360° around the pipe axis.



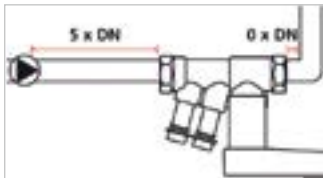
- Installation space required to ensure 90° isolation.



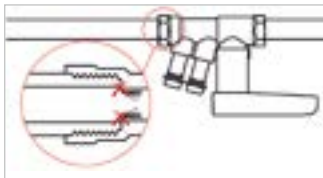
- Make sure the dimensions of the balancing valve correspond to the design flow.
- An arrow on Ballorex Venturi housing indicates the flow direction to be respected.



- 0x DN straight piping required.
- Bends, flexible hoses, etc. can be mounted directly on the valve.

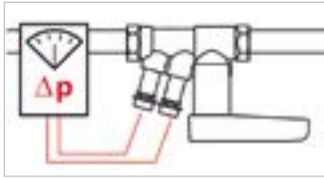


- 5 x DN straight piping is required when the valve is mounted directly after the pump.

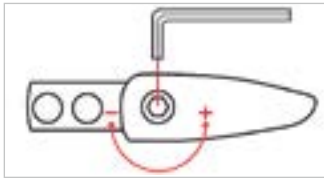


- Make sure loose hemp is not hanging into the pipe.





- Connect the flow meter and select the valve. Enter the Venturi valve Kvm-value. The Kvm-value is printed on the handle.

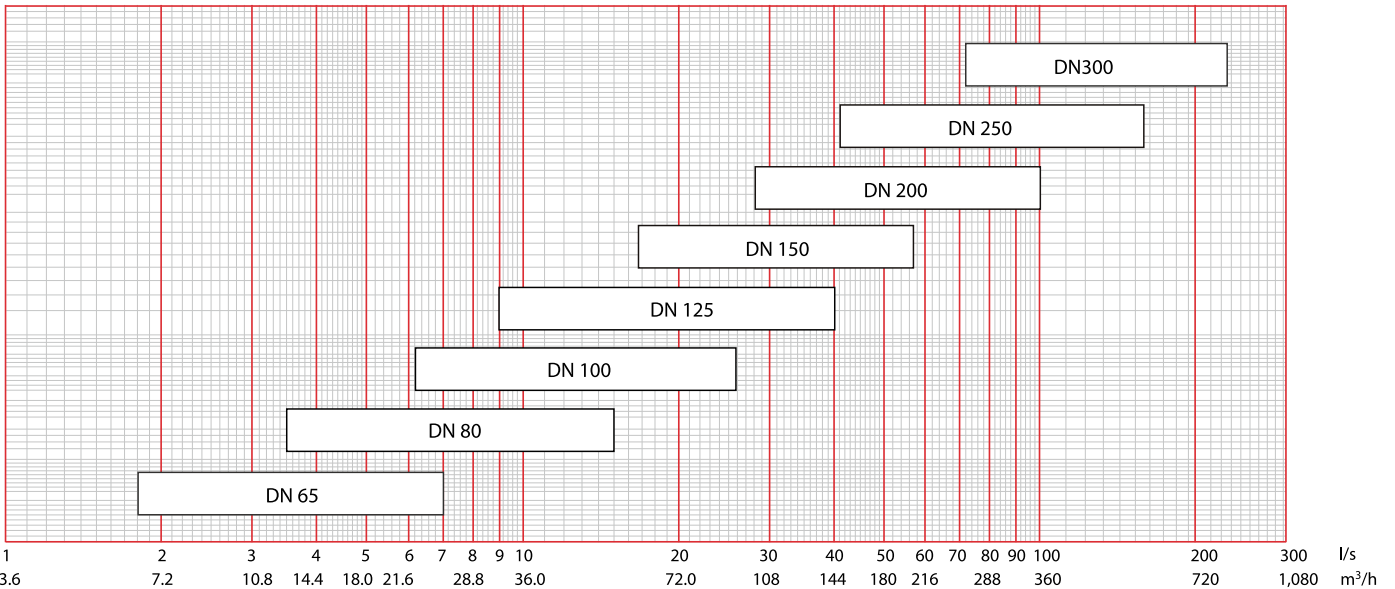


- Setting the valve is easily done with an Allen key. Adjust the valve until the required flow is displayed.



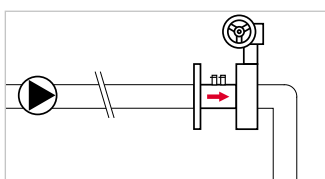
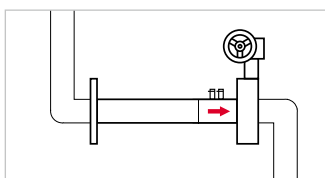
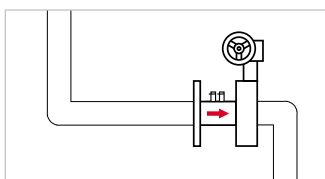
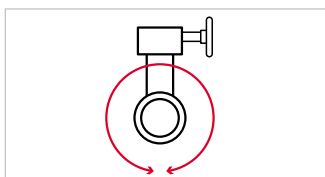
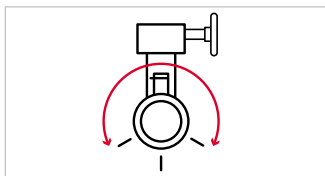
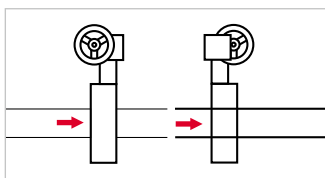
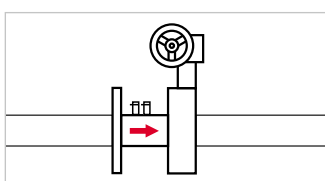
# BALLOREX VENTURI FLANGED BALANCING VALVE

## SELECTION



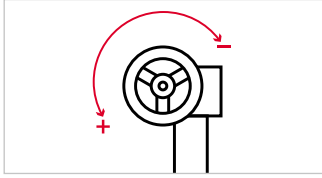
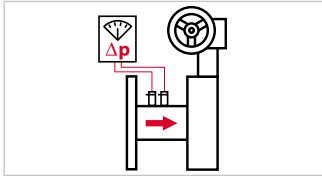
Flow range		Dimension
l/s	m <sup>3</sup> /h	
1.8 – 7	6.48 – 25.2	DN 65
3.5 – 15	12.6 – 54.0	DN 80
6.2 – 26	22.3 – 93.6	DN 100
9 – 40	32.4 – 144	DN 125
16.8 – 57	60.5 – 205	DN 150
28 – 100	101 – 360	DN 200
41 – 157	148 – 565	DN 250
72 – 226	259 – 814	DN 300

## INSTALLATION



- Ballorex Venturi FODRV must be installed so that the flow direction is as indicated by the direction arrow on the valve body.
- Ballorex Venturi DRV can be installed regardless of the flow direction.
- Ballorex Venturi FODRV can be installed with the gearbox pointing in any direction. However, if the gearbox is mounted pointing down, it is assumed that there are no impurities in the system to affect the performance of the valve. If there is a risk of impurities, it is recommended to install the gearbox at an angle of 60 to 300 degrees.
- Ballorex Venturi DRV can be installed with the gearbox pointing in any direction.
- It is recommended to have a straight pipe length of minimum 5 x pipe diameter (DN) in front of the valve (upstream).
- There are no minimum requirements for straight lengths of pipe after the valve (downstream).
- There are no minimum lengths of straight pipe in front of or after the Ballorex Venturi FODRV extended model.
- If a pump is installed immediately in front of the valve (commissioning valve installed on flow), a straight pipe of 10 x pipe diameter (DN) is required. No requirements for straight pipe sections after the valve.

## SETTING

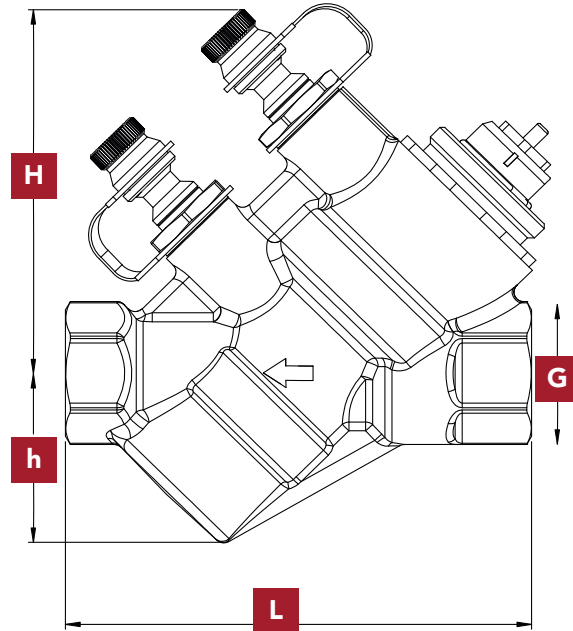


- The flow rate through the Ballorex Venturi FODRV can be measured with the BROEN Flowmeter or other types of manometers. Ballorex Venturi FODRV is supplied with two P/T plugs to measure the differential pressure across the Venturi. By measuring the differential pressure, the flow rate can be calculated.
- The flow rate can be adjusted by rotating the handle of the gearbox. The flow rate increases by rotating the handle to the left (anti-clockwise) and is reduced by rotating it to the right (clockwise).



# BALLOREX DYNAMIC FLOW CONTROL BALANCING VALVE

## SELECTION



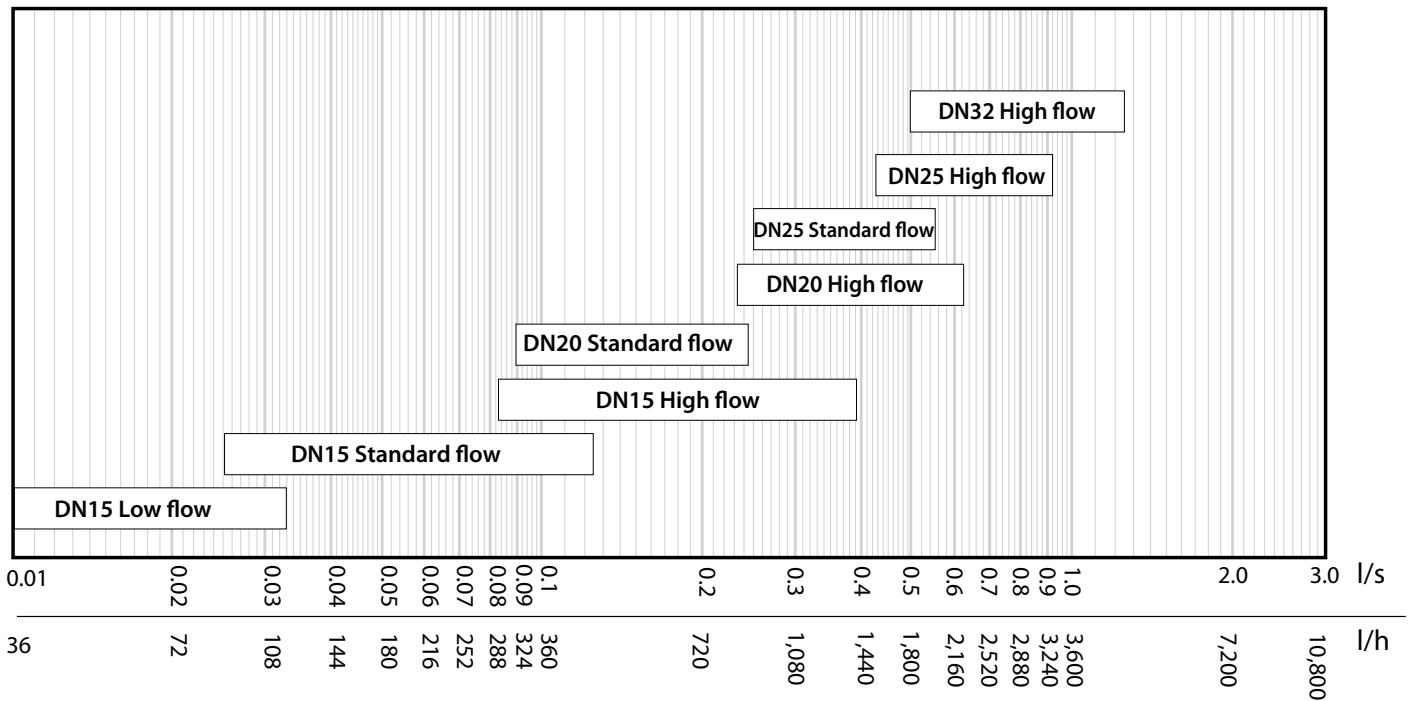
### Size, features and material

DN	G	H	h	L
15	1/2	76	35	95
20	3/4	83	49	120

Temperature range	-20°C / +120°C
Pressure class	PN 25
Operating pressure	30 – 400 kPa
Valve housing material	DR Brass CW602N
Cartridge material	PPS
Sealings material	EPDM
Membrane material	Reinforced EPDM

## QUICK SELECTION CHART

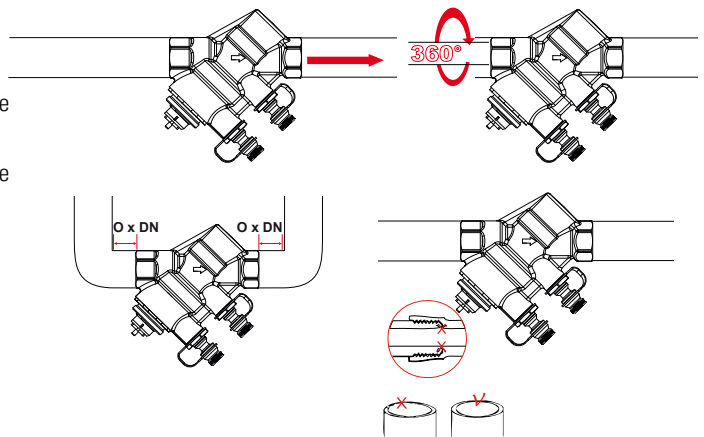
This chart will help you to quickly identify the correct valve diameter according to the required flow and differential pressure.



## INSTALLATION

### Valve orientation and pipe length

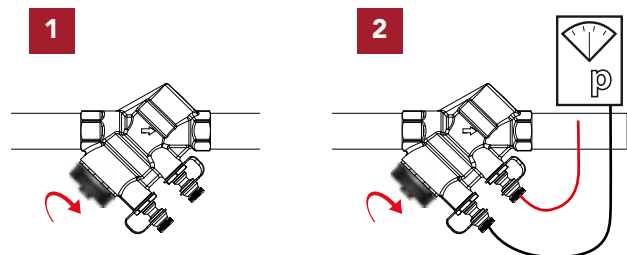
- 1 The fluid should flow as indicated on the valve.
- 2 Ballorex Dynamic can be oriented 360° around the pipe axis.
- 3 No upstream or downstream pipe lengths are required. Bends can be mounted directly onto the valve.
- 4 Deburr the pipe ends and ensure that the joints are not obstructing the flow.



## SETTING

### Setting the valve

- 1 The blind cap serves as a pre-setting tool.
- 2 Connect the flow meter and select the valve type / Venturi Kv. Turn the pre-set tool to set the desired flow.





Setting = 100%

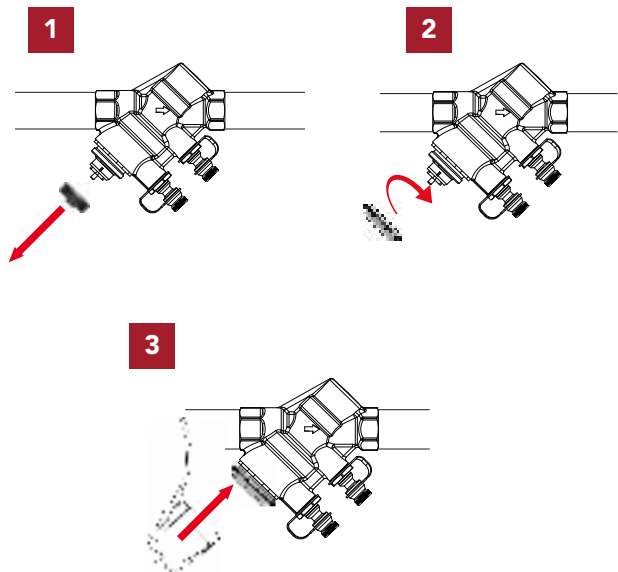


Setting = 32%

The scale on the pre-setting tool is read against the marking on the brass housing on the valve. Each marking on the scale indicates 10%.

### Mounting the actuator

- 1 To use the PICV as a control valve, an actuator should be mounted.  
Remove the red pre-setting tool.
- 2 Screw the connection ring onto the valve.
- 3 Lock clip the actuator.





# BALLOREX 750DP DIFFERENTIAL PRESSURE CONTROL VALVE (DPCV)

## SELECTION

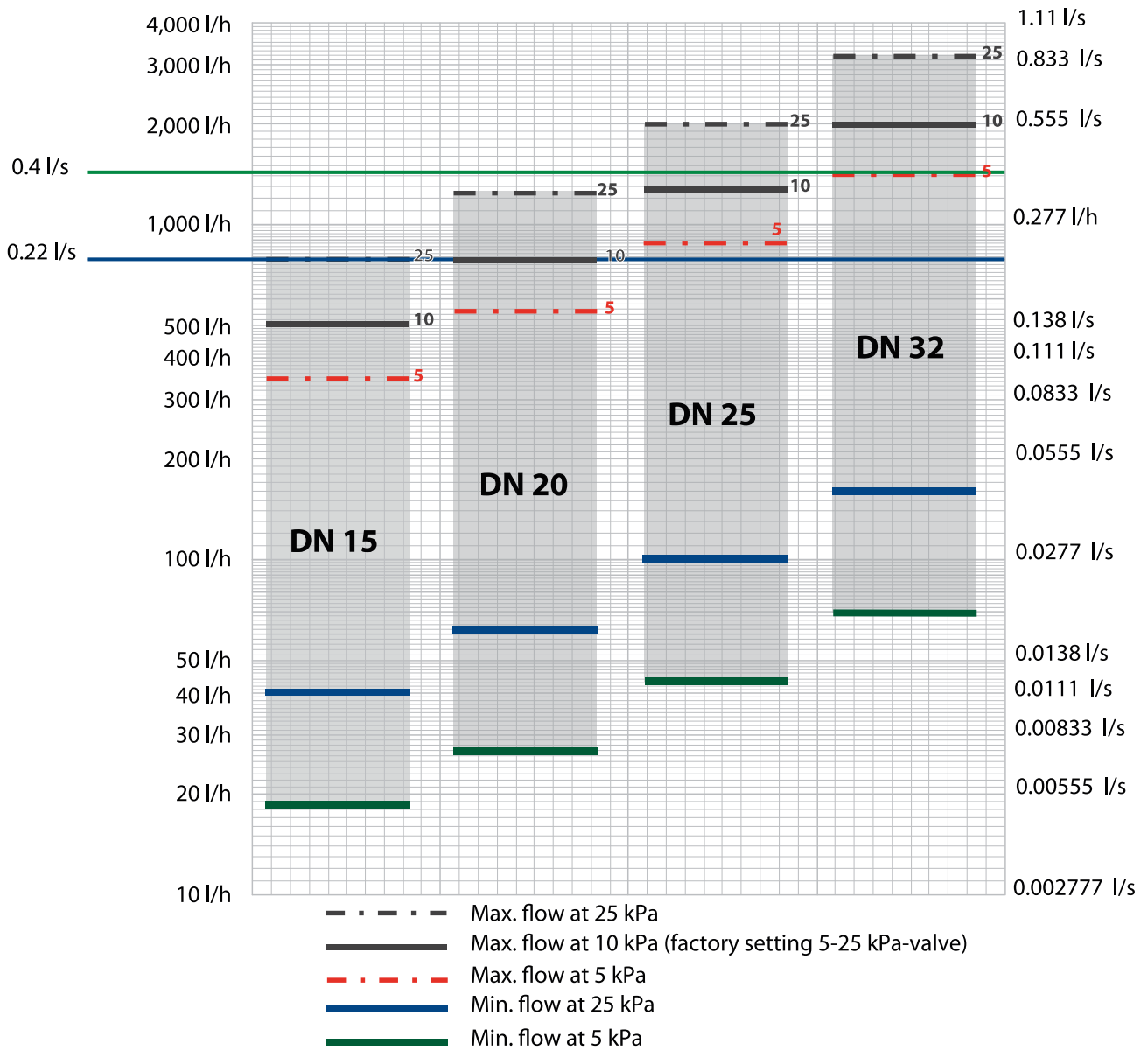


Figure 1: Selecting the correct valve according to the flow for 5-25 kPa.



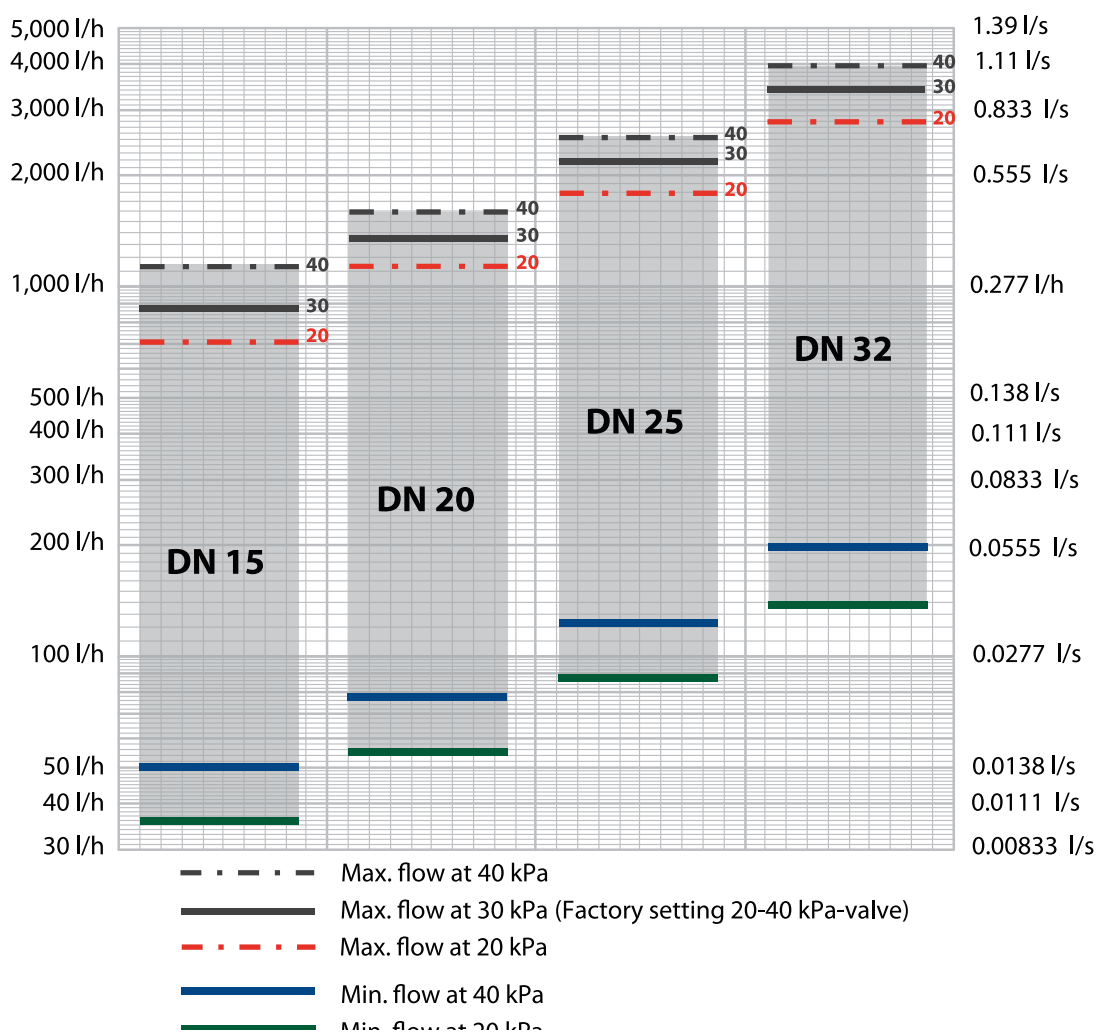


Figure 2: Selecting the correct valve according to the flow for 20-40 kPa.

**Example 1:** A maximum flow rate of 800 I/hr is required. A valve is selected that will support this approximately with its default factory setting.

Looking up 800 I/hr in the diagram indicates that the Ballorex DP DN 20 with a  $\Delta P$ -range of 5-25 kPa will provide a maximum flow rate of roughly 800 I/h at the factory setting of 10 kPa.

**Example 2:** A maximum flow rate of 1400 I/h is required. A valve is selected that can provide this flow rate.

Looking up 1400 I/h in the diagram indicates that the Ballorex DP DN 25 (5-25 kPa) with a  $\Delta P$ -setting of roughly interpolated 12 kPa will have a maximum flow rate of 1400 I/h.

## INSTALLATION

### 1 Mounting

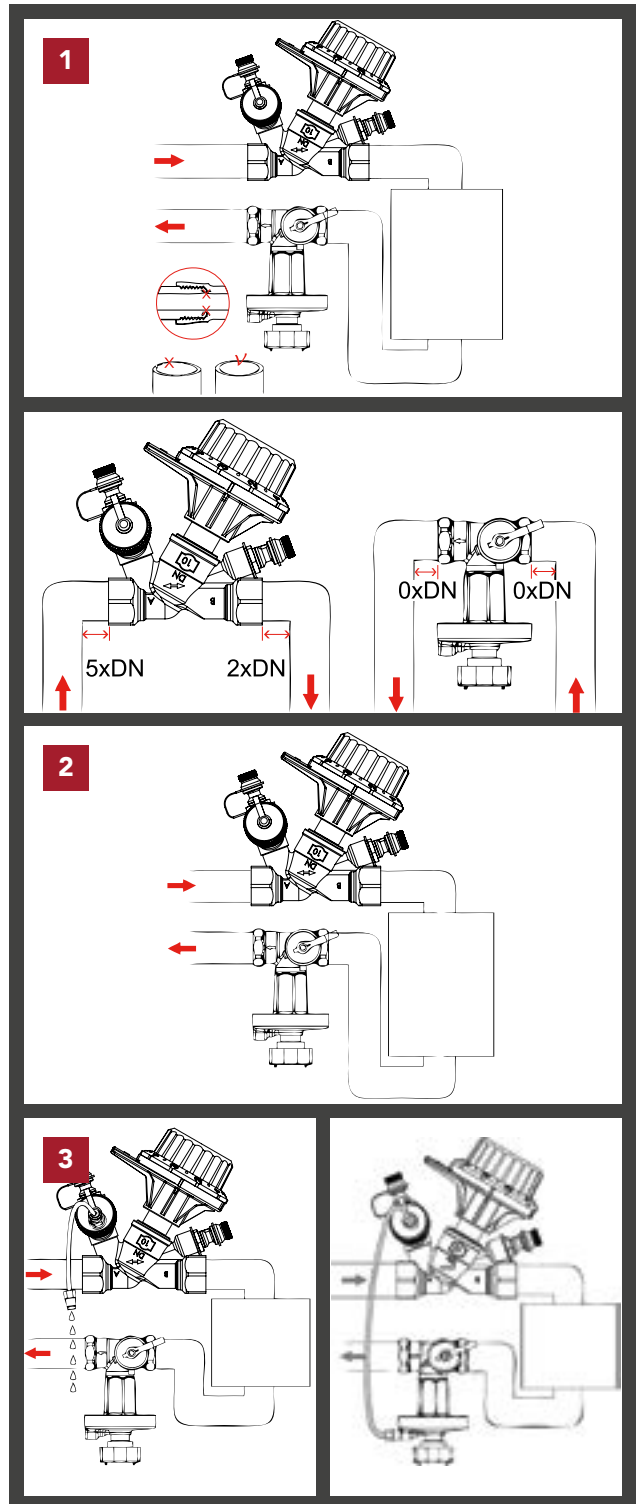
- Respect the flow direction indicated by the arrow on the body (DPCV only).
- No straight pipe length is required before or after the DPCV valve.
- Please observe the minimum mounting distance for the partner valve.

### 2 Cleaning

- Before connecting the capillary, clean and drain the installation.
- Set the flow before connecting the capillary by actuating the 750PV.

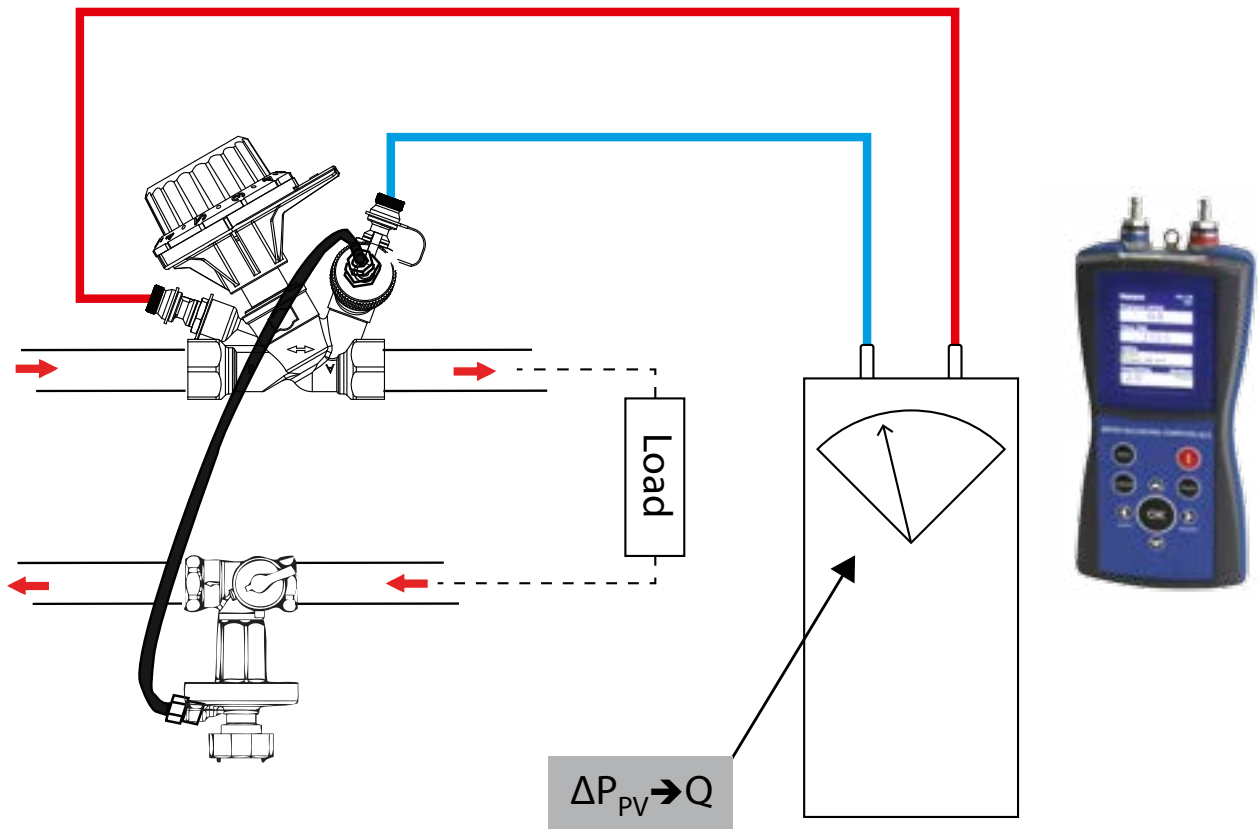
### 3 Connecting

- Connect the capillary to the partner valve and let some drops leak to prevent air bubbles.
- Then connect the capillary to the DPCV.

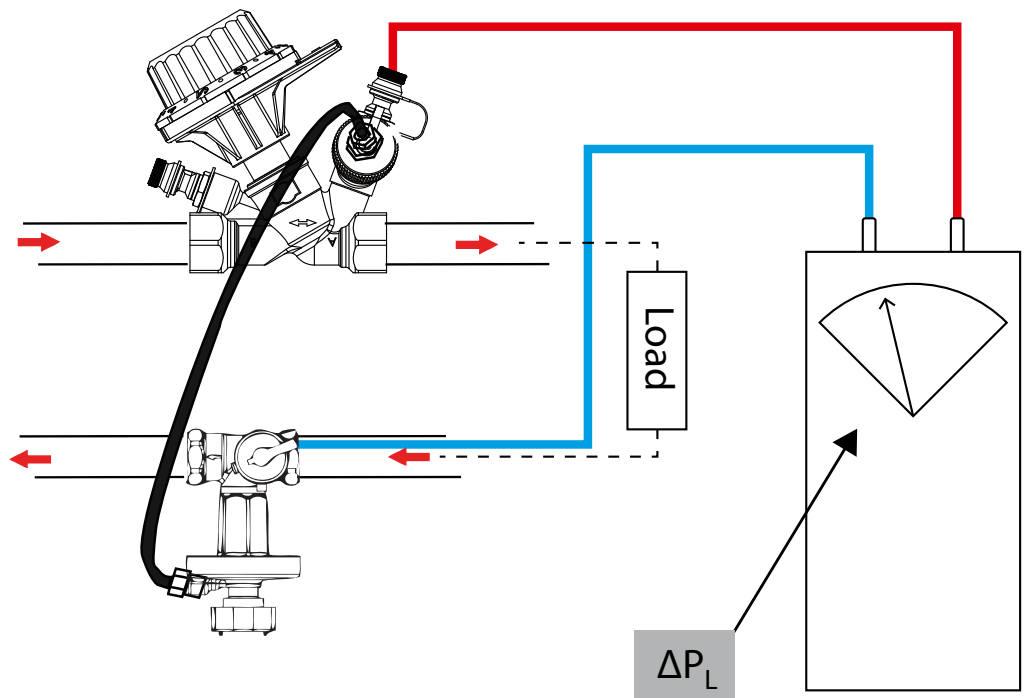


## SETTING AND COMMISSIONING

### Flow measuring



### $DP_L$ measuring (regulated differential pressure across the load)



**Setting by standard Allen key (3 or 4mm)**

- Factory preset values:

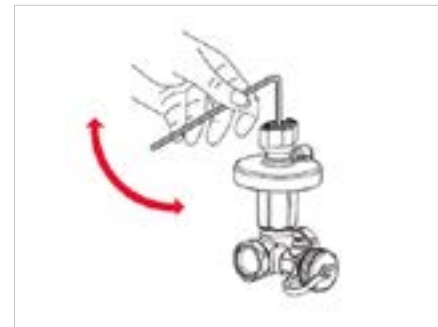
- 10 kPa (LP)
- 30 kPa (HP)

- Setting tables:

- 5 to 25 kPa (LP)
- 20 to 40 kPa (HP)

5-25 kPa		20-40 kPa	
Turns	kPa	Turns	kPa
0	5	0	20.0
1	6	1	21.0
2	7	2	22.2
3	8	3	23.5
4	9	4	24.8
5	10	5	26.1
6	11	6	27.4
7	12	7	28.7
8	13	8	30.0
9	14	9	31.3
10	15	10	32.6
11	16	11	33.9
12	17	12	35.2
13	18	13	36.5
14	19	14	37.8
15	20	15	39.2
16	21	16	40.0
17	22	-	-
18	23	-	-
19	24	-	-
20	25	-	-

Factory settings	
5-25 kPa range	10 kPa
20-40 kPa range	30 kPa



Allen key size	3mm
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# NOTES

A large grid of graph paper for taking notes, consisting of 30 columns and 40 rows of small squares.

# BUILDING VALVES

## BALL VALVES

### BALL VALVES FULL BORE WITH STEEL LEVER

640



Size	ITEM No	Type	PN	Qty
1/4"	V111001001	FF	PN30	1
3/8"	V111002001	FF	PN30	1
1/2"	V111003001	FF	PN30	1
3/4"	V111004001	FF	PN30	1
1"	V111005001	FF	PN30	1
1 1/4"	V111006001	FF	PN30	1
1 1/2"	V111007001	FF	PN30	1
2"	V111008001	FF	PN30	1
2 1/2"	V111009001	FF	PN16	1
3"	V111010001	FF	PN16	1
4"	V111011001	FF	PN16	1

### BALL VALVES FULL BORE WITH T BAR

6406



Size	ITEM No	Type	PN	Qty
1/4"	V111012001	FF	PN30	1
3/8"	V111013001	FF	PN30	1
1/2"	V111014001	FF	PN30	1
3/4"	V111015001	FF	PN30	1
1"	V111016001	FF	PN30	1

### BALL VALVES FULL BORE WITH STEEL LEVER AND DRAIN

647



Size	ITEM No	Type	PN	Qty
1/2"	V111017001	FF	PN30	1
3/4"	V111018001	FF	PN30	1
1"	V111019001	FF	PN30	1
1 1/4"	V111020001	FF	PN30	1
1 1/2"	V111021001	FF	PN30	1
2"	V111022001	FF	PN30	1

### BALL VALVES FULL BORE WITH T BAR AND DRAIN

6476



Size	ITEM No	Type	PN	Qty
1/2"	V111023001	FF	PN30	1
3/4"	V111024001	FF	PN30	1
1"	V111025001	FF	PN30	1

## BALL VALVES FULL BORE WITH STEEL LEVER

660



Size	ITEM No	Type	PN	Qty
3/8"	V111026001	MM	PN30	1
1/2"	V111027001	MM	PN30	1
3/4"	V111028001	MM	PN30	1
1"	V111029001	MM	PN30	1
1 1/4"	V111030001	MM	PN30	1
1 1/2"	V111031001	MM	PN30	1
2"	V111032001	MM	PN30	1

## BALL VALVES FULL BORE WITH T BAR

6606



Size	ITEM No	Type	PN	Qty
3/8"	V111033001	MM	PN30	1
1/2"	V111034001	MM	PN30	1
3/4"	V111035001	MM	PN30	1
1"	V111036001	MM	PN30	1

## CAP FOR DRAIN OF BALL VALVES 647 AND 6476

661



Size	ITEM No	Qty
1/4"	V112017001	1

## CAP FOR DRAIN OF BALL VALVES 647 AND 6476

662



Size	ITEM No	Qty
1/4"	V112016001	1

## BALL VALVES FULL BORE WITH STEEL LEVER

680



Size	ITEM No	Type	PN	Qty
3/8"	V111037001	MF	PN30	1
1/2"	V111038001	MF	PN30	1
3/4"	V111039001	MF	PN30	1
1"	V111040001	MF	PN30	1
1 1/4"	V111041001	MF	PN30	1
1 1/2"	V111042001	MF	PN30	1
2"	V111043001	MF	PN30	1

## BALL VALVES FULL BORE WITH T BAR

6806



Size	ITEM No	Type	PN	Qty
3/8"	V111044001	MF	PN30	1
1/2"	V111045001	MF	PN30	1
3/4"	V111046001	MF	PN30	1
1"	V111047001	MF	PN30	1

## BALL VALVES FULL BORE WITH T BAR AND CONNECTION

6826



Size	ITEM No	Type	PN	Qty
1/2"	V111048001	FM	PN30	1
3/4"	V111049001	FM	PN30	1
1"	V111050001	FM	PN30	1
1*1/4	V111051001	FM	PN30	1

## LEVER FOR BALL VALVES

6991



Size	ITEM No	Qty
1/4" and 3/8"	V112001001	1
1/2" and 3/4"	V112002001	1
1"	V112003001	1
1*1/4 and 1*1/2	V112004001	1
2"	V112005001	1
2*1/2 and 3/4"	V112006001	1

## STEAM EXTENTION FOR BALL VALVES

6994



Size	ITEM No	Qty
1/4" and 3/8"	V112011001	1
1/2" and 3/4"	V112012001	1
1" and 1*1/4	V112013001	1
1*1/2 and 2"	V112014001	1

## T BAR FOR BALL VALVES

6996



Size	ITEM No	Qty
1/4" and 3/8"	V112007001	1
1/2" and 3/4"	V112008001	1
1" and 1*1/4	V112009001	1

## BUTTERFLY VALVES

### EPDM BUTTERFLY VALVE WAFER TYPE WITH LEVER

724



Size	ITEM No	PN	Qty
DN32	724010	PN16	1
DN50	724016	PN16	1
DN65	724020	PN16	1
DN80	724024	PN16	1
DN100	724032	PN16	1
DN125	724040	PN16	1
DN150	724048	PN16	1
DN200	724064	PN10	1
DN250	724080	PN10	1
DN300	724096	PN10	1

### LEVER FOR EPDM BUTTERFLY VALVE 724

7241



ITEM No	B/Fly valve size	Qty
724110	DN32-DN150	1



## KIT OF TIE-RODS

7490



Size	ITEM No	B/Fly valve size	Kit	Qty
16X130	749015	DN50-DN65	Kit of 4 tie-rods	4
16X140	749020	DN80-DN100	Kit of 8 tie-rods	8

## NITRILE BUTTERFLY VALVES WAFER TYPE WITH LEVER

724H



Size	ITEM No	PN	Qty
DN32	724510	PN16	1
DN50	724516	PN16	1
DN65	724520	PN16	1
DN80	724524	PN16	1
DN100	724532	PN16	1
DN125	724540	PN16	1
DN150	724548	PN16	1
DN200	724564	PN16	1

## DRAINING BALL TAP

### CONICAL PLUG COCKS VALVES

117



Size	ITEM No	Type	Qty
3/8"	117003	MF	1
1/2"	117004	MF	1
3/4"	117006	MF	1

## CONICAL PLUG COCKS VALVES WITH DRAIN END

118



Size	ITEM No	Type	Qty
3/8" -1/2"	118003	M	1
1/2" -3/4"	118004	M	1
3/4" -1"	118006	M	1

## KEY FOR CONICAL PLUG COCKS VALVE 116, 117 AND 118

40



Size	ITEM No	Qty
10	550410	1
12	550412	1
14	550414	1

## CONICAL PLUG COCKS VALVES

116



Size	ITEM No	Type	Qty
3/8"	116003	FF	1
1/2"	116004	FF	1
3/4"	116006	FF	1

## DRAINING BALL TAP WITH THREADS

121



Size	ITEM No	Type	Qty
1/2	121004	M	1

**DRAINING BALL TAP WITH UNION****122**

Size	ITEM No	Type	Qty
1/2"	122004	Union	1

**GATE VALVES****BRASS GATE VALVES WITH THREADS****154**

PN16



Size	ITEM No	Type	Qty
3/8"	54003	FF	1
1/2"	54004	FF	1
3/4"	54006	FF	1
1"	54008	FF	1
1"1/4	54010	FF	1
1"1/2	54012	FF	1
2"	54016	FF	1
2"1/2	54020	FF	1
3"	54024	FF	1

**STRAINERS****BRONZE Y STRAINER****1125**

PN32 0,9 mm aperture



Size	ITEM No	Type	Qty
1/2"	735004	FF	1
3/4"	735006	FF	1
1"	735008	FF	1
1"1/4	735010	FF	1
1"1/2	735012	FF	1
2"	735016	FF	1

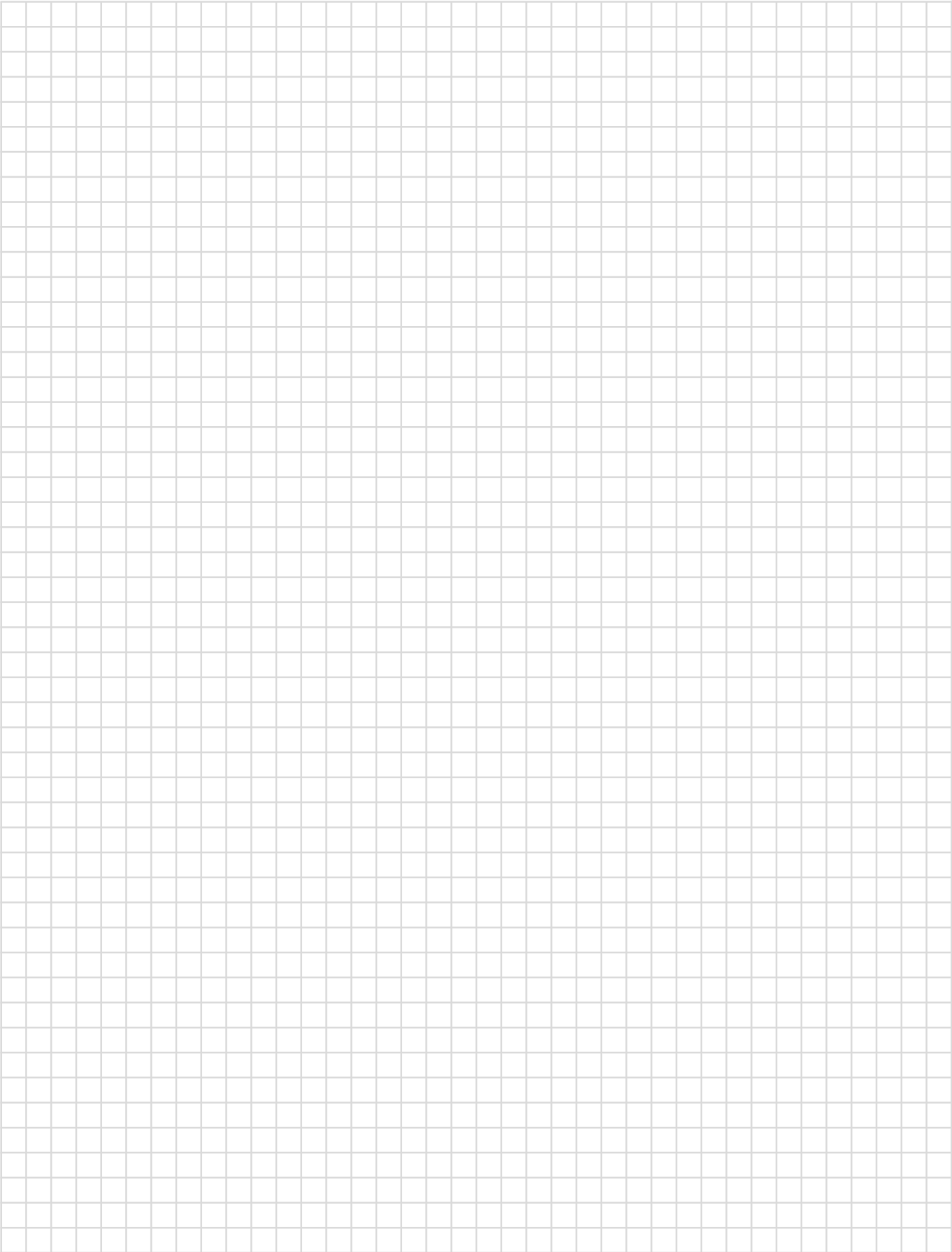
**STEEL FILTER WITH NYLON FITTING****1274**

For 1270 non return valve



Size	ITEM No	Type	Qty
3/8"	127403	FF	1
1/2"	127404	FF	1
3/4"	127406	FF	1
1"	127408	FF	1
1"1/4	127410	FF	1
1"1/2	127412	FF	1
2"	127416	FF	1

# NOTES





# Climate Control

Leading solutions for energy efficiency

Climate Control is at the core of multiple interests. Engineers look for devices which will reduce overall energy consumption. Installers need equipment that is simple to install and trouble-free. Meanwhile, individual customers demand solutions that are easy to use, nicely designed and long-lasting. As a leading European manufacturer, Comap has it all!

## APPLICATIONS

- From Manual to programmable control.
- For all heat distributions: 1-pipe, 2-pipe and centralised.
- For all types of pipes.
- Solutions for standard valves or integrated radiator valves.
- Fits perfectly in new or renovation projects.

## MULTIPLE BENEFITS

- Accurate regulation of the room's temperature.
- Balancing of the hydronic system.
- Even distribution of heat for more efficient and economical energy usage.
- Coordination with every interior specification.

Thermostatic radiator heads	310
Thermostatic valves	324
Manual radiator valves	348
Outlet valves	366
Two-way valves	387

# THERMOSTATIC RADIATOR HEADS

Comap Thermostatic heads have been counted amongst the best sellers in Europe for decades, thanks to their high manufacturing quality and reliability.

The new Senso meets a wide range of customer requirements for efficiency and style in both new projects and individual renovations. Now there's no need to compromise between aesthetics and performance!



## APPLICATIONS

The thermostatic head is much more than a simple decorative technical element. It is a temperature-sensitive sensor which reacts to the room temperature.

By doing so, it actuates the valve to adjust the hot water supply in the radiator and keep the room at the desired temperature. The room temperature is automatically regulated to a level chosen by the user for guaranteed comfort.

By turning off when additional energy is supplied by external elements (such as sunlight, body heat, electrical devices, etc.) it is also a key element in creating energy savings. It is generally agreed that thermostatic radiator valves can save between 20% and 30% of heat.

## TECHNICAL CHARACTERISTICS

All heads are EN215 certified for the following performance:

Model	Sensor	Hyster-esis	Water influence	Response time	Differential pressure influence
Senso	Liquid	0.3	0.6	18	0.2
Senso with remote sensor	Liquid	0.2	0.5	13	0.1
Sensity*	Liquid	0.3	0.6	18	0.2
S2	Liquid	0.7	0.6	18	0.2
W5	Wax	0.6	0.8	20	0.2

*\*Preliminary data*

## BENEFITS

The lean, elegant and classic design of the new Senso will satisfy even the most demanding customers.

Customisation for designed interiors: The Senso head provides a decorative element as well as high performance.

The M28 range is compatible with all previous generations of Comap valves, thanks to a wide selection of sizes, shapes and connections.

Energy savings: Comap heads rank among the highest performers in energy ratings.

A minimal antifreeze position ensures that the temperature will not fall below 5°C.

## FEATURES

High quality products, manufactured in Europe (France).

Model	Connection	Remote sensing	Setting positions	Easy limitation	Colour range
Senso	M28, M30, Clip	2.5 or 8m	* to 5	Yes	Customisable
Sensity	M28, M30	No	0. * .5 or * .5	Yes (pins)	White RAL9016
S2	M28, M30	No	* .5	Yes (pins)	White RAL9016
W5	M28, M30	No	* .5	Yes (pins)	
Sensitive	M30	No	Yes		White, Chrome, Steel

Certifications:



EN 215

## SENSO

### THERMOSTATIC HEAD WITH LIQUID SENSOR, M28 VALVE CONNECTION **NEW**

#### SENSO

Colour customizable with MYSENSO



Model	ITEM No	Valve connection	Spring force	Temperature range	Qty
M28	R100000	M28x1.5	3 kg	7-28°C	10

 Check the colors MYSENSO

### COLOR CUSTOMIZATION KIT FOR SENSO **NEW**

#### MYSENSO

Replaceable by hand



Model	ITEM No	Qty
Stainless	R100080	1
Chrome	R100081	1
Black	R100082	1
Zebra	R100083	1
Tangerine	R100084	1
Purple	R100085	1
Citrus	R100086	1
Red Ming	R100087	1
Pearl	R100088	1
Mauve	R100089	1
Skyblue	R100090	1
Chocolate	R100091	1
Anthracite	R100091	1

### THERMOSTATIC HEAD WITH LIQUID REMOTE SENSOR, M28 VALVE CONNECTION **NEW**

#### SENSO S

Improves temperature sensing reliability (confined spaces, curtains...)



Model	ITEM No	Valve connection	Spring force	Temperature range	Qty
2 m	R100002	M28x1.5	3 kg	7-28°C	1
5 m	R100005	M28x1.5	3 kg	7-28°C	1
8 m	R100008	M28x1.5	3 kg	7-28°C	1


### THERMOSTATIC HEAD WITH LIQUID SENSOR, M30 VALVE CONNECTION **NEW**

#### SENSO RI

Colour customizable with MYSENSO



Model	ITEM No	Valve connection	Spring force	Temperature range	Qty
M30	R100100	M30x1.5	4 kg	7-28°C	10

 Check the colors MYSENSO

### THERMOSTATIC HEAD WITH LIQUID REMOTE SENSOR, M30 VALVE CONNECTION **NEW**

#### SENSO RIS

Improves temperature sensing reliability (confined spaces, curtains...)



Model	ITEM No	Valve connection	Spring force	Temperature range	Qty
2 m	R100102	M30x1.5	4 kg	7-28°C	1
5 m	R100105	M30x1.5	4 kg	7-28°C	1
8 m	R100108	M30x1.5	4 kg	7-28°C	1

## TIP

### SMART PACKAGING



Senso heads are protected during transport by a clever and completely recyclable packaging, which should stay in place until the project is finished. As well as protecting the head from shocks and dirt, it also provides all the necessary information for proper use.

The thermostatic head can be set without removing the packaging.

## THERMOSTATIC HEAD WITH LIQUID REMOTE SENSOR, CLIP VALVE CONNECTION

NEW

### SENSO IFD

Improves temperature sensing reliability (confined spaces, curtains...)



Model	ITEM No	Valve connection	Spring force	Temperature range	Qty
NEW SENSO IFD	R100530	Clip	1,2 kg	7-28°C	10

## THERMOSTATIC HEAD WITH LIQUID SENSOR, M28 VALVE CONNECTION

### SENSO



Model	ITEM No	Valve connection	Spring force	Temperature range	Qty
M28	100000	M28x1,5	3 kg	7-28°C	10

## THERMOSTATIC HEAD WITH LIQUID REMOTE SENSOR, M28 VALVE CONNECTION

### SENSO S

Improves temperature sensing reliability (confined spaces, curtains...)



Model	ITEM No	Valve connection	Spring force	Temperature range	Qty
2 m	100002	M28x1,5	3 kg	7-28°C	1
5 m	100005	M28x1,5	3 kg	7-28°C	1
8 m	100008	M28x1,5	3 kg	7-28°C	1

## THERMOSTATIC HEAD WITH LIQUID SENSOR, M30 VALVE CONNECTION

### SENSO RI



Model	ITEM No	Valve connection	Spring force	Temperature range	Qty
M30	100100	M30x1,5	4 kg	7-28°C	10

## THERMOSTATIC HEAD WITH LIQUID REMOTE SENSOR, M30 VALVE CONNECTION

### SENSO RIS

Improves temperature sensing reliability (confined spaces, curtains...)



Model	ITEM No	Valve connection	Spring force	Temperature range	Qty
2 m	100102	M30x1,5	4 kg	7-28°C	1
5 m	100105	M30x1,5	4 kg	7-28°C	1
8 m	100108	M30x1,5	4 kg	7-28°C	1

## THERMOSTATIC HEAD WITH LIQUID REMOTE SENSOR, CLIP VALVE CONNECTION

### SENSO IFD

Improves temperature sensing reliability (confined spaces, curtains...)



Model	ITEM No	Valve connection	Spring force	Temperature range	Qty
SENSO IFD	100530	Clip	1,2 kg	7-28°C	10

### SENSITY

## THERMOSTATIC HEAD WITH LIQUID SENSOR, M28 VALVE CONNECTION

NEW

### SENSITY



Model	ITEM No	Valve connection	Spring force	Temperature range	Qty
M28	R110000	M28x1,5	3 kg	7-28°C	10



**THERMOSTATIC HEAD WITH LIQUID SENSOR, M30 VALVE CONNECTION**

**NEW**

**SENSITY RI**



Model	ITEM No	Valve connection	Spring force	Temperature range	Qty
M30	R110100	M30x1,5	4 kg	7-28°C	10
M30 with 0 position	R110110	M30x1,5	4 kg	7-28°C	10

**SENSO**

**THEFT-PROOF RING**

**5825**

for SENSO heads



Model	ITEM No	Compatible	Qty
M28	582500	Senso 100000 S2 W5 Sensity	10
M28	R582500	Senso R100000	10
M30	582530	Senso 100100 S2 W5 Sensity	10
M30	R582530	Senso R100100	10

**THEFT-PROOF RING**

**5825IFD**

for Senso IFD heads clip



ITEM No	Qty
582550	10

**TRANSPARENT REINFORCED TAMPER-PROOF RING**

**5827S**

for SENSO heads



ITEM No	Compatible	Qty
582730	Senso 100000/100100	10
R582730	Senso R100000/R100100	10
R582730	Sensity	10

**S2**

**THERMOSTATIC HEAD WITH LIQUID SENSOR, M28 VALVE CONNECTION**

**S2**



Model	ITEM No	Spring force	Temperature range	Qty
M28x1,5	L111004001	3 kg	7-28°C	10
M30x1,5	L112006001	4 kg	7-28°C	10

**THERMOSTATIC HEAD WITH LIQUID SENSOR, M28 VALVE CONNECTION**

**S2CP**



Model	ITEM No	Spring force	Temperature range	Qty
M28x1,5	L111003001	3 kg	7-28°C	10
M30x1,5	L112005001	4 kg	7-28°C	10

## THERMOSTATIC HEAD WITH LIQUID SENSOR, M30 VALVE CONNECTION

**S2RI**



Model	ITEM No	Spring force	Temperature range	Qty
M30x1,5	110030	4 kg	7-28°C	10

## SETTING BLOCKING PIN

**PIN**

For S2 & W5 thermostatic heads



ITEM No	Qty
W005422	50

**6803**

## THERMOSTATIC HEAD WITH LIQUID SENSOR, M28 VALVE CONNECTION

**6803P**



ITEM No	Valve connection	Spring force	Qty
803800	M28x1,5	3 kg	1

**803900**

## THERMOSTATIC HEAD WITH WAX SENSOR, M28 VALVE CONNECTION

**W5**



Model	ITEM No	Valve connection	Spring force	Temperature range	Qty
M28	803701	M28x1,5	2 kg	7-28°C	10

## THERMOSTATIC HEAD WITH WAX SENSOR, M30 VALVE CONNECTION

**W5RI**



Model	ITEM No	Valve connection	Spring force	Temperature range	Qty
M30	803711	M30x1,5	4 kg	7-28°C	10

**6803**

## THERMOSTATIC HEAD WITH LIQUID REMOTE SENSOR AND REMOTE COMMAND, M28 VALVE CONNECTION

**6803C**

Improves temperature sensing reliability and controllability (confined spaces, curtains...)



Model	ITEM No	Valve connection	Spring force	Temperature range	Qty
2 m	803902	M28x1,5	3 kg	5-29°C	1
5 m	803905	M28x1,5	2kg	5-29°C	1
8 m	803908	M28x1,5	2kg	5-29°C	1

## THERMOSTATIC HEAD WITH LIQUID REMOTE SENSOR AND REMOTE COMMAND, M30 VALVE CONNECTION

**6803 FB1**

Improves temperature sensing reliability and controllability (confined spaces, curtains...)



Model	ITEM No	Valves connection	Spring force	Temperature range	Qty
2m	100562	M30x1,5	4kg	7-28°C	1
5m	100565	M30x1,5	4kg	7-28°C	1
8m	100568	M30x1,5	4 kg	7-28°C	1

## THERMOSTATIC HEAD WITH LIQUID REMOTE SENSOR, M28 VALVE CONNECTION

### 6803STD

The sensor is held within a copper holder DN 1/2, Length 170mm. This head is notably recommended for underfloor heating applications



Model	ITEM No	Valve connection	Spring force	Temperature range	Qty
2 m	803880	M28x1,5	3 kg	20-50°C	1

## THERMOSTATIC HEAD WITH LIQUID REMOTE SENSOR, M30 VALVE CONNECTION

### 6803STD FF1

The sensor is held within a copper holder DN 1/2, Length 120mm. This head is notably recommended - for underfloor heating applications



Model	ITEM No	Valve connection	Spring force	Temperature range	Qty
0,5 m	803890	M30x1,5	4 kg	25-70°C	1
2 m	803892	M30x1,5	4 kg	25-70°C	1

## THERMOSTATIC HEAD WITH LIQUID REMOTE SENSOR, M28 VALVE CONNECTION

### 6803ST

Provided with a contact sensor holder, length 157 mm



Model	ITEM No	Valve connection	Spring force	Temperature range	Qty
2 m	803801	M28x1,5	2kg	25-50°C	1

## SENSOR HOLDER

### 9834

for 6803STD



Model	Size	ITEM No	Qty
120 mm	1/2"	983410	1
170 mm	1/2"	983400	1

## SENSO

## THERMOSTATIC SENSO SET, HEAD + ANGLE VALVE (SENSO + R808)

### 808SENSO

Shape : Angle / Fixed KV



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m³/h at BP 2k)	Kvs (m³/h at BP 2k)	Qty
3/8	RK8086032	808503	Rp 3/8	R 3/8	0,55	1,2	1
1/2	RK8086042	808504	Rp 1/2	R 1/2	0,55	1,2	1

## THERMOSTATIC SENSO SET, HEAD + VALVE + ANGLE DISTRIBUTOR

### 532LTL

Senso + R809CB + 916E + 835 connectors DN15



ITEM No	old code	Pipe Connection	Radiator connection	Center to center (mm)	Kv (m³/h at BP 2k)	Kvs (m³/h at BP 2k)	Qty
RK8096044	L360001001	Male M22	O-ring R 1/2	35	0,55	1	1

## THERMOSTATIC SENSO SET, HEAD + VALVE + STRAIGHT DISTRIBUTOR

### 532TLE

Senso + R859ECB + 915E + 835 connectors DN15



ITEM No	old code	Pipe Connection	Radiator connection	Center to center (mm)	Kv range (m³/h)	Qty
RK859704	L360002001	Male M22	O-ring R 1/2	35	0,028-0,49	1

## THERMOSTATIC SENSO SET, HEAD + REVERSED ANGLE VALVE + STRAIGHT DISTRIBUTOR

### 9168E

Senso + R857EB + 915E + 835 connectors DN15



ITEM No	old code	Pipe Con- nection	Radiator connection	Center to center (mm)	Kv range (m <sup>3</sup> /h)	Qty
RK8577041	L360004001	Male M22	O-ring R 1/2	35	0,028-0,49	1

## THERMOSTATIC SENSO SET, HEAD + VALVE + STRAIGHT DISTRIBUTOR

### 432TL

Senso + R809GCB + 538E DN15



ITEM No	old code	Pipe Con- nection	Radiator connection	Center to center (mm)	Kv (m <sup>3</sup> /h at BP 2k)	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
RK8096045	L350001001	Male M22	O-ring R 1/2	35	0,95	2,5	1

## THERMOSTATIC SENSO SET, HEAD + VALVE + ANGLE DISTRIBUTOR

### 4329TL

Senso + R809GCB + 539E DN15



ITEM No	old code	Pipe Con- nection	Radiator connection	Center to center (mm)	Kv (m <sup>3</sup> /h at BP 2k)	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
RK8096046	L350002001	Male M22	O-ring R 1/2	35	0,95	2,5	1

## THERMOSTATIC SENSO SET FOR PANEL RADIATOR, MULTILAYER PIPE FLOOR CONNECTION

### 9169FM

Set for 3/4" Male radiators (Senso RI + H-module + connectors 839 M22 - 16x2 + 2 cones 9671 + 2 nipples 9670)



ITEM No	old code	Pipe Con- nection	Radiator con- nection	Shape	Qty
L371001001	RK100100	16x2 Multilayer	Male 3/4" or F1/2"	Straight	1

## THERMOSTATIC SENSO SET FOR PANEL RADIATOR, MULTILAYER PIPE WALL CONNECTION

### 9170FM

Set for 3/4" Male radiators (Senso RI + H-module + connectors 839 M22 - 16x2 + 2 cones 9671 + 2 nipples 9670)\*



ITEM No	old code	Pipe Con- nection	Radiator con- nection	Shape	Qty
RK1001001	L371002001	16x2 Multilayer	Male 3/4" or F1/2"	Straight	1

## W5

### W5 STRAIGHT DISTRIBUTOR SET

### 532TL

W5 + R859ECB + 915E + 835



Model	ITEM No	old code	Pipe Con- nection	Radiator connection	Center to center (mm)	Kv range (m <sup>3</sup> /h)	Pipe orienta- tion	Qty
532TL	RK8597041	L360003001	Male M22	O-ring R 1/2	35	0,028-0,49	Floor	1

### W5 STRAIGHT DISTRIBUTOR SET

### 9168EW

W5 + R857E + 915E + 835



Model	ITEM No	Pipe Con- nection	Radiator connection	Center to center (mm)	Kv range (m <sup>3</sup> /h)	Pipe orienta- tion	Qty
9168EW	L360005001	Male M22	O-ring R 1/2	35	0,028-0,49	Floor	1

### REINFORCED TAMPER-PROOF RING

### 5827

for W5



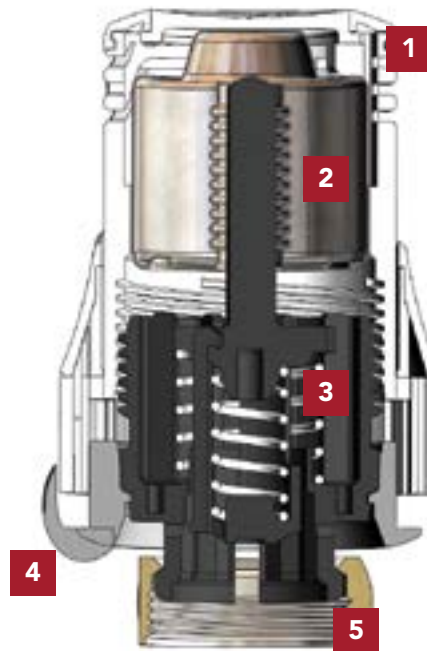
ITEM No	Qty
582740	10

# NOTES

A large grid of graph paper for taking notes, consisting of 20 columns and 30 rows of small squares.



# SENSO THERMOSTATIC HEAD



1 Handwheel

2 Liquid sensor

3 Springs

4 Index

5 Fixing nut

## SELECTION

### EN 215 characteristics

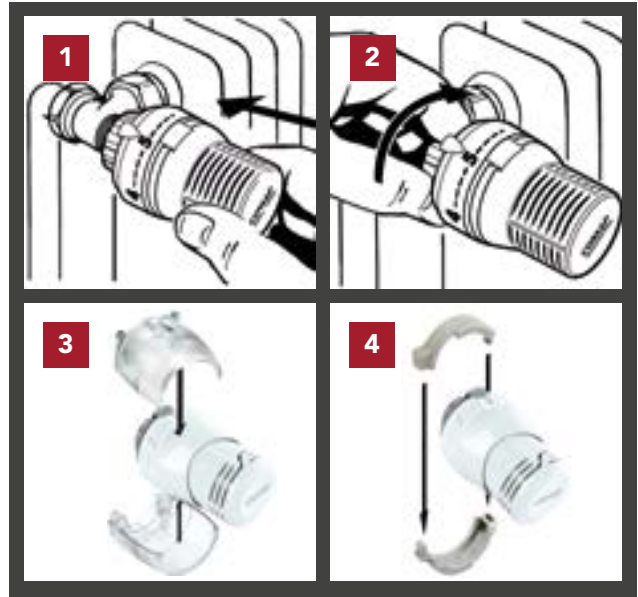
Product	Hysteresis (k)	Conduction (k)	Response time (min)	Influence of the differential pressure (k)
SENSO/ SENSOR RI	0.3	0.55	18'	0.2
SENSO S/ SENSOR RIS	0.2	0.25	13'	0.1

### Range overview

Reference	Sensor	Capillary	Setting	Connection	Compatible with
SENSO	Liquid	-	7-28°C	M28 x 1.5	All M28 valves from Comap
SENSO -S	Liquid or remote sensor	2m-5m-8m	7-28°C	M28 x 1.5	All M28 valves from Comap
SENSO -RI	Liquid	-	7-28°C	M30 x 1.5	All M30 valves from Comap Heimeier, Oventrop
SENSO -RIS	Liquid or remote sensor	2m-5m-8m	7-28°C	M30 x 1.5	All M30 valves from Comap Heimeier, Oventrop
IFD	Liquid	2m-5m-8m	7-28°C	Clip	TRV with clip (Danfoss type)

## INSTALLATION

- 1 Place the index at position 5, in the vertical top position.
- 2 Screw the nut. Maximum torque is 2 Nm. No tool is required.
- 3 These rings prevent access to the mounting nut. Use D5825 for M30 x 1.5 heads, and 5825 for M28 x 1.5 heads.
- 4 These reinforced rings prevent access to the mounting nut and to the temperature limitation. Use D5827 for M30 x 1.5 heads, and 5827 for M28 x 1.5 heads.



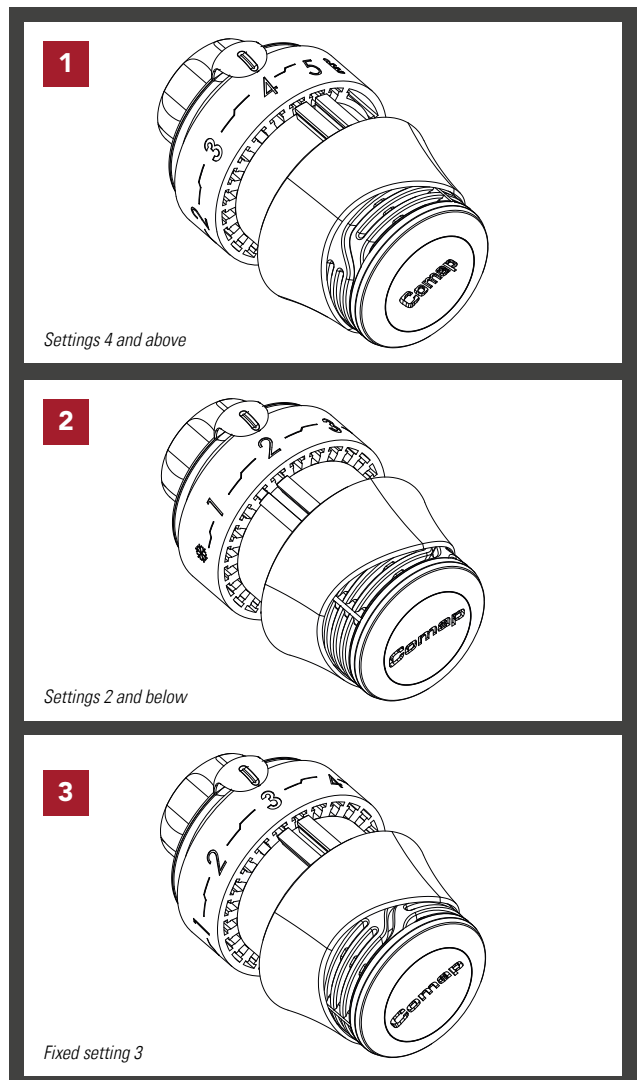
## SETTING

Position		*	1	2	3	4	5
SENSO	4°C	7°C	11°C	16°C	20°C	24°C	28°C

### Temperature limitation

SENSO heads have an easy-to-use and invisible limitation ring.

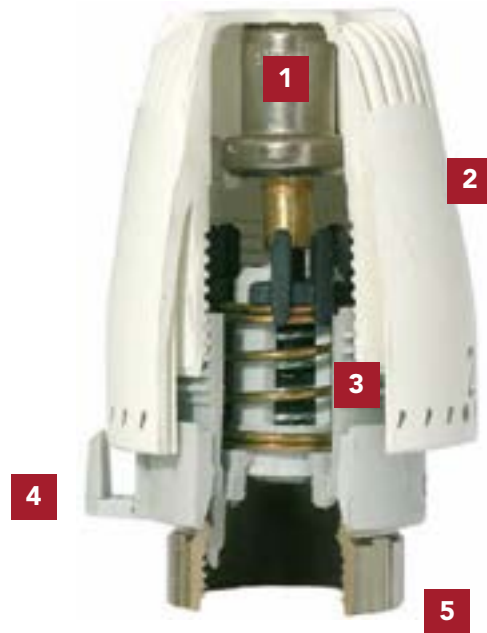
- 1 Minimum temperature setting:
  - Pull the front face limitation ring.
  - Place the index in the requested position.
  - Place the limitation guides immediately after the minimum setting (here 4).
  - Then push the limitation ring back into place.
- 2 Maximum temperature setting:
  - Pull the front face limitation ring.
  - Place the limitation guides immediately before the maximum setting (here 2).
  - Then push the limitation ring back into place.
- 3 Fixed temperature setting:
  - Pull the front face limitation ring.
  - Place the index in the requested position.
  - Place the limitation guides on both sides of the desired fixed setting (here 3).
  - Then push the limitation ring back into place.





# W5 THERMOSTATIC HEAD

## SELECTION



1 Wax sensor

2 Handwheel

3 Springs

4 Index

5 Fixing nut

### EN 215 characteristics

Product	Hysteresis (k)	Conduction (k)	Response time (min)	Influence of the differential pressure (k)
W5 M28	0.5	1.2	20'	0.2
W5 M30	0.6	0.8	20'	0.2

### Range overview

Reference	Sensor	Capillary	Setting	Connection
W5	Wax	-	5-29°C	M28 x 1.5 & M30 x1.5



## INSTALLATION



### General recommendations

- If possible, install the head horizontally.
- Do not use detergent to clean the head or body; simply wipe.

### To install the thermostatic head on the body:

- Remove the valve cap.
- Place the head in position 5 with the index in the vertical top position. Then place the head on the valve by pushing slightly.
- Tighten the nut on the valve body by hand. The maximum torque is 2Nm.
- Select your comfort temperature. Here position 3 is between 19°C and 22°C.

## SETTING

### Positions and temperatures

Position		*	1	2	3	4	5
W5	5°C	10°C	11-14°C	15-18°C	19-22°C	22-25°C	26-29°C

### Temperature limitation and blocking

#### Blocking

#### Limitation

### Temperature limitation

- Up from the minimum position to the maximum:
  - Pull the front face limitation ring.
  - Place the index in the requested position.
  - Then push the limitation ring back into place.
- From a minimum requested position:
  - Pull the front face limitation ring.
  - Place the index in the requested position.
  - Then push the limitation ring back into place.
- Blocking on one requested position:
  - Place the index in the requested position.
  - Then push the limitation ring back into place.



# S2 THERMOSTATIC HEAD

## SELECTION



### EN 215 characteristics

Product	Hysteresis (k)	Conduction (k)	Response time (min)	Influence of the differential pressure (k)
S2 M28	0.7	1	18'	0.6
S2 M30	0.7	0.6	18'	0.2
S2P M28	0.7	1	18'	0.2
S2P M30	0.7	0.6	18'	0.2

### Range overview

Reference	Sensor	Capillary	Setting	Connection
S2	Liquid	-	5-29°C	M28 x 1.5 and M30 x 1.5
S2P	Liquid	-	5-29°C	M28 x 1.5 / M30 x 1.5

## INSTALLATION

- Place the head in position 5 with the index in the vertical top position. Then place the head on the valve by pushing slightly.
- Tighten the nut on the valve body by hand. The maximum torque is 10Nm.

## SETTING

Position	*	1	2	3	4	5
S2	9°C	11-14°C	15-18°C	19-22°C	22-25°C	26-29°C

### Temperature limitation and blocking

#### Blocking

#### Limitation



# 6803 THERMOSTATIC HEADS

## SELECTION



- 1 Liquid sensor
- 2 Handwheel
- 3 Springs
- 4 Index
- 5 Fixing nut

### EN 215 characteristics

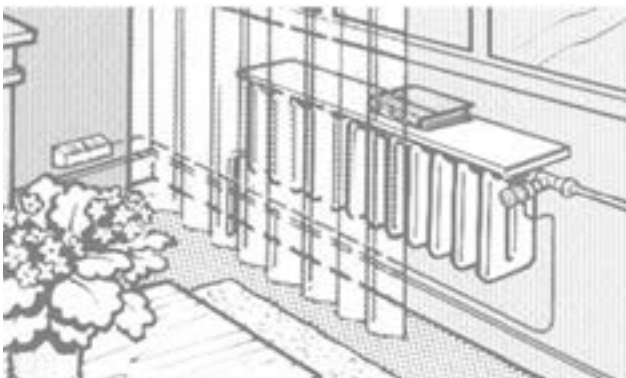
Product	Hysteresis (k)	Conduction (k)	Response time (min)	Influence of the differential pressure (k)
6803 C	0.2	0.5	23'	0.2
6803 FB1	0.2	0.5	23'	0.2
6803P	0.2	0.55	19'	0.2

### Range overview

Reference	Sensor	Capillary	Setting	Connection
6803C	Liquid	2m-5m-8m	5-29°C	M28 x 1.5
6803 FB1	Liquid	2m-5m-8m	6-30°C	M30x1.5
6803P	Liquid	-	5-29°C	M28 x 1.5

## INSTALLATION

- Place the head in position 5 with the index in the vertical top position. Then push to connect the head to the valve.
- Tighten the nut on the valve body by hand. The maximum torque is 10Nm.
- Use a remote sensor and remote control if the radiator is not accessible or if the position would affect the accuracy of the sensor (e.g. behind curtains).



# THERMOSTATIC VALVES

Thermostatic valves are a crucial part of the regulation principle which transforms heat generators into providers of comfort and energy savings. They must ensure smooth and regular control of the temperature, with the right level of authority.

For easy balancing of the installation, the TRVs with pre-settable Kv can be set manually at a very accurate value.



## APPLICATIONS

Model	Applications
TRV with integrated pre-setting	Controlling and balancing a heating system with traditional radiator valves. Kv setting from the thermostatic valve.
Fixed Kv	Controlling a heating system with traditional radiator valves. Kv setting from the lockshield (return) valve.
Thermostatic Panel Assemblies	Elegant and discrete thermostatic valve elements for panel radiators.
4-way Thermostatic Lance Valves	Flow and return in only one radiator connection point, together with an external valve. Ideal for towel radiators or decorative vertical radiators.
Central Point Thermostatic Valve	All-in-one radiator valve, including distribution over 2 radiator holes, and thermostatic valve.
Integrated Radiator Valves - Inserts and Sets	Inserts for integrated radiator valves.

## TECHNICAL CHARACTERISTICS

- Pmax = 10 bars
- DPMax = 0.6 bar
- T Max = 120°C
- EN215 certified (only applicable for TRVs)

## BENEFITS

- Consistent style: The whole range is compatible with Comap thermostatic heads for unified aesthetics in every room with every different radiator solution.
- The right authority for every radiator valve: New TRVs with presetable Kv from Comap include a Kv pattern for high Kv-value accuracy.
- Protective cap: All Comap thermostatic valves are delivered with a protective cap, which protects the needle. It is also used to set the nominal level during installation start-up, without the head.
- Peace of mind: The new TRV design prevents seat sticking, thanks to a strong spring force and a specially designed seat.

## FEATURES

- Various connection modes to the radiators (metal/metal, O-ring).
- Various EN215 dimensions (see EN215 values).

Certifications:



EN 215

## FIXED KV

### THERMOSTATIC VALVE FIXED KV, ANGLE , INTERNAL THREAD

#### 808 - R808

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m³/h at BP 2k)	Qty
3/8	R808603	808603	Rp 3/8	R 3/8	0,55	10
1/2	R808604	808604	Rp 1/2	R 1/2	0,55	10
3/4	R808606	808606	Rp 3/4	R 3/4	0,95	10

### THERMOSTATIC VALVE FIXED KV, ANGLE , INTERNAL THREAD

#### 808JT - R808

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m³/h at BP 2k)	Qty
3/8	R808603B	808603B	Rp 3/8	O-ring R 3/8	0,55	10
1/2	R808604B	808604B	Rp 1/2	O-ring R 1/2	0,55	10

### THERMOSTATIC VALVE FIXED KV, ANGLE , EXTERNAL THREAD

#### 808E - R808E

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m³/h at BP 2k)	Qty
3/8	R808703	808713	Male M22	R 3/8	0,55	10
1/2	R808704	808704	Male M22	R 1/2	0,55	10

### THERMOSTATIC VALVE FIXED KV, ANGLE , EXTERNAL THREAD

#### 808EJT - R808E

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m³/h at BP 2k)	Qty
3/8	R808703B	808713B	Male M22	O-ring R 3/8	0,55	10
1/2	R808704B	808704	Male M22	O-ring R 1/2	0,55	10

### THERMOSTATIC VALVE FIXED KV, STRAIGHT , INTERNAL THREAD

#### 809 - R809

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m³/h at BP 2k)	Qty
3/8	R809603	809603	Rp 3/8	R 3/8	0,55	10
1/2	R809604	809604	Rp 1/2	R 1/2	0,55	10
3/4	R809606	809606	Rp 3/4	R 3/4	0,95	10

### THERMOSTATIC VALVE FIXED KV, STRAIGHT , INTERNAL THREAD

#### 809JT - R809

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m³/h at BP 2k)	Qty
1/2	R809604B	809604B	Rp 1/2	O-ring R 1/2	0,55	10

### THERMOSTATIC VALVE FIXED KV, LARGE KV, STRAIGHT , INTERNAL THREAD

#### 809Q - R809

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m³/h at BP 2k)	Qty
1/2	R809604Q	809304	Rp 1/2	R 1/2	0,95	5

### THERMOSTATIC VALVE FIXED KV, STRAIGHT , EXTERNAL THREAD

#### 809E - R809E

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m³/h at BP 2k)	Qty
1/2	R809704	809704	Male M22	R 1/2	0,55	10

### THERMOSTATIC VALVE FIXED KV, STRAIGHT , EXTERNAL THREAD

#### 809EJT - R809E

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m³/h at BP 2k)	Qty
1/2	R809704B	809704B	Male M22	O-ring R 1/2	0,55	10

### THERMOSTATIC VALVE FIXED KV, STRAIGHT WITH ELBOW , INTERNAL THREAD

#### 809CB - R809C

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m³/h at BP 2k)	Qty
1/2	R809604C	809404	Rp 1/2	Elbow R 1/2	0,55	10

### THERMOSTATIC VALVE FIXED KV, LARGE KV, STRAIGHT WITH ELBOW , INTERNAL THREAD

#### 809GCB - R809C

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m³/h at BP 2k)	Qty
1/2	R809604QC	809205	Rp 1/2	Elbow R 1/2	0,95	10

### THERMOSTATIC VALVE FIXED KV, STRAIGHT WITH ELBOW , EXTERNAL THREAD

#### 809ECB - R809EC

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m³/h at BP 2k)	Qty
1/2	R809704C	809724	Male M22	Elbow R 1/2	0,55	10

## TIP

### PROTECTING THE VALVE STEM



To avoid damaging the valve stem during the project, we recommend leaving the color cap on the valve until the work has been completed or until the thermostatic head is installed.

### THERMOSTATIC VALVE FIXED KV, REVERSED ANGLE , INTERNAL THREAD

#### 908 - R807

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m³/h at BP 2k)	Qty
3/8	R807603	908603	Rp 3/8	R 3/8	0,55	10
1/2	R807604	908604	Rp 1/2	R 1/2	0,55	10
3/4	R807606	908606	Rp 3/4	R 3/4	0,95	10

**THERMOSTATIC VALVE FIXED KV, LARGE KV, REVERSED ANGLE , INTERNAL THREAD**

**908Q - R807**

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m³/h at BP 2k)	Qty
1/2	R807604Q	908224	Rp 1/2	R 1/2	0,95	5

**THERMOSTATIC VALVE FIXED KV, REVERSED ANGLE , EXTERNAL THREAD**

**908E - R807E**

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m³/h at BP 2k)	Qty
3/8	R807703	908713	Male M22	R 3/8	0,55	10
1/2	R807704	908704	Male M22	R 1/2	0,55	10

**THERMOSTATIC VALVE FIXED KV, REVERSED ANGLE , EXTERNAL THREAD**

**908EJT - R807EB**

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m³/h at BP 2k)	Qty
1/2	R807704B	908704B	Male M22	O-ring R 1/2	0,55	10

**THERMOSTATIC VALVE FIXED KV, DOUBLE ANGLE , INTERNAL THREAD**

**933UN - R806**

Left or right mounted angle connection, M28-head



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m³/h at BP 2k)	Qty
3/8	R806603	933523	Rp 3/8	R 3/8	0,6	10
1/2	R806604	933524	Rp 1/2	R 1/2	0,6	10
3/4	R806606	933526	Rp 3/4	R 3/4	0,95	10
1/2	R806604Q	933224	Rp 1/2	R 1/2	0,95	5

**MANUAL HANDWHEEL FOR THERMOSTASTIC VALVES**

**505**



ITEM No	Valve connection	Pipe Connection	Qty
L21200104	M28	M28 -1,5	10

**MANUAL HANDWHEEL FOR BOTH NF AND DIN VALVES**

**506**



ITEM No	Valve connection	Qty
L140001001	M28 and M30 x1,5	10

**THERMOSTATISABLE, FIXED KV, ANGLE WITH MANUAL HANDWHEEL**

**808CMJ**

Left or right mounted angle connection, M28-head



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m³/h at BP 2k)	Qty
3/8	RK8086033	L330009001	Rp 3/8	R 3/8	0,55	10
1/2	RK8086043	L330010001	Rp 1/2	R 1/2	0,55	10

**THERMOSTATISABLE, FIXED KV, ANGLE WITH MANUAL HANDWHEEL**

**808ECMJ**

Left or right mounted angle connection, M28-head



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m³/h at BP 2k)	Qty
3/8	RK8087031	L330011001	Male M22	R 3/8	0,55	10

**ONE PIPE THERMOSTATIC SET FIXED KV, STRAIGHT, FLOOR CONNECTION, M28**

**432**

R809GC + 439T + 538E

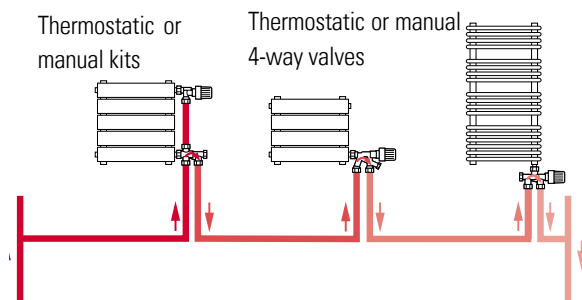


Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Kv (m³/h at BP 2k)	Qty
1/2	432004	Male M22	R 1/2	35	0,95	1

**TIP**

**EXAMPLES OF 1-PIPE INSTALLATIONS**

Standard 1-pipe installation



Convention: the supply is identified with an arrow on the body. The flow direction should be respected.

**ONE PIPE THERMOSTATIC SET FIXED KV, STRAIGHT, WALL CONNECTION, M28**

**432L**

R809GC + 439T + 539E



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Kv (m³/h at BP 2k)	Qty
1/2	432200	Male M22	R 1/2	35	0,95	1

**ONE PIPE THERMOSTATIC SET FIXED KV, REVERSED ANGLE, FLOOR CONNECTION, M28**

**434**

R807G + 439T + 538E



Model	ITEM No	old code	Pipe Connection	Radiator connection	Center to center (mm)	Kv (m³/h at BP 2k)	Qty
1/2	RK8076042	434004	Male M22	R 1/2	35	0,95	1



## ONE PIPE THERMOSTATIC SET FIXED KV, REVERSED ANGLE, WALL CONNECTION, M28

**434L**

R807G + 439T + 539E



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Kv (m <sup>2</sup> /h at BP 2k)	Qty
1/2	434200	Male M22	R 1/2	35	0,95	1

### WITH INTEGRATED PRESETTING

## THERMOSTATIC VALVE PRESET KV, ANGLE , INTERNAL THREAD

**3808 - R858**

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m <sup>2</sup> /h)	Qty
3/8	R858603	380803	Rp 3/8	R 3/8	0,028-0,49	10
1/2	R858604	380804	Rp 1/2	R 1/2	0,028-0,49	10
3/4	R858606	380806	Rp 3/4	R 3/4	0,028-0,49	10
1/2	R858604B	380804B	Rp 1/2	o Ring R 1/2	0,028-0,49	10



Matching lockshield 2428/3428/4468

## THERMOSTATIC VALVE PRESET KV, ANGLE , EXTERNAL THREAD

**3808E - R858E**

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m <sup>2</sup> /h)	Qty
1/2	R858704	380814	Male M22	R 1/2	0,028-0,49	10



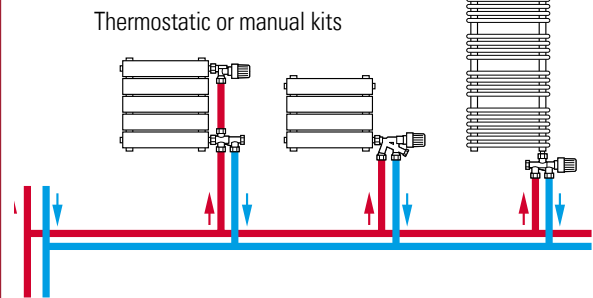
Matching lockshield 2428JT/2428E

## TIP

### EXAMPLES OF 2-PIPE INSTALLATIONS

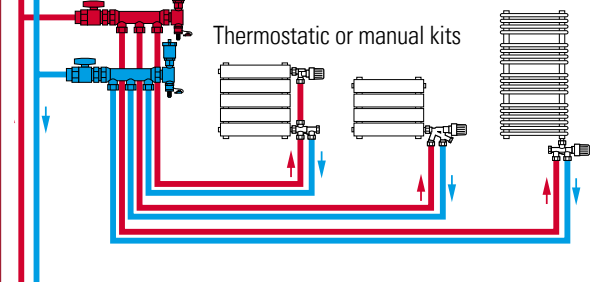
Standard 2-pipe installation

Thermostatic or manual 4-way valves



Centralised 2-pipe installation

Thermostatic or manual 4-way valves



Convention: the supply is identified with an arrow on the body. The flow direction should be respected.

## THERMOSTATIC VALVE PRESET KV, STRAIGHT , INTERNAL THREAD

**3809 - R859**

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m <sup>2</sup> /h)	Qty
3/8	R859603	380903	Rp 3/8	R 3/8	0,028-0,49	10
1/2	R859604	380904	Rp 1/2	R 1/2	0,028-0,49	10
3/4	R859606	380906	Rp 3/4	R 3/4	0,028-0,49	10



Matching lockshield 2429/3429/4469

### THERMOSTATIC VALVE PRESET KV, STRAIGHT , INTERNAL THREAD

#### 3809JT - R859

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m³/h)	Qty
1/2	R859604B	380904B	Rp 1/2	O-ring R 1/2	0,028-0,49	10



Matching lockshield 2429JT/2429E/3429E

### THERMOSTATIC VALVE PRESET KV, STRAIGHT , EXTERNAL THREAD

#### 3809E - R859E

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m³/h)	Qty
1/2	R859704	380914	Male M22	R 1/2	0,028-0,49	10



Matching lockshield 2429JT/2429E/3429E

### THERMOSTATIC VALVE PRESET KV, STRAIGHT WITH ELBOW , INTERNAL THREAD

#### 3809CB - R859C

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m³/h)	Qty
1/2	R859604C	380954	Rp 1/2	Elbow R 1/2	0,028-0,49	10



Matching lockshield 2929/3429/4469

### THERMOSTATIC VALVE PRESET KV, STRAIGHT WITH ELBOW , EXTERNAL THREAD

#### 3809ECBJT - R859EC

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m³/h)	Qty
1/2	R859704CB	L221004001	Male M22	o-ring Elbow R 1/2	0,028-0,49	10



Matching lockshield 2429JT

### THERMOSTATIC VALVE PRESET KV, REVERSED ANGLE, INTERNAL THREAD

#### 3908 - R857

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m³/h)	Qty
1/2	R857604	390804	Rp 1/2	R 1/2	0,028-0,49	10



Matching lockshield 2429/3429/4469

### THERMOSTATIC VALVE PRESET KV, REVERSED ANGLE, EXTERNAL THREAD

#### 3908JT - R857

M28 head, EN215 F dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m³/h)	Qty
1/2	R857704B	L221005001	Male M22	o-ring 1/2	0,028-0,49	10



Matching lockshield 2429JT

## FIXED KV

### THERMOSTATIC VALVE FIXED KV, ANGLE , INTERNAL THREAD

#### 804 - R804

M30 head, EN215 DIN dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m <sup>3</sup> /h at BP 2k)	Qty
3/8	R804403	804403	Rp 3/8	R 3/8	0,55	10
1/2	R804404	804404	Rp 1/2	R 1/2	0,55	10
3/4	R804406	804406	Rp 3/4	R 3/4	0,95	10

### THERMOSTATIC VALVE FIXED KV, STRAIGHT , INTERNAL THREAD

#### 805 - R805

M30 head, EN215 DIN dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m <sup>3</sup> /h at BP 2k)	Qty
3/8	R805403	805403	Rp 3/8	R 3/8	0,55	10
1/2	R805404	805404	Rp 1/2	R 1/2	0,55	10
3/4	R805406	805404	Rp 1/2	R 1/2	0,95	10

### THERMOSTATIC VALVE FIXED KV, REVERSED ANGLE , INTERNAL THREAD

#### D908 - R807

M30 head, EN215 DIN dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m <sup>3</sup> /h at BP 2k)	Qty
1/2	R807404	908404	Rp 1/2	R 1/2	0,55	10

### THERMOSTATIC VALVE FIXED KV, DOUBLE ANGLE , INTERNAL THREAD

#### D933 - R806

M30 head, EN215 DIN dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv (m <sup>3</sup> /h at BP 2k)	Qty
1/2	R806404	933404	Rp 1/2	R 1/2	0,55	10

### THERMOSTATIC VALVE FIXED KV LARGE KV, ANGLE , INTERNAL THREAD

#### 804R

M30 head, EN215 DIN dimensions



Model	ITEM No	Pipe Connection	Radiator connection	Kv (m <sup>3</sup> /h at BP 2k)	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
1/2	L212001001	Rp 1/2	R 1/2	1,2	4,5	1
3/4	L212001002	Rp 3/4	R 3/4	1,2	5,5	1

### THERMOSTATIC VALVE FIXED KV LARGE KV, STRAIGHT , INTERNAL THREAD

#### 805R

M30 head, EN215 DIN dimensions



Model	ITEM No	Pipe Connection	Radiator connection	Kv (m <sup>3</sup> /h at BP 2k)	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
1/2	L212001003	Rp 1/2	R 1/2	1,2	3,5	1
3/4	L212001004	Rp 3/4	R 3/4	1,2	4,5	1

## WITH INTEGRATED PRESETTING

### THERMOSTATIC VALVE PRESET KV, ANGLE , INTERNAL THREAD

#### D3804 - R854

M30 head, EN215 DIN dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m³/h)	Qty
3/8	R854403	380413	Rp 3/8	R 3/8	0,028-0,49	10
1/2	R854404	380414	Rp 1/2	R 1/2	0,028-0,49	10
3/4	R854406	380416	Rp 3/4	R 1/2	0,028-0,49	10

### THERMOSTATIC VALVE PRESET KV, ANGLE , EXTERNAL THREAD

#### D3804E - R854E

M30 head, EN215 DIN dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m³/h)	Qty
1/2	R854304	380824	Male 3/4"E	R 1/2	0,028-0,49	10

### THERMOSTATIC VALVE PRESET KV, STRAIGHT , INTERNAL THREAD

#### D3805 - R855

M30 head, EN215 DIN dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m³/h)	Qty
3/8	R855403	380513	Rp 3/8	R 3/8	0,028-0,49	10
1/2	R855404	380514	Rp 1/2	R 1/2	0,028-0,49	10
3/4	R855406	380516	Rp 3/4	R 3/4	0,028-0,49	10

### THERMOSTATIC VALVE PRESET KV, STRAIGHT, EXTERNAL THREAD

#### D3805E - R855

M30 head, EN215 DIN dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m³/h)	Qty
1/2	R855304	380924	Male 3/4"E	R 1/2	0,028-0,49	10

### THERMOSTATIC VALVE PRESET KV, REVERSED ANGLE, INTERNAL THREAD

#### D3908 - R857

M30 head, EN215 DIN dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m³/h)	Qty
1/2	R857404	390814	Rp 1/2	R 1/2	0,028-0,49	10

### THERMOSTATIC VALVE PRESET KV, REVERSED ANGLE, EXTERNAL THREAD

#### D3908E - R857

M30 head, EN215 DIN dimensions



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m³/h)	Qty
1/2	R857304	390834	Male 3/4"E	R 1/2	0,028-0,49	10

## THERMOSTATIC PANEL ASSEMBLIES

### MANUAL VALVES SET, MULTILAYER COMPRESSION FITTING

#### 5550

For double or triple panel radiators



Size	ITEM No	Qty
M22-1/2"	555004	1

### THERMOSTATIC VALVES SET, MULTILAYER COMPRESSION FITTING

**556**

For simple panel radiators



Size	ITEM No	Qty
M22-1/2"	556004	1

### THERMOSTATIC VALVES SET, PRESS FITTING

**558PS**

For double or triple panel radiators



Size	ITEM No	Qty
1/2"-12	558012N	1
1/2"-16	558016N	1

### THERMOSTATIC VALVE SET, PRESS FITTING

**C558PS**

For simple panel radiators



Size	ITEM No	Qty
1/2"-12	558112N	1

### THERMOSTATIC VALVES SET, SARFIT FAST CONNECTION FITTING

**SF558L**

For double or triple panel radiators



Size	ITEM No	Qty
12-1/2"	558312	1

### SHORT THERMOSTATIC VALVES SET, SARFIT FAST CONNECTION FITTING

**SF558C**

For simple panel radiators



Size	ITEM No	Qty
12-1/2"	558412	1

### THERMOSTATIC VALVES SET, SLIDE FITTING

**558PG**

For double or triple panel radiators



Size	ITEM No	Qty
1/2"-12	558222N	1

### THERMOSTATIC VALVES SET, SLIDE FITTING

**C558PG**

For simple panel radiators



Size	ITEM No	Qty
1/2"-12	558212N	1

### 4 WAY THERMOSTATIC VALVES, TWO-PIPE

### HORIZONTAL LANCE VALVE, TWO-PIPE, M28

**920E**

Regulation, balancing, isolation.



Model	ITEM No	Pipe Con- nection	Ra- diator connec- tion	Center to center (mm)	Qty
M22, Kv 0.34	920122	Male M22	R 1/2	35	5
M22, Kv 0.64	920022	Male M22	R 1/2	35	5

**HORIZONTAL LANCE VALVE, TWO-PIPE, M28****920A**

Regulation, balancing, isolation.



Model	ITEM No	Pipe Con- nection	Ra- diator connec- tion	Center to center (mm)	Qty
1/2, Kv 0,34	920104	Male 1/2"G	R 1/2	35	5
1/2, Kv0,64	920105	Male 1/2"G	R 1/2	35	5

**\* NOTE****4-WAY VALVE EXTENDED LANCE**

An extended lance improves supply to the radiator. Wherever possible, we advise using extension lance ref. 4439 on the 4-way valve.

The use of a 4-way valve can affect the performance of the radiator (check with the radiator manufacturer concerned). Most design radiators are equipped with a diaphragm at the inlet. Care must be taken to ensure the lance protrudes by at least 1cm through the diaphragm. Otherwise there is a risk of insufficient supply or of bypassing the radiator inlet and outlet.

**VERTICAL LANCE VALVE, TWO-PIPE, M28****921E**

Regulation, balancing, isolation.



Model	ITEM No	Pipe Con- nection	Ra- diator connec- tion	Center to center (mm)	Qty
M22, Kv 0,64	921422	Male M22	R 1/2	35	5

**VERTICAL LANCE VALVE, TWO-PIPE, M30****D921**

Regulation, balancing, isolation.



Model	ITEM No	Pipe Con- nection	Ra- diator connec- tion	Center to center (mm)	Kv Open (m <sup>3</sup> /h at BP 2k)	Kv Close (m <sup>3</sup> /h at BP 2k)	Qty
3/4E	921406	Male 3/4"E	R 1/2	50	0,05	0,55	5



Extended lance for four-way valves, see item code 443900

**4 WAY THERMOSTATIC VALVES, ONE-PIPE****HORIZONTAL LANCE VALVE, ONE-PIPE, M28****444E**

Regulation, balancing, isolation. a=0,45



Model	ITEM No	Pipe Con- nection	Ra- diator connec- tion	Center to center (mm)	Kv Open (m <sup>3</sup> /h at BP 2k)	Kv Close (m <sup>3</sup> /h at BP 2k)	Qty
M22	444522	Male M22	R 1/2	35	2	1,15	5

**HORIZONTAL LANCE VALVE, ONE-PIPE, M28****444A**

Regulation, balancing, isolation, flat seal. a=0,45



Model	ITEM No	Pipe Con- nection	Ra- diator connec- tion	Center to center (mm)	Kv Open (m <sup>3</sup> /h at BP 2k)	Kv Close (m <sup>3</sup> /h at BP 2k)	Qty
1/2G	444604	Male 1/2"G	R 1/2	35	2	1,15	5

## VERTICAL LANCE VALVE, ONE-PIPE, M28

**445**



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Kv Open (m³/h at BP 2k)	Kv Close (m³/h at BP 2k)	Qty
M22	445422	Male M22	R 1/2	35	2	1,15	5

## VERTICAL LANCE VALVE, ONE-PIPE, M30

**D445**

Regulation, balancing, isolation. a=0,45



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Kv Open (m³/h at BP 2k)	Kv Close (m³/h at BP 2k)	Qty
3/4E	445406	Male 3/4"E	R 1/2	50	2	1,15	5



Extension pipe for four-way valves, see item code 443900

## INTEGRATED RADIATORS VALVES - ACCESSORIES

### INTERCHANGEABLE TIGHTNESS SYSTEM

**5810**

For fixed Kv, F Serie, M28



ITEM No	Pipe Connection	Qty
810500	M28	20

### INTERCHANGEABLE TIGHTNESS SYSTEM

**5811**

For preset kv, F Serie, M28



ITEM No	Pipe Connection	Qty
581100	M28	20

## THERMOSTATIC VALVES BODIES - ACCESSORIES

### THERMOSTATIC INSERT

**5815**

Fixed Kv, 2Kg, compatible EuroSAR 3/8" and 1/2"



ITEM No	Pipe Connection	Kv (m³/h at BP 2k)	Valve size	Nb	Qty
815503	M28	0,03	3/8"-1/2"	1	1
815506	M28	0,06	3/8"-1/2"	2	1
815513	M28	0,13	3/8"-1/2"	3	1
815530	M28	0,34	3/8"	4	10
815555	M28	0,64	1/2"	5	10

### THERMOSTATIC INSERT

**R5815**

Fixed Kv, 3Kg, compatible EuroSAR 3/8" and 1/2"



Size (metric)	ITEM No	Pipe Connection	Kv (m³/h at BP 2k)	Valve size	Qty
R815532	R5815555	M30	0,55	3/8"-1/2"	1

## THERMOSTATIC INSERT

### 5816

Fixed Kv, 2 Kg, compatible EuroSAR 3/4"



ITEM No	Pipe Connection	Kv (m <sup>3</sup> /h at BP 2k)	Valve size	Qty
816590	M28	0,95	3/4"	10

## THERMOSTATIC INSERT

### 5814

Spring force 2Kg, M28



ITEM No	Pipe Connection	Kv range (m <sup>3</sup> /h)	Kv Open (m <sup>3</sup> /h at BP 2k)	Kv Close (m <sup>3</sup> /h at BP 2k)	Valve size	Qty
581400	M28	0,025-0,5	0,025	0,5	3/8"-1/2"-3/4"	10

## THERMOSTATIC INSERT FOR NEW THERMOSTATIC VALVE SINCE 2013

### R5814

Spring force 3Kg, M28



Size (metric)	ITEM No	Kv range (m <sup>3</sup> /h)	Kv Open (m <sup>3</sup> /h at BP 2k)	Kv Close (m <sup>3</sup> /h at BP 2k)	Valve size	Qty
581400	R581400	0,028-0,49	0,025	0,5	3/8"-1/2"-3/4"	10

## 10 POSITIONS PRE-SETTING TOOL

### 5837

For NF Serie, M28



ITEM No	Pipe Connection	Qty
583700	M28	1

## INTERCHANGEABLE TIGHTNESS SYSTEM

### D5810

For fixed Kv, DIN Serie, M30



ITEM No	Pipe Connection	Qty
581030	M30	20

## INTERCHANGEABLE TIGHTNESS SYSTEM

### D5811

For fixed Kv, DIN Serie, M30



ITEM No	Pipe Connection	Qty
581130	M30	20

## THERMOSTATIC INSERT

### R5815

Fixed Kv, 4g, compatible EuroSAR 3/8" and 1/2"



Size (metric)	ITEM No	Pipe Connection	Kv (m <sup>3</sup> /h at BP 2k)	Valve size	Qty
815506	R815532	M30	0,55	3/8"-1/2"	1

## THERMOSTATIC INSERT

### D5814

Spring force 4Kg



Size (metric)	ITEM No	Pipe Connection	Kv range (m <sup>3</sup> /h)	Valve size	Qty
581430	M30	0,025-0,5	3/8"-1/2"-3/4"	10	9
581430	R581430	M30	0,028-0,49	3/8"-1/2"-3/4"	10



## 10 POSITIONS PRE-SETTING TOOL

**D5837**

For DIN Serie, M30



ITEM No	Pipe Connection	Qty
583720	M30	1

## DEMOBLOC, MAINTENANCE TOOL FOR COMAP THERMOSTATIC VALVES

**5831**

Maintenance under water is possible



ITEM No	Qty
P12001001	1

## PRESET THERMOSTATIC INSERT M30

**955**

Spring force 4Kg



Model	ITEM No	Ra- diator connec- tion	Kv (m³/h at BP 2k)	Qty
1/2" (Short type)	955002	R 1/2	0,13 - 0,935	25
M22	955000	M22	0,13 - 0,935	25
1/2" (long type)	955003	R 1/2	0,13 - 0,935	25



**TIP**

### THERMOSTATIC VALVE BODY ACCESSORIES - INSERTS

To ensure a good junction with the radiator, make sure that the connection side of the radiator is absolutely free of dirt and burrs (remove any remaining paint or burrs). Cartridges of the long type are equipped with "Loctite brake" on the thread to prevent unexpected unscrewing.

## ANGLE ADAPTOR

**8100**

Angle adaptor



Model	ITEM No	Ra- diator connec- tion	Qty
8100	810000	M30x1,5	1

## NIPPLE FOR H-MODULE CONNECTION TO A FEMALE 1/2" RADIATOR

**9670**

Angle adaptor



Model	ITEM No	Ra- diator connec- tion	Qty
9670	967046-A	F 1/2"	10

## CONE FOR H-MODULE CONNECTION TO A MALE 3/4" RADIATOR

**9671**



Model	ITEM No	Radiator connec- tion	Qty
9671	967116	Male 3/4"	10

## EXTENDED LANCE FOR LANCE VALVES

**4439**

Improves the radiator irrigation.



Model	ITEM No	d	L (mm)	Qty
300mm	443900	12 mm	300	1

## CONNECTING PIPE THERMOSTATIC SETS.

### 439T

For DIN Serie, M30



ITEM No	d	L (mm)	Qty
559110	15 mm	1100	10

## CONNECTORS

### SOCKET ADAPTER

#### 966



Size	ITEM No	L (mm)	Qty
1/2"-3/4"E	966000	30	2

### LONG TAIL

#### 595G

Nickel plated



Size	ITEM No	L (mm)	Qty
3/8"	595503	45	1
3/4"	595506	70	1
1/2"	595504	76	1

### BEND 90°

#### 597G



Size	ITEM No	Qty
1/2"	597004	10

## ELBOW FOR CONNECTION BEHIND THE RADIATOR

#### 583



Size	ITEM No	Qty
16mm-M22	583022	2

## REDUCER

#### 495G



Size	ITEM No	Qty
1/2" -1"1/4	595005	1
3/4" -1"	595006	1

## LONG NICKEL PLATED TAIL

#### B595G



ITEM No	L (mm)	Qty
5954041	37	10

## BENT 90°

#### 597GJT



Size	ITEM No	Qty
1/2"	597004B	10

## RADIATORS ACCESSORIES

### AIR-VENT

#### 3070AP

external thread - w/ square



Size	ITEM No	Qty
1/4"	467002	50
1/8"	467001	50

### AIR-VENT

#### 3070BCU

to be welded on SUDO fitting -w/wheel



Size	ITEM No	Qty
12	467312	50

### AIR-VENT

#### 3070BP

external thread - w/ wheel



Size	ITEM No	Qty
1/4"	467102	50
1/8"	467101	50

### DRAIN VALVE

#### 575



Size	ITEM No	Qty
1/4"	469002	50
3/8"	469003	50

## TOOLS

### SETTING KEY

#### 334

2 O-ring tightness, for lockshield



ITEM No	Qty
550334	1

### ALLEN KEY SOCKET

#### 12AC

For maintenance under water on COMAP valves



Size	ITEM No	Valves	Qty
13mm	550213U	1/2"	1

### KEY FOR OLD UNION FITTING

#### 12U

To screw all COMAP tail onto radiators



Size	ITEM No	Qty
3/8" - 1/2" - 3/4"	550121	1

### ALLEN KEY

#### 12A



Size	ITEM No	Valves	Qty
10mm	550310	3/8"	1
17mm	550317	3/4"	1
13mm	550313	1/2"	1

**KEY FOR 3700AP****3060C**

To screw all COMAP tail onto radiators



Size	ITEM No	Qty
square 4mm	466000	10

**FITTINGS FOR PANEL ASSEMBLIES****OLIVE COMPRESSION FITTING M22****835**

For copper or calibrated steel pipe



Size	ITEM No	Qty
M22-10	835410	10
M22-12	835412	10
M22-14	835414	10
M22-15	835415	10
M22-16	835416	10
M22-18	835418	10

**REINFORCING INSERT****9216**

For annealed copper



ITEM No	Ø	Tube	Qty
9216008	8	8-10	1
9216010	10	10-12	1
9216012	12	12-14	1
9216014	14	14-16	1
92160161	16	14-18	1

\* Must be used with Annealed copper

**MECHANICAL FITTING M22****839**

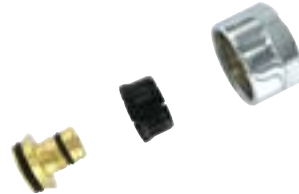
For MultiSKIN pipe, threaded, nickel plated



ITEM No	d1-d2 (mm)	Qty
839514	M22-14x2	2
839516	M22-16x2	2
839418	M22-18x2	2
839420	M22-20x2	2

**MECHANICAL FITTING****835P - 3/4"**

For PEX pipe (PER), Threaded, nickel plated



Size	ITEM No	Qty
3/4-16x1,5	835561	2
3/4-20x2(1,9)	835261	2

**TAIL AND NUT****L383**

With 2 o'ring 1/2"



Size	ITEM No	Qty
1/2"	VBR05D81	1

## COMPRESSION FITTINGS FOR COPPER AND CHROME PIPES

835ECD



Model	ITEM No	Valve connection	Pipe Connection	Qty
Chrome	8350914	3/4"E	14	2
Chrome	8350915	3/4"E	15	2
Chrome	8350916	3/4"E	16	2
Satine	8351914	3/4"E	14	2
Satine	8351915	3/4"E	15	2
Satine	8351916	3/4"E	16	2

## COMPRESSION FITTINGS FOR PEX AND MULTILAYER PIPES

835PED



Model	ITEM No	Valve connection	Pipe Connection	Qty
Satine	8351862	3/4"E	16x2	2
Chrome	8350862	3/4"E	16x2	2

## CHROME TAIL AND NUT WITH 2 O'RING

L383C



Model	ITEM No	Valves connection	Qty
Chrome	VBR06801	1/2"JT	2

## STEEL TAIL AND NUT WITH 2 O'RING

L383S

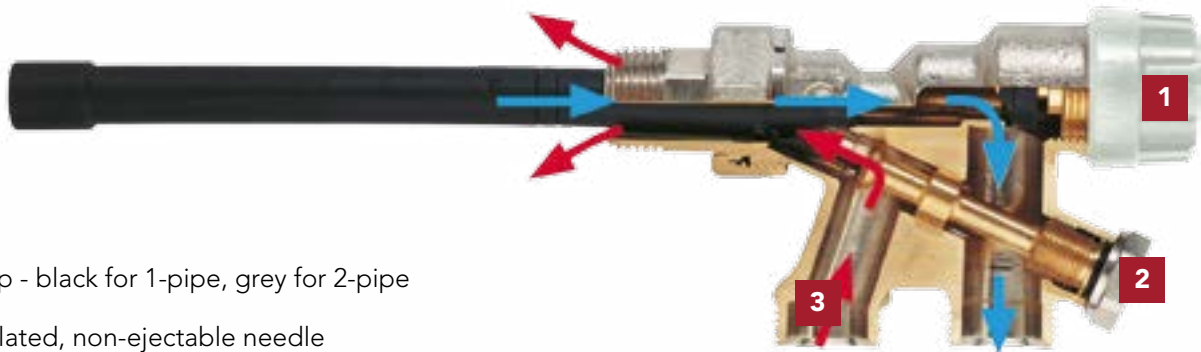


Model	ITEM No	Valves connection	Qty
Satin	VBR06802	1/2"JT	2



# 4-WAY VALVES

## SELECTION




- 1 Cap - black for 1-pipe, grey for 2-pipe
- 2 Isolated, non-ejectable needle
- 3 4-way thermostatic body


Ref.	Type		Feeding		Cartridge		
	1-pipe thermostatic	2-pipe thermostatic	Horizontal	Vertical	5812 - 3/4"	5815 - 3/8"	5816 - 3/4"
443E			X		X		
444E	X		X				X
445E	X			X			X
920E		X	X			X	
921E		X		X		X	
D921		X		X		X	

## INSTALLATION


### 2-PIPE 4-WAY VALVES




**920E**



**921E**




**D921**



**920A**


FITTINGS

**M22**




Copper pipe  
PTFE ring

835 S




Copper pipe  
brass ring

835



PEX - PB


835 P



MultiSKIN  
pipe


839

**EUROCONUS**



Copper

835 E




PEX  
MULTISKIN


835 PE

Flat joint  
fitting for all  
types of pipes


### 1-PIPE 4-WAY VALVES




**443E**




**444E**



**445E**



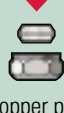
**D445**



**444A**


FITTINGS

**M22**




Copper pipe  
PTFE ring

835 S




Copper pipe  
brass ring

835



PEX - PB


835 P



MultiSKIN  
pipe


839

**EUROCONUS**



Copper

835 E



PEX  
MULTISKIN

835 PE

Flat joint  
fitting for all  
types of pipes

## SETTING

2-pipe Kv setting is performed in the same way as for lockshields. Using key 334 or an appropriate Allen key, shut the valve completely and then open it by the given number of turns.

1-pipe flow sharing is performed using the same tool.

T	Kv m <sup>3</sup> /h	Zeta
1	0,150	4569
2	0,210	2331
3	0,320	1004
4	0,460	486
MAX	0,550	340

COMAP 343

Climate Control



# THERMOSTATIC RADIATOR VALVES

## RANGE OVERVIEW

New for 2013!

The Comap thermostatic valves range has changed to deliver better performance:

- A profiled seat and a stronger spring to eliminate seat sticking.
- A more accurate Kv setting thanks to a calibrated selection wheel.
- The full range of TRVs will be deployed throughout 2013.

To avoid any confusion, the article codes and commercial designations are also changing. Below you will find a list of new generation TRVs, as well as the previous ones.

### New TRV 2013

Ref.	EN 215 model	Kv pre-setting	Model					Head		Dimension and Kv (BP2K)			Mechanism	Fitting				Socket	
			Angle	Straight	Straight with elbow	Reversed angle	Double angle	M28 x 1.5	M30 x 1.5	3/8"	1/2"	3/4"		Female thread	Male thread	Euroconus	Sarfit	Conical	O-ring Tightness (cylindrical)
R858 / B	F	Yes	X					X	0.028-0.490	0.028-0.490	0.028-0.490	1				X	X		
R808 / B	F	No	X					X	0.55	0.55	0.95	1				X	X		
R808E / B		No	X					X	0.55	0.55	0.95		3			X	X		
R858E		Yes	X					X	0.028-0.490	0.028-0.490	0.028-0.490		3			X			
R804	D	No	X					X	0.55	0.55	0.95	1				X			
R804E	D	No	X					X	0.55	0.55	0.95		3			X			
R854	D	Yes	X					X	0.028-0.490	0.028-0.490	0.028-0.490	1				X			
R854E	D	Yes	X					X	0.028-0.490	0.028-0.490	0.028-0.490		3			X			
R809 / B	F	No		X				X	0.55	0.55	0.95	1				X	X		
R809E / B		No		X				X	0.55	0.55	0.95		3			X	X		
R805	D	No		X				X	0.55	0.55	0.95	1				X			
R805E	D	No		X				X	0.55	0.55	0.95		3			X			
R859 / B	F	Yes		X				X	0.028-0.490	0.028-0.490	0.028-0.490	1				X	X		
R859E / B		Yes		X				X	0.028-0.490	0.028-0.490	0.028-0.490		3			X	X		
R855	D	Yes		X				X	0.028-0.490	0.028-0.490	0.028-0.490	1				X			
R855E	D	Yes		X				X	0.028-0.490	0.028-0.490	0.028-0.490		3			X			
R807		No			X			X	0.55	0.55	0.95	1				X			
R807E / B		No			X			X	0.55	0.55	0.95		3			X	X		
R857		No			X			X		0.028-0.490		1				X			
R857E / B		No			X			X		0.028-0.490			3			X	X		
R806		No				X	X	X	0.55	0.55		1				X			

\*1 : 834/834b

2 : 824 RMC

3 : 835/ 835p/ 839/ 835S

4 : 835E/ 835PE



## Previous generation TRV

Ref.	EN 215 model	Kv pre-setting	Model					Head		Dimension and Kv (BP2K)			Mechanism	Fitting				Socket
			Angle	Straight	Straight with elbow	Reversed angle	Double angle	M28 x 1.5	M30 x 1.5	3/8"	1/2"	3/4"		Female thread	Male thread	Euroconus	Sarfit	
3808	F	Yes	X					X			0.025/0.5		5814	1			X	
3808JT	F	Yes	X					X			0.025/0.5		5814	1				X
808	F	No	X					X	0.34	0.64	0.95		5815	1			X	X
808JT	F	No	X					X	0.340	0.640			5815	1			X	
808E		No	X					X		0.64			5815		3		X	
808EJT		No	X					X	0.340	0.640			5815		3			X
3808E		Yes	X					X		0.025/0.5			5814		3		X	
804	D	No	X					X	0.34	0.64	0.95		D5815	1			X	
D3804	D	Yes	X					X	0.025/0.5	0.025/0.5	0.025/0.5		D5814	1			X	
D3804E		Yes	X					X		0.025/0.5			D5814			4	X	
809	F	No		X				X	0.34	0.64	0.95		5815	1			X	X
809JT	F	No		X				X		0.64			5815	1				X
809G	F	No		X				X		0.7			5816	1			X	
809E		No		X				X		0.64			5815		3		X	
809EJT		No		X				X		0.64			5815		3			X
805	D	No		X				X	0.34	0.64	0.95		D5815	1			X	
3809	F	Yes		X				X		0.025/0.5			5814	1			X	
3809JT	F	Yes		X				X		0.025/0.5			5814	1				X
3809E		Yes		X				X		0.025/0.5			5814		3		X	
D3805	D	Yes		X				X	0.025/0.5	0.025/0.5	0.025/0.5		D5814	X			X	
D3805E		Yes		X				X		0.025/0.5			D5814			4	X	
809CB	F	No			X			X		0.64			5815	1			X	
809ECB		No			X			X		0.64			5815		3		X	
3809CB	F	Yes			X			X		0.025/0.5			5814	1			X	
3809ECB		Yes			X			X		0.025/0.5			5814		3		X	
809GCB	F	No			X			X		0.70			5816	2			X	
809CB	F	No			X			X		0.64			5815	1			X	
908	F	No				X		X	0.34	0.64	0.95		5815	1			X	
908E		No				X		X		0.64			5815		3		X	
3908	F	Yes				X		X		0.032/0.475			5814	1			X	
3908E		Yes				X		X		0.032/0.475			5814		3		X	
D3908E		Yes				X		X		0.032/0.475			D5814			4	X	
908G	F	No				X		X		0.95			5816	2			X	
D3908	D	Yes				X		X		0.032/0.475			D5815	1			X	
908G	F	No				X		X		0.7			5816	1			X	
D908	D	No				X		X		0.64			D5815	1			X	
933UN		No					X	X	0.34	0.64	0.95		5815	1			X	
D933		No					X	X		0.64			D5815	1			X	

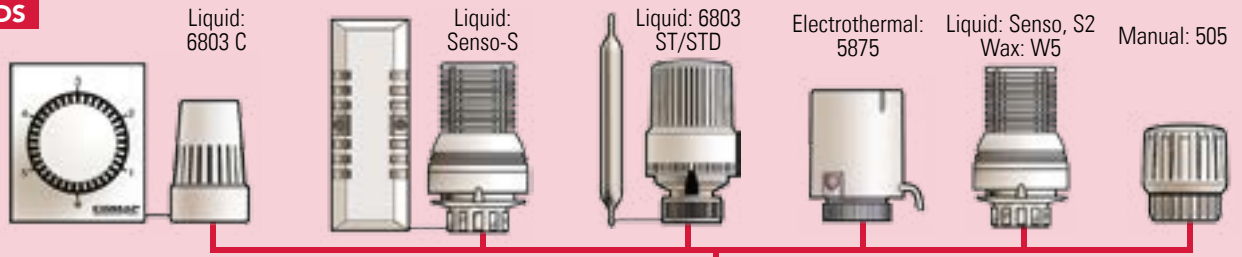
\*1 : 834/834b

2 : 824 RMC

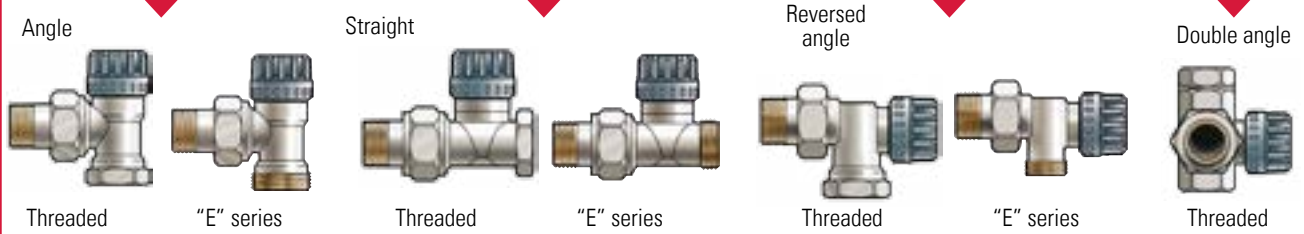
3 : 835/ 835p/ 839/ 835S

4 : 835E/ 835PE

**HEADS**

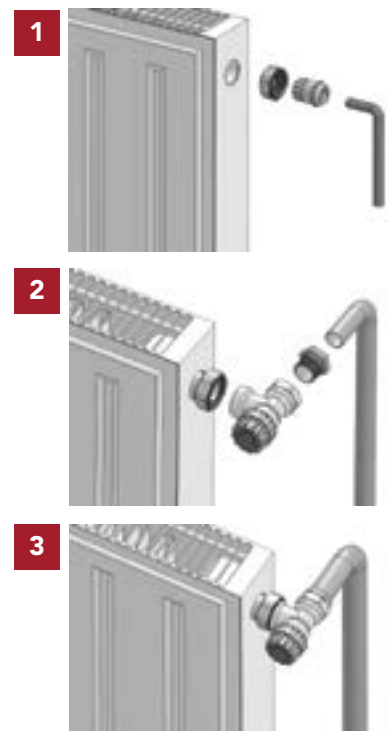


**BODIES**

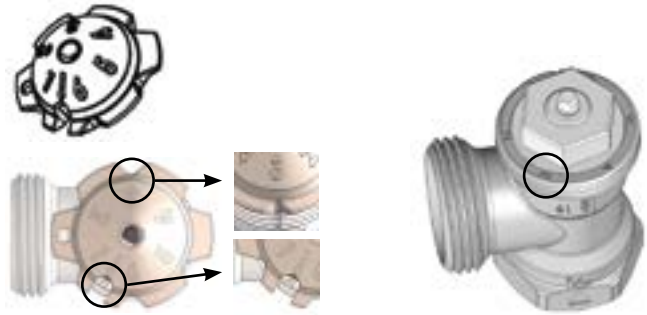
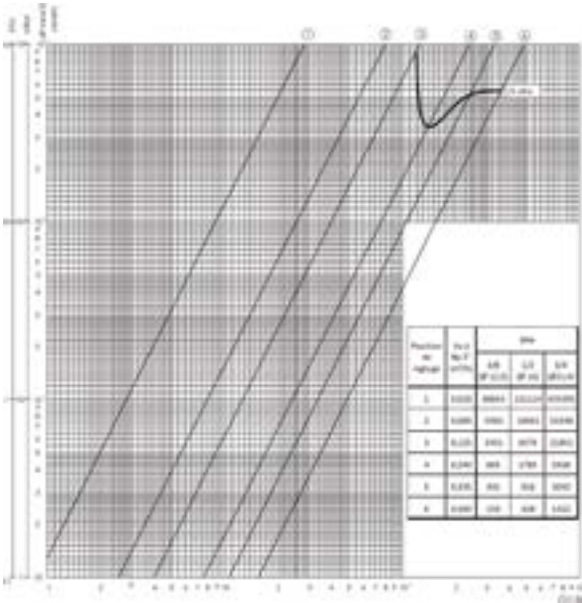


**INSTALLATION**

Valve		<b>M22</b>	<b>EUROCONE</b>	
Pipe				
	<b>834</b>	<b>835 S</b>	<b>835</b>	<b>835 E</b>
Cu				
PEX - PB		<b>835 P</b>		<b>835 P</b>
MultiLayer		<b>835</b>		<b>835 PE</b>



# SETTING

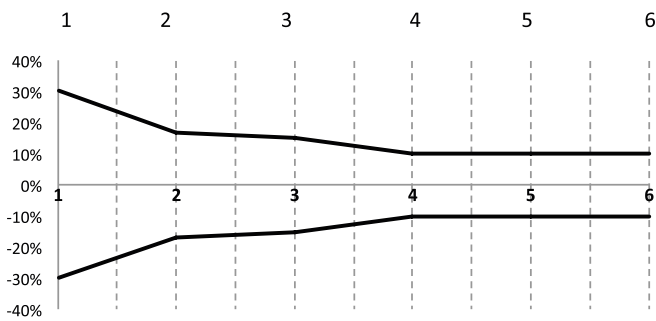


Presetting of the preset-Kv valves should be done using a special tool (ref 583730). Place the tool onto the valve spindle and turn it to the desired value. The value is indicated by an opening on the tool. It is also visible when the tool is removed; it is the position in front of the flat part of the spindle.

## Kv-setting principle



Calibrated orifice



Setting position

Accuracy

## Installation



Nominal level setting:

- Close the valve completely and mark it with one position.
- Open and count 6 marks. This is the nominal setting.

# MANUAL RADIATOR VALVES

Manual radiator valves guarantee a simple, economical and yet efficient distribution of heat. The double regulating feature models even allow the installer to balance the heating system to reduce discrepancies in heat availability.



## APPLICATIONS

Model	Applications
Double regulating EURO SAR	The traditional and elegant best-seller model with Kv-presetting and memory capability. Ideal for renovation projects or new apartments with thermostatically controlled boilers. Can be upgraded to thermostatic later.
Single regulating EURO SAR	The traditional and elegant best-seller model. Ideal for renovation projects or new apartments with thermostatically controlled boilers. Can be upgraded to thermostatic later.
UniverSAR	Modern aesthetics and features. Allows direct reading of the Kv-setting for fast installation and control.
Focus	Small, lean and discreet. Ideal for projects.
MonoFocus	The Focus model with flow and return in only one radiator connection point, together with an external valve. Ideal for towel radiators or decorative vertical radiators.
Design	3 different finishes to fit elegant bathroom towel and design radiators.

## TECHNICAL CHARACTERISTICS

- P Max = 10 bars
- DP Max = 0.6 bar
- T Max = 120°C

## BENEFITS

- Profiled seat for silent operation.
- The right authority for every radiator valve. The double regulating manual valves incorporate a Kv pre-setting function.
- All Comap manual valves are delivered with a protective cap, which protects the handwheel during works.

## FEATURES

- Various connection modes to the radiators (metal/metal, O-ring).

Serie	Dimensions	1-pipe, 2-pipe	Preset / Fixed Kv	Shapes
EuroSAR	3/8", 1/2", 3/4", 1"	2-pipe 1-pipe	Preset + Fixed	Straight, Angle
UniverSAR	" , 1/2"	2-pipe	Preset	Straight, Angle
Focus	3/8", 1/2"	2-pipe	Fixed	Straight, Angle
MonoFocus	1/2"	1-pipe	Preset	Horizontal
Design	1/2"	2-pipe	Fixed	Straight, Angle

## EUROSAR MANUAL VALVES

### MANUAL VALVE DOUBLE REGULATING EUROSAR, ANGLE , INTERNAL THREAD

408U



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m³/h at BP 2k)	Qty
3/8"	408203	F 3/8"	R 3/8"	1,7	10
1/2"	408204	F 1/2"	R 1/2"	1,9	10
3/4"	408206	F 3/4"	R 3/4"	3,3	5

### MANUAL VALVE DOUBLE REGULATING NON EUROSAR, ANGLE , INTERNAL THREAD

408

Non-thermostatisable



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m³/h at BP 2k)	Qty
1"	408008	F 1"	R 1"	8,5	1

\*Non Euro-Sar, Valves cannot be changed to thermostatic Valves

### MANUAL VALVE DOUBLE REGULATING NON EUROSAR HIGH FLOW, ANGLE , INTERNAL THREAD

408Q

Non-thermostatisable



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m³/h at BP 2k)	Qty
1/2"	408384	F 1/2"	R 1/2"	2,82	10

\*Non Euro-Sar, Valves cannot be changed to thermostatic Valves

### MANUAL VALVE DOUBLE REGULATING EUROSAR, ANGLE , INTERNAL THREAD

408UJT



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m³/h at BP 2k)	Qty
3/8"	408203B	F 3/8"	O-ring R 3/8"	1,7	10
1/2"	408204B	F 1/2"	O-ring R 1/2"	1,9	10

### MANUAL VALVE DOUBLE REGULATING EUROSAR, ANGLE , EXTERNAL THREAD

408E



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m³/h at BP 2k)	Qty
3/8"	408713	Male M22	R 3/8"	1,7	10
1/2"	408704	Male M22	R 1/2"	1,9	10

### MANUAL VALVE DOUBLE REGULATING EUROSAR, ANGLE , EXTERNAL THREAD

408EJT



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m³/h at BP 2k)	Qty
3/8"	408713B	Male M22	O-ring R 3/8"	1,7	10
1/2"	408704B	Male M22	O-ring R 1/2"	1,9	10

### MANUAL VALVE DOUBLE REGULATING EUROSAR, REVERSED ANGLE, EXTERNAL THREAD

**508EJT**



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m³/h at BP 2k)	Qty
1/2	508704B	Male M22	O-ring R 1/2"	1,25	5

### MANUAL VALVE DOUBLE REGULATING EUROSAR, STRAIGHT, INTERNAL THREAD

**409U**



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m³/h at BP 2k)	Qty
3/8	409203	F 3/8"	R 3/8"	1	10
1/2	409204	F 1/2"	R 1/2"	1,25	10
3/4	409206	F 3/4"	R 3/4"	2,5	5

### MANUAL VALVE DOUBLE REGULATING NON EUROSAR, STRAIGHT, INTERNAL THREAD

**409**

Non-thermostatisable



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m³/h at BP 2k)	Qty
1	409208	F 1"	R 1"	6,5	1

*\*Non Euro-Sar, Valves cannot be changed to thermostatic Valves*

### MANUAL VALVE DOUBLE REGULATING NON EUROSAR HIGH FLOW, STRAIGHT, INTERNAL THREAD

**409Q**

Non-thermostatisable



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m³/h at BP 2k)	Qty
1/2	409384	F 1/2"	R 1/2"	2,5	10

*\*Non Euro-Sar, Valves cannot be changed to thermostatic Valves*

### MANUAL VALVE DOUBLE REGULATING EUROSAR, STRAIGHT, INTERNAL THREAD

**409UJT**



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m³/h at BP 2k)	Qty
1/2	409204B	F 1/2"	O-ring R 1/2"	1,25	10

### MANUAL VALVE DOUBLE REGULATING EUROSAR, STRAIGHT, EXTERNAL THREAD

**409E**



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m³/h at BP 2k)	Qty
1/2	409704	Male M22	R 1/2"	1,25	10

### MANUAL VALVE DOUBLE REGULATING EUROSAR, STRAIGHT, EXTERNAL THREAD

**409EJT**



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m³/h at BP 2k)	Qty
1/2	409704B	Male M22	O-ring R 1/2"	1,25	10

**MANUAL VALVE DOUBLE REGULATING EUROSAR,  
STRAIGHT WITH ELBOW, INTERNAL THREAD**

**409UCB**



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
1/2	409505	F 1/2"	Elbow R 1/2"	1,25	10

**MANUAL VALVE DOUBLE REGULATING NON EUROSAR HIGH FLOW, STRAIGHT WITH ELBOW, INTERNAL THREAD**

**409QCB**

Non-thermostatisable



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
1/2	409424	F 1/2"	R 1/2"	2,5	10

\*Non Euro-Sar, Valves cannot be changed to thermostatic Valves

**MANUAL VALVE DOUBLE REGULATING EUROSAR,  
STRAIGHT WITH ELBOW, EXTERNAL THREAD**

**409ECB**



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
1/2	409724	Male M22	Elbow R 1/2"	1,25	10

**MANUAL VALVE SINGLE REGULATING EUROSAR,  
ANGLE, INTERNAL THREAD**

**418U**



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
3/8	418203	F 3/8"	R 3/8"	1,7	10
1/2	418204	F 1/2"	R 1/2"	1,9	10
3/4	418206	F 3/4"	R 3/4"	3,3	5

**MANUAL VALVE SINGLE REGULATING NON EUROSAR,  
ANGLE, INTERNAL THREAD**

**418**

Non-thermostatisable



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
1	418208	F 1"	R 1"	8,5	1

\*Non Euro-Sar, valves cannot be changed to thermostatic valves

**MANUAL VALVE SINGLE REGULATING NON EUROSAR  
HIGH FLOW, ANGLE, INTERNAL THREAD**

**418G**

Non-thermostatisable



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
1/2	418604	F 1/2"	R 1/2"	1,9	5

\*Non Euro-Sar, valves cannot be changed to thermostatic valves

### MANUAL VALVE SINGLE REGULATING EUROSAR, ANGLE, INTERNAL THREAD

418UJT



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
3/8	418203B	F 3/8"	O-ring R 3/8	1,7	10
1/2	418204B	F 1/2"	O-ring R 1/2	1,9	10

### MANUAL VALVE SINGLE REGULATING NON EUROSAR HIGH FLOW, ANGLE, INTERNAL THREAD

418GJT

Non-thermostatisable



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
1/2	418604B	F 1/2"	O-ring R 1/2	2,2	5

\*Non Euro-Sar, valves cannot be changed to thermostatic valves

### MANUAL VALVE SINGLE REGULATING EUROSAR, ANGLE, EXTERNAL THREAD

418E



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
3/8	418713	Male M22	R 3/8	1,7	10
1/2	418704	Male M22	R 1/2	1,9	10

### MANUAL VALVE SINGLE REGULATING EUROSAR, ANGLE, EXTERNAL THREAD

418EJT



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
3/8	418713B	Male M22	O-ring R 3/8	1,7	10
1/2	418704B	Male M22	O-ring R 1/2	1,9	10

### MANUAL VALVE SINGLE REGULATING EUROSAR, STRAIGHT, INTERNAL THREAD

419U



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
3/8	419203	F 3/8"	R 3/8	1	10
1/2	419204	F 1/2"	R 1/2	1,25	10
3/4	419206	F 3/4"	R 3/4	2,5	5

### MANUAL VALVE SINGLE REGULATING NON EUROSAR, STRAIGHT, INTERNAL THREAD

419

Non-thermostatisable



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
1	419208	F 1"	1"G	6,5	1

\*Non Euro-Sar, valves cannot be changed to thermostatic valves



**MANUAL VALVE SINGLE REGULATING EUROSAR,  
STRAIGHT, INTERNAL THREAD**

**419UJT**



Model	ITEM No	Pipe Con- nection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
3/8	419203B	F 3/8"	O-ring R 3/8	1	10
1/2	419204B	F 1/2"	O-ring R 1/2	1,25	10

**MANUAL VALVE SINGLE REGULATING EUROSAR,  
STRAIGHT, EXTERNAL THREAD**

**419E**



Model	ITEM No	Pipe Con- nection	Ra- diator connec- tion	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
1/2	419704	Male M22	R 1/2	1,25	10

**MANUAL VALVE SINGLE REGULATING EUROSAR,  
STRAIGHT, EXTERNAL THREAD**

**419EJT**



Model	ITEM No	Pipe Con- nection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
1/2	419704B	Male M22	O-ring R 1/2	1,25	10
3/8	419713B	Male M22	O-ring R 3/8	1	10

**MANUAL VALVE SINGLE REGULATING EUROSAR,  
STRAIGHT WITH ELBOW, INTERNAL THREAD**

**419CB**



Model	ITEM No	Pipe Con- nection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
1/2	419804	F 1/2"	Elbow R 1/2	1,25	10

**MANUAL VALVE SINGLE REGULATING NON EUROSAR  
HIGH FLOW, STRAIGHT WITH ELBOW, INTERNAL THREAD**

**409QCB**

Non-thermostatisable



Model	ITEM No	Pipe Con- nection	Ra- diator connec- tion	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
1/2, large Kv	409424	F 1/2"	R 1/2	1,8	10

*\*Non Euro-Sar, valves cannot be changed to thermostatic valves*

**MANUAL VALVE SINGLE REGULATING NON EUROSAR  
HIGH FLOW, STRAIGHT WITH ELBOW, INTERNAL THREAD**

**419GCB**

Non-thermostatisable



Model	ITEM No	Pipe Con- nection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
1/2	419814	F 1/2"	Elbow R 1/2	1,25	5

*\*Non Euro-Sar, valves cannot be changed to thermostatic valves*

**EUROSAR SPECIAL MANUAL VALVES**

**KIT ANGLE SINGLE REGULATING EUROSAR HIGH  
FLOW AND DISTRIBUTOR, ONE-PIPE, FLOOR SUPPLY**

**431**

418EG Manual valve + 439T Chrome pipe + 538 Distributor



Model	ITEM No	Pipe Con- nection	Ra- diator connec- tion	Center to center (mm)	Kvs (m <sup>3</sup> /h at BP 2k)	Pipe orien- tation	Qty
1/2	431014	Male M22	R 1/2	35	1,9	Floor	1

## KIT STRAIGHT WITH ELBOW SINGLE REGULATING EUROSAR HIGH FLOW AND DISTRIBUTOR, ONE-PIPE, FLOOR SUPPLY

**437**

419EGCB Manual valve + 439T Chrome pipe + 538 Distributor



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Kvs (m³/h at BP 2k)	Pipe orientation	Qty
1/2	437004	Male M22	R 1/2	35	1,7	Floor	1

## KIT ANGLE DOUBLE REGULATING EUROSAR HIGH FLOW AND DISTRIBUTOR, ONE-PIPE, FLOOR SUPPLY

**531EMB**

408EG Manual valve + 915E + 835



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Kv range (m³/h)	Pipe orientation	Qty
1/2	531134	Male M22	R 1/2	35	1,9	Floor	1

## KIT ANGLE STRAIGHT WITH ELBOW REGULATING EUROSAR HIGH FLOW AND DISTRIBUTOR, ONE-PIPE, FLOOR SUPPLY

**537EM**

409EGCB Manual valve + 915E + 835



Model	ITEM No	old code	Pipe Connection	Radiator connection	Center to center (mm)	Kv (m³/h at BP 2k)	Pipe orientation	Qty
1/2	M620001001	537124	Male M22	R 1/2	35	1,25	Floor	1

## HORIZONTAL 4 WAY MANUAL LANCE VALVE

**443E**

Floor supply, one-pipe



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Kvs (m³/h at BP 2k)	Qty
1/2	443622	Male M22	R 1/2	35	2	5

## EUROSAR ACCESSORIES

### INTEGRATED RADIATOR MANUAL VALVE

**942**



Model	ITEM No	Radiator connection	Kvs (m³/h at BP 2k)	Qty
1/2	942000	R 1/2	2	10

### SAR HANDWHEEL AND SCREW

**516 - 518**



Model	ITEM No	Screw length	Qty
Square 7mm, EuroSAR > 06/88	M540001001	5 mm	1
Square 7,5mm, EuroSAR < 06/88	M540002001	6 mm	1
Square 8mm, EuroSAR < 06/88	M540003001	6 mm	1

## MANUAL CARTRIDGE, SINGLE REGULATING

**5812**

For 418U, 418E, 419U and 419 Euro-SAR manual valves



Model	ITEM No	Square	Qty
3/4"	812506	7 mm	10
3/8" - 1/2"	812503	7 mm	10

## MANUAL CARTRIDGE, DOUBLE REGULATING

**5813**

For 408U, 408E, 409U and 409 Euro-SAR manual valves



Model	ITEM No	Square	Qty
3/4"	813506	7 mm	10
3/8" - 1/2"	813503	7 mm	10

## SETTING KEY FOR DOUBLE REGULATING EURO -SAR MANUAL VALVE

**135**



ITEM No	Qty
550135	1

## UNIVERSAR MANUAL VALVES

### MANUAL VALVE SINGLE REGULATING UNIVERSAR, ANGLE , INTERNAL THREAD

**448**



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m <sup>2</sup> /h)	Qty
1/2	R448204B	448104	F 1/2"	O-ring R 1/2	0,075-1,8	10
1/2, reduced Kv	R448204BR	448114	F 1/2"	O-ring R 1/2	0,015-0,5	10

### MANUAL VALVE SINGLE REGULATING UNIVERSAR, ANGLE , EXTERNAL THREAD

**448E**



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m <sup>2</sup> /h)	Qty
3/8	R448703B	448203	Male M22	O-ring R 3/8	0,075-1,8	10
1/2	R448704B	448204	Male M22	O-ring R 1/2	0,075-1,8	10
1/2, reduced Kv	R448704BR	448214	Male M22	O-ring R 1/2	0,015-0,5	10

### MANUAL VALVE SINGLE REGULATING UNIVERSAR, STRAIGHT , INTERNAL THREAD

**449**



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m <sup>2</sup> /h)	Qty
1/2	R449204B	449104	F 1/2"	O-ring R 1/2	0,160-1,35	10
1/2, reduced Kv	R449204BR	449114	F 1/2"	O-ring R 1/2	0,015-0,5	10

### MANUAL VALVE SINGLE REGULATING UNIVERSAR, STRAIGHT , EXTERNAL THREAD

**449E**



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m <sup>2</sup> /h)	Qty
3/8	R449703B	449203	Male M22	O-ring R 3/8	0,075-1,8	10
1/2	R449704B	449204	Male M22	O-ring R 1/2	0,075-1,35	10
1/2, reduced Kv	R449704BR	449214	Male M22	O-ring R 1/2	0,015-0,5	10

## MANUAL VALVE SINGLE REGULATING UNIVERSAR, STRAIGHT WITH ELBOW, INTERNAL THREAD

449CB



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m <sup>3</sup> /h)	Qty
1/2	R449204CB	449824	F 1/2"	Elbow R 1/2	0,075-1,35	10

## MANUAL VALVE SINGLE REGULATING REDUCED KV UNIVERSAR, STRAIGHT WITH ELBOW, INTERNAL THREAD

449RCB



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m <sup>3</sup> /h)	Qty
1/2, reduced Kv	R449204CBR	449834	F 1/2"	Elbow R 1/2	0,015-0,5	10

\*Low Kv valves

## MANUAL VALVE SINGLE REGULATING UNIVERSAR, STRAIGHT WITH ELBOW, EXTERNAL THREAD

449ECB



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m <sup>3</sup> /h)	Qty
1/2	R449704CB	449924	Male M22	Elbow R 1/2	0,075-1,35	10

## MANUAL VALVE SINGLE REGULATING REDUCED KV UNIVERSAR, STRAIGHT WITH ELBOW, EXTERNAL THREAD

449ECBR



Model	ITEM No	old code	Pipe Connection	Radiator connection	Kv range (m <sup>3</sup> /h)	Qty
1/2, reduced Kv	R449704CBR	499934	Male M22	Elbow R 1/2	0,015-0,5	10

\*Low Kv valves

## COVER FOR UNIVERSAR RANGE

519



ITEM No	Qty
519000	1

## MANUAL CARTRIDGE FOR 448 & 449 MONDIAL-SAR MANUAL VALVES

5817



Model	ITEM No	Square	Qty
3/8"-1/2"	817503	7 mm	10

## MANUAL CARTRIDGE FOR 448 & 449 UNIVERSAR MANUAL VALVES

5819



Model	ITEM No	Qty
3/8"-1/2"	819504	10

## FOCUS MANUAL VALVES

### MANUAL VALVE SINGLE REGULATING FOCUS, ANGLE, INTERNAL THREAD

498



Model	ITEM No	Pipe Connection	Radiator connection	Kv (m <sup>3</sup> /h at BP 2k)	Qty
3/8	498103	Rp 3/8	R 3/8	1,9	1
1/2	498104	Rp 1/2	R 1/2	1,9	1

**MANUAL VALVE SINGLE REGULATING FOCUS, ANGLE, INTERNAL THREAD**

**498**



Model	ITEM No	Pipe Connection	Radiator connection	Kv (m <sup>3</sup> /h at BP 2k)	Qty
1/2	R498204B	Rp 1/2	O-ring R 1/2	1,9	1

**MANUAL VALVE SINGLE REGULATING FOCUS, STRAIGHT, INTERNAL THREAD**

**499**



Model	ITEM No	Pipe Connection	Radiator connection	Kv (m <sup>3</sup> /h at BP 2k)	Qty
1/2	R499204B	Rp 1/2	O-ring R 1/2	1,9	1

**MANUAL VALVE SINGLE REGULATING FOCUS, STRAIGHT, INTERNAL THREAD**

**499**



Model	ITEM No	Pipe Connection	Radiator connection	Kv (m <sup>3</sup> /h at BP 2k)	Qty
3/8	499103	R 3/8	R 3/8	0,9	1
1/2	499104	R 1/2	R 1/2	1,45	1

**MANUAL VALVE SINGLE REGULATING FOCUS, ANGLE, INTERNAL THREAD**

**4985B**

Focus valve + 2428 lockshield



Model	ITEM No	Pipe Connection	Radiator connection	Kv (m <sup>3</sup> /h at BP 2k)	Qty
3/8	RK498203	R 3/8	O-ring 3/8	1,9	1
1/2	RK498204	R 1/2	O-ring 1/2	1,9	1

**MANUAL VALVE SINGLE REGULATING FOCUS, STRAIGHT, INTERNAL THREAD**

**499J**



Model	ITEM No	Pipe Connection	Radiator connection	Kv (m <sup>3</sup> /h at BP 2k)	Qty
1/2	499604	Rp 1/2	R 1/2	1,9	1

\*One O-ring on the cone

**MANUAL VALVE SINGLE REGULATING FOCUS, ANGLE, EXTERNAL THREAD**

**4985E**

Focus valve + 2428 lockshield



Model	ITEM No	Pipe Connection	Radiator connection	Kv (m <sup>3</sup> /h at BP 2k)	Qty
3/8	RK4987031	Male M22	O-ring 3/8	1,9	1
1/2	RK4987041	Male M22	O-ring 1/2	1,9	1

## STRAIGHT SINGLE REGULATING MONOFOCUS INTERNAL THREAD

**442**

4 Way



Model	ITEM No	Ra- diator con- nection	Kv Open (m <sup>3</sup> /h at BP 2k)	Kv Close (m <sup>3</sup> /h at BP 2k)	Qty
M22	442622	R 1/2	2	1,6	1
M24	442624	R 1/2	2	1,6	1

## STRAIGHT SINGLE REGULATING FOCUS INTERNAL THREAD

**442B**

4 Way



Model	ITEM No	Ra- diator con- nection	Kv Open (m <sup>3</sup> /h at BP 2k)	Kv Close (m <sup>3</sup> /h at BP 2k)	Qty
M22	442656	R 1/2	2	1,6	1

## MANUAL DECORATIVE VALVES SETS

### MANUAL RADIATOR VALVE DECORATIVE SET, ANGLE

**F418**

Manual valve + lockshield



Model	ITEM No	Pipe Con- nection	Ra- diator con- nection	Kv (m <sup>3</sup> /h at BP 2k)	Colour	Qty
Chrome	F418404	Male 3/4"E	R 1/2	0,08-1,55	Chrome	1
Satine	F418504	Male 3/4"E	R 1/2	0,08-1,55	Satine	1
White	F418304	Male 3/4"E	R 1/2	0,08-1,55	White	1

## MANUAL RADIATOR VALVE DECORATIVE SET, STRAIGHT

**F419**

Manual valve + lockshield



Model	ITEM No	Pipe Con- nection	Ra- diator con- nection	Kv (m <sup>3</sup> /h at BP 2k)	Colour	Qty
Chrome	F419404	Male 3/4"E	R 1/2	0,09-1,1	Chrome	1
Satine	F419504	Male 3/4"E	R 1/2	0,09-1,1	Satine	1
White	F419304	Male 3/4"E	R 1/2	0,09-1,1	White	1

### MANUAL RADIATOR VALVE DECORATIVE KNOB SET, ANGLE

**S418**

Manual valve + lockshield



Model	ITEM No	Pipe Con- nection	Ra- diator con- nection	Kv (m <sup>3</sup> /h at BP 2k)	Colour	Qty
Chrome	S418404	Male 3/4"E	R 1/2	0,08-1,55	Chrome	1
Satine	S418504	Male 3/4"E	R 1/2	0,08-1,55	Satine	1
White	S418304	Male 3/4"E	R 1/2	0,08-1,55	White	1

### MANUAL RADIATOR VALVE DECORATIVE KNOB SET, STRAIGHT

**S419**

Manual valve + lockshield



Model	ITEM No	Pipe Con- nection	Ra- diator con- nection	Kv (m <sup>3</sup> /h at BP 2k)	Colour	Qty
Chrome	S419404	Male 3/4"E	R 1/2	0,09-1,1	Chrome	1
Satine	S419504	Male 3/4"E	R 1/2	0,09/1,1	Satine	1
White	S419304	Male 3/4"E	R 1/2	0,09-1,1	White	1

## MANUAL PANEL ASSEMBLIES

### MANUAL VALVES SET, SLIDE FITTING

#### C557PG

For simple panel radiators



Model	ITEM No	Qty
1/2"-12	557212N	1

### MANUAL VALVES SET, PRESS FITTING

#### C557PS

For simple panel radiators



Model	ITEM No	Qty
1/2"-12	557112N	1

### MANUAL VALVES SET, SARFIT FAST CONNECTION FITTING

#### SF557C

For simple panel radiators



Model	ITEM No	Qty
1/2"-12	557412	1

### MANUAL VALVES SET, PRESS FITTING

#### 557PS

For double or triple panel radiators



Model	ITEM No	Qty
1/2"-12	557012N	1
1/2"-16	557016N	1

### MANUAL VALVES SET, SARFIT FITTING

#### SF557L

For double or triple panel radiators



Model	ITEM No	Qty
1/2"-12	557312	1

### MANUAL VALVES SET, SLIDE FITTING

#### 557PG

For double or triple panel radiators



Model	ITEM No	Qty
1/2"-12	557222N	1

### M22 COMPRESSION FITTING WITH SOFT RING

#### 835S

Threaded, nickel plated



Model	ITEM No	Qty
M22-12	835712	2
M22-16	835716	2

### MECHANICAL FITTING M22

#### 835P

Threaded, nickel plated

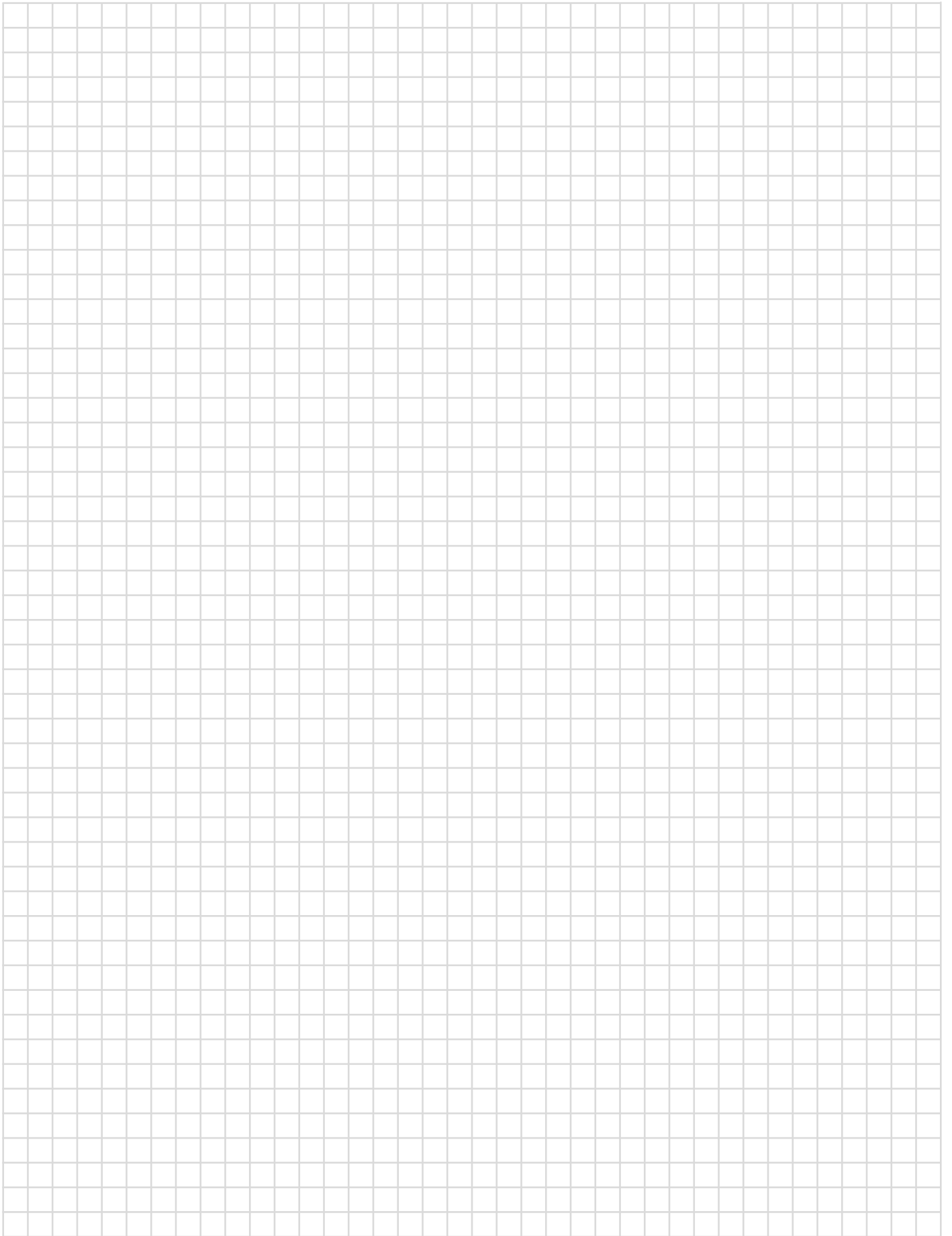


Model	ITEM No	Qty
M22-12 x 1,1	835221	1
M22-16 x 1,5	835261	1

# NOTES

A large grid of graph paper for taking notes, consisting of 20 columns and 30 rows of small squares.







# MANUAL RADIATOR VALVES

## RANGE OVERVIEW

UniverSar



EuroSar



Focus



### Focus

Ref	Model		Setting		Dimension and kV				Cartridge		Fitting		Socket		Compatible with			
	Angle	Straight	Reversed angle	Straight with elbow	Simple setting	Double setting with a stroke limiter	Double setting without a stroke limiter	3/8"	1/2"	3/4"	1"	Standard	Thermostatic	Female		Male	Conical	O-ring Tightness
498	x				x			1.6	1.6			/	/	1		x		1 : 834/834B 2 : 824RMC 3 : 835/835P/839/835S
498J	x				x				1.6			/	/	1			x	
499		x			x			1.050	1.350			/	/	1		x		
499J		x			x				1.350			/	/	1		x		

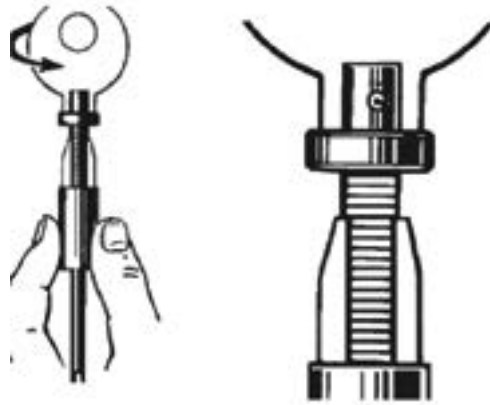
### UniverSar

448	x					x			0.16-1.8			5819	5814	1		x		1 : 834/834B 2 : 824RMC 3 : 835/835P/839/835S
448E	x				x		0.16-1.8	0.16-1.8				5819	5814		3		x	
448ER	x					x		0.015-0.5							3		x	
449E		x				x	0.16-1.35	0.16-1.35				5819	5814		3		x	
449R		x				x		0.015-0.5						1			x	
449RCB				x	x			0.015-0.5						1			x	
449ECB			x	x	x			0.016-1.35				5819	5814		3		x	
449CB			x			x		1.35				5819	5814	1			x	
449		x				x		0.16-1.8				5819	5814	1			x	
449ERCB			x	x	x			0.015-0.5							3		x	
449ER		x				x		0.015/0.5							3		x	

EuroSar

Ref	Model				Setting	Dimension and kV				Cartridge		Fitting		Socket		Compatible with
	Angle	Straight	Reversed angle	Straight with elbow		3/8"	1/2"	3/4"	1"	Standard	Thermostatic	Female	Male	Conical	O-ring Tightness	
418	x			x					8.5	/	/	1		x		1 : 834/834B 2 : 824RMC 3 : 835/835P/839/835S
418U	x			x	1.7	1.9	3.3			5812		1		x		
418UJT	x			x	1.7	1.9				5812		1			x	
418E	x			x	1.7	1.9				5812		3		x		
418EJT	x			x	1.7	1.9				5812		3			x	
418Q	x			x			3.3			/	/	1		x		
418G	x			x			2.2			/	/	2		x		
418GJT	x			x			2.2			/	/	2			x	
408U	x			x	1.7	1.9	3.3			5813	5815	1		x	x	
408	x			x					8.5	/		1		x		
408JT	x			x	1.7	1.9			8.5	/		1			x	
408E	x			x			1.9			5813	5815		3	x		
408EJT	x			x			1.9			5813	5815		3		x	
408Q	x			x			3.30					1		x		
419		x		x					6.5			1		x		
419U		x		x	1	1.25	2.5			5812		1		x		
419UJT		x		x	1	1.25				5812		1			x	
419E		x		x			1.25			5812			3	x		
419EJT		x		x	1	1.25				5812			3		x	
419UCB			x	x			1.25			5812		1		x		
419GCB			x	x			1.7			/		2		x		
409		x		x					6.5	/		1		x		
409U		x		x	1	1.25	2.5			5813	5815	1		x		
409UJT		x		x	1	1.25	2.5			5813		1			x	
409E		x		x			1.25			5813	5815		3	x		
409EJT		x		x			1.25			5813	5815		3		x	
409Q		x		x			2.50					1		x		
409UCB			x	x			1.25			5813	5815	1		x		
409QCB			x	x			2.5					1		x		
409ECB			x	x			1.25			5813	5815		3	x		
419GCB			x	x			1.70			5812		2		x		
508EJT			x	x			1.25				5815		3		x	

## EUROSAR KV SETTING



The 135 key is used for setting.

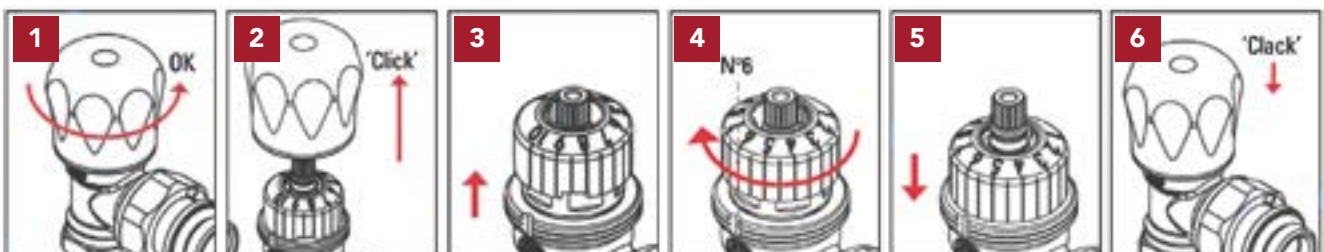
Start by placing the vernier in contact with the thrust washer. Then unscrew the key several turns along to the desired setting.

Do the contrary for UniverSAR Kv setting.

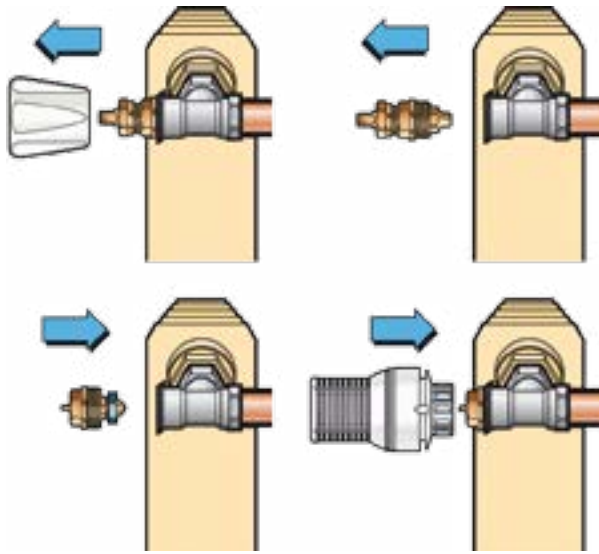


1. Unscrew and remove the handwheel.
2. Use the key (ref. 135). Close completely and then open by the required number of turns, as specified in the installation specifications.
3. Screw the handwheel back onto the valve body.

## UNIVERSAR KV SETTING



## HOW TO UPGRADE FROM MANUAL TO THERMOSTATIC



With the EURO SAR you can easily transform a manual valve into a thermostatic valve, using Comap tool 5821. No disassembly of the body or draining of the installation is needed.

The only exception is one-inch valves. These cannot be upgraded to thermostatic, but the manual cartridge can be replaced without draining the system.

## OUTLET VALVES

The basic function of the outlet is to connect and isolate the radiator. In the real world of a project, this can prove to be more difficult than expected. Comap provides solutions to facilitate the installer's job.



### APPLICATIONS

**H modules** are used to connect radiators with integrated valves to the circuit. In conjunction with single regulating valves, Comap provides lockshields with accurate Kv setting capability. Setting the **lockshield** is crucial to balance the installation, and ensure the radiator valve works at a good authority. **Distributors** are a fast and elegant way of connecting the radiators to the supply.

### TECHNICAL CHARACTERISTICS

- Maximum working pressure: 10 bar
- Maximum differential pressure: 0.6 bar
- Maximum working temperature: 120°C

### BENEFITS

- Accurate position setting for efficient commissioning.
- H-modules are compact for better integration.
- The lockshield's memory option holds the position even after radiator replacement.
- The distributors provide a neat, professional finish.
- The universal distributor provides an all-in-one solution for 1-pipe or 2-pipe, with isolation and by-pass.
- Multiple connection means to fit installation preferences.

### FEATURES

- 1-pipe or 2-pipe.
- Various connection modes to the radiators (metal/metal, O-ring).
- Multiple connections to the pipe:
  - Male or female thread.
  - Solder copper.
  - Sarfit for multilayer.
- Shapes: angle or straight.
- Sizes: 3/8" to 3/4".

## LOCKSHIELD VALVES

### ANGLE LOCKSHIELD VALVE, INTERNAL THREAD

**2428**

Isolation & Setting



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
3/8	428203	F 3/8"	R 3/8"	1,55	10
1/2	428204	F 1/2"	R 1/2"	2,2	10
3/4	428206	F 3/4"	R 3/4"	4,2	5
1"	428008	F 1"	1"G	8	1

### ANGLE LOCKSHIELD VALVE, INTERNAL THREAD

**2428JT**

Isolation & Setting



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
3/8	428203B	F 3/8"	O-ring R 3/8"	1,55	10
1/2	428204B	F 1/2"	O-ring R 1/2"	2,2	10

### ANGLE LOCKSHIELD VALVE, INTERNAL THREAD

**3428**

Isolation, Setting & Memory



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
3/8	428303	F 3/8"	R 3/8"	1,55	5
1/2	428304	F 1/2"	R 1/2"	2,2	5
3/4	428306	F 3/4"	R 3/4"	4,2	5

### ANGLE LOCKSHIELD VALVE, INTERNAL THREAD

**4468**

Isolation, Setting, Memory & Drain off



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
3/8	427803	F 3/8"	R 3/8"	2	10
1/2	427804	F 1/2"	R 1/2"	2,2	5
3/4	427806	F 3/4"	R 3/4"	2,2	5

### ANGLE LOCKSHIELD VALVE, EXTERNAL THREAD

**2428E**

Isolation & Setting



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
3/8	428713	Male M22	R 3/8"	1,55	10
1/2	428704	Male M22	R 1/2"	2,2	10

### ANGLE LOCKSHIELD VALVE, EXTERNAL THREAD

**3428E**

Isolation, Setting & Memory



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
1/2	428804	Male M22	R 1/2"	2,2	10

### ANGLE LOCKSHIELD VALVE, EXTERNAL THREAD, O'RING

**2428EJ**

Isolation & Setting



Model	ITEM No	Pipe Con- nection	Ra- diator connec- tion	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
3/8	428713B	Male M22	o-ring	1,55	10
1/2	428704B	Male M22	o-ring	2,2	10

### ANGLE LOCKSHIELD VALVE, FOR SOLDERED COPPER

**2428CU**

Isolation & Setting



Model	ITEM No	Pipe Con- nection	Ra- diator connec- tion	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
1/2	428254	CU 15mm	R 1/2	2,2	5

### ANGLE LOCKSHIELD VALVE, FOR SOLDERED COPPER

**3428CU**

Isolation, Setting & Memory



Model	ITEM No	Pipe Con- nection	Ra- diator connec- tion	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
1/2	428644	CU 14mm	R 1/2	2,2	5

### STRAIGHT LOCKSHIELD VALVE, INTERNAL THREAD

**2429**

Isolation & Setting



Model	ITEM No	Pipe Con- nection	Ra- diator connec- tion	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
3/8	429203	F 3/8"	R 3/8	0,9	10
1/2	429204	F 1/2"	R 1/2	1,8	10
3/4	429206	F 3/4"	R 3/4	3	5
1"	429008	F 1"	1"G	5,5	1

### STRAIGHT LOCKSHIELD VALVE, INTERNAL THREAD, O'RING

**2429J**

Isolation & Setting



Model	ITEM No	Pipe Con- nection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
3/8	429203B	F 3/8"	O-ring R 3/8"	0,9	10
1/2	429204B	F 1/2"	O-ring R 1/2"	1,8	10

### STRAIGHT LOCKSHIELD VALVE, INTERNAL THREAD

**3429**

Isolation, Setting & Memory



Model	ITEM No	Pipe Con- nection	Ra- diator connec- tion	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
3/8	429303	F 3/8"	R 3/8	0,9	10
1/2	429304	F 1/2"	R 1/2	1,8	5
3/4	429306	F 3/4"	R 3/4	3	5



## STRAIGHT LOCKSHIELD VALVE, INTERNAL THREAD

**4469**

Isolation, Setting, Memory & Drain off



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
3/8	427903	F 3/8"	R 3/8	1	10
1/2	427904	F 1/2"	R 1/2	1,8	5
3/4	427906	F 3/4"	R 3/4	2,2	5

## STRAIGHT LOCKSHIELD VALVE, FOR SOLDERED COPPER

**2429CU**

Isolation & Setting



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
15 mm	429254	CU 15mm	R 1/2	1,8	5

## STRAIGHT LOCKSHIELD VALVE, FOR SOLDERED COPPER

**3429CU**

Isolation, Setting & Memory



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
14 mm	429644	CU 14mm	R 1/2	1,8	10

## STRAIGHT LOCKSHIELD VALVE, EXTERNAL THREAD

**2429E**

Isolation & Setting



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
Eurocone	429714	3/4" Euroconus	R 1/2	1,8	10
M22	429704	Male M22	R 1/2	1,8	10

## STRAIGHT LOCKSHIELD VALVE, EXTERNAL THREAD

**3429E**

Isolation, Setting & Memory



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
1/2	429804	Male M22	R 1/2	1,8	10

## STRAIGHT LOCKSHIELD VALVE, EXTERNAL THREAD

**2429EJT**

Isolation & Setting



Model	ITEM No	Pipe Connection	Radiator connection	Kvs (m <sup>3</sup> /h at BP 2k)	Qty
1/2	429704B	Male M22	O-ring R 1/2	1,8	5

## UNIONS

### ANGLE MALE-FEMALE UNION, BRONZE

**3107U**



Model	ITEM No	Qty
3/8"	490103	25
1/2"	490104	1
3/4"	490106	1
1"	490008	1
1 1/4"	490010	1

### ANGLE MALE-FEMALE UNION, NICKEL PLATED BRASS

**3107UN**



Model	ITEM No	Qty
3/8"	490203	25
1/2"	490204	20
3/4"	490206	10

### STRAIGHT MALE-FEMALE UNION, BRONZE

**3108U**



Model	ITEM No	Qty
3/8"	491103	25
1/2"	491104	20
3/4"	491106	10
1"	491008	10
1 1/4"	491010	10

### STRAIGHT MALE-FEMALE UNION, NICKEL PLATED BRASS

**3108UN**



Model	ITEM No	Qty
3/8"	491203	1
1/2"	491204	1
3/4"	491206	10

## DISTRIBUTORS - STANDARD

### ONE-PIPE, STRAIGHT DISTRIBUTOR

**338**

Without isolation



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Qty
M22x1,5	438322	M22x1,5	R 1/2	35	5

### ONE-PIPE, STRAIGHT DISTRIBUTOR

**D538**

With isolation



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Qty
M 3/4" euroconus	538406	M 3/4" euroconus	R 1/2	50	5

## ONE-PIPE, STRAIGHT DISTRIBUTOR

**538A**

With isolation



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Qty
Male 1/2"	438554	Male 1/2"	R 1/2	35	5

## ONE-PIPE, ANGLE DISTRIBUTOR

**539**

With isolation



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Qty
M22 x 1,5	539422	M22 x 1,5	R 1/2	35	5

## ONE-PIPE, STRAIGHT DISTRIBUTOR

**538CI**

With isolation



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Qty
Male M22 x 1,5	538604	Male M22 x 1,5	R 1/2	35	5

## TWO-PIPE, STRAIGHT DISTRIBUTOR

**715**

Without isolation



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Qty
Male M22	438722	Male M22	R 1/2	35	5

## ONE-PIPE, STRAIGHT DISTRIBUTOR

**538E**

With isolation



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Qty
Male M22 x 1,5	438522	Male M22 x 1,5	O-ring R 1/2	35	5

## TWO-PIPE, STRAIGHT DISTRIBUTOR

**715JT**

Without isolation



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Qty
Male M22	438722B	Male M22	O-ring R 1/2	35	5

## ONE-PIPE, STRAIGHT DISTRIBUTOR

**538EJT**

With isolation



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Qty
Male M22 x 1,5	438522B	Male M22 x 1,5	O-ring R 1/2	35	5

## TWO-PIPE, STRAIGHT DISTRIBUTOR

**D915**

With isolation and memory



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Qty
3/4"euroconus	915406	3/4"euroconus	R 1/2	50	5

**TWO-PIPE, STRAIGHT DISTRIBUTOR****915A**

With isolation and memory



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Qty
Male 1/2"	438954	Male 1/2"	R 1/2	35	5

**TWO-PIPE, STRAIGHT DISTRIBUTOR****915E**

With isolation and memory



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Qty
M22x1,5	438922	M22x1,5	R 1/2	35	5

**TWO-PIPE, STRAIGHT DISTRIBUTOR****915EJT**

With isolation and memory



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Qty
M22x1,5	438922B	M22x1,5	O-ring R 1/2	35	5

**TWO-PIPE, ANGLE DISTRIBUTOR****916E**

With isolation and memory



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Qty
M22x1,5	916422	M22x1,5	R 1/2	35	5

**TWO-PIPE, ANGLE DISTRIBUTOR****916EJT**

With isolation and memory



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Qty
M22x1,6	916422B	M22x1,6	O-ring R 1/2	35	5

**DISTRIBUTORS - UNIVERSAL****TWO-PIPE, UNIVERSAL DISTRIBUTOR****638**

With isolation and memory



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Qty
Male M22	638022	Male M22	R 1/2	35	5
Male M22	6380224	Male M22	R 1/2	40	5

**TWO-PIPE, UNIVERSAL DISTRIBUTOR****638D**

With isolation and memory



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Qty
Male 3/4" euroconus	638034	Male 3/4" euroconus	R 1/2	50	5

## ACCESSORIES

### NON-SEALABLE CAP FOR LOCKSHIELD

**460N**



Model	ITEM No	Qty
3/4"	560106	1
3/8"-1/2"	560143	1

### NON-SEALABLE CAP

**461N**



Model	ITEM No	Qty
3/8"-1/2"-3/4"	561103	50

### DRAINING ADAPTER

**460C**

for lockshields, distributors & 4 way-valves



ITEM No	Qty
560200	1

## H - MODULES FOR PANEL RADIATORS

### STRAIGHT HYDRAULIC MODULE, ONE-PIPE

**970**

With ball-valve and by pass



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Qty
Male M22	970100-AF	M22	3/4" EUR	50	10

### STRAIGHT HYDRAULIC MODULE, ONE-PIPE

**970A**

With ball-valve and by pass



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Shape	Qty
Female 3/4"Euroconus	970204-AF	3/4" EUR	3/4" EUR	50	Straight	5

### STRAIGHT HYDRAULIC MODULE, ONE-PIPE

**970E**

With ball-valve and by pass



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Shape	Qty
Male 3/4"Euroconus	970206-AF	3/4" EUR	3/4" EUR	50	Straight	5

**ANGLE HYDRAULIC MODULE, ONE-PIPE****975**

With ball-valve and by pass



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Qty
Male M22	975100-AF	M22	3/4" EUR	50	10

**ANGLE HYDRAULIC MODULE, ONE-PIPE****975A**

With ball-valve and by pass



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Shape	Qty
Female 3/4" Euroconus	975204-AF	3/4" EUR	3/4" EUR	50	Angle	5

**ANGLE HYDRAULIC MODULE, ONE-PIPE****975E**

With ball-valve and by pass



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Shape	Qty
Male 3/4" Euroconus	975206-AF	3/4" EUR	3/4" EUR	50	Angle	5

**ANGLE HYDRAULIC MODULE, TWO-PIPE****965**

With ball-valve



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Shape	Qty
Male M22	965100-AF	M22	3/4" EUR	50	Angle	10

**STRAIGHT HYDRAULIC MODULE, TWO-PIPE****960**

With ball-valve



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Shape	Qty
Male M22	960100-AF	M22	3/4" EUR	50	Straight	10

**STRAIGHT HYDRAULIC MODULE, TWO-PIPE****960A**

With ball-valve



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Shape	Qty
Female 3/4" Euroconus	960204-AF	3/4" EUR	F1/2"-3/4"E	50	Straight	5

**STRAIGHT HYDRAULIC MODULE, TWO-PIPE****960E**

With ball-valve



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Shape	Qty
Male 3/4" Euroconus	960206-AF	3/4" EUR	M3/4"-3/4"E	50	Straight	5

**ANGLE HYDRAULIC MODULE, TWO-PIPE****965A**

With ball-valve



Model	ITEM No	Radiator connection	Center to center (mm)	Shape	Qty
Female 3/4" Euroconus	965204-AF	F1/2"-3/4"E	50	Angle	5

## ANGLE HYDRAULIC MODULE, TWO-PIPE

### 965E

With ball-valve



Model	ITEM No	Radiator connection	Center to center (mm)	Shape	Qty
Male 3/4" Euroconus	965206-AF	M3/4"-3/4"E	50	Angle	5

## ANGLE HYDRAULIC MODULE, TWO-PIPE

### SFS965

With ball-valve



Model	ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Qty
PUSH FIT connection for multilayer pipe	5965284	16x2	3/4"	50	10

## H - MODULES - ACCESSORIES

### COVER FOR ANGLE HYDRAULIC MODULE

#### COVER A

For 3/4 Euroconus H-Module



Model	ITEM No	Colour	Shape	Qty
Chrome	F10096COM	Chrome	Angle	5
White	F10094COM	White	Angle	5

### COVER FOR STRAIGHT HYDRAULIC MODULE

#### COVER S

For 3/4 Euroconus H-Module



Model	ITEM No	Colour	Shape	Qty
Chrome	F10095COM	Chrome	Straight	5
White	F10093COM	White	Straight	5

## ELEGANT COVERS FOR H-MODULES

### COVERS



Model	ITEM No	Pipe Connection	Center to center (mm)	Shape	Outlet	Qty
Chrome	F12037COM	-	-	Angle	Left	5
White	F12036COM	-	-	Angle	Left	5
Chrome	F12035COM	-	-	Angle	Right	5
White	F12034COM	-	-	Angle	Right	5
Chrome	F44234COM	10 to 20 mm	50	Flat	-	10
Chrome	F44224COM	10 to 20 mm	50	High	-	10
Chrome	F44032COM	DN15 mm	-	Flat	-	10

## CENTRAL POINT THERMOSTATIC VALVE

### CENTRAL POINT THERMOSTATIC VALVE, M30, FIXED KV

#### VARIOCON

Versatile mounting, right or left, wall or floor supply



ITEM No	Valve connection	Pipe Connection	Radiator connection	Center to center (mm)	Qty
F12020COM	M30x1,5	3/4" Euroconus	F 1/2"	50	1
F12021COM	M30x1,5	3/4" Euroconus	M 3/4"	50	1

## H - MODULES FOR PANEL RADIATORS- SPECIAL

### ADJUSTABLE STRAIGHT HYDRAULIC MODULE, TWO-PIPE

#### DT1

Adjustable height (up to 25mm), Female connection



ITEM No	Radiator connection	Center to center (mm)	Shape	Qty
F10080COM	F1/2"-3/4"E	50	Straight	5

**ADJUSTABLE STRAIGHT HYDRAULIC MODULE, TWO-PIPE****DT2**

Adjustable height (up to 25mm), Male connection



ITEM No	Radiator connection	Center to center (mm)	Shape	Qty
F10084COM	M3/4"-3/4"E	50	Straight	5

**ADJUSTABLE ANGLE HYDRAULIC MODULE, TWO-PIPE****ET1**

Adjustable height (up to 25mm), Female connection



ITEM No	Radiator connection	Center to center (mm)	Shape	Qty
F10082COM	F1/2"-3/4"E	50	Angle	5

**ADJUSTABLE ANGLE HYDRAULIC MODULE, TWO-PIPE****ET2**

Adjustable height (up to 25mm), Male connection



ITEM No	Radiator connection	Center to center (mm)	Shape	Qty
F10086COM	M3/4"-3/4"E	50	Angle	5

**ADJUSTABLE ANGLE HYDRAULIC MODULE, TWO-PIPE****EVT1**

Adjustable height (up to 25mm) and depth (up to 13mm), Female connection



ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Shape	Qty
F13443COM	3/4"E-DN12	F1/2"	50	Angle	5
F13444COM	3/4"E-DN15	F1/2"	50	Angle	5

**ADJUSTABLE ANGLE HYDRAULIC MODULE, TWO-PIPE****EVT2**

Adjustable height (up to 25mm) and depth (up to 13mm), Male connection



ITEM No	Pipe Connection	Radiator connection	Center to center (mm)	Shape	Qty
F13463COM	3/4"E-DN12	M3/4"	50	Angle	5
F13464COM	3/4"E-DN15	M3/4"	50	Angle	5

**REVERSED STRAIGHT HYDRAULIC MODULE, TWO-PIPE****D1**

Reversed connections with shut-off



ITEM No	Radiator connection	Center to center (mm)	Shape	Qty
F10076COM	F1/2"-3/2"E	50	Straight	5

**ANGLE HYDRAULIC MODULE, TWO-PIPE****E1**

Reversed connections with shut-off



ITEM No	Radiator connection	Center to center (mm)	Shape	Qty
F10077COM	F1/2"-3/4"E	50	Angle	5

**STRAIGHT HYDRAULIC MODULE, TWO-PIPE****D2**

Reversed connections with shut-off



ITEM No	Radiator connection	Center to center (mm)	Shape	Qty
F10078COM	M3/4"-3/4"E	50	Straight	5



## ANGLE HYDRAULIC MODULE, TWO-PIPE

### E2

Reversed connections with shut-off



ITEM No	Radiator connection	Center to center (mm)	Shape	Qty
F10079COM	M3/4"-3/4"E	50	Angle	5

## ORIENTABLE HYDRAULIC MODULE, ONE- OR TWO-PIPE

### U2

Versatile mounting, right or left, wall or floor supply



ITEM No	Pipe Connection	Center to center (mm)	Shape	Qty
F10027COM	M3/4"-3/4"E	50	Adjustable	5

## ORIENTABLE HYDRAULIC MODULE, TWO-PIPE

### FE1

Versatile mounting, right or left, wall or floor supply



ITEM No	Radiator connection	Center to center (mm)	Shape	Qty
F12003COM	F1/2"-3/4"E	50	Adjustable	5

## ORIENTABLE HYDRAULIC MODULE, TWO-PIPE

### FE2

Versatile mounting, right or left, wall or floor supply



ITEM No	Radiator connection	Center to center (mm)	Shape	Qty
F12004COM	M3/4"-3/4"E	50	Adjustable	5

## ORIENTABLE HYDRAULIC MODULE, ONE- OR TWO-PIPE

### U1

Versatile mounting, right or left, wall or floor supply



ITEM No	Pipe Connection	Center to center (mm)	Shape	Qty
F10026COM	F1/2"-3/4"E	50	Adjustable	5

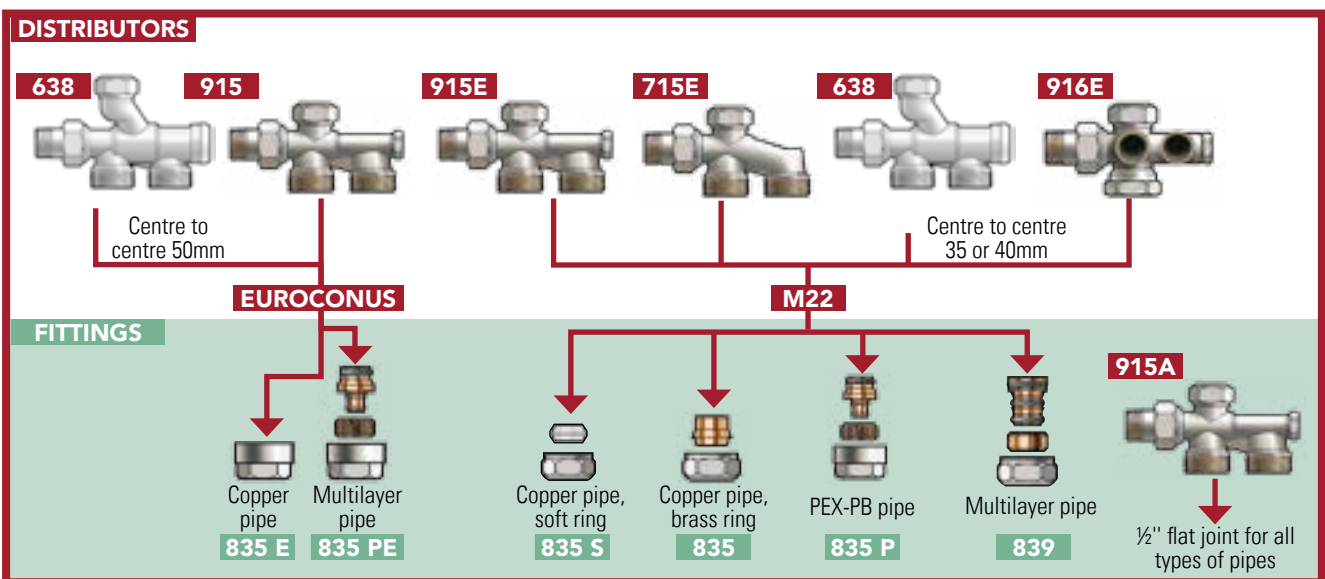


# DISTRIBUTORS

## RANGE OVERVIEW

One-pipe distributors								
Reference	Model		Functions		Bypass	Fitting		
	Straight	Angle	No sealing	Sealing		Distributors	Valve	Pipe
338E	x		x		50%	823RMC	824RMC	835/835P/839/835S
538E	x			x	50%			
539E		x		x	50%			
538CI	x			x	50%			
538	x			x	50%			
Two-pipe distributors								
Reference	Model		Functions		Bypass	Fitting		
	Straight	Angle	No sealing	Sealing		Distributors	Valve	Pipe
715E	x		x			823RMC	824RMC	835/835P/839/835S
915E	x			x				
916E		x		x				
915	x							

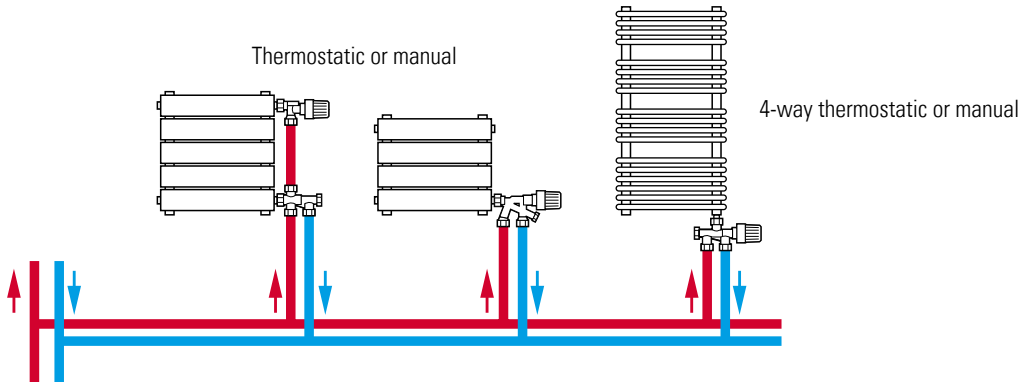
Reference: 638	Model		Functions		Bypass	Fitting		
	Straight	Angle	No sealing	Sealing		Distributors	Valve	Pipe
One-pipe distributor	x	x		x	0-100%	823RMC	824RMC	
Two-pipe distributor	x	x		x	x	823RMC	824RMC	835/835P/839/835S



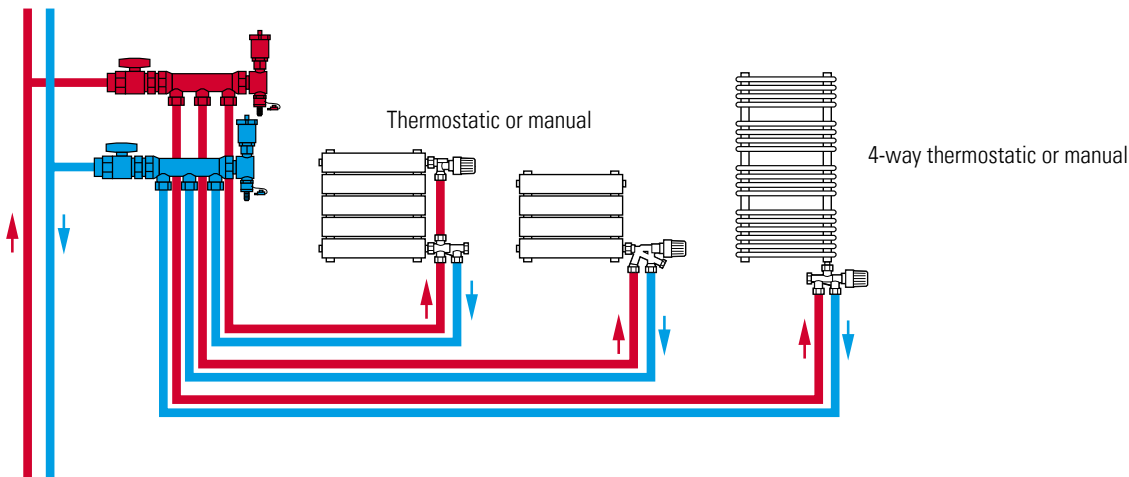
## INSTALLATION

# Two-pipe installation

### Classic distribution



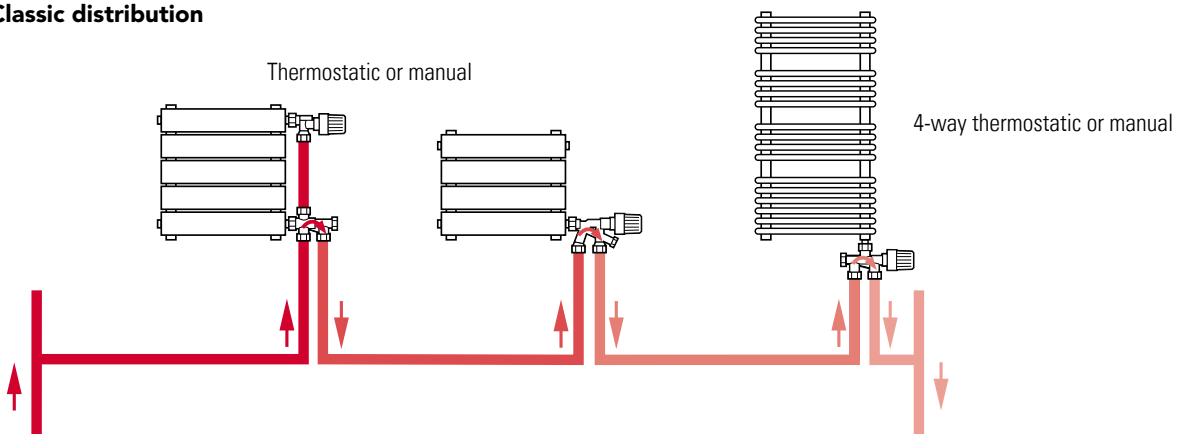
### Centralised distribution



Please respect the arrows on the body when connecting the distributor.

# One-pipe installation

### Classic distribution



Please respect the arrows on the body when connecting the distributor.

The heat supply is always on the side of the taper sleeve and the return on the outside of the distributor. There are two exceptions to this rule:

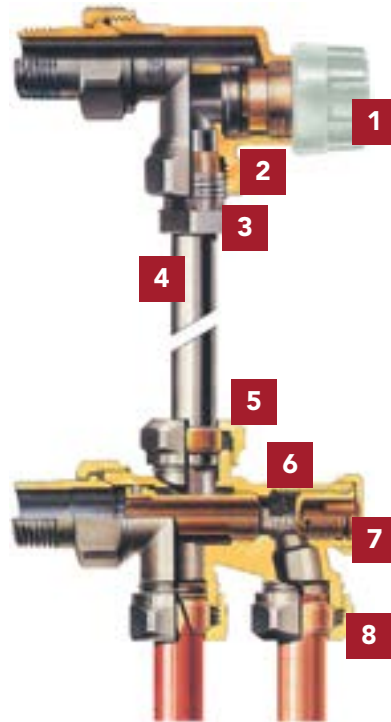
- The one-pipe distributor ref. 538CI which has inverted flow direction
- The universal one-pipe distributor ref. 638

The pipe ref 439T is supplied separately. With a length of 1.1m for the liaison tube it is possible to connect:

- 2 radiators with a centre to centre of 600mm.
- 3 radiators with a centre to centre of 400mm.

## SETTING

### Setting: two-pipe

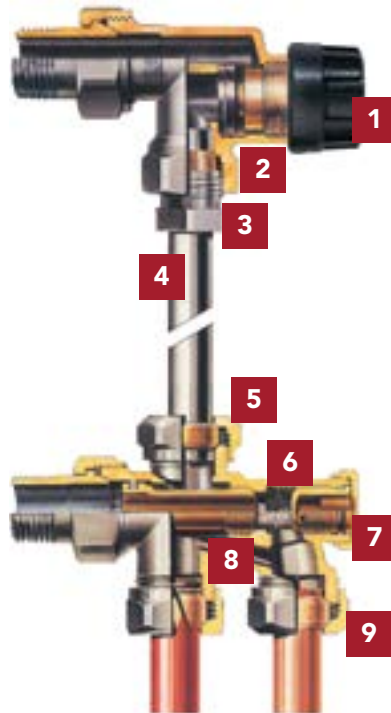


- 1 Stem protection
- 2 TRV
- 3 Pipe fitting

- 4 Connecting pipe
- 5 Pipe fitting (823RMC)
- 6 Two-pipe distributor

- 7 Isolation and balancing spindle, with memory. The setting is performed as for the lockshields.
- 8 Main pipe fitting

### Setting: one-pipe



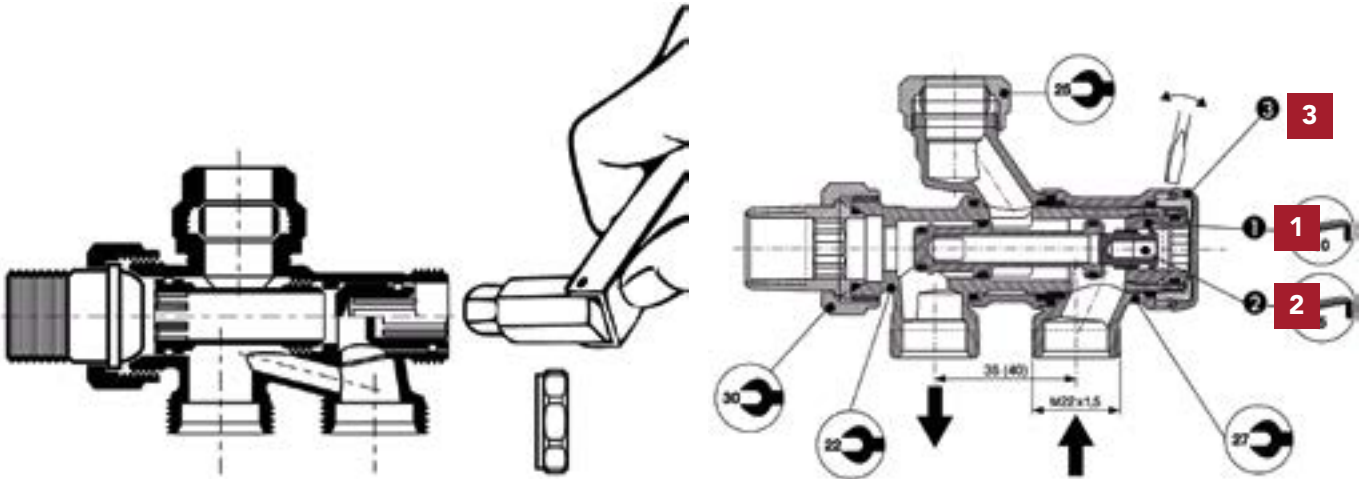
- 1 Stem protection
- 2 TRV
- 3 Pipe fitting
- 4 Connecting pipe
- 5 Pipe fitting (823RMC)

- 6 Two-pipe distributor
- 7 Isolation and balancing spindle, with memory. The setting is performed as for the lockshields.

- 8 Calibrated bypass
- 9 Main pipe fitting

## Universal distributor

For setting of two-pipe distributors use the same procedure as for lockshield. Use 334 key.



1 Open wide.

2 Close bypass valve.

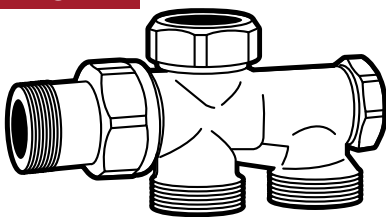
3 Remove the white cap

915 JT

D 915

915 E

915 A

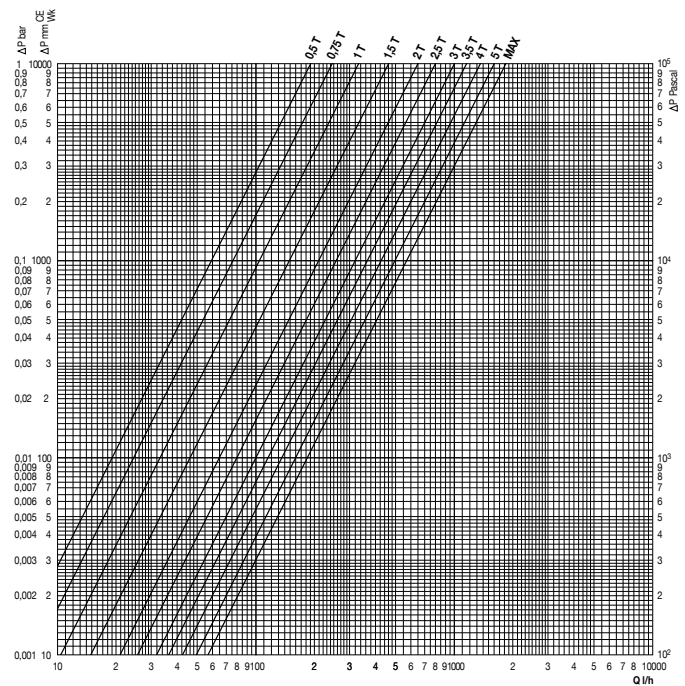
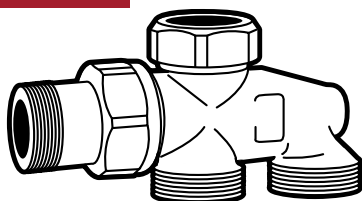


1/2"

1T = 1mm

715 E

715 JT

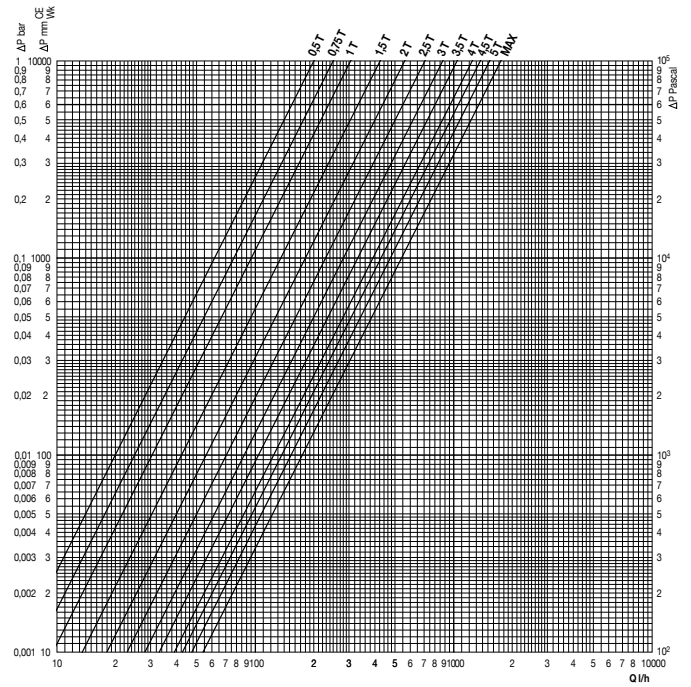
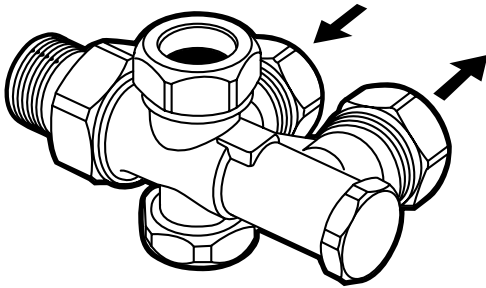


916E

916JT

1/2"

1T = 1mm



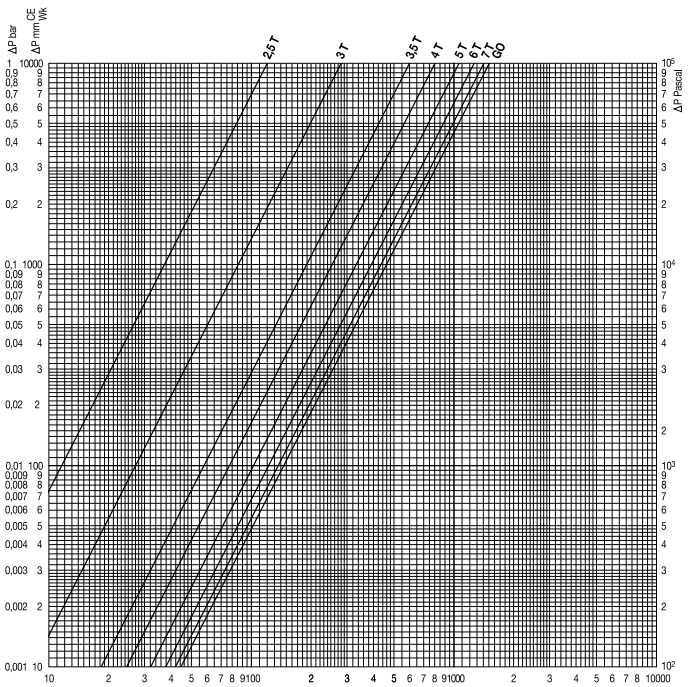
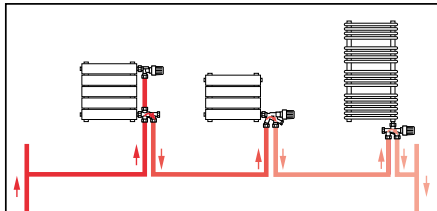
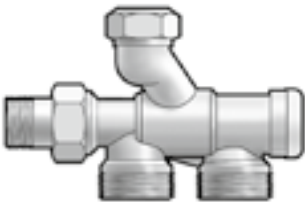
638

638 R

638 D

1/2"

1T = 1mm



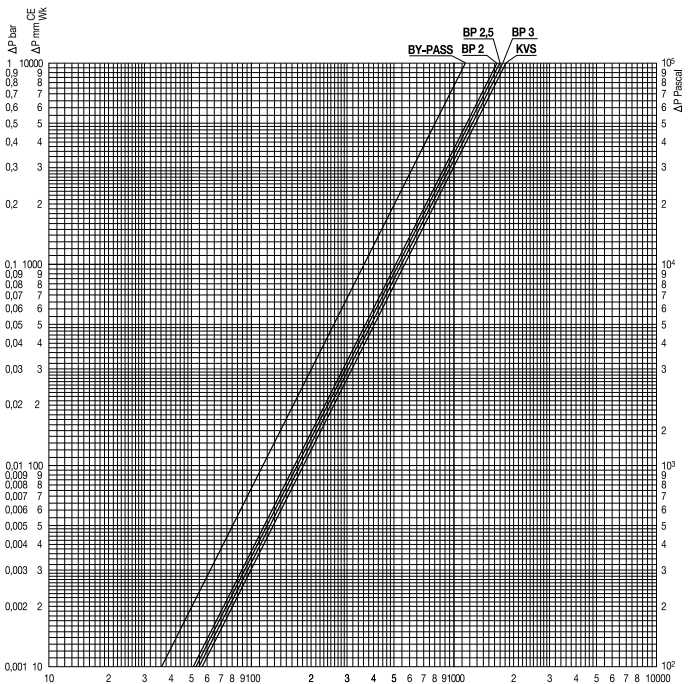
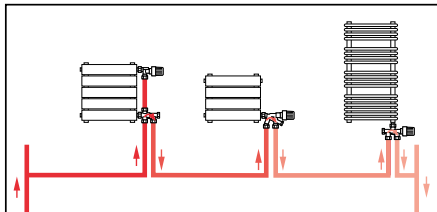
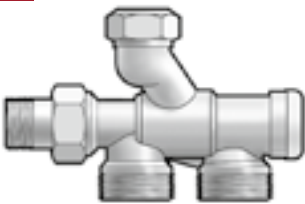
638

638 R

638 D

1/2"

1T = 1mm



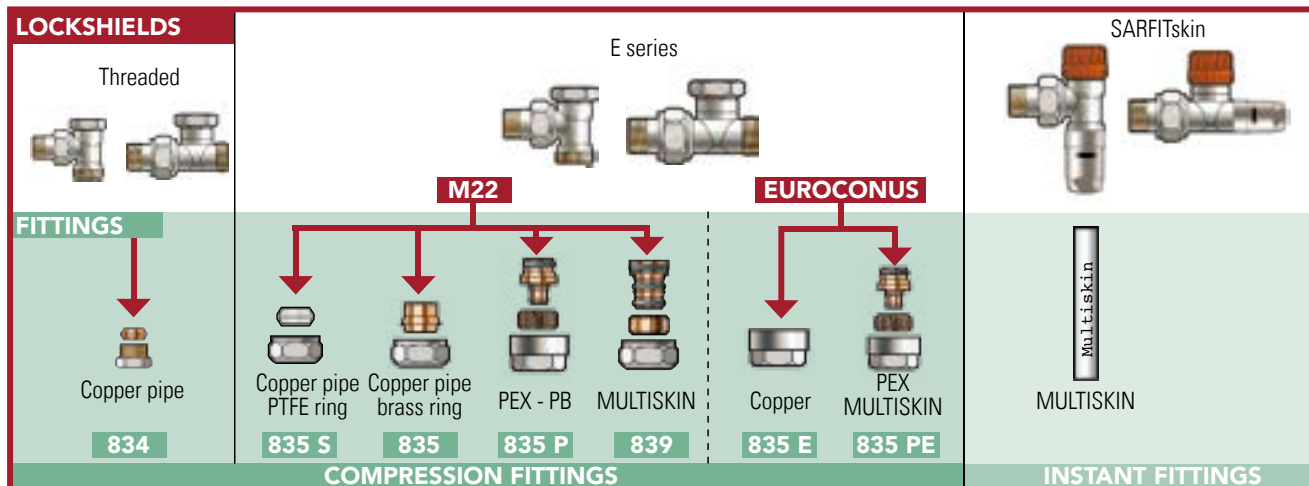


# LOCKSHIELD

## RANGE OVERVIEW

Reference	Shape	Isolation & setting	Drain-off	Memory	Pipe connection	O-ring on radiator union	3/8"	1/2"	3/4"	1"
2428	Angle	x			Female		1.55	2.2	4.2	8
2428E	Angle	x			Male M22		1.55	2.2		
2428JT	Angle	x			Female	x	1.55	2.2		
2428EJT	Angle	x			Male M22	x	1.55	2.2		
2429	Straight	x			Female		0.9	1.8	3	5.5
2429E	Straight	x			Male M22			1.8		
2429E	Straight	x			Euroconus 3/4"			1.8		
2429JT	Straight	x			Female	x	0.9	1.8		
2429EJT	Straight	x			Male M22	x	0.9	1.8		
2438JT	Angle	x			Female	x	1.55	3		
2438EJT	Angle	x			Male M22	x	1.55	3		
2439JT	Straight	x			Female	x		1.8		
2439EJT	Straight	x			Male M22	x	0.9			
2428CU	Angle	x			Cu 15mm			2.2		
2429CU	Straight	x			Cu 15 mm			1.8		
3428	Angle	x		x	Female		1.55	2.2	4.2	
3428E	Angle	x		x	Male M22			2.2		
3429	Straight	x		x	Female		0.9	1.8	3	
3429E	Straight	x		x	Male M22			1.8		
3429E	Straight	x		x	Euroconus 3/4"			1.8		
4468	Angle	x	x	x	Female		2	2.2	2.2	
4469	Straight	x	x	x	Female		1	1.8	2.2	
3428CU	Angle	x		x	Cu 14mm			2.2		
3429CU	Straight	x		x	Cu 14 mm			1.8		
SFS2428	Angle				PushFit 16x2			2.2		
SFS2429	Straight				PushFit 16x2			1.8		
428	Angle	x			Female					8

## INSTALLATION



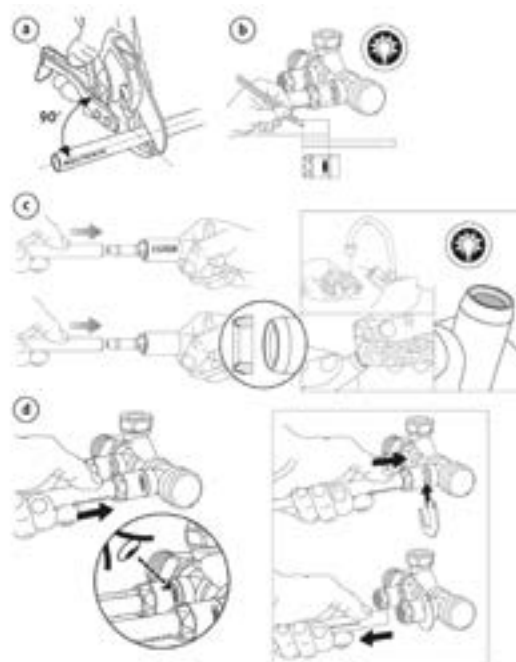
## LOCKSHIELD SARFITSKIN CONNECTION

To check the position of the pipe (mainly wall connection) it is advisable to mark the fitting socket on the tube (b). This can be done by marking the nut. Then calibrate the Comap gauge (article code: 11202B) (c). The pipe can be slid into the connection. It is advisable to moisten the pipe to allow it to fit into place more easily.

When the pipe is visible in the control window, FITSKIN connection is complete (d). No other tools are necessary. The connection can be dismantled without damaging the pipe using the dismantling key (article code: 4698100).

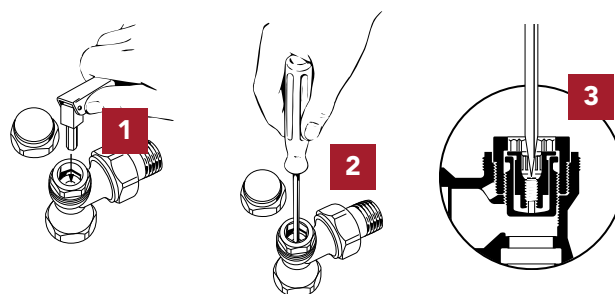
### Warning!!

Only Comap MultiSKIN and FIT pipes with red marks can be connected to the SARFITSKIN Lockshield. The 10-year guarantee is not valid for other pipes connected to the FITSKIN fitting.



## SETTING

- 1 Remove the plug. Turn the needle clockwise until the stop, using an adapted key (Allen or 334 tool). Then unscrew (anti-clockwise) by the required number of turns (see curves) to achieve the desired Kv-value.
- 2 For memory-equipped devices, a flat screwdriver should be used.
- 3 Screw the memory locking screw to a full stop.



The setting curves can be found in the 'Technical Curves Book'.



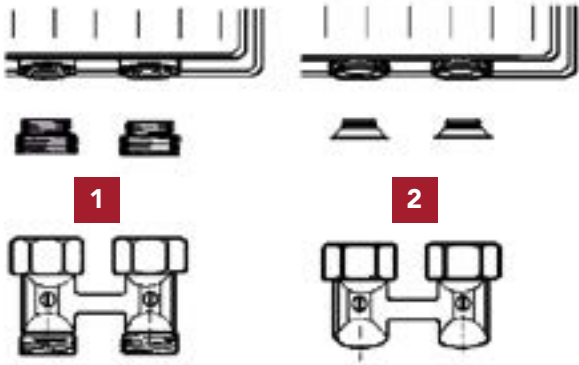


# H-MODULES

## RANGE OVERVIEW

Reference	Shape	1 pipe / 2 pipes	Isolation	Setting	Pipe connection	Nipple (radiator connection)
970	Straight	1 pipe	x	x	M22	9671
970A	Straight	1 pipe	x	x	3/4"EUR	9670
970E	Straight	1 pipe	x	x	3/4"EUR	9671
975	Angle	1 pipe	x	x	M22	9671
975A	Angle	1 pipe	x	x	3/4"EUR	9670
975E	Angle	1 pipe	x	x	3/4"EUR	9671
965	Angle	2 pipes	x		M22	9671
960	Straight	2 pipes	x		M22	9671
960A	Straight	2 pipes	x		3/4"EUR	9670
960E	Straight	2 pipes	x		3/4"EUR	9671
SFS960	Straight	2 pipes	x		16x2	9671
965A	Angle	2 pipes	x		3/4"EUR	9670
965E	Angle	2 pipes	x		3/4"EUR	9671
SFS965	Angle	2 pipes	x		16x2	9671
DT1	Straight	2 pipes	x		3/4"EUR	9670
DT2	Straight	2 pipes	x		3/4"EUR	9671
ET1	Angle	2 pipes	x		3/4"EUR	9670
ET2	Angle	2 pipes	x		3/4"EUR	9671
EVT1	Angle	2 pipes	x		3/4"E-DN12	9670
EVT1	Angle	2 pipes	x		3/4"E-DN15	9670
EVT2	Angle	2 pipes	x		3/4"E-DN12	9671
EVT2	Angle	2 pipes	x		3/4"E-DN15	9671
D1	Straight	2 pipes	x		3/4"EUR	9670
E1	Angle	2 pipes	x		3/4"EUR	9670
D2	Straight	2 pipes	x		3/4"EUR	9671
E2	Angle	2 pipes	x		3/4"EUR	9671
FE1	Adjustable	2 pipes	x		3/4"EUR	9670
FE2	Adjustable	2 pipes	x		3/4"EUR	9671
U1	Adjustable	1 pipe /2 pipes	x		F1/2"-3/4"E	9670
U2	Adjustable	1 pipe /2 pipes	x		M3/4"-3/4"E	9671

## INSTALLATION



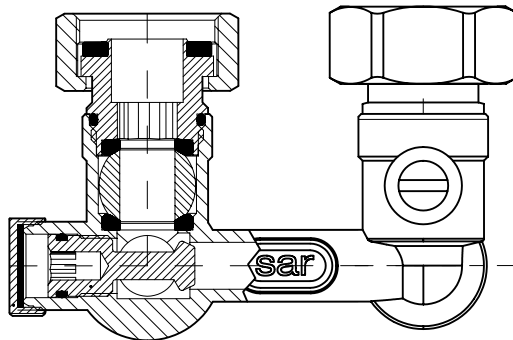
- 1 9670 nipple for F1/2" radiator connection
- 2 9670 nipple for M3/4" radiator connection

The cone or nipple is delivered with 3/4" Euroconus H-modules. Please order them separately for M22 H-modules.

## SETTING ONE-PIPE H-MODULES

### 970AF/975AF

- 1 Unscrew the tap.
- 2 Close the valve completely.
- 3 Open with the required number of turns according to the requested Kv-value. (See table.)

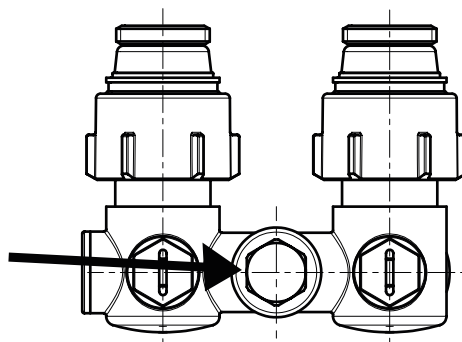


L/min	No. of turns (T)
6.4	1
10.9	1.5
15.5	2
19.6	2.5
23	3
26	3.5
28.6	4
29.5	4.5

Test conducted under 1 bar constant pressure.

### 970NS/975NS

- 1 Unscrew the tap.
- 2 Close the valve completely.
- 3 Open with the required number of turns according to the requested Kv-value. (See table.)



%	Kv
100	0.52
50	1.1
45	1.23
40	1.38
35	1.58
30=kvs	1.83

Test conducted at BP2K.

# TWO-WAY VALVES

## TWO WAY VALVES

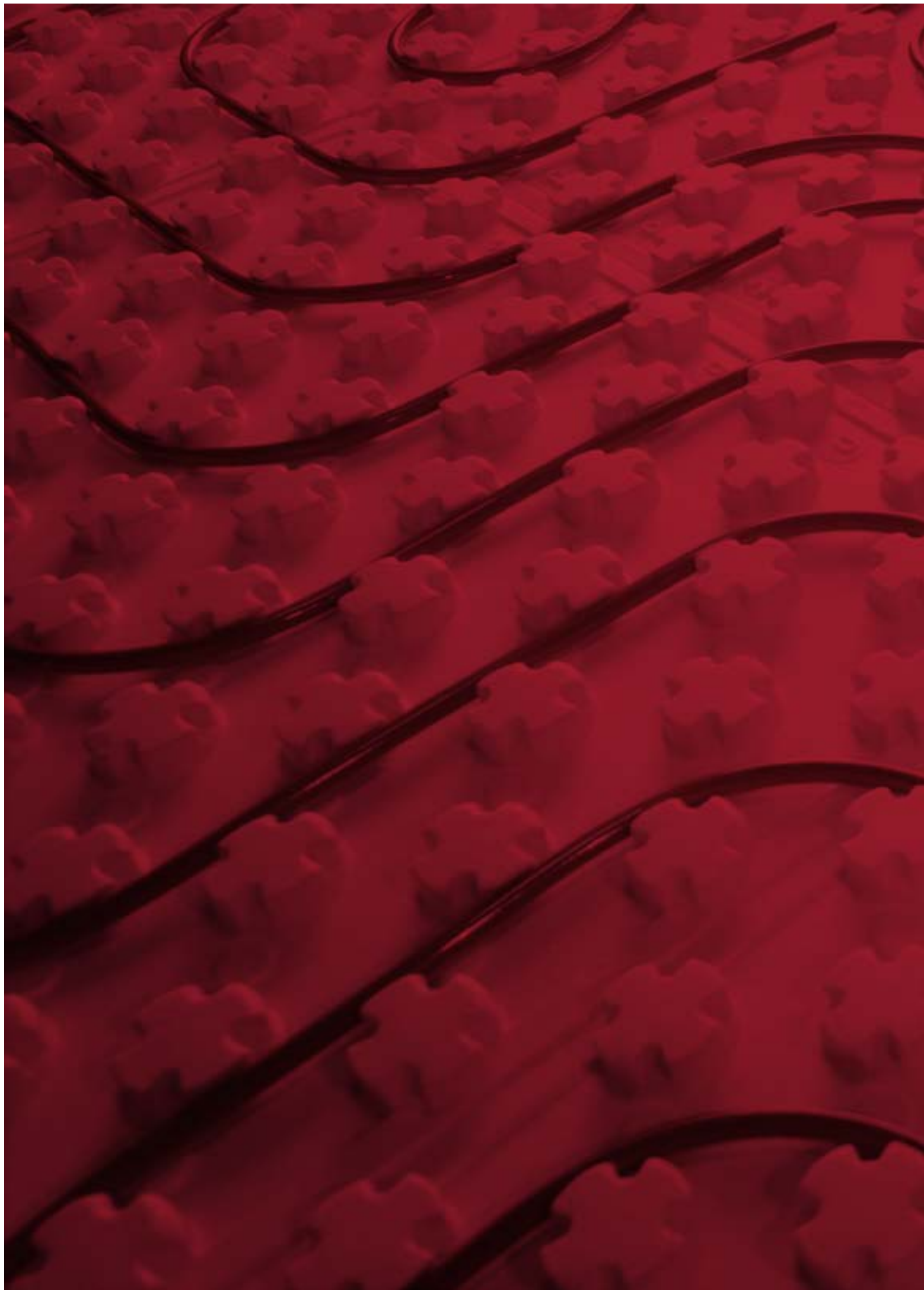
### HIGH FLOW VALVE FOR HEATING AND COOLING

**710**

M30, 4Kg



Model	Size	ITEM No	Kvs (m <sup>3</sup> /h at BP 2k)	Length of the valves	Qty
Kv 0,63	2 x 1/2"G	L244004001	0,63	60	10
Kv 0,16	2 x 1/2"G	L244006001	0,16	60	10
Kv 0,4	2 x 1/2"G	L244005001	0,4	60	10
Kv 1	2 x 1/2"G	L244003001	1	60	10
Kv 1,6	2 x 1/2"G	L244002001	1,6	60	10
Kv 2,5	2 x 3/4"G	L244008001	2,5	65	5
Kv 3,5	2 x 3/4"G	L244007001	3,5	65	5
Kv 4,5	2 x 1"G	L244009001	4,5	65	1



# Radiant Heating and Cooling

## Biofloor

Biofloor is a carefully selected range of products and services for professional installers and architects. It offers an integrated solution for underfloor heating and cooling. Comap Biofloor develops systems that are complete, easy to install and deliver maximum energy efficiency.

### WHY BIOFLOOR?

**GUARANTEED QUALITY:** Customers who choose a complete Biofloor package receive a 10-year guarantee on the full underfloor heating system.

**FAST QUOTES:** Our sales team is on hand to prepare quotes as soon as you need them.

**CALCULATIONS AND DRAWINGS:** Comap offers personalised calculations and drawings, using EU EN 1264 compliant AUTO-CAD software. Calculations include pressure loss, pipe diameter, circuit lengths, etc.

**ON-SITE ASSISTANCE:** If necessary, free on-site support is available during the installation of a complete Comap underfloor heating/cooling system.

**TRAINING:** Comap offers a complete practical training programme on underfloor heating and cooling. Sessions can be organised at one of our training centres or at a location chosen by the customer.

Plus system	390
Tacker system	396
Optima system	402
Planea system	406
Dry system	410
Rail system	414
Manifolds for underfloor heating and cooling	418
Connections & pipes for radiant heating & cooling	430
Regulation and accessories	434

# Biofloor

## PLUS SYSTEM

The Comap Plus System is a modern underfloor heating system with proven performance and enhanced thermal and sound insulation properties.

The panels fit seamlessly into each other, creating a solid and leak proof basis for the underfloor system. The floor screed can be applied immediately with no need to apply a damp foil first. The 5cm panel step (5, 10, 15, 20cm) ensures fast and efficient installation of the pipe.

The panel is strong enough for the installer to walk on without damaging the pipe. It can be installed by one person, thanks to its optimised size and weight.

The Plus System can be finished with any type of flooring.



### APPLICATIONS

Application	Plus	Plus – Industry
Insulation properties	++	-
Speed of installation	++	++
Usable for wall heating	++	++
Pipe protection during installation	++	++
No. of persons needed for installation	1	1

### TECHNICAL CHARACTERISTICS

Technical characteristics	Plus	Plus – Industry
Fully leak proof, no damp foil needed	✓	✓
Material	EPS + PE / PE	PE
Pipe dimension (mm)	15-17	20
Available thickness (mm)	0.9 / 11 / 30+2	1
Surface (m²)	1.12	1.08
Perpendicular grid for easy cutting	✓	diagonal grid

### BENEFITS

- Super-fast and easy installation.
- Can be installed by one person, with no tools needed.
- Provides thermal and acoustic installation.
- Leak proof with no need for damp foil.
- Enhanced stiffness to prevent lifting of the 0mm panel.
- Improved 'nose' design ensures a firm grip on the pipe.

### FEATURES

- Available in 2 different versions:
  - The 1mm panel without insulation can be used for renovations and wall heating.
  - The 30-2mm version provides maximum thermal and noise insulation.
- Optimised 5 cm step (5, 10, 15, 20cm).

## PANELS

### PLUS SYSTEM PANEL 0

#### T2000

Total panel height: 22,5mm. - Step: 5cm, surface net=1,12m<sup>2</sup>, pipe diameter= 15-17 mm.



Size	ITEM No	Nominal thick. Of insulation	Effective surface per box	Qty
1450 x 800mm	C120006001	0mm	13,44m <sup>2</sup>	12

### PLUS SYSTEM PANEL 11

#### T2011

Total panel height: 31mm. - Step: 5cm, surface net=1,12m<sup>2</sup>, pipe diameter= 15-17 mm.



Size	ITEM No	Nominal thick. Of insulation	Effective surface per box	Qty
1450 x 800mm	C120007001	11mm	14,58m <sup>2</sup>	13

### PLUS SYSTEM PANEL 30-2

#### T2033

Total panel height: 55mm. Step: 5cm. surface net=1,12m<sup>2</sup>, pipe diameter= 15-17 mm.



Size	ITEM No	Nominal thick. Of insulation	Effective surface per box	Qty
1200 x 900mm	C120008001	30+2mm	6,72m <sup>2</sup>	6

### INDUSTRY SYSTEM PANEL 0

#### TI2000

Polysterene foil 1,0mm without insulation - Step: 5cm. - Surface net: 1,08m<sup>2</sup>. - Pipe diameter: 20mm (18mm possible).



Size	ITEM No	Nominal thick. Of insulation	Effective surface per box	Qty
1200 x 900mm	C120014001	0mm	19,44m <sup>2</sup>	18

## ACCESSORIES

### 90° ELBOW

#### 9503

Elbow For Pipes - For guiding the pipe in the bend



Size	ITEM No	Qty
16-18	C250008001	20
20	C250007001	50
25-29	C250006001	50

### CONNECTION STRIP FOR PLUS SYSTEM PANEL

#### C1202

Used for easy connection of Plus system panels that are cut. Step: 5cm. Pipe diameter: 15-17mm.



Size	ITEM No	Qty
1400 x 100mm	C120013001	26

## DIAGONAL FIXATION 45°

### T2000D

For Plus System panel Used in case a diagonal pattern is applied.



ITEM No	Qty
C120010001	40

## CONNECTION STRIP FOR DOOR WAYS

### T2000P

Ideal for use in doorways. Used in combination with Plus system panel, Surface net: 0,28m<sup>2</sup>. Step: 5cm. Pipe diameter: 15-17mm.



Size	ITEM No	Qty
1400 x 200mm	C120009001	14

## EXPANSION JOINT

### T2002



Size	ITEM No	Thick (mm)	Qty
1,8 x 0,1 m	TG200218	10	10

## DOORWAY INSULATION STRIP

### C1201

EPS strip for insulating doorways. Effective surface per piece: 0,21m<sup>2</sup>.



Size	ITEM No	Thick (mm)	Qty
1400 x 150mm	C120011001	10	20
1400 x 150mm	C120012001	30	12

## CONNECTION FOR PLUS INDUSTRY PANEL

### TI2000PP

Polysterene foil 0,5mm without insulation. Surface net: 0,57m<sup>2</sup>. Step: 5cm. Pipe diameter: 20mm.



Size	ITEM No	Qty
1200 x 475mm	C120015001	1

## ADHESIVE FOAM WITH PLASTIC STRIP

### 9872

Thick.: 8 mm. Width: 150 mm. Rolls of 45 m.



Size	ITEM No	Qty
45 m	9872616	7

## ADHESIVE FOAM

### 9872A

Thick.: 8 mm. Width: 150 mm.



Size	ITEM No	Qty
45 m	9872815	7

## STANDARD FOAM

### 9872BASIC

Thick.: 8 mm. Width: 150 mm. Rolls of 45 m.



Size	ITEM No	Qty
45 m	987200	7



## ANTI-FREEZE

**988**

Screed Floor Additive - Ready to use anti-freeze liquid. Protection from freezing and corrosion. Do not add water



ITEM No	Can/Tin	Qty
C220001002	20 l	1

## ANTI-SHRINKAGE FIBRES

**9873**

Screed Floor Additive - Bag of 600 g



ITEM No	Qty
C220003001	1

## PLASTICIZER RETICHAPE

**9874**

Concrete Floor Additive



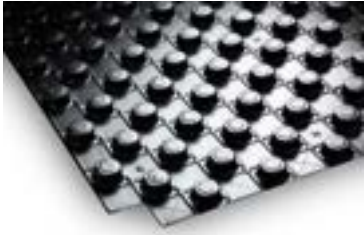
ITEM No	Can/Tin	Qty
C220002001	5 l / 5.77 kg	1
C220002002	20 l / 23 kg	1



# PLUS SYSTEM

## SELECTION

### Panels:



Ref: T2000  
Item code: C120006001



Ref: T2011  
Item code: C120007001



Ref: T2033  
Item code: C120008001

## FEATURES

- Fast and easy pipe connection
- Pipe protection during installation
- Damp foil
- Thermal insulation
- Acoustic insulation

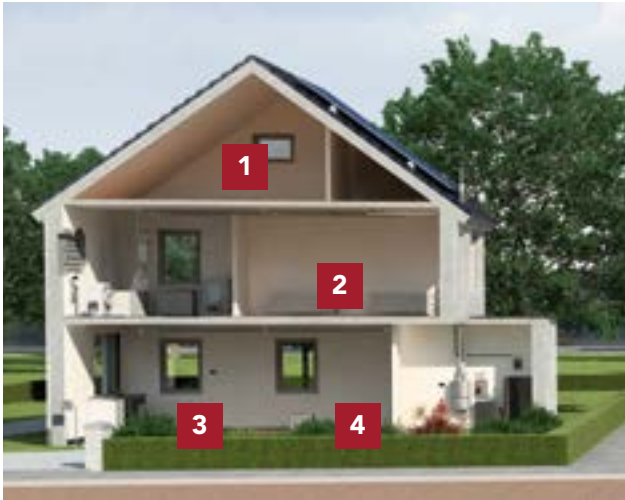
## BENEFITS

- Time-saving: only one person needed for installation.
- Much faster and easier to cut, as grid design is perpendicular instead of vertical.
- Improved material composition enhances stiffness to prevent lifting of the 0mm panel.
- Improved 'nose' design ensures a firm grip on the pipe.
- Seamless connection ensures a leak-proof layer. No damp foil is needed.

## TECHNICAL SPECIFICATIONS

	Unit	Plus System Panel 0 C120006001	Plus System Panel 11 C120007001	Plus System Panel 30-2 C120008001
General specifications				
Panel size	mm	1450 x 800	1450 x 800	1450 x 800
Effective area	m <sup>2</sup>	1.12	1.12	1.12
Effective area per box	m <sup>2</sup>	13.44	14.56	6.72
Grid distance for pipe	mm	50	50	50
Pipe dimension	mm	15-17	15-17	15-17
Total height of panel	mm	22.5	34	55
Maximum load	kg/m <sup>2</sup>	500	500	7500
Black film material	-	0.6mm Polystyrol (PS)	0.6mm Polystyrol (PS)	0.6mm Polystyrol (PS)
Insulation material	-	-	EPS	EPS
Insulation properties				
Acoustic insulation	dB	-	-	28
Heat conduction (rating value)	W/mK	-	0.035	0.040
Heat conduction resistance	M <sup>2</sup> K/W	-	0.31	0.75
Heat stability	°C	-	80	80

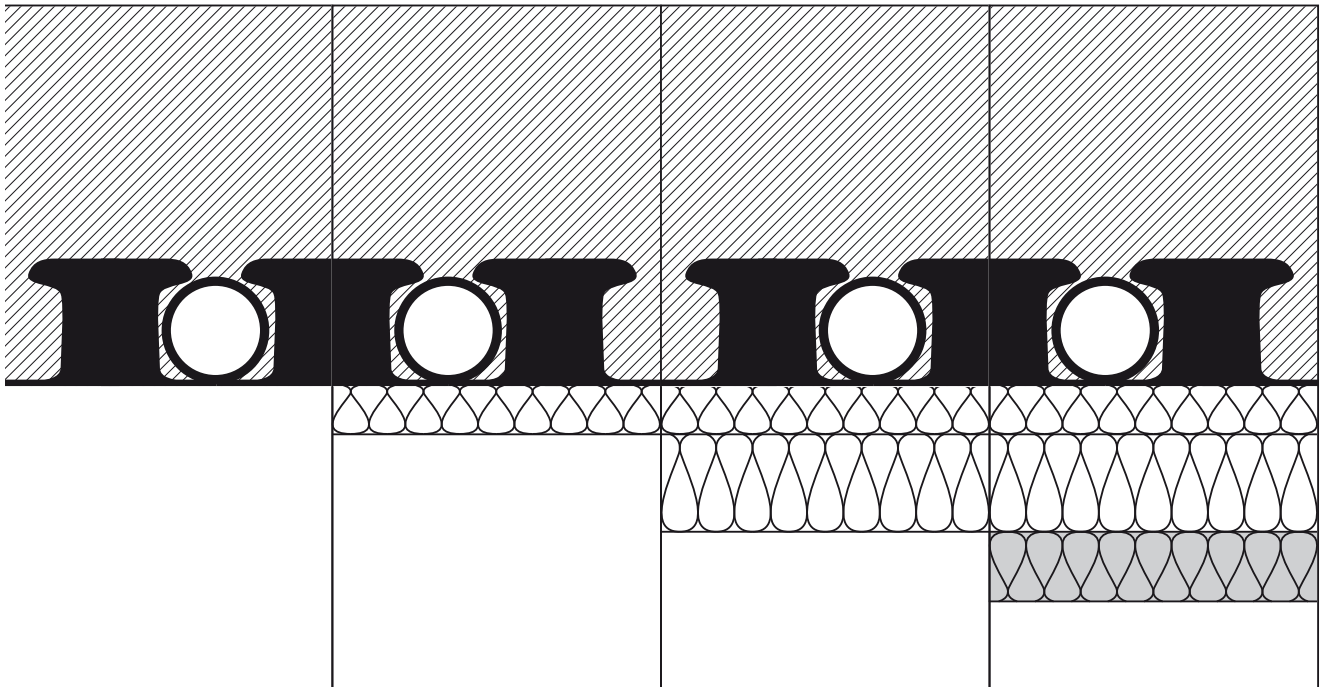
# INSULATION



The thickness of the insulation depends on the type of area to be heated and the maximum available height.

## T2033 Plus System panel 30-2

Ground floor/extra insulation



**1 T2000**  
 Plus System panel 0  
 $R=0\text{m}^2/\text{K}/\text{W}$   
 No insulation

### Conditions

- Renovation (attic)
- Minimum height

**2 T2011**  
 Plus System panel 11  
 $R=0.31\text{m}^2/\text{K}/\text{W}$   
 11mm insulation

### Conditions

- Renovation (attic)
- Minimum height
- High pressure resistance (<7500 kg/m<sup>2</sup>)

**3 T2033**  
 Plus System panel 30-2  
 $R=0.75\text{m}^2/\text{K}/\text{W}$   
 30+2mm insulation

### Conditions

- Sound insulation 26dB
- High pressure resistance (<500 kg/m<sup>2</sup>)
- Heated area

**4 T2033**  
 Plus System panel 30-2  
 $R=0.75\text{m}^2/\text{K}/\text{W} + \dots$   
 30+2mm insulation

### Conditions

- Sound insulation 26dB
- High pressure resistance (<500 kg/m<sup>2</sup>)
- Non-heated area

# Biofloor

## TACKER SYSTEM

The Comap Tacker System is a proven, easily installed solution for most construction projects. It is particularly suitable for areas with more complex round or diagonal shapes as it is easy to cut and the pipes can be installed in any direction.

Comap Tacker panels are available in folded and rolled versions. They are made of polystyrene finished with a tear-resistant foil layer. The slightly softer polystyrene structure provides a more secure grip for the tacker clips. This means that fewer clips are needed per m<sup>2</sup>, significantly reducing the time necessary for the project.



### APPLICATIONS

Application	Tacker	Tacker – Industry
Insulation properties	+	+
Speed of installation	+	+
Usable for wall heating	-	-
Pipe protection during installation	-	-
No. of persons needed for installation	2	2

### TECHNICAL CHARACTERISTICS

Specifications	Tacker	Tacker – Industry
Fully leak proof, no damp foil needed	-	-
Material	EPS + film	EPS + film
Pipe dimension (mm)	16-20	16-20
Available thickness (mm)	25/30	25/30
Surface (m <sup>2</sup> )	2	10
Perpendicular grid for easy cutting	✓	✓

### BENEFITS

- Economical
- 10m<sup>2</sup> rolled panels available for large surfaces
- Recyclable material

### FEATURES

- Available in 2 different versions:
  - A folded version which offers a flexible solution for smaller residential areas, creating less waste.
  - A rolled version that offers a fast solution for large surfaces in commercial areas.
- Made of polystyrene finished with a tear-resistant foil layer.

## PANELS

### TACKER PANEL

#### V3304

Overlapping foil layer to guarantee tight connection between panels.



Item number	Description	Thickness	Required tacker clip	Qty
C110009001	EPS 045 DES -sm 4,0 KN/m2 - u value 2,27	25-2 mm	TC162100	5
C110008001	EPS 040 DES -sm 5,0 KN/m2 - u value 1,33	30-2 mm	TC162100	5

## ACCESSORIES

### FIXING DEVICE

#### 986

Pipe fixation



Size	ITEM No	Qty
16 / 20	C110006001	200

### TACKER TOOL

#### TC1620

For application of tacker staples TC1621



ITEM No	Tube	Qty
TC162001	16 - 20mm	1

### ANTI-FREEZE

#### 988

Screed Floor Additive - Ready to use anti-freeze liquid. Protection from freezing and corrosion. Do not add water



ITEM No	Qty
C220001002	1

### 90° ELBOW

#### 9503

Elbow For Pipes - For guiding the pipe in the bend



Size	ITEM No	Qty
16-18	C250008001	20
20	C250007001	50
25-29	C250006001	50

### ADHESIVE FOAM WITH PLASTIC STRIP

#### 9872

Thick.: 8 mm. Width: 150 mm.



Size	ITEM No	Qty
45m	9872616	7

### ADHESIVE FOAM

#### 9872A

Thick.: 8 mm. Width: 150 mm.



Size	ITEM No	Qty
45m	9872615	7

### STANDARD FOAM

#### 9872BASIC

Thick.: 8 mm. Width: 150 mm.



Size	ITEM No	Qty
45m	987200	7

## ANTI-SHRINKAGE FIBRES

**9873**

Screed Floor Additive - Bag of 600 g



ITEM No	Qty
C220003001	1

## PLASTICIZER RETICHAPE

**9874**

Concrete Floor Additive



ITEM No	Can/Tin	Qty
C220002001	5 l / 5.77 kg	1
C220002002	20 l / 23 kg	1

## RASTER FOIL

**T105**

For easily installing tacker system and/or as vapour barrier in other systems



Size	ITEM No	Qty
2 x 100m	C250002001	1

## TACKER STAPLE

**TC1621**

For use with V3304 and V3303 tacker panels can also be used on PU panels



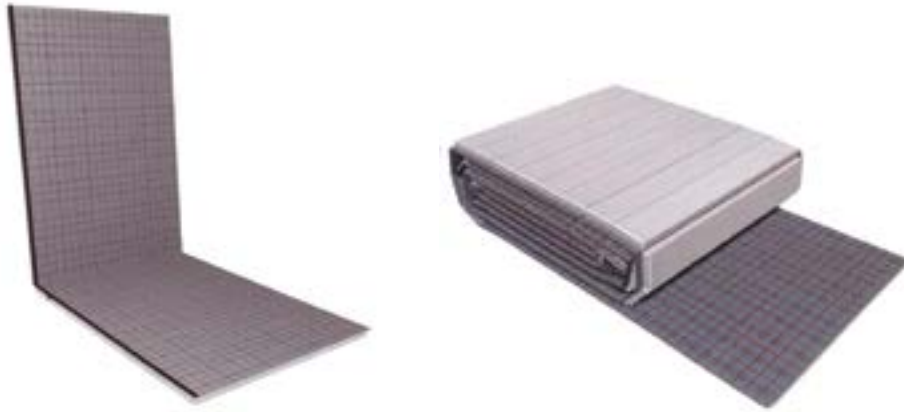
Size	ITEM No	Tube	Qty
40	TC162100	16 - 20	300
60	TC162106	16 - 20	300



# TACKER SYSTEM

## SELECTION

Ref. V3304



These insulation panels with foil are designed for connecting underfloor heating pipes using U-shaped tacker clips. They are suitable for both new buildings and renovation projects.

## BENEFITS

- Folded 2m<sup>2</sup> panels, ideal for smaller surfaces.
- 10m<sup>2</sup> roll shape, ideal for large surfaces.
- Soft structure of PSE for better connection of the tacker clips (fewer clips required).
- Sound insulation: +/- 28 dB.
- Raster foil makes any pipe step and pattern possible.

## PROPERTIES

- The insulation panel is supplied as a 2 x 1m<sup>2</sup> folded set featuring a top foil with raster print.
- The foil has an overlap to create a seamless connection that should be closed with glue or tape afterwards.

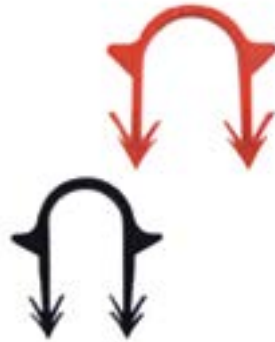
### V3303 technical data

	25-2 C110009001	30-2 C110008001
Panel	EPS040 DES sm	EPS040 DES sm
Foil	Woven PE with 10cm raster	Woven PE with 10cm raster
Dimensions (L x W) (m)	2 x 1	2 x 1
Thickness (mm)	25	30
FOLDED PANEL effective surface (m <sup>2</sup> )	2	2
ROLL PANEL effective surface (m <sup>2</sup> )	10	10
Heat conductivity Δ (W/mK)	0.045	0.040
Heat resistance R=l/k (m <sup>2</sup> K/W)	0.56	0.75
U value (m <sup>2</sup> K/W)	1.78	1.33
Heat stability (°C)	80	80
Acoustic insulation (dB)	28	28
Maximum load (kPa)	4	5
Packaging (no. of rolls)	1	1

Pipe step (cm)	10	25	20	25
Required pipe length in m per m <sup>2</sup>	10	6.5	5	4

## ACCESSORIES

### V3305 Tacker clips



Description	Item code	Tube diameter (mm)	Qty in bag (pcs)
Short Multi K (red)	C110014001	14-17	1000
Standard Multi K (red)	C110015001	14-20	1000

### Tacker tool



Item code	Description
C110016001	Used for application of V3305 tacker staple. Ergonomic design.

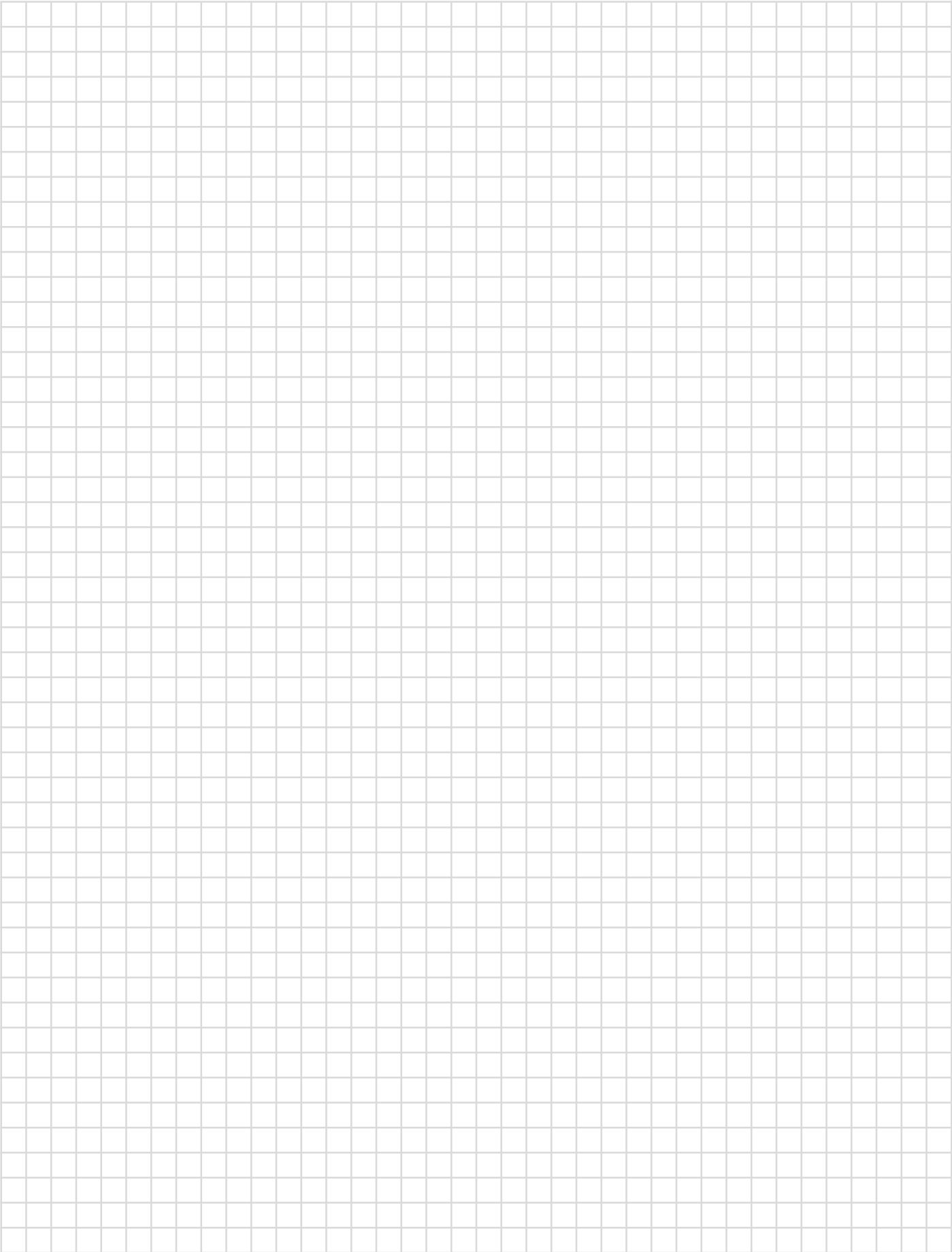
### Raster foil



Item code	Description	Packaging
C250002001	Damp/raster foil 2m x 100m. Thickness 150 µm.	Roll / 100m



# NOTES



# Biofloor

## OPTIMA SYSTEM

Comap's Optima System panel range complies with the French CST-Bat regulations. The panels guarantee fast, multi-directional installation while the interlocking system makes the surface completely leak proof.



### APPLICATIONS

Application	Optima
Speed of installation	++
Usable for wall heating	+
Pipe protection during installation	++

### TECHNICAL CHARACTERISTICS

Specifications	Optima
Heat resistance	+
Material	HD Polystyrene
Available thickness (mm)	24/41/56/69
R value (m <sup>2</sup> K/W)	0.75/1.25/1.7/2.1
Surface (m <sup>2</sup> )	1
Grid for easy cutting	✓
Interlocking system	✓

### BENEFITS

- CSTBat certified
- High thermal resistance
- Recyclable
- Fast installation

### FEATURES

- Available in 24, 41, 56 and 69mm versions.
- RT2012 ready.

Certifications:



## PANELS

### OPTIMA

**9891**

☐ 0,33 W/ m,K, Surface 1m<sup>2</sup>



ITEM No	Thick (mm)	R (m <sup>2</sup> /K/W)	Qty
C120017001	24	0,75	12
C120018001	41	1,25	8
C120019001	57	1,70	8
C120020001	70	2,10	6
420024001	80	2,40	6

### PIPE CLIP

**987**

Used to firmly attach the pipe to the panel.



ITEM No	Qty
C120005001	100

## ACCESSORIES

### 90° ELBOW

**9503**

Elbow For Pipes - For guiding the pipe in the bend



Size	ITEM No	Qty
16-18mm	C250008001	20
20mm	C250007001	50
25-29mm	C250006001	50

### ADHESIVE FOAM WITH PLASTIC STRIP

**9872**

Thick.: 8 mm. Width: 150 mm.



Size	ITEM No	Qty
45m	9872616	7

### ADHESIVE FOAM

**9872A**

Thick.: 8 mm. Width: 150 mm.



Size	ITEM No	Qty
45m	9872815	7

### STANDARD FOAM

**9872BASIC**

Thick.: 8 mm. Width: 150 mm.



Size	ITEM No	Qty
45m	987200	7

### ANTI-FREEZE

**988**

Screed Floor Additive - Ready to use anti-freeze liquid. Protection from freezing and corrosion. Do not add water



ITEM No	Can/Tin	Qty
C220001002	20 l	1

## ANTI-SHRINKAGE FIBRES

**9873**

Screed Floor Additive - Bag of 600 g



ITEM No	Qty
C220003001	1

## PLASTICIZER RETICHAPE

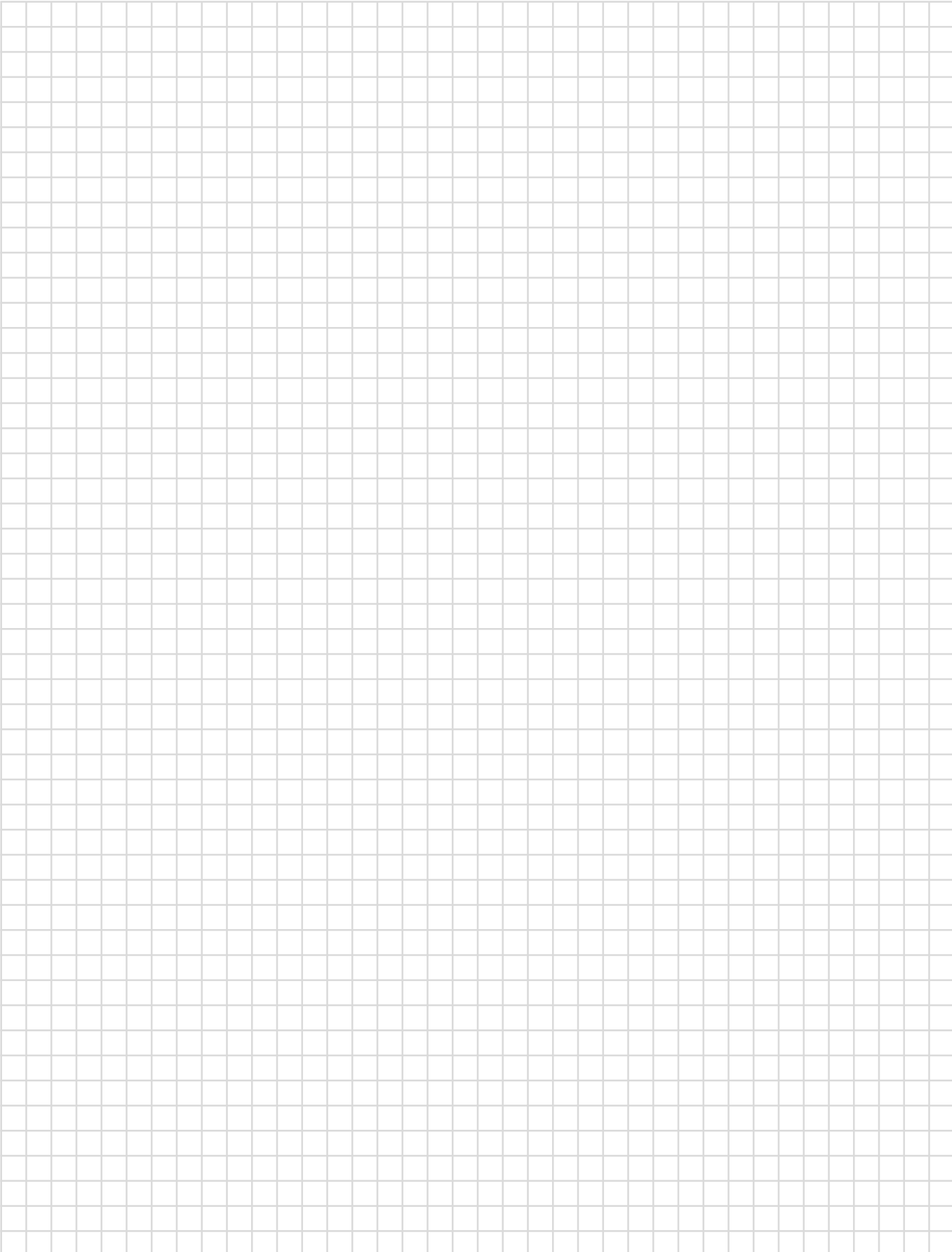
**9874**

Concrete Floor Additive



ITEM No	Can/Tin	Qty
C220002001	5 l / 5.77 kg	1
C220002002	20 l / 23 kg	1

# NOTES



# Biofloor

## PLANEA SYSTEM

Comap's Planea System panels are made from Neopor<sup>®</sup>, a high-tech evolution of polystyrene. Neopor provides increased heat resistance and superior insulation properties. As a result, less thickness is needed to achieve the same R-value.



### APPLICATIONS

Application	Optima
Speed of installation	+
Installation properties	+
Pipe protection during installation	-

### TECHNICAL CHARACTERISTICS

Specifications	Optima
Heat resistance	+
Material	Neopor
Available thickness (mm)	24/39/53/65
R value (m <sup>2</sup> K/W)	0.75/1.25/1.7/2.1
Surface (m <sup>2</sup> )	1
Grid for easy cutting	✓
Interlocking system	✓

### BENEFITS

- CSTBat certified
- Economical
- Neopor<sup>®</sup> provides high thermal resistance.

### FEATURES

- Available in 24, 39, 53 and 65mm versions.
- RT2012 ready.

Certifications:



## PANELS

### PLANEA PANEL

**9890**

$\lambda = 0,030 \text{ W/m.K}$  / Surface 1 m<sup>2</sup>



ITEM No	Thick (mm)	R (m <sup>2</sup> ·K/W)	Qty
9890075	24	0,75	16
9890125	39	1,25	12
9890170	53	1,70	7
9890210	65	2,10	6
9890215	74	2,40	5

## PANELS

### PIPE CLIP

**987**

Used to firmly attach the pipe to the panel.



ITEM No	Qty
C120005001	100

## ACCESSORIES

### 90° ELBOW

**9503**

Elbow For Pipes - For guiding the pipe in the bend



Size	ITEM No	Qty
16-18mm	C250008001	20
20mm	C250007001	50
25-29mm	C250006001	50

## ADHESIVE FOAM WITH PLASTIC STRIP

**9872**

Thick.: 8 mm. Width: 150 mm. Rolls of 45 m.



Size	ITEM No	Qty
45m	9872616	7

## ADHESIVE FOAM

**9872A**

Thick.: 8 mm. Width: 150 mm.



Size	ITEM No	Qty
45m	9872815	7

## STANDARD FOAM

**9872BASIC**

Thick.: 8 mm. Width: 150 mm.



Size	ITEM No	Qty
45m	987200	7

## ANTI-FREEZE

**988**

Screed Floor Additive - Ready to use anti-freeze liquid. Protection from freezing and corrosion. Do not add water



ITEM No	Can/Tin	Qty
C220001002	20 l	1

## ANTI-SHRINKAGE FIBRES

**9873**

Screed Floor Additive - Bag of 600 g



ITEM No	Qty
C220003001	1

## PLASTICIZER RETICHAPE

**9874**

Concrete Floor Additive



ITEM No	Can/Tin	Qty
C220002001	5 l / 5.77 kg	1
C220002002	20 l / 23 kg	1



# NOTES

A large grid of graph paper for taking notes, consisting of 20 columns and 30 rows of small squares.

# Biofloor

## DRY SYSTEM

The Comap Dry System is the ideal solution for renovation projects thanks to its 25mm height and the fact that the system can be finished without the need for floor screed.

The dry system panels can be installed directly on the existing floor. Special metal sheets are then fitted onto the panel to enhance heat diffusion. With an additional element, 180° pipe bends are possible. Installation is fast and clean with no need for floor screed. With no floor screed, warm-up time is also shorter, adding to comfort and saving energy.

The dry system can only be used in combination with 14mm BetaSKIN or BioSKIN pipe.



### APPLICATIONS

Application	Optima
Fast and clean installation	++
Finish dry floor directly after application	++
Short warm-up time of underfloor heating	++
Renovation/minimum height	++
Wall heating	++
Complicated patterns	-
Concrete core activation	-

### TECHNICAL CHARACTERISTICS

Specifications	Dry
Pipe diameter (mm)	14
Minimum step (cm)	12.5
BetaPEX-RETUBE/ BetaSKIN / BioSKIN	BetaSKIN / BioSKIN 14mm
Right angled and diagonal pattern possible	✓

### BENEFITS

- Low height and weight make this a perfect solution for **renovation**.
- **1-day installation** without the need for a screed floor finishing.
- High comfort and energy savings thanks to **low inertia**.

### FEATURES

- System consists of only 3 parts.
- Goes with special 14mm BetaSKIN multilayer pipe.

## PANELS

### SYSTEM PLATE

#### TH2025

125 mm step 125 mm



Size	ITEM No	Thick (mm)	Qty
1020 x 645mm	TH2025PS30	25	21

### DIFFUSION PLATE (STRAIGHT)

#### THS

For system plate TH2025



Size	ITEM No	Thick (mm)	Qty
750 x 120	THS2025	0,5	50

### DIFFUSION PLATE (180° BEND)

#### THSB

For system plate TH2025



Size	ITEM No	Thick (mm)	Qty
245 x 125	THS2025B	0,5	25

## ACCESSORIES

### 90° ELBOW

#### 9503

Elbow For Pipes - For guiding the pipe in the bend



Size	ITEM No	Qty
16-18mm	C250008001	20
20mm	C250007001	50
25-29mm	C250006001	50

### ADHESIVE FOAM WITH PLASTIC STRIP

#### 9872

Thick.: 8 mm. Width: 150 mm. Rolls of 45 m.



Size	ITEM No	Qty
45m	9872616	7 (315mm)

### ADHESIVE FOAM

#### 9872A

Thick.: 8 mm. Width: 150 mm.



Size	ITEM No	Qty
45m	9872815	6

### STANDARD FOAM

#### 9872BASIC

Thick.: 8 mm. Width: 150 mm.



Size	ITEM No
45m	987200



# DRY SYSTEM

## SELECTION

### Ref. TH2025, THS, THSB

The Comap Dry System is ideal for renovation projects thanks to its 25mm height and the fact that the system can be finished without the need for a screed floor layer.

The Dry System panels can be installed directly on the existing floor. Special metal sheets are then fitted onto the panel to enhance heat diffusion. With an additional element, 180° pipe bends are possible.

The Dry System can only be used in combination with 14mm BetaSKIN or BioSKIN pipe.

## APPLICATION

The Dry System panel (TH2025PS30) consists of a 25mm pre-formed polystyrol insulation layer and a metal profile (THS2025) which ensures proper heat diffusion, sufficient mechanical strength and easy connection of the pipe. The specific composition of the panel offers the options of finishing with either a wet floor or a dry floor such as parquet or tiles.

The Dry System panels are placed directly on the existing floor. Afterwards, the metal profiles are inserted into the preformed grooves. The bend element (THS2025B) is used to make 180° bends. Three patterns are possible with the same panel: spiral, 180° bends (meander) and diagonal.

The Dry System is finished with a layer of damp foil (C250002001). Afterwards, the floor can be finished immediately. Alternatively, an extra layer of Fermacell® panels can be applied for even more stability.

Pipe step (cm)	12.5	25	37.5
Meter pipe per m <sup>2</sup>	8	4	2

## SYSTEM BENEFITS

- Excellent for renovation purposes, with low weight and a height of only 25mm.
- Lower energy consumption and higher comfort due to short warm-up time.
- Clean and fast installation with only three different elements needed.
- Different patterns possible (diagonal, 180° bends, spiral).
- Installed directly on the existing floor.
- Can be used for wall heating/cooling.

### Guarantee

Customers who purchase a full Biofloor system including manifold, connection fittings, pipe and dry system are entitled to a 10 year system warranty, including insurance against consequential damage. Please note that local warranty conditions may vary per country. Contact your local Biofloor team for more information.

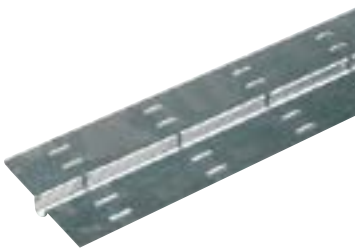
## TECHNICAL SPECIFICATIONS INSULATION PANEL (TH2025PS30)

### Steel mesh



Dimensions (cm)	64.5 x 102
Effective area (m <sup>2</sup> )	0.625
Step (cm)	12.5 / 25 / 37.5
System thickness excl. floor finishing (mm)	25
Max. load (kPa)	60
Max. pressure (at 10% compression) (kPa)	200
Thermal conductivity according to DIN Y 4108 (W/mK)	0.035
Thermal resistance (m <sup>2</sup> K/W)	0.56

### Heat diffusion plate (THS2025)



Material	Polystyrol hard foam / PS 30 SE
Maximum temperature resistance (°C)	80
Material class according to EN 13501-1	E
Material class according to DIN 4102-1	B1
Application according to DIN V 4108-10	DE0
Packaging (pieces in box)	21
Effective area per box (m <sup>2</sup> )	13.125
Box dimensions (W x D x H) (cm)	103 x 65.5 x 57

### 180° bend element (THS2025B)



Pipe dimension	14mm BetaSKIN / BioSKIN only
Dimensions (L x W) (cm)	75 x 12
Material	Steel
Thickness	0.5mm
Damp layer	None. Finishing with additional damp foil layer (C250002001) is required.
Packaging (pieces)	50

### Damp foil (C250002001)



Dimensions (L x W) (cm)	24.5 x 12.5
Material	Steel
Thickness (mm)	0.5mm
Packaging (pieces)	25
Dimensions (L x W) (cm)	2 x 100
Thickness (mm)	150
Packaging (pieces)	Roll / 100m (The roll is just 1m high; the 2m foil is folded.)

# Biofloor RAIL SYSTEM

The Rail System is the Comap solution for wall heating and cooling.



## APPLICATIONS

Application	Rail
Fast and clean installation	+
Renovation/minimum height	+
Wall heating	++
Complicated patterns	++
Concrete core activation	-

## TECHNICAL CHARACTERISTICS

Specifications	Dry
Pipe diameter (mm)	all
Minimum step (cm)	5
BetaPEX-RETUBE/ BetaSKIN / BioSKIN	✓
Right angled and diagonal pattern possible	✓

## BENEFITS

- Ideal solution for walls.
- Economical.
- Fast installation.

## FEATURES

Self-adhesive rails for faster installation.

## RAILS

### RAIL

#### TJ2005

With adhesive strip. 50 mm step.



Size	ITEM No	Tube	Qty
2000 x 50 x 30cm	TJ200500	16x2	32

## ADHESIVE RAIL - 'EASY CONNECT'

### UC

Self adhesive 1m rail. Rails can be easily connected to any length desired. Very easy for smaller areas, walls and ceilings



Size	ITEM No	Tube	Qty
1m	C140001001	12-14	100
1m	C140002001	16	100

## ACCESSOIRES

### 90° ELBOW

**9503**

Elbow For Pipes - For guiding the pipe in the bend



Size	ITEM No	Qty
16-18mm	C250008001	20
20mm	C250007001	50
25-29mm	C250006001	50

### ADHESIVE FOAM WITH PLASTIC STRIP

**9872**

Thick.: 8 mm. Width: 150 mm.



Size	ITEM No	Qty
45m	9872616	7 (315mm)

### ADHESIVE FOAM

**9872A**

Thick.: 8 mm. Width: 150 mm.



Size	ITEM No	Qty
45m	9872815	6

### STANDARD FOAM

**9872BASIC**

Thick.: 8 mm. Width: 150 mm.



Size	ITEM No
45m	987200

## ANTI-FREEZE

**988**

Screed Floor Additive - Ready to use anti-freeze liquid. Protection from freezing and corrosion. Do not add water



ITEM No	Can/Tin	Qty
C220001002	20 l	1

## ANTI-SHRINKAGE FIBRES

**9873**

Screed Floor Additive - Bag of 600 g



ITEM No	Qty
C220003001	1

## PLASTICIZER RETICHAPE

**9874**

Concrete Floor Additive



ITEM No	Can/Tin	Qty
C220002001	5 l / 5.77 kg	1
C220002002	20 l / 23 kg	1

## RASTER FOIL

**T105**

For easily installing tacker system and/or as vapour barrier in other systems



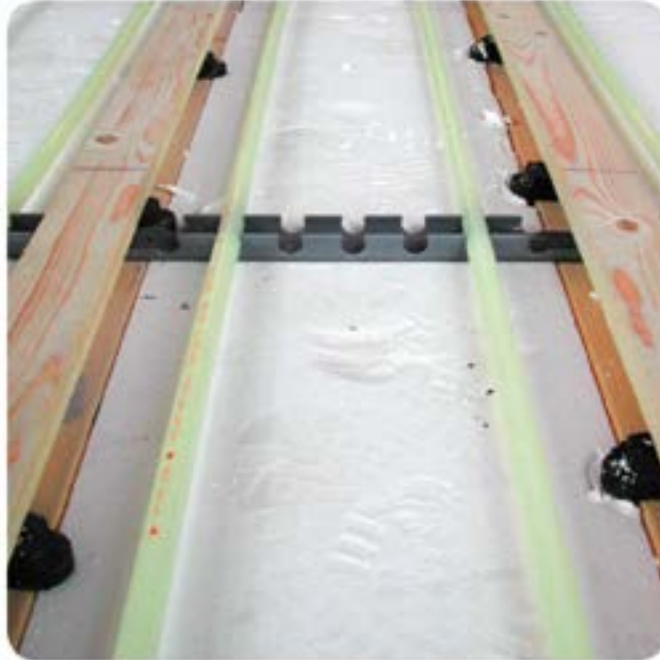
Size	ITEM No	Qty
2 x 100 m	C250002001	1 (200m²)



# RAIL SYSTEM

## SELECTION

Ref. TJ2005, TJ3005, UC



The rail system is an economical solution that uses plastic profiles with a 5cm step to create a solid pipe connection. The pipes can be installed in literally any direction and shape. Connection to the rail is easy and the rail, in its turn, is placed on top of the damp foil. The rail system can also be used as a basis for wall heating and cooling.

## APPLICATION

The rail system is used to connect Comap underfloor heating pipes with dimensions of 12, 14, 16, 18 or 20mm. The rails have a self-adhesive strip that can be connected directly to the damp foil. They can be used for all types of installation patterns as well as any type of flooring (including cement, screed and concrete). For wall applications, an extra secured screw connection is always required.

Before installing the rail system, measures should be taken against humidity. Therefore, a layer of damp foil (2m x 100m, C250002001) should be applied first. Make sure there is enough overlap between each strip of damp foil in order to ensure a securely closed layer.

The advanced adhesive 'easy connect' rails (C140001001 and C140002001) have a patented connection system that makes it possible to extend the rail to any length while maintaining a solid connection.

Pipe step (cm)	10	15	20
Meter pipe per m <sup>2</sup>	10	6.5	5

## BENEFITS

- Economical and flexible solution.
- Ideal for areas with more complex shapes.
- Strong, self-adhesive strip.
- Extendable length (C140001001 and C140002001)
- Can be used in combination with connection plugs or tacker clips to connect the rail to the floor or wall.
- Patented design for firm and easy pipe connection.



## RAIL SPECIFICATIONS

TJ2005, TJ3005



UC



Item code	Description	Pipe diameter (mm)	Dimensions (L x W x H) (cm)	Step (cm)	Distance pipe-floor (mm)	Packaging (pcs)
TJ200500	Rail with adhesive strip	16	200 x 5 x 3	5	5	10
TC3005018	Rail with adhesive strip	18	300 x 5 x 3	5	5	10
TC3005020	Rail with adhesive strip	20	300 x 5 x 3	5	5	10
C140001001	Rail with adhesive strip and connection system	12-14	100 x 5 x 2.2	5	5	10
C140002001	Rail with adhesive strip and connection system	16-20	100 x 5 x 2.7	5	5	10

## MANIFOLDS FOR UNDERFLOOR HEATING AND COOLING

Our unique range of manifolds for underfloor heating and cooling allow installation in any position, offering you maximum flexibility. A modular system allows you to add extra groups during installation. Our manifolds are corrosion free and are designed for maximum energy savings.



### APPLICATIONS

Application	(K) 9000 TP	V9004
Heating and cooling	++	+
Fully modular, allowing groups to be added to the construction site	++	-
Mountable in any position	++	-
Fast and easy installation	++	+
Compatible with cabinet type "Sprint" 9860	✓	-
Heat insulation properties	++	-

### TECHNICAL CHARACTERISTICS

Specifications	(K) 9000 TP	V9004
Material	Polyamide (glass fibre reinforced)	Brass
Automatic air vent	✓	Manual
M30 x 1.5 connection for electrothermal actuator	✓	✓
3/4" Eurocone pipe connection	✓	✓
Flow meters (1-4 l/min)	✓	✓
Inlet/outlet temperature measurement	✓	-

### BENEFITS

- Reversible
- Extremely durable
- Modular

### FEATURES

The manifold can be extended with an energy efficient Class A pump unit, which is also reversible.

## 9000 SYNTHETIC MANIFOLD

### WITH BALL VALVES AND FLOW METERS

#### K9000TP

Fully pre-assembled - 3/4" Eurocone connections - flow meters 1 - 4 l includes 2 ball valves 6806P



Size	ITEM No	Qty
1" - 2 Circuits	C321010001	1
1" - 3 Circuits	C321011001	1
1" - 4 Circuits	C321012001	1
1" - 5 Circuits	C321013001	1
1" - 6 Circuits	C321014001	1
1" - 7 Circuits	C321015001	1
1" - 8 Circuits	C321016001	1
1" - 9 Circuits	C321017001	1
1" - 10 Circuits	C321018001	1

### WITH FLOW METERS

#### 9000TP

Fully pre-assembled - 3/4" Eurocone connections - flow meters 1 - 4 l



Size	ITEM No	Qty
1" - 2 Circuits	9000562N	1
1" - 3 Circuits	9000563N	1
1" - 4 Circuits	9000564N	1
1" - 5 Circuits	9000565N	1
1" - 6 Circuits	9000566N	1
1" - 7 Circuits	9000567N	1
1" - 8 Circuits	9000568N	1
1" - 9 Circuits	9000569N	1
1" - 10 Circuits	9000570N	1

### WITH BALL VALVES

#### K9000P

Fully pre-assembled - 3/4" Eurocone connections - includes 2 ball valves 6806P



Size	ITEM No	Qty
1" - 2 Circuits	C321001001	1
1" - 3 Circuits	C321002001	1
1" - 4 Circuits	C321003001	1
1" - 5 Circuits	C321004001	1
1" - 6 Circuits	C321005001	1
1" - 7 Circuits	C321006001	1
1" - 8 Circuits	C321007001	1
1" - 9 Circuits	C321008001	1
1" - 10 Circuits	C321009001	1

### BASIC VERSION

#### 9000P

Fully pre-assembled - 3/4" Eurocone connections



Size	ITEM No	Qty
1" - 2 Circuits	9000552N	1
1" - 3 Circuits	9000553N	1
1" - 4 Circuits	9000554N	1
1" - 5 Circuits	9000555N	1
1" - 6 Circuits	9000556N	1
1" - 7 Circuits	9000557N	1
1" - 8 Circuits	9000558N	1
1" - 9 Circuits	9000559N	1
1" - 10 Circuits	9000560N	1

## WALL CABINET TYPE UNIVERSAL II

### V9018

The adjustable connection system of this cabinet makes it possible to easily mount any type of manifold that comes with drilled holes in the brackets. Both depth and height are adjustable. - Compatible with: 9000P, 9000TP, K9000P, K9000TP, V9004



ITEM No	Height (mm)	Depth (mm)	Width (mm)	Qty
C240007001	750 - 850	110 - 165	450	1
C240008001	750 - 850	110 - 165	550	1
C240009001	750 - 850	110 - 165	700	1
C240010001	750 - 850	110 - 165	850	1
C240011001	750 - 850	110 - 165	1000	1
C240012001	750 - 850	110 - 165	1200	1

## WALL CABINET TYPE UNIVERSAL I IN-WALL

### V9016

The adjustable connection system of this cabinet makes it possible to easily mount any type of manifold that comes with drilled holes in the brackets - Compatible with: 9000P, 9000TP, K9000P, K9000TP, V9004



ITEM No	Height (mm)	Depth (mm)	Width (mm)	Qty
C240001001	710	140	450	1
C240002001	710	140	550	1
C240003001	710	140	700	1
C240004001	710	140	850	1
C240005001	710	140	1000	1
C240006001	710	140	1200	1

## WALL CABINET TYPE SPRINT IN-WALL

### 9860

Exclusively designed for synthetic manifold 9000P, 9000TP, K9000P and K9000TP - This Cabinet has a special rail for installation of the synthetic manifold without using any tools



ITEM No	Number of groups 9000 manifold	Height (mm)	Depth (mm)	Width (mm)	Qty
986004	2-3	520	100-125	400	1
986006	4-7	520	100-125	600	1
986008	8-10	520	100-125	800	1
986010	11-12	520	100-125	1000	1

## MANIFOLD COVER

### 9861

This unit is placed over the manifold after installation



Size	ITEM No	Circuits	Qty
550mm	98610206	2 - 6	1
750mm	98610711	7 - 11	1

## BASE UNIT FOR 9860

### 9863



Size	ITEM No	Circuits	Qty
600mm	986306	4-7	1

## 9000 SYNTHETIC MANIFOLD ACCESSORIES

### EXTENSION KIT FOR 9000P

#### KE9000P

Standard model



ITEM No	Qty
C321019001	1

### EXTENSION KIT FOR 9000TP

#### KE9000TP

Flow meter model (9071PTM)



ITEM No	Qty
C321020001	1

## INLET / END MODULE

**9052P**



Size	ITEM No	Qty
1"	905200N	1

## FLOW METER

**9071PTM**

1 - 4 litres



ITEM No	Qty
VPDBWA47	1

## BALL VALVE

**6806P**



Size	ITEM No	Qty
1"1/4x1	VMP05A17	2

## PRESET THERMOSTATIC VALVE - M30

**D3809**

Reverse flow Max spring load: 4kg Nickel - plated Orange protection cap



Size	ITEM No	Kv	Kvs	Qty
3/4"	380916	0,025 - 0,50	0,78	10

## AUTOMATIC AIR VENT

**3081**

With non-return value - Brass finish



Size	ITEM No	Qty
3/8"	308103	10

## 1" MUD DEPOSIT COLLECTOR

**5210**

Prevents sediment from entering the manifold and pipe, which prolongs the lifetime of the system



ITEM No	Qty
521008	1

## CONNECTOR

**VMP**

Exterior and interior threads - Brass finish



Size	ITEM No	Qty
1" 1/4 x 3/4"	VMP04A02	2
1"1/4 x 1"	VMP05A02	2

## CONNECTOR

**VMP(L)**

Exterior threads x interior thread - Brass finish



Size	ITEM No	Qty
1" 1/4 x 3/4"	VMP04A01	2
1"1/4 x 1"	VMP05A03	2

## FIXING BRACKETS

**9832**

For synthetic floor heating manifolds



ITEM No	Interaxis	Qty
983250	208,5mm	2

## THERMOMETER

**9839**



ITEM No	Qty
983900	2

## MODULE CLIP

**9000HK**

For plastic manifolds



ITEM No	Qty
VPDBWA24	10

## O - RING

**9000JT**

For plastic manifolds



ITEM No	Qty
VPDBWA23	10

## CIRCUIT LABELS

**9869**



ITEM No	Qty
986900	10

## MANIFOLDS WITH PUMP UNIT + RTL

### PUMP UNIT CLASS A FOR 9000 MANIFOLD

**9300A**

- Full brass
- Reversible both horizontally + vertically
- Possible to connect actuator on return
- Fits in Comap cabinet



ITEM No	Qty
C321047001	1

### MODULAR SET WITH PUMP UNIT

**TT9300A**

- 3/4" Eurocone connections
- Includes thermostatic valve Pre-assembled



Size	ITEM No	Circuits	Qty
3/4" Eurocone	C321049001	2	1
3/4" Eurocone	C321050001	3	1
3/4" Eurocone	C321051001	4	1
3/4" Eurocone	C321052001	5	1
3/4" Eurocone	C321053001	6	1
3/4" Eurocone	C321054001	7	1
3/4" Eurocone	C321055001	8	1
3/4" Eurocone	C321056001	9	1
3/4" Eurocone	C321057001	10	1

## SMALL AREA SOLUTIONS

### SMALL AREA MANIFOLD WITH INTEGRATED PUMP UNIT

#### 7000S

Typical application: Small (1 room) underfloor heating system that is installed in addition to conventional radiators



Size	ITEM No	Circuits	Qty
3/4" Eurocone	C311023001	1	1

### RETURN TEMPERATURE LIMITER - BASIC

#### RTL-BASIC

- 3/4" Euroconus connection
- RTL head with air vent
- Return temperature setting 10°C - 50°C



ITEM No	Height (mm)	Depth (mm)	Width (mm)	Colour	Qty
C361001001	172	58	152	White	1

### RETURN TEMPERATURE LIMITER - FLOW METER + SECURITY

#### RTL-FLOWMETER

- 3/4" Euroconus connection
- RTL head with air vent and flow meter
- Security against overheating



ITEM No	Height (mm)	Depth (mm)	Width (mm)	Colour	Qty
C361002001	210,5	64	155,5	White	1

## V9004 BRASS MANIFOLD

### BRASS MANIFOLD WITH FLOW REGULATION AND MEASUREMENT (WITHOUT PUMP UNIT)

#### V9004



Size	ITEM No	Circuits	Qty
1"-3/4" Eurocone	C311012001	2	1
1"-3/4" Eurocone	C311013001	3	1
1"-3/4" Eurocone	C311014001	4	1
1"-3/4" Eurocone	C311015001	5	1
1"-3/4" Eurocone	C311016001	6	1
1"-3/4" Eurocone	C311017001	7	1
1"-3/4" Eurocone	C311018001	8	1
1"-3/4" Eurocone	C311019001	9	1
1"-3/4" Eurocone	C311020001	10	1
1"-3/4" Eurocone	C311021001	11	1
1"-3/4" Eurocone	C311022001	12	1

### WALL CABINET TYPE UNIVERSAL I IN-WALL

#### V9016

The adjustable connection system of this cabinet makes it possible to easily mount any type of manifold that comes with drilled holes in the brackets - Compatible with: 9000P, 9000TP, K9000P, K9000TP, V9004



ITEM No	Height (mm)	Depth (mm)	Width (mm)	Qty
C240001001	710	140	450	1
C240002001	710	140	550	1
C240003001	710	140	700	1
C240004001	710	140	850	1
C240005001	710	140	1000	1
C240006001	710	140	1200	1

## V9004 BRASS MANIFOLD ACCESSORIES

### MANIFOLD COVER

#### V9861

This unit is placed over the manifold after installation



Size	ITEM No	Circuits	Qty
550	98610206	2 - 6	1
750	98610711	7 - 11	1

### EXTENSION MUFF FOR BRASS MANIFOLD

#### V9020

Outside thread, length 26 mm



Size	ITEM No	Qty
1" - 1"	C352006001	1

### BALL VALVE SET

#### V9021

Used for fully closing the V9004 brass manifold With O-Ring for fast connection



Size	ITEM No	Qty
1" - 1"	C352009001	1

### BALL VALVE SET

#### V9021

Used for fully closing the V9004 brass manifold With O-Ring for fast connection



Size	ITEM No	Qty
1" - 1"	C352005001	1

### THERMOMETER

#### V9028

0 - 100°C supplied with temperature sensor



ITEM No	Colour	Qty
C352002001	Red	1
C352003001	Blue	1

### BRASS FILLING DRAIN VALVE + AIR VENT

#### V9030



Size	ITEM No	Qty
1/2"	C352004001	1

### PUMP UNIT FOR BRASS MANIFOLD V9004

#### V9041

2 x ball valve 1" ,Pump, 2 thermometers, Bypass



ITEM No	Qty
C352001001	1

### REDUCTION WITH O-RING

#### V9042

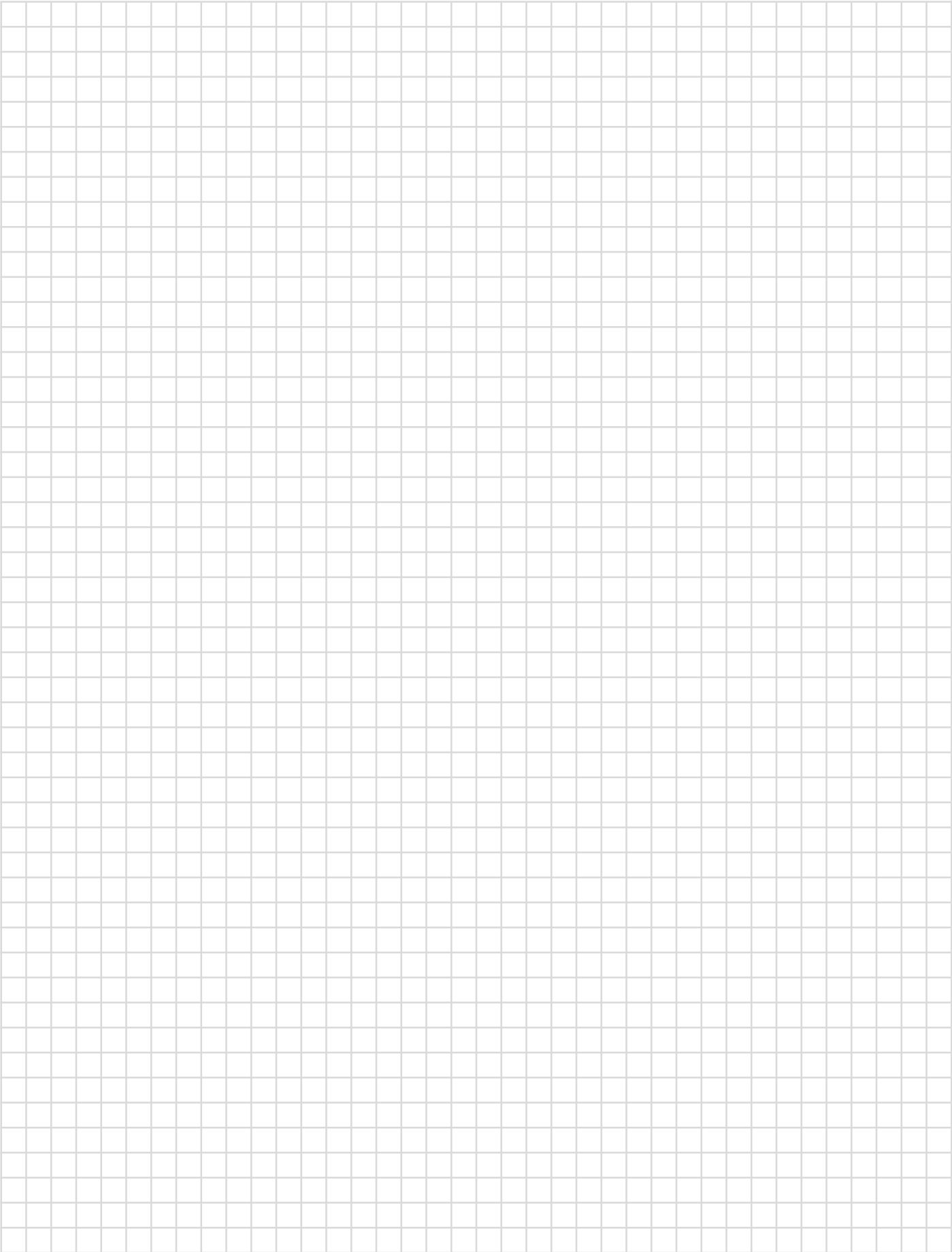
For connection to 1/2"



Size	ITEM No	Qty
1"-1/2"	C352007001	1



# NOTES





# MANIFOLDS



- Fully pre-assembled / modular
- Nominal working temperature: 50°C
- Maximum temperature: 65°C
- Maximum working pressure: 6 bar at 65°C
- Testing pressure: 10 bar at 20°C
- Standards: EN 1264 and DIN 4725 for underfloor heating

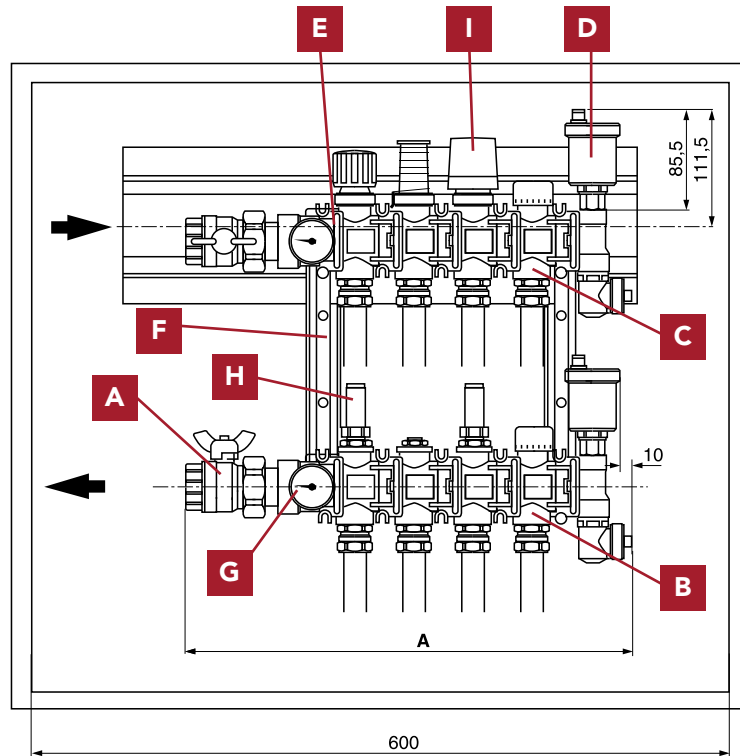
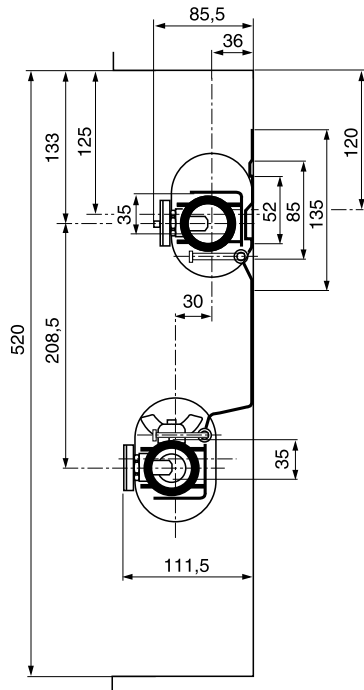
## BENEFITS

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- Excellent temperature insulation properties; supports both heating and cooling.
- Fully modular; groups can be added on the construction site if necessary.
- Mountable in any position (very convenient if the pipes come from the ceiling, for example).
- Fast installation; the manifold is supplied completely pre-assembled.
- Wide range of accessories; each part can be ordered individually.

## TECHNICAL SPECIFICATIONS

- Upper bar circuit pipe connections inlet: Thermostatic M30 ¾ Eurocone.
- Lower bar circuit pipe connections return: Lock shield ¾ Eurocone with memory setting.
- Fixation bracket: Inox steel.
- Automatic air vents.
- 2 thermometers (on inlet and return).
- Inlet/outlet valves (not included): Comap ball valve 6806P 5/43 - 1" connection.
- Should always be used in combination with the Comap mechanical connection 835PE ¾ Eurocone, available in all international underfloor heating pipe dimensions: 14 x 2, 16 x 2, 17 x 2, 20 x 2, 16 x 1.5 and 20 x 1.9.



- A** 6806P ball valve 1" (only K9000P & K9000TP)
- B** Lockshield ¾ Eurocone
- C** D3809 inlet valve, thermostatic M30 ¾ Eurocone
- D** 3081 automatic air vent
- E** 9000HK removable connection clip
- F** 9832 inox bracket with pre-drilled holes
- G** 9839 thermometer
- H** 9071PTM flow meter 1-4l (only on K9000TP)
- I** M050 electrothermal actuator (optional)

## DIMENSIONS

Article code	Number of circuits	Length* (mm)	Depth (mm)	Height (mm)	Cabinet length* (mm)
C321001001	2	280	111.5	520	400
C321002001	3	331	111.5	520	400
C321003001	4	382	111.5	520	600
C321004001	5	433	111.5	520	600
C321005001	6	484	111.5	520	600
C321006001	7	535	111.5	520	600
C321007001	8	586	111.5	520	800
C321008001	9	637	111.5	520	800
C321009001	10	688	111.5	520	800

\* Including COMAP ball valves 6806P

## CABINETS

- The cabinet 9860 (Sprint type) has a specially designed connection rail for use with the synthetic manifold and is therefore recommended. The manifold can easily be hung in the cabinet with no need for any tools.
- The synthetic manifold is also compatible with the V9016 and V9018 cabinets. Here, the manifold is connected via pre-drilled holes in the brackets.
- For 11 and 12 groups, a cabinet length of 1,000mm is required.

## ACCESSORIES

Reference	Description
KE9000P	Extension kit for 9000P
9052P	Complete inlet/end module
9071	PTM flow meter 1-4l
VMP(L)	Connectors
VMP05	Elbow connector
9000HK	Module clip for patented connection system
3081	Automatic air vent
5210	1" mud deposit collector
KE9000TP	Extension kit for 9000TP
D3809	Preset thermostatic valve M30
6806P	Ball valve 5/4" x 1"
9839	Thermometer
9000JT	O-ring
9832	Inox mounting bracket
9869	Graphic labels for marking circuit

## REGULATION OF INDIVIDUAL ROOM TEMPERATURE

- Regulation is performed using Comap M30 electro thermal valves that click easily onto the manifold.
- Comap offers a complete range of regulation products. See pages 434-443 or contact the Biofloor team for more information.

# NOTES

A large grid of graph paper for taking notes, consisting of 20 columns and 30 rows of small squares.

## CONNECTIONS & PIPES FOR RADIANT HEATING & COOLING SYSTEMS

Comap offers wide range of pipes and connection fittings for under-floor heating and cooling systems.

For the complete range of **tubes**, please see pages 157 – 181.

For the complete range of **connection fittings**, please see pages 253 – 257.



### APPLICATIONS

Application	BetaSKIN	BetaPEX-RETUBE
Plus System	++	++
Tacker System	++	+
Dry System (14/16mm only)	++	-
Grid System	++	+

### TECHNICAL CHARACTERISTICS

Specifications	BetaSKIN	BetaPEX-RETUBE
Flexibility	+	+
Composition	PERT/AL	PEX-b
Colour / application	White / general application	Red / general application
Number of layers	5	1-(3)
Oxygen barrier	Light aluminium core	☒
Lifetime and strength	++	+
Availability	Available	Available

### BENEFITS

- High flexibility for easy installation.
- All insulation panels are specially designed for installation with Comap pipes.

### FEATURES

- Wide range of coil lengths.
- DN 14-16-18-20

## PIPES

### BETAPEX-RETUBE NATURAL

9002



Size	Length	ITEM No	Qty
16x2 - 100m	100m	B614002001	1
20x2 - 100m	100m	B614006001	1

### BETAPEX-RETUBE EVOH NATURAL

9003



Size	Length	ITEM No	Qty
16x2	100m	B613005001	1
16x2	200m	B613005002	1
16x2	600m	B613005003	1
17x2	200m	B613008001	1
18x2	200m	B613006002	1
20x2	100m	B613007001	1
20x2	200m	B613007002	1

### BETAPEX-RETUBE RED

9006



Size	Length	ITEM No	Qty
16x1,5	100m	B612001001	10
16x1,5	200m	B612001003	6
16x1,5	80m	B612001006	10

### BETAPEX-RETUBE EVOH RED

9005



Size	Length	ITEM No	Qty
16x1,5	120m	B613001002	10
16x1,5	200m	B613001003	6
16x1,5	240m	B613001004	6

### BIOSKIN PE/AL/PE

BIOSKIN

Extremely flexible UFH pipe  
Especially designed for underfloor heating application



Size	Length	ITEM No	Qty
11,6x2	200m	B13311002001	1

### BETASKIN PIPE ROLL

BS



Size	Length	ITEM No	Qty
14x2	100m	B212001001	1
16x2	100m	B212002001	1
16x2	200m	B212002002	1
20x2	100m	B212004001	1

## FITTINGS

### MECHANICAL FITTING 3/4" EUROCONE

#### 835P

For connecting pipe to the manifold



Size	ITEM No	Qty
14x2	A731004001	2
16x1,5	A731001001	2
16x2	A731002001	2
17x2	835872	2
20x2	A731003001	2

### SKINPRESS VISUCONTROL

#### S7270V

Straight repair coupling



Size	ITEM No	Qty
14X2	745AXX	5
16x2	745BXX	2
20x2	745EXX	2

### SKINPRESS VISUCONTROL

#### S7359GV-E

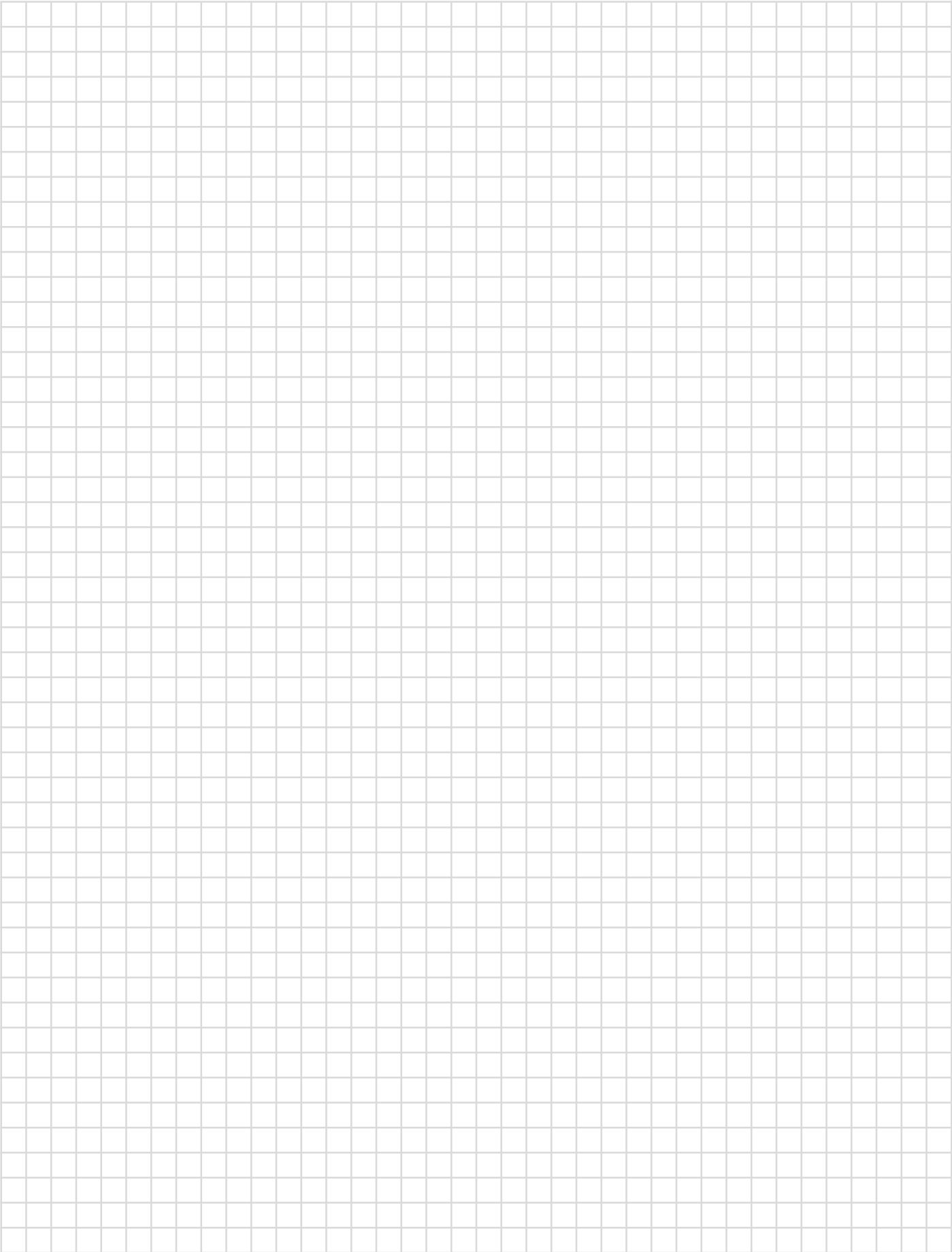
Female swivel nut O-ring 3/4" Eurocone



Size	ITEM No	Qty
16x2 - 3/4E	763BDX	2
20x2 - 3/4E	763EDX	2



# NOTES



## REGULATION AND ACCESSORIES

We offer both wired and wireless regulation devices for our underfloor heating and cooling systems. They are all designed for quick, easy installation, enhanced comfort and maximum energy savings.

The system works on a pulse width modulation basis, specially designed for radiant heating and cooling applications that have a certain amount of temperature inertia. The PWM principle guarantees that the room temperature is never more than 0.25°C away from the desired set temperature.



### APPLICATIONS

#### WIRELESS REGULATION (24V-868MHZ)

Desired functionality		Required components										
Basic heating control	Pump unit control	Cooling	Timer (2 groups)	Number of zones	Control unit		Thermostat	Actuator & adapter	Basic pump module	Double pump module	Cooling control	Timer
					C422002001	C422001001	C421005001	C430024001	C430011001	C430029001	C430021001	C430020001
☐				<6	✓		✓ (1-6)	✓ (max 13)				
☐				<12		✓	✓ (7-12)	✓ (max 13)				
☐	▶			<6	✓		✓ (1-6)	✓ (max 13)	✓	✓ (option)		
☐	▶			<12		✓	✓ (7-12)	✓ (max 13)	✓	✓ (option)		
☐		❄		<6	✓		✓ (1-6)	✓ (max 13)			✓	
☐		❄		<12		✓	✓ (7-12)	✓ (max 13)			✓	
☐			🕒	<6	✓		✓ (1-6)	✓ (max 13)				✓
☐			🕒	<12		✓	✓ (7-12)	✓ (max 13)				✓
☐	▶	❄		<6	✓		✓ (1-6)	✓ (max 13)	✓	✓ (option)	✓	
☐	▶	❄		<12		✓	✓ (7-12)	✓ (max 13)	✓	✓ (option)	✓	
☐	▶		🕒	<6	✓		✓ (1-6)	✓ (max 13)	✓	✓ (option)		✓
☐	▶		🕒	<12		✓			✓	✓ (option)		✓
☐	▶	❄	🕒	<6	✓		✓ (1-6)	✓ (max 13)	✓	✓ (option)	✓	✓
☐	▶	❄	🕒	<12		✓	✓ (7-12)	✓ (max 13)	✓	✓ (option)	✓	✓

WIRED REGULATION (24V)

Desired functionality					Required components										
Basic heating control	Pump unit control	Cooling	Timer (2 groups)	Number of zones	Required components										
					Control unit		Thermostat Basic	Thermostat Programmable	Thermostat Heat + Cool	Actuator & adapter	Basic pump module	Double pump module	Cooling control	Timer	
					C412003001	C412004001	C411006001	C411008001	C411009001	C430024001	C430019001	C430021001	C430021001	C430020001	
				1		✓	✓ (1) or ✓ (1)			✓ (max 4)					
				2-6	✓		✓ (2-6) or ✓ (2-6)			✓ (max 14)					
				1		✓	✓ (1) or ✓ (1)			✓ (max 4)	✓ or ✓				
				2-6	✓		✓ (2-6) or ✓ (2-6)			✓ (max 14)	✓ or ✓				
				1		✓	✓ (1)			✓ (max 4)			✓		
				2-6	✓		✓ (2-6)			✓ (max 14)			✓		
				1		✓	✓ (1) or ✓ (1)			✓ (max 4)				✓	
				2-6	✓		✓ (2-6) or ✓ (2-6)			✓ (max 14)				✓	
				1		✓	✓ (1)			✓ (max 4)	✓ or ✓		✓		
				2-6	✓		✓ (2-6)			✓ (max 14)	✓ or ✓		✓		
				1		✓	✓ (1) or ✓ (1)			✓ (max 4)	✓ or ✓			✓	
				2-6	✓		✓ (2-6) or ✓ (2-6)			✓ (max 14)	✓ or ✓			✓	
				1		✓	✓ (1)			✓ (max 4)	✓ or ✓		✓	✓	
				2-6	✓		✓ (2-6)			✓ (max 14)	✓ or ✓		✓	✓	

WIRED REGULATION (230V)

Basic heating control	Pump unit control	Timer (2 groups)	Number of zones	Required components									
				Control unit		Thermostat Basic	Thermostat Programmable	Actuator & adapter	Control for max. 1 pump	Control for max. 2 pumps	Timer		
				C412002001	C412004001	C411006001	C411009001	C430023001	C430018001	C430028001	C430020001		
			1		✓	✓ (1) or ✓ (1)		✓ (max 4)					
			2-6	✓		✓ (2-6) or ✓ (2-6)		✓ (max 14)					
			1		✓	✓ (1) or ✓ (1)		✓ (max 4)	✓ or ✓				
			2-6	✓		✓ (2-6) or ✓ (2-6)		✓ (max 14)	✓ or ✓				
			1		✓	✓ (1) or ✓ (1)		✓ (max 4)				✓	
			2-6	✓		✓ (2-6) or ✓ (2-6)		✓ (max 14)				✓	
			1		✓	✓ (1) or ✓ (1)		✓ (max 4)	✓ or ✓			✓	
			2-6	✓		✓ (2-6) or ✓ (2-6)		✓ (max 14)	✓ or ✓			✓	

## BENEFITS

- 'Click and run'.
- Easy 10-minute installation.
- 868 MHz, no interference (wireless regulation).
- Easy wiring (wired regulation).
- Comfort and savings thanks to pulse width modulation.
- Just click to add functions.

## FEATURES

- Complete range available in 24V and 230V.
- Wired and easy wireless 868Mhz.

## WIRELESS SYSTEM

### DIGITAL ROOM THERMOSTAT

#### M040

Wireless 868 MHz technology

- Including mounting panel and 2 x 1,5V AA battery
- Switch between day, night and automatic
- Soft touch operation accurate at 1/4°C Range 10°C - 28°C
- Battery life time 5 years
- Frost protection



ITEM No	Description	Colour	Qty
C421003001	Thermostat wireless 868MHz	White	10

### EXTENSION MODULE: TIMER

#### M093

- Extension module with double digital clock for programming the room temperature over time
- Easy to program with user friendly menu
- Menu available in 10 languages
- Works with M085
- 2 weekly programmes
- 42 settings
- Memory available for programming appr. 120 hours



ITEM No	Description	Qty
C430020001	Extension module timer 230V, 24V and 868MHz wireless	1

## ACTUATOR

#### M050

- Used for regulation of thermostatic valves on the manifold
- Adapter included
- Normally closed version
- Easy to use click connection system - no tools needed
- 100% water proof (IP54)
- Power 1,8W
- Cable length 1m (2 x 0,75mm<sup>2</sup>)
- Visual check open / close



ITEM No	Description	Colour	Qty
C430024001	Electrothermal Actuator 24V NC	White	1

## ADAPTER

#### M060

- M30 x 1.5 adapter for connecting the actuator to the manifold



ITEM No	Description	Colour	Qty
C430025001	Adapter M30 x 1,5	Grey	1

## CONTROL UNIT

### M085

- Wireless control unit for operating the thermostats and actuators
- Operates the 868MHz thermostats and 24V actuators
- Expandable
- Clear visual led indication of active groups
- Includes 50 VA transformer



ITEM No	Description	Colour	Max number of actuators	Qty
C422001001	Control unit wireless 868MHz - Basis 6 zones	Grey casing with transparent cover	13	1
C422002001	Control unit wireless 868MHz - Basis 12 zones	Grey casing with transparent cover	13	1

## EXTENSION MODULE: PUMP UNIT CONTROL - SINGLE

### M091

Extension module for M085 & M070, adds on/off control for pump unit or other electric device  
Interval setting for pump during summertime  
2 x 230 VA / 5A  
Capacity 2 x NYM 2 x 1.5 mm<sup>2</sup>



ITEM No	Description	Colour	Qty
C430019001	Extension module pump unit / 24V and 868MHz wireless	Grey casing with transparent cover	1

## EXTENSION MODULE: PUMP UNIT CONTROL - DOUBLE

### M092

Extension module for M085, adds on/off control for 2 pump units or 2 other electric devices  
Interval setting for pump during summertime  
2 x 230 VA / 5A  
Capacity 2 x NYM 2 x 1.5 mm<sup>2</sup>



ITEM No	Description	Colour	Qty
C430029001	Extension module pump unit / 24V and 868MHz wireless	Grey casing with transparent cover	1

## EXTENSION MODULE: HEATING AND COOLING

### M094

Extension module for adding cooling functionality  
Primary sources like for example a heat pump switch the regulation automatically into the right mode  
Works with M085  
Heating / cooling led indication



ITEM No	Description	Colour	Qty
C430021001	Extension module heating/cooling 24V and 868MHz wireless	Grey	1

## WIRED SYSTEM

## DIGITAL ROOM THERMOSTAT - BASIC

### M010

Soft touch operation accurate at 1/4°C  
Range 10°C - 28°C  
Frost protection  
Delivered excluding wall mounting plate  
Color : White



ITEM No	Description	Colour	Qty
C411005001	Thermostat basis 230V	White	1
C411006001	Thermostat basis 24V	White	1

## DIGITAL ROOM THERMOSTAT - PROGRAMMABLE

### M020

Versions with (dis)connectable digital timer  
Both day and week programming  
7 days memory  
Switch between day, night and automatic  
Special saving mode while both in heating and cooling program  
Soft touch operation accurate at 1/4°C  
Range 10°C - 28°C  
Frost protection  
Delivered excluding wall mounting plate  
Color : White



ITEM No	Description	Colour	Qty
C411007001	Thermostat basis 230V	White	5
C411008001	Thermostat basis 24V	White	5

## DIGITAL ROOM THERMOSTAT - HEATING & COOLING

### M025

Switches automatically from heating to cooling mode based on ext. signal  
 Light indication for both heating or cooling mode  
 Special saving mode while both in heating and cooling program  
 Soft touch operation accurate at 1/4°C  
 Range 10°C - 28°C  
 Frost protection  
 Delivered excluding wall mounting plate  
 Color : White



ITEM No	Description	Colour	Qty
C411009001	Thermostat Heating and Cooling 24V	White	10

## EXTENSION MODULE: TIMER

### M093

Extension module with double digital clock for programming the room temperature over time  
 Easy to program with user friendly menu  
 Menu available in 10 languages Works with M085  
 2 weekly programmings 42 settings  
 Memory available for programming appr. 120 hours



ITEM No	Description	Colour	Qty
C430020001	Extension module timer 230V, 24V and 868MHz wireless	Grey	1

## WALL MOUNT PLATE FOR WIRED THERMOSTAT 24V/230V

### M030

Can be used for mounting all wired thermostats 24V/230V  
 Can be mounted directly on the wall or on a socket (DE & CH)  
 Recommended connection 5 x 1.5 mm<sup>2</sup> NYM  
 Wiring can be already be done already during the construction process. Afterwards the thermostats can be easily 'clicked in'  
 Color : Black



ITEM No	Description	Colour	Qty
C430022001	Wall mount plate for wired thermostat 24V & 230V	Black	10

## ACTUATOR

### M050

Used for regulation of thermostatic valves on the manifold  
 Adapter M060 included  
 Normally closed version  
 Easy to use click connection system - no tools needed  
 100% water proof (IP54)  
 Power 1,8W  
 Cable length 1m (2 x 0,75mm<sup>2</sup>)  
 Visual check open / close  
 Color : White



ITEM No	Description	Colour	Qty
C430024001	Electrothermal Actuator 24V NC	White	1
C430023001	Electrothermal Actuator 230V NC	White	1

## ADAPTER

### M060

M30 x 1.5 adapter for connecting the actuator to the manifold  
 Color : Grey



ITEM No	Description	Colour	Qty
C430025001	Adapter M30 x 1,5	Grey	1

## CONTROL UNIT

### M070

Control unit for operating the 24V or 230V thermostats and actuators  
 Additional functionalities and capacity can be added by connection extension modules  
 Clear visual led indication of active groups  
 The 24V versions includes a 50 VA transformer



ITEM No	Description	Colour	Max number of actuators	Qty
C412001001	Control unit 230V - 1 zone	Grey casing with transparent cover	4	1
C412002001	Control unit 230V - 6 zones	Grey casing with transparent cover	14	1
C412003001	Control unit 24V - 1 zone	-	4	1
C412004001	Control unit 24V - 6 zones	-	14	1

## EXTENSION MODULE: ADDITIONAL ACTUATORS

### M090

Extension module for M070, connecting 2 x 4 additional actuators



ITEM No	Description	Colour	Qty
C430016001	Extension module additional actuators 24V	Grey casing with transparent cover	1
C430026001	Extension module additional actuators 230V	Grey casing with transparent cover	1

## EXTENSION MODULE: ADDITIONAL THERMOSTATS

### M090B

Extension module for M070, connecting 2 additional thermostats



ITEM No	Description	Colour	Qty
C430027001	Extension module additional actuators 24V	Grey casing with transparent cover	1
C430017001	Extension module additional actuators 230V	Grey casing with transparent cover	1

## EXTENSION MODULE: PUMP UNIT CONTROL - SINGLE

### M091

Extension module for M085 & M070, adds on/off control for pump unit or other electric device

Interval setting for pump during summertime

2 x 230 VA / 5A

Capacity 2 x NYM 2 x 1.5 mm<sup>2</sup>



ITEM No	Description	Colour	Qty
C430018001	Extension module pump unit / 230V	Grey casing with transparent cover	1
C430019001	Extension module pump unit / 24V and 868MHz wireless	Grey casing with transparent cover	1

## EXTENSION MODULE: PUMP UNIT CONTROL - DOUBLE

### M092

Extension module for M085, adds on/off control for 2 pump units or 2 other electric devices

Interval setting for pump during summertime

2 x 230 VA / 5A

Capacity 2 x NYM 2 x 1.5 mm<sup>2</sup>



ITEM No	Description	Colour	Qty
C430028001	Extension module pump unit / 230V	Grey casing with transparent cover	1
C430029001	Extension module pump unit / 24V and 868MHz wireless	Grey casing with transparent cover	1

## EXTENSION MODULE: HEATING AND COOLING

### M094

Extension module for adding cooling functionality

Primary sources like for exmple a heat pump switch the regulation automatically into the right mode

Works with M085

Heating / cooling led indication



ITEM No	Description	Colour	Qty
C430021001	Extension module heating/cooling 24V and 868MHz wireless	Grey	1



# REGULATION

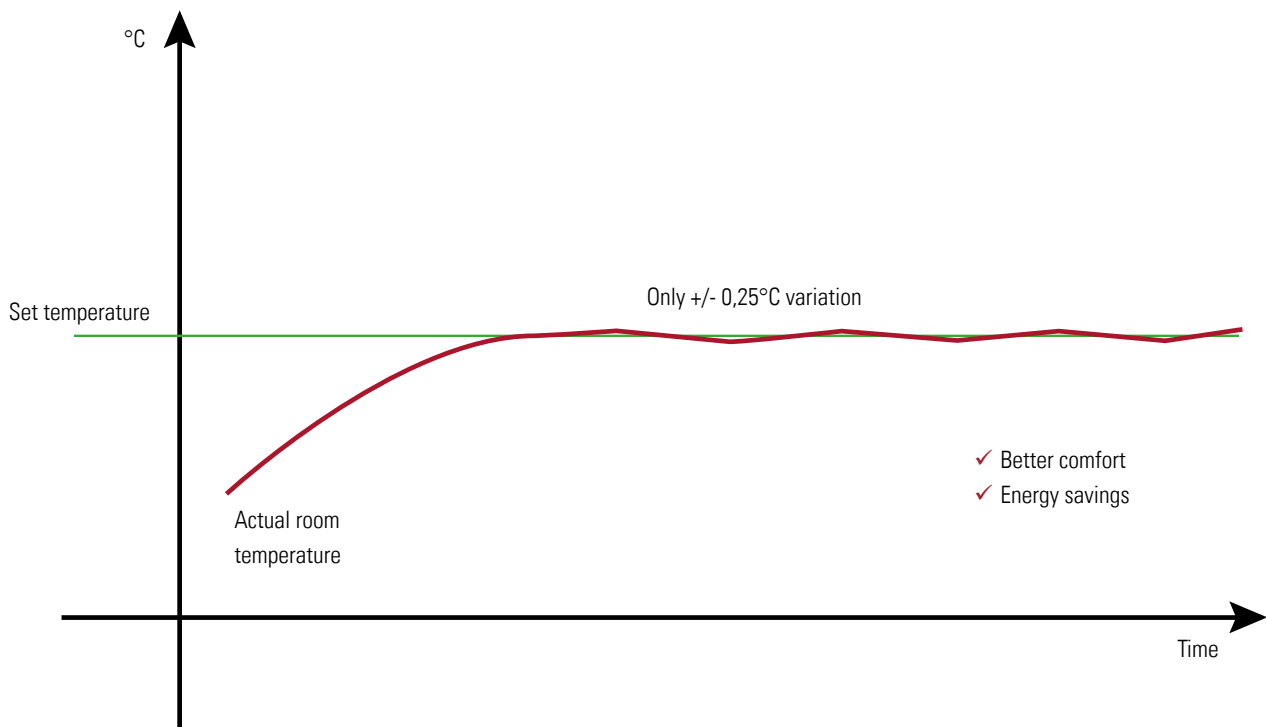
## THERMOSTAT



- $\frac{1}{4}^{\circ}\text{C}$  setpoint possible thanks to Pulse Width Modulation (PWM).
- Easy mounting on base plate.

## HOW DOES PULSE WIDTH MODULATION WORK?

### PWM principle



Result:

- ✓ Maximum comfort
- ✓ Energy savings



## WIRELESS SYSTEM – MORE BENEFITS



- Safe communication over 868MHz band
- Easy, fast and secure wiring without screws

## ACTUATOR

### Easy mounting



- Easy mounting concept.
- Turn and 'click'.



- Adapter ring included in the box.
- Adapter rings for non-Comap valves available on request.

## Waterproof



- Waterproof IP54.
- Upside down mounting possible.

## Easy operation

- *First Open Function:* Valve opens even without voltage.



- *Adapter control:* With the correct adapter ring the indicator will always protrude 0.5mm over the top of the actuator



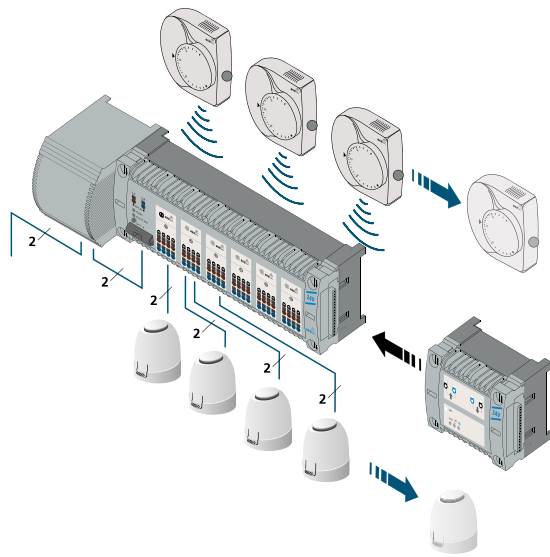
- *Clear position indication.*



- *Electrical safety:* High shortcut voltage (>3kV).



## CONTROL UNIT – MODULAR 'CLICK AND RUN' CONCEPT



click!

'Click on' moduls for:

- Pump control
- Pump and boiler control
- Heating-cooling changeover
- Extra thermostats
- Extra actuators



# Sanitary

## Safety and water savings

Comap provides a range of safety and protection devices for sanitary water supply. Our industry-leading expertise helps prevent sanitary risks and reduces water losses.

### APPLICATIONS

The Comap sanitary range protects the sanitary hot water loop. Safety Groups prevent overpressure in water tanks. Protection against excessive temperatures is provided by Thermostatic Mixing Valves

The flush mechanism offers an efficient and water-saving flush solution.

### BENEFITS

- Water saving
- Safety and security

Safety groups and thermostatic mixing valves	446
Building valves, fittings and accessories	454
La Trombe flush	466
Floats and flush mechanisms	468
Building valves, fittings and accessories	472

# SAFETY GROUPS AND THERMOSTATIC MIXING VALVES

Excellent construction quality and reliability have made Comap Safety Groups a favourite amongst installers.



## APPLICATIONS

Safety Groups protect the water tank from over-pressure. During heating, the pressure increases. An integrated safety valve automatically releases water until the pressure falls below a rated value. It also prevents pollution of the cold water supply by back flow of the hot water.

Thermostatic Mixing Valves deliver controlled and pre-settable tempered hot and cold water supplies. They protect users against scalding and automatically shut off if the cold water supply is stopped.

## TECHNICAL CHARACTERISTICS

### Safety Groups

Standard rated pressure: 7 bar

Model	Dimensions	Max PN and T rating	Max power rating	Water tank orientation and max volume
889	½"	PN10, 120°C	75 kW	Vertical, 200 l
	¾"		150 kW for ¾"	Vertical, 1000 l
889Inox	½"	PN10, 120°C	75 kW	Vertical, 200 l
	¾"		150 kW for ¾"	Vertical, 1000 l
Reverso	¾"	PN10, 120°C	150 kW	Vertical or horizontal, 1000 l
8881	1"	PN10, 120°C	250 kW	Horizontal, 1000 l

## THERMOSTATIC MIXING VALVES

Model	Dimensions	Max PN and T rating	Max number of points	Temperature range
605	MMM¾"	PN10, 100°C	16	40-60°C
605S	MMM¾"	PN10, 100°C	16	35-55°C

## BENEFITS

Model	Installer benefits
889	Filling and draining flow values above the standard requirement for faster installer intervention. Compliant with latest EN1487 revision and EN1717. Very accurate valve pre-setting for lower water losses.
889Inox	Stainless steel seat for chemically aggressive waters.
Reverso	Reverso for a versatile installation: only 1 reference for 2 requirements. Stainless steel seat and bronze body for high resistance to chemically aggressive waters.
8881	For bigger water tanks. Stainless steel seat for chemically aggressive waters.

## FEATURES

Model	Seat material
889	DZR brass
889Inox	Stainless steel
Reverso	Stainless steel
8881	Stainless steel

Certifications:  
Safety Groups: ACS 10 ACC LY 513 and NF: 133-M1-09/1  
Thermostatic Mixing Valves: ACS 10 ACC LY 517



## SAFETY GROUPS

### VERTICAL SAFETY GROUP, BRASS SEAT

**889**

EN 1717 compliant, Antipollution



Model	Size	ITEM No	Qty
7 Bar	1/2"	889004-01	1
7 Bar	3/4"	889006-01	1
7 Bar	* 1/2"-3/4"	8890049-01	1

\* Delivered with reduction connector 3/4" - 1/2" 886

### VERTICAL SAFETY GROUP, STAINLESS STEEL SEAT

**889 INOX**

EN 1717 compliant, Antipollution, dielectric union



Model	Size	ITEM No	Qty
7 Bar	3/4"	R110007001	1

### VERSATILE SAFETY GROUP, STAINLESS STEEL SEAT, DIELECTRIC UNION, BRONZE BODY

**REVERSO**

Antipollution dielectric union, bronze body



Model	Size	ITEM No	Qty
7 Bar	3/4"	890506	1

### HORIZONTAL SAFETY GROUP

**8881**

Antipollution



Model	Size	ITEM No	Qty
7 Bar	1"	888108	1

## SAFETY GROUP SET

**KIT N°1**

Safety group (889) + discharge syphon (8877) NF



Model	Size	ITEM No	Qty
7 Bar	3/4"	889050-01	1

## DISCHARGE SYPHON

**8877**

For safety groups 889, 889INOX, 8881 and REVERSO



Size	ITEM No	Type	Qty
1"	887708	F	10

## REDUCTION FOR SAFETY GROUPS

**886**



Size	ITEM No	Type	Qty
3/4" to 1/2"	886006	MF	1

## COLLECTOR FOR 1" SAFETY GROUP

**8886**



Size	ITEM No	Type	Qty
1"1/4	888608	FMM	1

## DIELECTRIC JOINT FOR 889 SERIES

**8896**



Size	ITEM No	Type	Qty
3/4"	889606	MF	2

## THERMOSTATIC MIXING VALVES

### THERMOSTATIC MIXING VALVE, ADJUSTABLE

**605**



Model	Size	ITEM No	Qty
40-60°C	MMM 3/4"	605006	1

### THERMOSTATIC MIXING VALVE, ADJUSTABLE AND LOCKABLE

**605S**

Delivered with the key to lock the handwheel



Model	Size	ITEM No	Qty
35-55°C	MMM 3/4"	6050063	1



# NOTES

A large grid of graph paper for taking notes, consisting of 20 columns and 30 rows of small squares.



# SAFETY GROUPS

889 Stainless Steel



Reverso



8881



## RANGE OVERVIEW

Water quality	889 Standard	889 Stainless Steel	Reverso
<b>Minerals (iron, sodium, etc.)</b>			
Heavily loaded	✓	✓	✓
Poorly loaded	✓✓	✓✓	✓✓
<b>Acidity Ph</b>			
Neutral water pH=7 to 8.5	✓✓	✓✓	✓✓
Acidic water pH = 6.5 to 7	✗	✓✓✓	✓✓✓
<b>Limestone (TH)</b>			
Soft water (TH<15°F)	✗	✓✓	✓✓
Hard water (TH< 15 to 25°F)	✓✓	✓✓	✓✓
Very hard water (TH>30°F)	✓	✓✓✓	✓✓✓

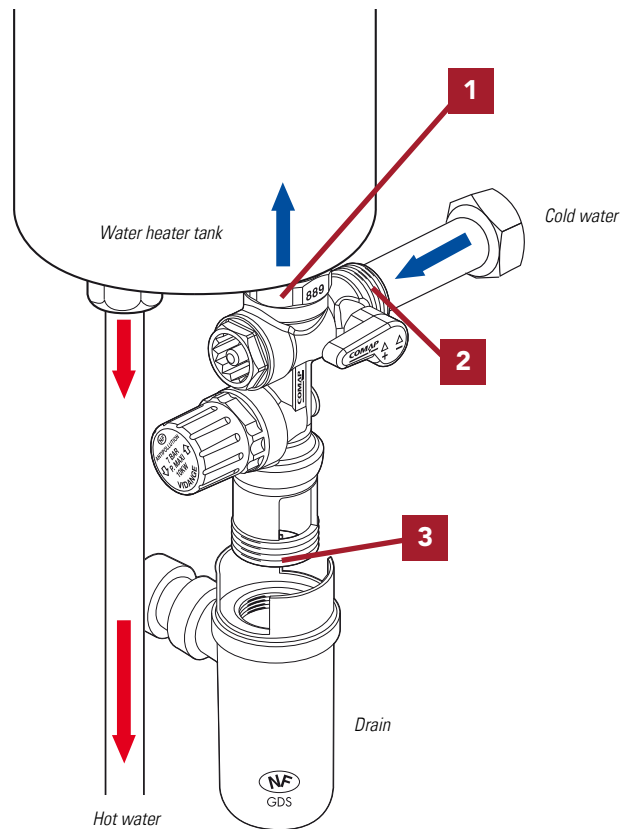
## Operation and hydraulic characteristics

Designation	NF Requirement	889 Stainless Steel	889	8881	Reverso
<b>Operation characteristics</b>					
Maximum working pressure		PN 10	PN 10	PN 10	PN 10
Maximum working temperature		120°C	120°C	120°C	120 °C
<b>Boiler max. power rating</b>		½": 75kW – ¾": 150 75kW	½": 75kW – ¾": 150 75kW	250kW	150 kW
<b>Safety valve</b>					
Factory setting pressure	7 bar	7 bar	7 bar	7 bar	7 bar
Discharge flow rate under 7.35 bar	2.4 l/h	≥ 2.4 l/h	2.4 l/h	≥ 2.4 l/h	
Steam flow rate under 8.4 bar	220 kg/h	≥ 260 kg/h	260 kg/h	325 kg/h	260 kg/h
"Pop" flow rate under 8.4 bar	≥ 600 l/h	5 300 l/h	5 300 l/h	6 800 l/h	5 300 l/h
Discharge flow rate	440 l/h	≥300 l/h	440 l/h	780 l/h	450 l/h
<b>Check valve</b>					
Flow rate supply under 1 bar	≥ 3 528 l/h	3 700 l/h	3 700 l/h	5 5500 l/h	4 050 l/h
<b>Safety unit body</b>					
External tightness	25 bar	25 bar	25 bar	≥ 25 bar	25 bar

## INSTALLATION

### Universal distributor

For setting of two-pipe distributors use the same procedure as for lockshield. Use 334 key.



- 1 Should be directly mounted on the water heater tank with a female connection (1). Do not adapt a safety unit to a water tank with larger connection diameter.
- 2 Cold water supply line must be connected to the male connection (2).
- 3 The air gap must be oriented downwards. The 1" output connection (3) allows the mounting of a siphon, ref 8877 .1". The drain pipe should not be undersized below a minimum 25mm.

Tips:

- Install a pressure reducing valve before the security group if the incoming pressure is over 75% of the factory setting pressure: 5.25 bar.
- In order to prevent corrosion of the safety group, it is recommended to install the group on the cold water inflow of the water tank with a dielectric fitting 889606.

## SAFETY UNIT FUNCTIONS

### ● Discharge

Water tank discharge is done by a manual actuation of the safety valve (rotation according to arrows). The draining knob has 3 stable positions: closed, slightly open, and fully open.

### ● Isolation

The built-in ball valve allows isolation of the water tank from the cold water supply line.

### ● Draining

The water is drained without splashes by the siphon.



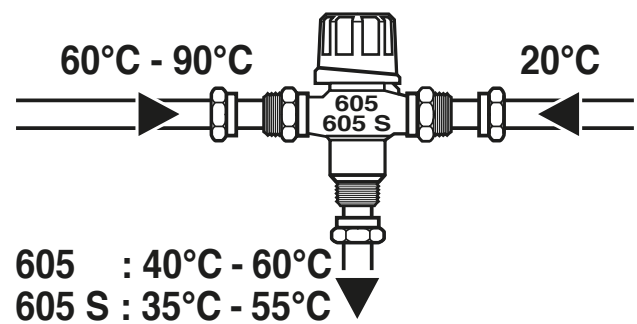
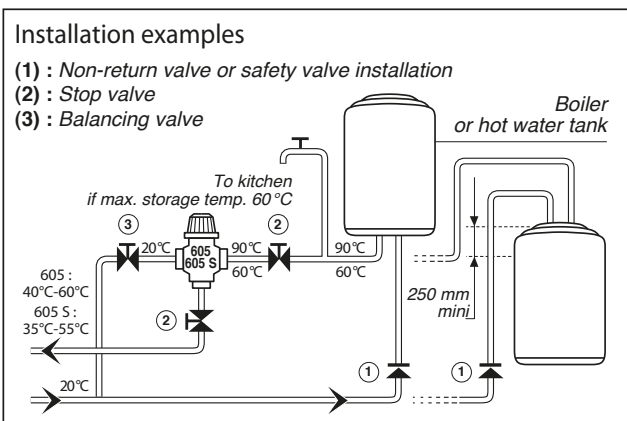
# THERMOSTATIC MIXING VALVES

## SELECTION

### Operation and hydraulics characteristics

- Max working pressure: 10 bar
- Max working temperature: 100°C
- White fixed control wheel
- Tamperproof head 605S
- Hot water shut-off

## INSTALLATION



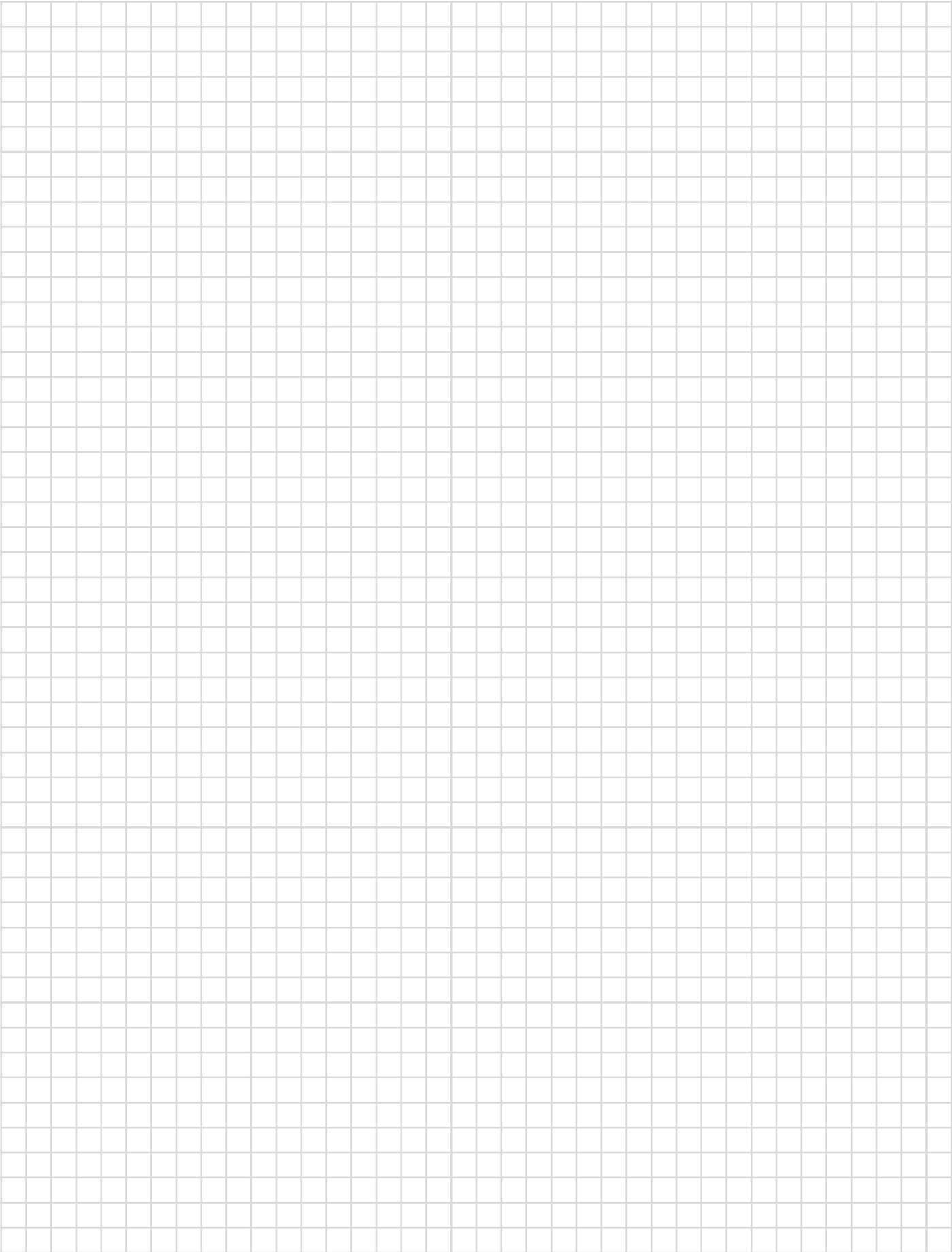
### Recommendations

- Recommended water pressure is between 2 and 5 bar with a maximum flow rate of 1.5m/s.
- The thermostat must be mounted just under the hot water boiler.
- Cold water pressure at the inlet of the thermostat must always be at least 0.2 bar higher than hot water pressure.

### Regulator utilisation

- Maximum of 16 draw-off points, taking into account multiple simultaneous usages.
- For non-residential applications, maximum 4 showers (e.g collective showers), the hot water thermostats often have to be mounted in parallel for additional draw-offs. Values are for 1 bar head loss.

# NOTES



# BUILDING VALVES, FITTINGS AND ACCESSORIES

## VALVES, FITTINGS & SANITARY ACCESSORIES

### «S» FAUCET SPOUT

**2450**

with valve-nozzle



Size	ITEM No	L	H	Qty
1/2	4151	145	110	1
1/2	4152	195	110	1

### «SWAN-NECK» FAUCET SPOUT WITH AERATOR

**2452**



Size	ITEM No	L	H	Qty
1/2	4080	140	185	1
1/2	4081	180	220	1
3/4	4082	135	190	1
3/4	4083	185	210	1
3/4	4084	220	270	1

### «S» FAUCET SPOUT

**2453**

with aerator



Size	ITEM No	L	H	Qty
1/2	4085	145	110	1
1/2	4086	195	110	1
1/2	4087	245	110	1
1/2	4088	295	110	1
3/4	4091	150	110	1
3/4	4092	195	125	1
3/4	4096	400	125	1

### «SWAN-NECK» FAUCET SPOUT

**2454**

with valve-nozzle



Size	ITEM No	L	H	Qty
3/4	4148	245	190	1
3/4	4149	295	210	1
3/4	4150	150	270	1

## AERATOR NF FEMALE

**2470**

with plastic anti scale grid



Size	ITEM No	Qty
22x100	3292	10
22x100	3947	250
22x100	6072	1

## AERATOR NF MALE

**2471**

with plastic anti scale grid



Size	ITEM No	Qty
24x100	6056	5
24x100	3290	10
24x100	6074	1
28x100	3291	5

## FLOW CONTROL MALE-FEMALE

**2472**

for shower (10l / mn)



Size	ITEM No	Qty
1/2	3229	1

## STACK MALE-MALE,

**2632**

Large model without nut CB



Size	ITEM No	L	H	Qty
1/2-3/4	3799	68	50	2

## STACK MALE-MALE,

**2634**

neck 45 mm without nut CB



Size	ITEM No	L	H	Qty
1/2-3/4	4134	70	45	2

## STACK MALE-FEMALE, LARGE MODEL

**2646**



Size	ITEM No	L	H	Qty
1/2-3/4	2439	68	50	2

\* Undivisible packaging

## STACK MALE-MALE, LARGE MODEL

**2647**



Size	ITEM No	L	H	Qty
1/2-3/4	2444	70	45	2

## STACK MALE-FEMALE, SMALL MODEL

**2648**



Size	ITEM No	L	H	Qty
1/2-1/2	4113	43	45	2

## STACK MALE-MALE, SMALL MODEL

2649



Size	ITEM No	L	H	Qty
1/2-1/2	4117	43	45	2

## GROHE MECHANISM FOR GROHE VALVES

2438S

Rubber flapgate



Size	ITEM No	Qty
1/2	2741	10
3/8	2131	10
3/4	2742	10

## PANGAUD MECHANISM FOR STANDARD VALVES

2436



Size	ITEM No	Description	Qty
1/2" 3/4 tour	1822	TPS 10426 compatibility	10
18x150 1/4 tour	2687	TPS 17140 compatibility	10

## COMPATIBILITY CROSS HANDLE

2440CA



ITEM No	Description	Qty
2696	Cross handle ABS 3 pans 46C1.2	1
2958	Cross handle ABS 3 pans 46C1.6	1

## COMPATIBILITY CROSS HANDLE

2440CC



ITEM No	Description	Qty
3745	Cross handle ABS ribbed 46C3.3	1

## COMPATIBILITY CROSS HANDLE

3637



ITEM No	Description	Qty
3637	Cross handle metal 3 pans 46TZD	1

## PORCHER MECHANISM FOR STANDARD VALVES

2441



Size	ITEM No	Description	Qty
18x125	2950	Compatibility 846094	10

## PORCHER MECHANISM FOR STANDARD VALVES

2442



Size	ITEM No	Description	Qty
18x150	2951	Compatibility 546096/090	10



### PORCHER MECHANISM FOR STANDARD VALVES

2443



Size	ITEM No	Description	Qty
18x150	2952	Compatibility 511096	2

### PORCHER MECHANISM FOR STANDARD VALVES

2444



Size	ITEM No	Description	Qty
18x125	2953	Compatibility 541096	2

### PORCHER MECHANISM FOR STANDARD VALVES

2445



Size	ITEM No	Description	Qty
18x150	2954	Compatibility 820096/090	2

### PORCHER MECHANISM FOR STANDARD VALVES

2460



Size	ITEM No	Description	Qty
18x150	2957	Compatibility 841090	2

### IDEAL STANDARD MECHANISM FOR IDEAL STANDARD VALVES

2469



Size	ITEM No	Description	Qty
1/2	3693	Europa 0950280	10

### IDEAL STANDARD MECHANISM FOR STANDARD VALVES

2448



Size	ITEM No	Description	Qty
20x150	2972	Flamme 941003	10

### IDEAL STANDARD MECHANISM FOR STANDARD VALVES

2449



Size	ITEM No	Description	Qty
22x150	2973	Flamme 0941202	10

### JACOB DELAFON MECHANISM FOR JACOB DELAFON VALVES

2446



Size	ITEM No	Description	Qty
21x150	2970	Champagne 9995740	10

### JACOB DELAFON MECHANISM FOR JACOB DELAFON VALVES

2447



Size	ITEM No	Description	Qty
21x150	2971	Reims 9995862	10

### JACOB DELAFON MECHANISM FOR JACOB DELAFON VALVES

2467



Size	ITEM No	Description	Qty
3/8	3690	Reims 9996882	10

### JACOB DELAFON MECHANISM FOR STANDARD VALVES

2464



Size	ITEM No	Description	Qty
20x150	3687	Sanitaire DE 10 9995374	2

### JACOB DELAFON MECHANISM FOR STANDARD VALVES

2465



Size	ITEM No	Description	Qty
26x150	3688	Sanitaire DE 15 9995383	2

### JACOB DELAFON MECHANISM FOR STANDARD VALVES

2476



Size	ITEM No	Description	Qty
1/2	3696	Champagne II 9996332	10

### UNIVERSAL HEAD

2440

with cross handle ABS flapgate 16 to 32 mm



Size	ITEM No	Qty
17x150	3295	10
18x150	3296	1
19x150	3297	1
21x150	3299	1
3/8	3301	1
1/2	3302	1

### UNIVERSAL HEAD WITH STEEL CROSS HANDLE

2440U

Flapgate 16 to 32 mm



Size	ITEM No	Qty
1/2	3312	1
3/8	3311	1
18x150	3306	10

## MINGORI HEAD

**2468**

- 81019098 ou 81019598



Size	ITEM No	Qty
19x125	3691	10

## CROSS HANDLE DRIVER

**2440E**

PORCHER type (screw included)



ITEM No	Qty
3746	10

## SINK VALVE 1/4

**681**

Blue / red handle



Size	ITEM No	Qty
3/8	3835	1
1/2	3836	1

## SINK VALVE 1/4

**681C**

Chrome handle



Size	ITEM No	Qty
3/8	1782	1
1/2	1783	1

## SINK VALVE 1/4 "REX"

**682**

Chrome handle



Size	ITEM No	Qty
1/2	10745	1

## SINK VALVE 1/4 "REX"

**682C**

Blue / red handle



Size	ITEM No	Qty
3/8	10740	1
1/2	10744	1

## ANGLE FLUSH COCK 1/4

**696**

long - biconal



Size	ITEM No	Qty
3/8-10	3007	5
10-1/2	3006	5

## ANGLE FLUSH COCK 1/4 SHORT

**696C**

Biconal



Size	ITEM No	Qty
10-1/2	3010	5

\* Operating handle supplied not assembled with valves 500 - 501 - 506.

## VALVE SELF-DRILLER 1/4

**692R**

for diameters 10 to 16 - With fittings



Size	ITEM No	Qty
1/2-3/4	3002	5

## VALVE SELF-DRILLER 1/4

**692RN**

for diameters 10 to 16 - No fittings



Size	ITEM No	Qty
1/2-3/4	3001	5
1/2-3/4	6080	1

## STRAIGHT FLUSH COCK 1/4

**699**

With handle - biconal



Size	ITEM No	Qty
12-10	3127	10
12-12	3096	10
14-10	3128	10
14-14	3097	10

## VALVE MALE-FEMALE

**502**

Fixed nut 1 / 2"



Size	ITEM No	Qty
1/2	4578	5

## VALVE 1/4 TURN FOR WASHING MACHINE

**694**

No fittings



Size	ITEM No	Qty
1/2-3/4	3013	5

## LUXURY BRACKET

**684**

male output CB nut



Size	ITEM No	Qty
1/2-1/2	3027	1
1/2-3/4	3028	1

## WASHING MACHINE VALVE Y DOUBLE

**694Y**

No fittings



Size	ITEM No	Qty
1/2-3/4	3005	1

## WASHING MACHINE VALVE

**693**

No fittings



Size	ITEM No	Qty
1/2-3/4	2457	5

## SUPPLY BODY

**686**

for Sanitary valves



Size	ITEM No	Qty
1/2-1/2	3008	1
3/4-3/4	3009	1

## BRACKET

**685**

Raw



Size	ITEM No	Qty
1/2	1792	10
3/4	1793	5

## BRACKET

**685C**

Chrome plated



Size	ITEM No	Qty
1/2	1798	1

## BRACKET

**685P**

Polished



Size	ITEM No	Qty
3/4	1796	1
1/2	1795	1

## BRACKET WITH NUT

**683CB**

Raw



Size	ITEM No	Qty
14-1/2	2949	5

## BRACKET WITH NUT

**683CBC**

Chrome



Size	ITEM No	Qty
14-1/2	3022	5
1/2-1/2	3757	5

## FITTING FEMALE-FEMALE WITH SWIVEL NUT

**2633**



Size	ITEM No	Qty
1/2-1/2	3527	2
1/2-3/4	3528	2
3/4-3/4	3529	2

## STRAIGHT FITTING MALE-FEMALE

**2653**



Size	ITEM No	Qty
1/2-1/2	3525	2
1/2-3/4	3526	2

## STRAIGHT FITTING MALE-FEMALE

2654



Size	ITEM No	Qty
M1/2-F3/4	3604	2

## FITTING MALE-MALE STRAIGHT

2635



Size	ITEM No	Qty
3/4-1/2	2113	2
1/2-1/2	2112	2

## ELBOW MALE-FEMALE

2639

Swivel nut



Size	ITEM No	Qty
M1/2-F1/2	3910	2

## ELBOW FEMALE FIXED -FEMALE

2640



Size	ITEM No	Qty
F1/2fixe-1/2	3914	2

## ELBOW MALE-FEMALE

2658



Size	ITEM No	Qty
1/2	3697	2
3/4	3698	2

## ELBOW MALE-MALE

2659



Size	ITEM No	Qty
1/2	3699	2
3/4	3700	2

## WALL MOUNTING FITTING MALE-FEMALE

2636

25mm off-centered flat Short threaded



Size	ITEM No	Qty
1/2-1/2	3628	2
1/2-3/4	3629	2

## WALL MOUNTING FITTING MALE-MALE

2637

25mm off-centered flat Short threaded



Size	ITEM No	Qty
1/2-1/2	3630	2

### WALL MOUNTING FITTING MALE-MALE

**3637**

25mm off-centered flat Short threaded



Size	ITEM No	Qty
1/2-3/4	3631	2

### WALL MOUNTING FITTING MALE-MALE

**2655**

40mm off-centered flat



Size	ITEM No	Qty
1/2-3/4	3996	2
3/8-3/4	3997	2

### WALL MOUNTING FITTING MALE-MALE

**2663**

double elbow



Size	ITEM No	Qty
1/2-3/4	3784	2

### WALL MOUNTING FITTING MALE-MALE

**2638**

off-centered



Size	ITEM No	Qty
1/2-3/4	2961	2
3/4-3/4	2960	2

\* Undivisible packaging

### WALL THROUGH MALE-FEMALE

**2650**



Size	ITEM No	Qty
1/2-1/2-75	3530	2
1/2-1/2-115	3531	2

### WALL THROUGH MALE-MALE

**2651**



Size	ITEM No	Qty
1/2-1/2-70	3532	2
1/2-1/2-110	3534	2
1/2-3/4-73	3533	2
1/2-3/4-113	3535	2

### STRAIGHT FITTING MALE-FEMALE

**2652**



Size	ITEM No	Qty
1/2-3/8	2105	2
1/2-1/2	2106	2
3/4-1/2	2107	2

## BOX MALE-MALE 5MM OFF-CENTERED

2656



Size	ITEM No	Qty
1/2-1/2	2140	2
1/2-3/4	2141	2
3/4-3/4	2142	2

## BOX MALE-FEMALE 5MM OFF-CENTERED

2657



Size	ITEM No	Qty
M3/8-F1/2	2143	2
M1/2-F1/2	2144	2
M1/2-F3/4	2145	2
M3/4-F3/4	2146	2

## ROSACE

2641



Size	ITEM No	Qty
1/2	2134	10

## ROSACE WITH MOLDING - HEIGHT 2,5

2642



Size	ITEM No	Qty
18	2137	10
21	2138	10
28	2459	10

## OPEN ROSACE WITH SVALVELESS - HEIGHT 9,5

2643



Size	ITEM No	Qty
12	888	10
14	907	10
16	908	10
18	927	10
21	928	10
28	975	10
33	976	10

## ROSACE FOR OFF-CENTERED FITTING

2644

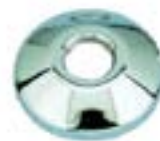


Size	ITEM No	Qty
h24-1/2	3537	10
h26-3/4	3538	10

\* Undivisible packaging

## LUXURY ROSACE - HEIGHT 15

2660



Size	ITEM No	Qty
3/8	2135	10
1/2	2136	10
3/4	3126	10



## ROSACE - HEIGHT 24,5

2661



Size	ITEM No	Qty
10	3724	10
12	3725	10
14	3726	10

## HOLE COVERING FOR WHITE EPOXY WASHBOWL

2662

External diameter 43 mm



ITEM No	Qty
3318	2

## HOLE COVERING FOR CHROMED POLISHED WASHBOWL

2645

External diameter 43 mm



ITEM No	Qty
3018	2

## LA TROMBE FLUSH

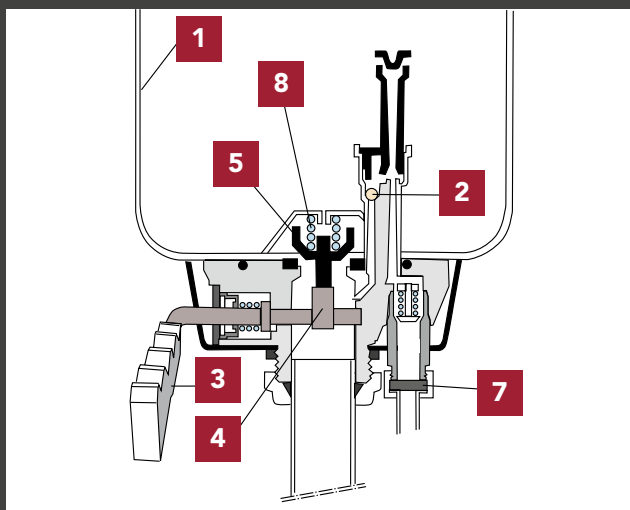
The AR 2001 "La Trombe" is a hydropneumatic flush. The water is forced out by the pressure of the compressed air through the water network, located in the top of the waterspout.



### APPLICATIONS

- Any public places, such as cafés, restaurants and communal buildings (due to the impregnability of the product).
- Confined spaces.

### TECHNICAL CHARACTERISTICS



1. Tank: rilsan coated steel, inside & outside
2. Ball: stainless steel
3. Handles: acetal
4. Anti-return valve
5. Valve
6. Cam
7. Filter: stainless steel grid
8. Stainless steel spring

*Note: The component parts (1-8) are not sold separately. Replacements are with the conversion kit 2986 and controller kit 2987 (see page xxx).*

### BENEFITS

- Space-saving: "La Trombe" fits most confined places and allows installation of the seat against the wall.
- Impregnability: no access to the mechanism.
- Save water with every flush.
- Powerful flush action.

### FEATURES

- Working pressure: 3-6 bar.
- Capacity: 11.5 to 12 litres of water.
- The flow is adjusted based on the networks pressure.

## LA TROMBE AR 2001

### LA TROMBE - HYDRO FLUSH

**2980**

With an anti-return valve



ITEM No	Qty
2982001	1

\* Undivisible packaging

### HANDLE KIT WITH CAM FOR AR 2000 AND ARS

**2987**



ITEM No	Qty
P075200	1

## LA TROMBE AND ACCESSORIES

### CHROME PIPE

**2981**



Size	ITEM No	Qty
0,6m-30x32	P069300	1
0,8m-30x32	P067500	1

### PLASTIC PIPE

**2982**



Size	ITEM No	Qty
0,6m-30x32	P069400	1
0,8m-30x2	P067600	1

### REPLACING KIT

**2985**

other flushes from other brands



ITEM No	Qty
P068000	1

### TRANSFORMATION KIT FOR AJS-ARS TO AR2001

**2986**

(also repairing for AR2000)



ITEM No	Qty
P072101	1

# FLOATS AND FLUSH MECHANISMS

## VALVES, FLOATS & FLUSH MECHANISMS

### LUXURY BRACKET TAP

**653**

Angle needle valves - Raw



Size	ITEM No	Qty
3/8	2230	10
1/2	2231	10

### LUXURY BRACKET TAP

**653C**

Angle needle valves - Chrome plated



Size	ITEM No	Qty
3/8	2235	10
1/2	2236	10

### STRAIGHT TAP

**658**

Straight needle valves - Raw



Size	ITEM No	Qty
3/8	2244	10
1/2	2245	10

### STRAIGHT TAP

**658C**

Straight needle valves - Chrome plated



Size	ITEM No	Qty
3/8	2246	10
1/2	2247	10

### FIXED NUT CHROMED STRAIGHT MALE

**689**



Size	ITEM No	Qty
3/8	6200073	5

## BRACKET TAP

**654**

Angle needle valves - Raw



Size	ITEM No	Qty
3/8	2240	10

## BRACKET TAP

**654C**

Angle needle valves - Chrome plated



Size	ITEM No	Qty
3/8	2241	10

## BRACKET TAP

**655**

Angle needle valves - Raw



Size	ITEM No	Qty
3/8	3287	10

## BRACKET TAP

**655N**

Angle needle valves - Nickel-plated



Size	ITEM No	Qty
3/8	3288	10

## FLOAT VALVE SIMPLE

**651**

Stem length 220 mm - Stainless steel seat



Size	ITEM No	Qty
1/2-1"	2195	5
1/2-3"	2197	5
3/8-1"	2192	5
3/8-3"	2194	5

\* 1 = Float valve simple \* 3 = with its fitting 2 pieces

## ADJUSTABLE FLOAT VALVE

**652**

Stem length 220 mm - Stainless steel seat



Size	ITEM No	Qty
1/2-1"	2213	5
1/2-3"	2215	5
3/8-1"	2210	5
3/8-3"	2212	5

\* 1 = Float valve simple \* 3 = with its fitting 2 pieces

## COPPER FLOATING BALL

**652F**

Copper



Size	ITEM No	Qty
80	2228	10

\* Undivisible packaging

## COPPER FLOATING BALL

### 652FP

Copper - Plastic heavy duty float



Size	ITEM No	Qty
85	2229	10

\* Undivisible packaging

## UNDERNEATH SUPPLYING

### 659

double elbow



Size	ITEM No	Qty
3/8	3065	1

## FLOAT VALVE

### 6205



Size	ITEM No	Qty
1/2	690004	1
3/4	690006	1
1"	690008	1
1 1/4	690010	1
1 1/2	690012	1

## COPPER FLOATING BALL FOR 6205 VALVE

### 6611A



Size	ITEM No	Qty
150-1/2	691148	1
200-3/4 and 1	691164	1
300-1 1/4 and 1 1/2	691185	1

## ADJUSTABLE MECHANISM JACOB DELAFON

### 641

Without overflow



ITEM No	N°	item	Qty
3330	-	Full mechanism	1

## ADJUSTABLE MECHANISM JACOB DELAFON

### 641S

Spare parts

ITEM No	N°	item	Square parts	Qty
3580	1	Plastic chrome button	1	1
3139	10	Straight stem	3	10
3583	4	Stirup + 2 screws	4	1
3585	6	Seat + 2 screws	6	1
3586	7	Flat seat seal	7	1
3588	16	Seat fixing kit	8	2

## ADJUSTABLE MECHANISM JACOB DELAFON

**642**

With overflow



ITEM No	N°	item	Qty
3331	-	Full mechanism	1

## ADJUSTABLE MECHANISM JACOB DELAFON

**642S**

Spare parts

ITEM No	N°	item	Qty
3589	2	Stem against elbow ø 4	1
3593	17	Pull tab kit	1

## ADJUSTABLE MECHANISM IDEAL STANDARD

**643**



ITEM No	N°	item	Qty
3051	-	Full mechanism	1

## RUBBER O-RING

**644**

For flush mechanism Jacob Delafon



Size	ITEM No	Qty
71,5-31	3685	10
71,5-31	3694	1

## RUBBER O-RING

**644S**

For flush mechanism - SIAMP



Size	ITEM No	Qty
89-25	3684	10

## RUBBER O-RING

**645**

For flush mechanism Porcher



Size	ITEM No	Qty
66-6,5	3713	10

## RUBBER O-RING

**645M**

For flush mechanism - MPMP

Size	ITEM No	Qty
65-25-4	3763	10
68-25-4	3765	10
69-27-3,5	3771	10

# BUILDING VALVES, FITTINGS AND ACCESSORIES

## STOP VALVES WITH BRACKET HEAD

### VALVE TO WELD

1673



Size	ITEM No	Qty
12	1705	1
14	1706	1
16	1707	1

### VALVE TO WELD WITH DRAIN PLUG

1674



Size	ITEM No	Qty
12	1712	1
14	1713	1
16	1714	1

### VALVE MALE-MALE

1675



Size	ITEM No	Qty
1/2	1719	1
3/4	1720	1
1"	1721	1

### VALVE FEMALE-FEMALE

1678



Size	ITEM No	Qty
1/2	1731	1
3/4	1732	1



## VALVES FOR WATER METERS

### STRAIGHT VALVE BEFORE METER

1686



Size	ITEM No	Qty
1/2-3/4	1750	1
3/4-3/4	1751	1

### STRAIGHT WATER BEFORE OR AFTER METER

1687



Size	ITEM No	Qty
1/2-3/4	3016	1

## VALVE HEADS

### HEAD BRACKET

1682



Size	ITEM No	Qty
1/4	1833	10
3/8	1861	10
1/2	1862	10
3/4	1863	10
1"	1864	10
17x150	1837	5
18x150	1838	10
19x150	1839	10
20x150	1840	10
21x150	1841	10
22x150	1842	10
23x150	1843	10
24x150	1844	5
25x150	1845	5
26x150	1846	10
27x150	1847	5
28x150	1848	5
29x150	1849	5
30x150	1850	5
31x150	1851	5
32x150	1852	5
33x150	1853	5
34x150	1854	5
35x150	1855	5
36x150	1856	5
36x200	2180	1
37x150	2181	1
38x150	2182	1
39x150	2183	1
40x150	2184	1
41x150	1857	1
42x150	1858	1

### COVER HEAD

1683



Size	ITEM No	Qty
1/2	1926	10

## INVIOLEABLE COVER HEAD

1684



Size	ITEM No	Qty
1/2	2396	10
3/4	2397	10

## T WRENCH

1685



Size	ITEM No	Qty
4	1963	10
5	1964	10
6	1965	5

## WATERING VALVES & FITTINGS - ACCESSORIES

### OBLIQUE DRAIN VALVE

1671



Size	ITEM No	Qty
1/2-3/4	1694	1

## DRAIN VALVE

1672



Size	ITEM No	Qty
3/8-1/2	1673	1
1/2-1/2	1674	1
1/2-3/4	1675	1
3/4-3/4	3759	1
3/4-1"	1676	1

### NICKEL PLATED DRAIN VALVE

1672N



Size	ITEM No	Qty
1/2-3/4	3285	1

### MONOBLOC LANCE

1735



Size	ITEM No	Qty
3/4	2602	5

## VALVE NOSE

1737



Size	ITEM No	Qty
12-1/2	2524	10
15-1/2	2525	10
15-3/4	2526	10
18-3/4	2527	10
18-1"	2529	10
20-3/4	2528	10
20-1"	2530	10
22-1"	2531	10
25-1"	2532	10
25-1 1/4	2533	5
30-1 1/4	2534	5

## SHORT LANCE - CYLINDRICAL FITTING

1736



Size	ITEM No	Qty
15-1/2	2608	5
15-3/4	2609	5
20-3/4	2611	5

## TWO CIRCUITS TAP NOSE

1741

threaded 3 / 4 - Swiveling nut 3 / 4



Size	ITEM No	Qty
F3/4-MM3/4	3824	10

## FLUTED FITTING WITH O-RING

1720



Size	ITEM No	Qty
14	3451	10
17	3452	10
20,5	3453	10
26	3455	5

## MALE FITTING WITH O-RING

1721



Size	ITEM No	Qty
3/8	3457	10
1/2	3458	10
3/4	3459	10
1"	3460	10

## FEMALE FITTING WITH O-RING

1722



Size	ITEM No	Qty
1/2	3464	10
3/4	3465	10
1"	3466	10

## RUBBER O-RING FOR WATER

1723



ITEM No	Qty
3469	10

## NEOPRENE O-RING FOR HYDROCARBON

1724



ITEM No	Qty
3470	10

## MALE FITTING

1700

Fittings for PEX pipes



Size	ITEM No	Qty
1/4-8	3340	10
3/8-12	3341	10
1/2-15	3342	10
3/4-20	3343	10
1"-26	3344	5
1 1/4-33	3345	5
1 1/2-40	3346	5
2"-50	3347	1

## FEMALE FITTING WITH SWIVELING NUT

1701

Fittings for PEX pipes



Size	ITEM No	Qty
1/4-8	3350	10
3/8-12	3351	10
1/2-15	3352	10
3/4-20	3353	10
1"-26	3354	5
1 1/4-33	3355	5
1 1/2-40	3356	5
2"-50	3357	1

## EQUAL TEE

1703

Fittings for PEX pipes



Size	ITEM No	Qty
12	3371	10
15	3372	10
20	3373	10

## STRAIGHT MALE FITTING

1710

Fittings with ring



Size	ITEM No	Qty
3/4-25	3401	10
1"-32	3402	5
20-1/2	3400	10

## CONNECTION FITTING

**1712**

Fittings with ring



Size	ITEM No	Qty
20	3414	10
25	3415	10
32	3416	5

## EQUAL TEE

**1713**

Fittings with ring



Size	ITEM No	Qty
20	3421	10
25	3422	10
32	3423	5

## ELBOW

**1714**

Fittings with ring



Size	ITEM No	Qty
20	3428	10
25	3429	5

## ELBOW BRACKET FEMALE

**1717**

Fittings with ring



Size	ITEM No	Qty
3/4-25	3449	5

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1ACU / 5001A	225	419E	353	644S	471	809Q - R809	326	1090	232
2ACU / 5002A	225	419EJT	353	645	471	809 - R809	325	1125	306
12A	339	419GCB	353	645M	471	823RMC	220	1210	277
12AC	339	419U	352	647	302	824RMC	220	1270	262
12U	339	419UJT	353	651	469	825	220	1274	306
27	276	431	353	652	469	825P	199	1276	262
40	305	432	328	652F	469	825P-3/4	199	1280	263
40CU / 5040	227	432L	328	652FP	470	829	198	1671	474
41CU / 5041	227	432TL	316	653	468	834	220	1672	474
60CU / 5060	227	434	328	653C	468	835	220	1672N	474
85CU / 5085	232	434L	329	654	469	835	340	1673	472
86CU / 5086	232	437	354	654C	469	835E	220	1674	472
90CU / 5090	226	439T	338	655	469	835EC	221	1675	472
90GCU / 4090G	250	442	358	655N	469	835ECD	341	1678	472
90GLCU / 4090GL	250	442B	358	658	468	835ECDECO	221	1682	473
90PCU	238	443E	354	658C	468	835ECDECOS	221	1683	473
92CU / 5092	226	444A	334	659	470	835P	199	1684	474
92GCU / 4092G	250	444E	334	660	303	835P	359	1685	474
96GCU / 4096G	250	445	335	661	303	835P	432	1686	473
110	176	448	355	662	303	835P - 3/4"	340	1687	473
112	176	448E	355	680	303	835P-3/4	199	1700	476
116	305	449	355	681	459	835PB	200	1701	476
117	305	449CB	356	681C	459	835PE	199	1703	476
118	305	449E	355	682	459	835PED	341	1710	476
119	176	449ECB	356	682C	459	835S	221	1712	477
120	176	449ECBR	356	683CB	461	835S	359	1713	477
121	188	449RCB	356	683CBC	461	836	221	1714	477
121	305	460C	373	684	460	839	198	1717	477
122	188	460N	373	685	461	839	340	1720	475
122	306	461N	373	685C	461	866	264	1721	475
130CU / 5130	228	471GCU / 4471G	253	685P	461	867	264	1722	475
130CUR / 5130R	228	472GCU / 4472G	253	686	461	868	265	1723	476
130GCU / 4130G	251	495G	338	689	468	869	265	1724	476
130PCU	238	498	356	689R	460	872B	262	1735	474
135	355	498	357	692RN	460	872B	262	1736	475
154	306	499	357	693	460	886	447	1737	475
240CU / 5240	229	499	357	694	460	889	447	1741	475
243CU / 5243	230	499J	357	694Y	460	889 INOX	447	1752	275
243GCU / 4243G	251	502	460	696	459	908EJT - R807EB	327	1753	275
270CU / 5270	231	505	327	696C	459	908E - R807E	327	2090JT	233
270GCU / 4270G	252	506	327	699	460	908Q - R807	327	2092JT	233
271CU / 5271	231	508EJT	350	710	387	908 - R807	326	2131CU	233
300CU	235	516 - 518	354	715	371	915A	372	2170JT	233
300CU-C / 5301C	232	519	356	715JT	371	915E	372	2243JT	232
306G	176	531EMB	354	724	304	915EJT	372	2270V	233
334	339	532LTL	315	724H	305	916E	372	2428	367
338	370	532TL	316	750	275	916EJT	372	2428CU	368
340CU	235	532TLE	315	750B	276	920A	334	2428E	367
340CU / 4340	252	537EM	354	750PV	273	920E	333	2428EJ	368
340GCU / 4340G	253	538A	371	750R	275	921E	334	2428JT	367
408	349	538CI	371	751	275	933UN - R806	327	2429	368
408E	349	538E	371	751B	276	940A1	216	2429CU	369
408EJT	349	538EJT	371	751R	275	942	354	2429E	369
408Q	349	539	371	753	274	955	337	2429EJT	369
408U	349	556	333	781ACT	267	960	374	2429J	368
408UJT	349	557PG	359	781DYNA	267	960A	374	2436	456
409	350	557PS	359	781STAT	267	960E	374	2438S	456
409E	350	558PG	333	782	267	965	374	2440	458
409ECB	351	558PS	333	804R	331	965A	374	2440CA	456
409EJT	350	575	339	804 - R804	331	965E	375	2440CC	456
409Q	350	583	338	805R	331	966	338	2440E	459
409QCB	351	595G	338	805 - R805	331	970	373	2440U	458
409QCB	353	597G	338	808CMJ	328	970A	373	2441	456
409U	350	597GJT	338	808ECMJ	328	970E	373	2442	456
409UCB	351	605	448	808EJT - R808E	325	975	374	2443	457
409UJT	350	605S	448	808E - R808E	325	975A	374	2444	457
418	351	638	372	808JT - R808	325	975E	374	2445	457
418E	352	638D	372	808 - R808	325	986	397	2446	457
418EJT	352	640	302	808SENSO	315	987	403	2447	458
418G	351	641	470	809CB - R809C	326	987	407	2448	457
418GJT	352	641S	470	809ECB - R809EC	326	988	393	2449	457
418U	351	642	471	809EJT - R809E	326	988	397	2450	454
418UJT	352	642S	471	809E - R809E	326	988	403	2452	454
419	352	643	471	809GCB - R809C	326	988	407	2453	454
419CB	353	644	471	809JT - R809	325	988	415	2454	454

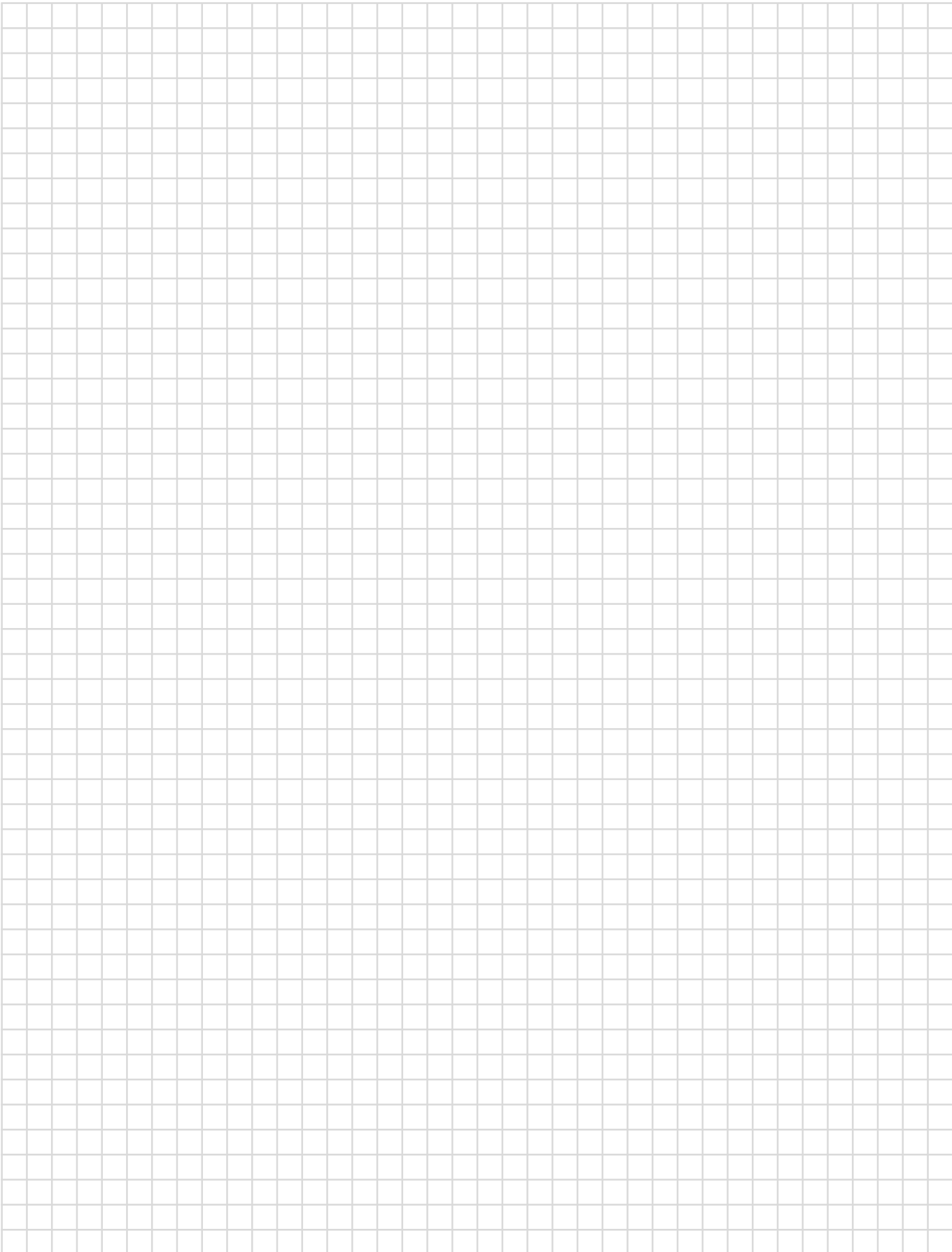
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2467	458	3808E - R858E	329	7023	120	8245C	243	9052P	421
2468	459	3808 - R858	329	7025	121	8246	243	9071PTM	421
2469	457	3809CB - R859C	330	7026	127	8246C	243	9168E	316
2470	455	3809ECBJT - R859EC	330	7027	121	8246L	243	9168EW	316
2471	455	3809E - R859E	330	7028	122	8246R	244	9169FM	316
2472	455	3809JT - R859	330	7030	121	8246RC	244	9170FM	316
2476	458	3809 - R859	329	7030C	122	8270	244	9216	220
2632	455	3908JT - R857	330	7030CU	121	8270C	244	9216	340
2633	461	3908 - R857	330	7030S	120	8271	244	9300A	422
2634	455	4243GM	55	7031	125	8280	245	9400	213
2635	462	4246GCU	253	7032	125	8280C	245	9400JT	216
2636	462	4329TL	316	7033	125	8280L	245	9402	214
2637	462	4340GCU	253	7034	125	8281	245	9403	214
2638	463	4439	337	7036	122	8292	246	9404	214
2639	462	4468	367	7037	122	8292C	246	9405	215
2640	462	4469	369	7038	122	8300	245	9406	215
2641	464	4985B	357	7039	127	8300C	245	9407	215
2642	464	4985E	357	7056	130	8342	246	9408	215
2643	464	5000	130	7057	130	8342R	246	9409	215
2644	464	5002AM	47	7130	130	8359	247	9438	187
2645	465	5041M	48	7142	129	8359C	248	9440	200
2646	455	5130M	49	7202	122	8359CTP	247	9460	211
2647	455	5130RM	49	7223	120	8360	250	9461	211
2648	455	5210	421	7225	121	8360L	249	9461R	213
2649	456	5243M	50	7227	121	8360P	249	9462	211
2650	463	5270M	51	7229	122	8361	254	9463	212
2651	463	5301M	52	7230	127	8362	254	9464	212
2652	463	5435	263	7231	127	8374G	247	9465	212
2653	461	5436	263	7232	127	8374GC	246	9466	212
2654	462	5437	263	7241	304	8439	247	9466D	213
2655	463	5465	265	7302	129	8446EB	248	9467	212
2656	464	5475	264	7303	129	8446EBC	248	9467R	213
2657	464	5480	264	7304	129	8446LC	248	9468	212
2658	462	5481	264	7490	305	8446LCC	249	9469	213
2659	462	5485	264	7841-L1	267	8446LCP	248	9503	178
2660	464	5486	264	7841-L2	268	8446LLB	249	9503	391
2661	465	5501M	84	7841-L2T	269	8446LLBC	249	9503	397
2662	465	5550	332	7841-L3	268	8446LLBP	249	9503	403
2663	463	5810	335	7841-L3T	269	8471	247	9503	407
2754	277	5811	335	7841-L4	268	8520A	254	9503	411
2756	277	5812	355	7841-L4T	269	8520AB	254	9503	415
2758	277	5813	355	7841-L5	268	8520C	254	9504	193
2759	278	5814	336	7841-L5T	269	8520CU	255	9505	192
2761	276	5815	335	7841-R1	268	8520PB	255	9508	177
2762	277	5816	336	7841-R2	268	8530	255	9508G	177
2764	277	5817	356	7841-R2T	269	8533	255	9510	193
2840	263	5819	356	7841-R3	268	8534	255	9532	184
2841	263	5825	313	7841-R3T	269	8877	447	9532A	184
2980	467	5825IFD	313	7841-R4	268	8881	447	9533	184
2981	467	5827	316	7841-R5	269	8886	447	9533A	184
2982	467	5827S	313	8012	240	8896	448	9540	194
2985	467	5831	337	8090	239	9000G	169	9626C	178
2986	467	5837	336	8090N	239	9000HK	422	9626G	178
2987	467	6205	470	8091	239	9000JT	422	9626T	178
3060C	340	6406	302	8092	239	9000P	419	9627	178
3060F	277	6437	188	8092C	240	9000TP	419	9627X	178
3070AP	339	6476	302	8092L	239	9001	167	9628	178
3070BCU	339	6606	303	8092R	239	9001G	168	9628X	179
3070BP	339	6611A	470	8093	240	9002	167	9670	337
3081	188	6803C	314	8094	241	9002	431	9671	337
3081	421	6803 FB1	314	8094C	241	9003	168	9761	188
3107U	370	6803P	314	8095	241	9003	431	9800	185
3107UN	370	6803ST	315	8100	337	9004	168	9800A	185
3108U	370	6803STD	315	8130	240	9005	168	9810	185
3108UN	370	6803STD FF1	315	8130C	240	9005	431	9810JT	186
3341GCU / 4341G	252	6806	303	8131	240	9006	167	9810JTEUR	186
3428	367	6806P	421	8199	241	9006	431	9810N	186
3428CU	368	6826	187	8199C	241	9006G	168	9811	186
3428E	367	6826	304	8240	241	9007	167	9812N	186
3429	368	6991	304	8240C	242	9007GB	168	9814N	187
3429CU	369	6994	304	8241	242	9007GR	169	9815	186
3429E	369	6996	304	8241C	242	9008B	169	9815N	186

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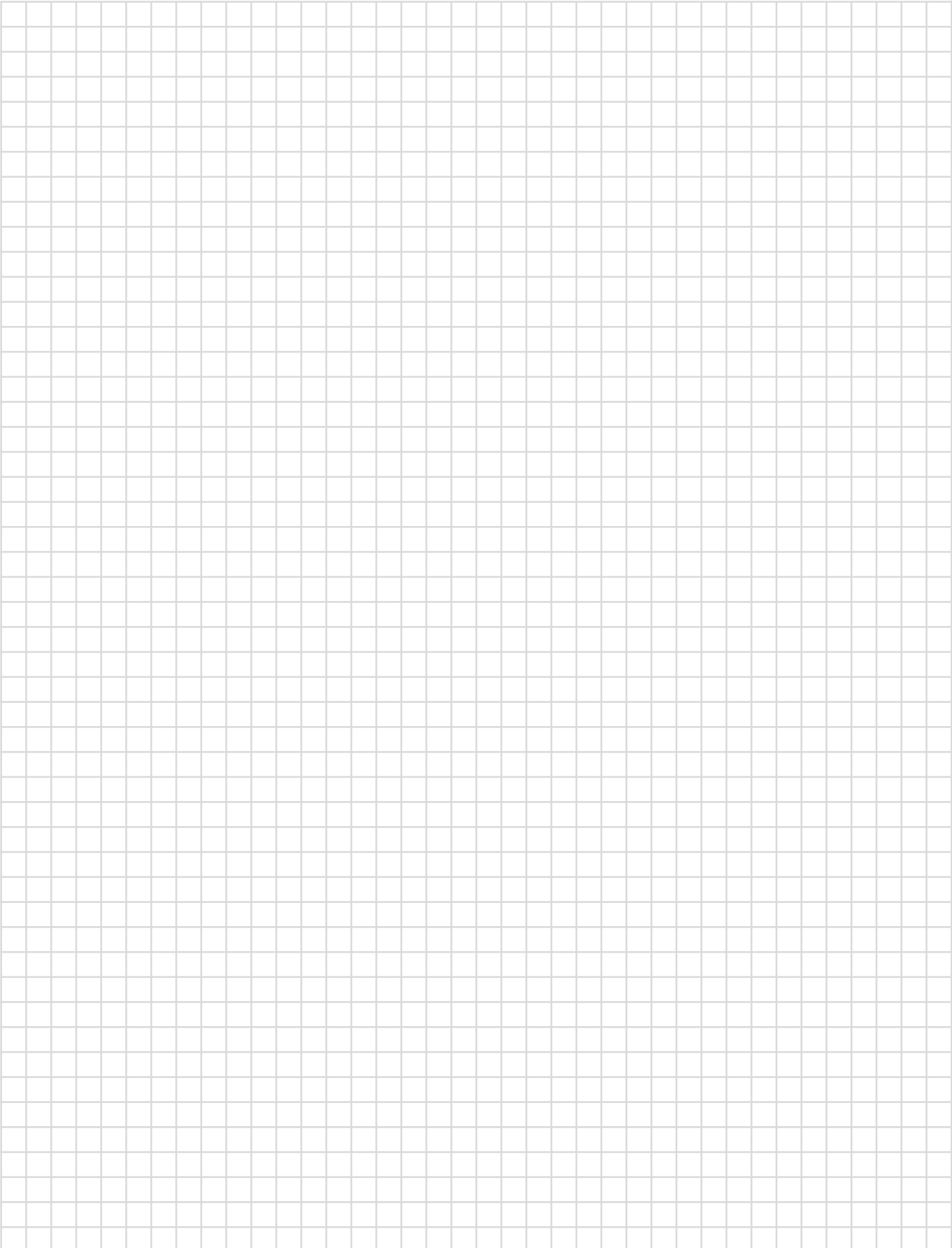
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9822.....	187	BS.....	165	L90GLCU.....	237	P7092G.....	41	S7270EV.....	22
9825.....	185	BS.....	431	L90GRCU.....	237	P7096G.....	41	S7270GV.....	21
9827.....	188	BSFB.....	165	L92GCU.....	237	P7130.....	42	S7270V.....	20
9827K.....	189	BSFR.....	165	L92GLCU.....	238	P7130R.....	42	S7270V.....	432
9828.....	188	BSISO6B.....	165	L96GCU.....	238	P7243CU.....	43	S7300V.....	23
9828K.....	189	BSISO6R.....	165	L98GCU.....	238	P7243G.....	43	S7359GV.....	21
9829.....	187	C2AGCU.....	236	L130GCU.....	238	P7270.....	42	S7359GV-E.....	21
9832.....	188	C359GLCU.....	236	L243GCU.....	234	P7270G.....	43	S7359GV-E.....	432
9832.....	422	C557PG.....	359	L270GCU.....	234	P7359G.....	43	S7359GV-OR.....	21
9834.....	315	C557PS.....	359	L340GCU.....	235	P7359G1.....	43	S7471DGV.....	24
9839.....	422	C558PG.....	333	L341GCU.....	236	P7359G2.....	44	S7471GV.....	24
9840.....	192	C558PS.....	333	L359GCU.....	237	P7472G.....	44	S7473GV.....	24
9840A.....	192	C1201.....	392	L383.....	340	P7500.....	44	S7490V.....	24
9840B.....	192	C1202.....	391	L383C.....	341	P7502.....	44	S7495V.....	20
9840C.....	194	COVER A.....	375	L383S.....	341	P7778A.....	44	S7500V.....	34
9840K.....	192	COVER S.....	375	M010.....	437	P7778B.....	44	S7501V.....	34
9841.....	193	COVERS.....	375	M020.....	437	PG1.....	207	S7501VP.....	34
9846.....	193	D1.....	376	M025.....	438	PG3.....	207	S7506V.....	24
9847.....	193	D2.....	376	M030.....	438	PG7090.....	204	S7694A.....	25
9848.....	193	D445.....	335	M040.....	436	PG7090G.....	204	S7694B.....	25
9854.....	193	D538.....	370	M050.....	436	PG7092G.....	205	S7694C.....	25
9855.....	193	D908 - R807.....	331	M050.....	438	PG7096G.....	205	S7694D.....	25
9860.....	420	D915.....	371	M060.....	436	PG7130.....	205	S7694V.....	25
9861.....	187	D921.....	334	M060.....	438	PG7130G.....	205	S9507V.....	24
9861.....	420	D933 - R806.....	331	M070.....	438	PG7130R.....	205	SENSITY.....	312
9861.....	424	D962.....	178	M085.....	437	PG7132G.....	205	SENSITY RI.....	313
9863.....	420	D3804E - R854E.....	332	M090.....	439	PG7243CU.....	206	SENSO.....	311
9869.....	422	D3804 - R854.....	332	M090B.....	439	PG7243G.....	206	SENSO.....	312
9872.....	392	D3805E - R855.....	332	M091.....	437	PG7270.....	206	SENSO IFD.....	312
9872.....	397	D3805 - R855.....	332	M091.....	439	PG7270G.....	206	SENSO IFD.....	312
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9872.....	407	D3908E - R857.....	332	M092.....	439	PG7359G.....	207	SENSO RI.....	312
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