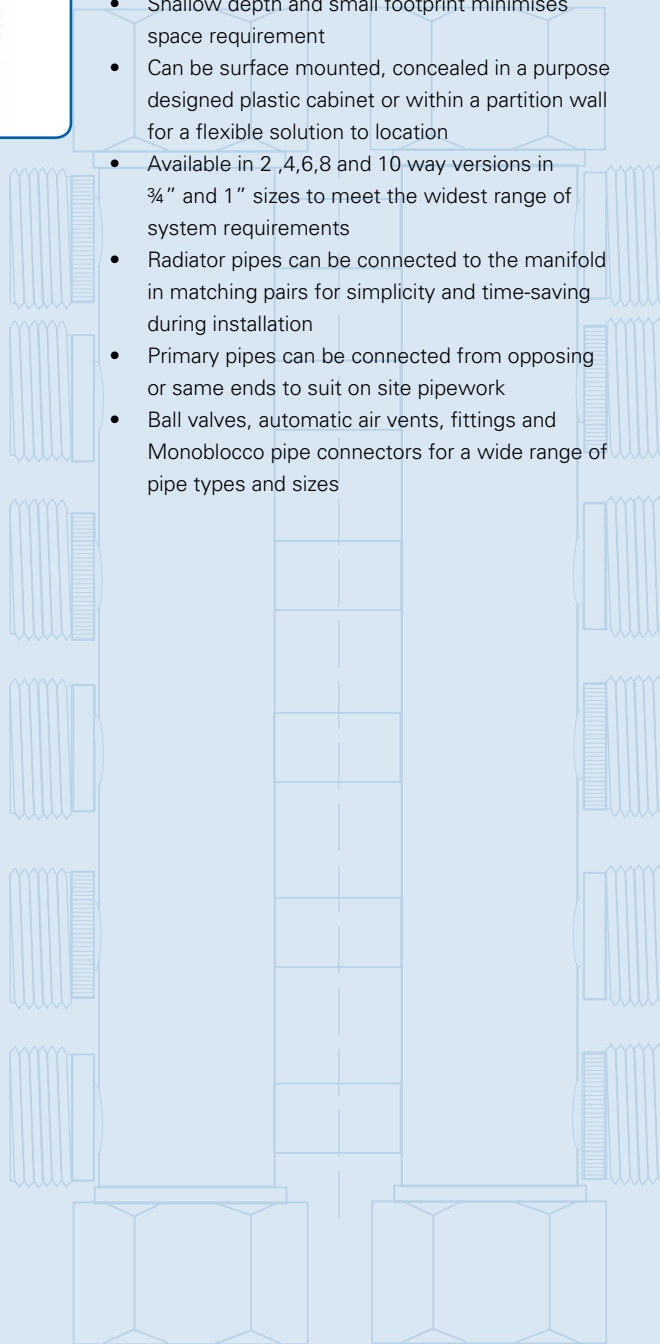




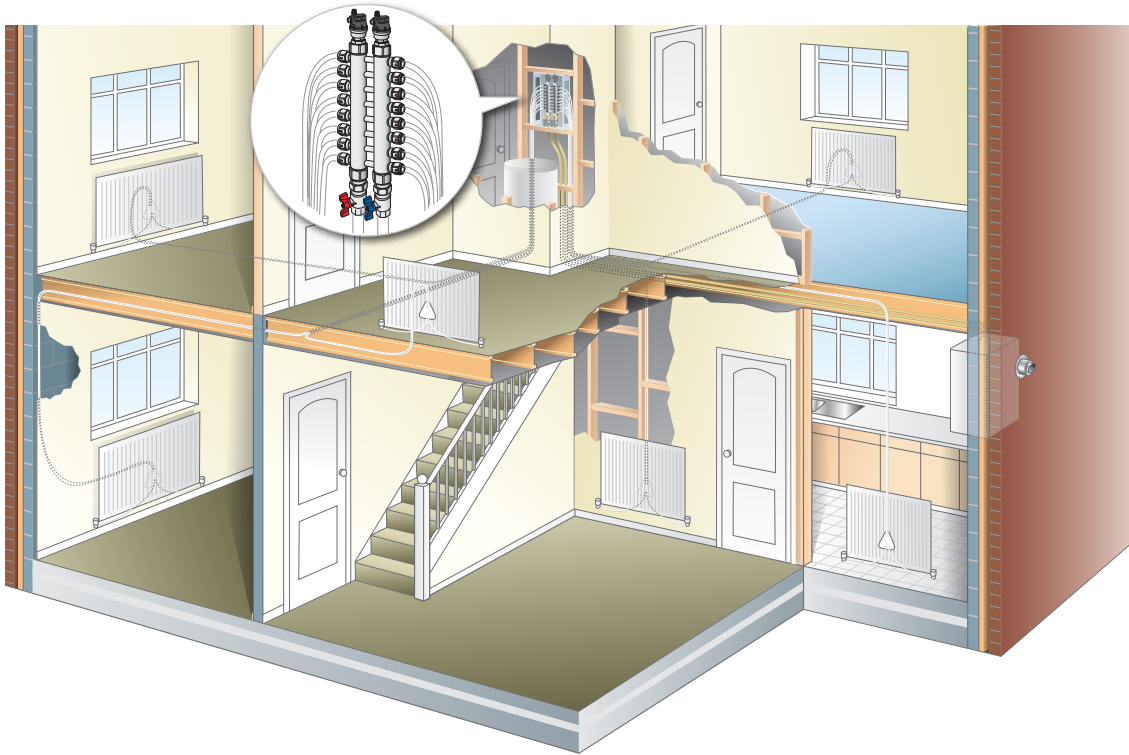
Mixer Steel Co-Planar Manifold

- Compact steel manifold specifically designed for connection to radiator systems to minimise joints and leaks
- Shallow depth and small footprint minimises space requirement
- Can be surface mounted, concealed in a purpose designed plastic cabinet or within a partition wall for a flexible solution to location
- Available in 2, 4, 6, 8 and 10 way versions in ¾" and 1" sizes to meet the widest range of system requirements
- Radiator pipes can be connected to the manifold in matching pairs for simplicity and time-saving during installation
- Primary pipes can be connected from opposing or same ends to suit on site pipework
- Ball valves, automatic air vents, fittings and Monoblocco pipe connectors for a wide range of pipe types and sizes



Mixer Steel Co-Planar Manifold

Cutaway 3-dimensional view of Mixer manifold and radiator heating system showing typical pipework and airing cupboard detail



Mixer manifolds

- A single piece design, with flow and return connections cross linking through the opposite rail, without mixing the water.
- They have a smaller "footprint" than conventional manifolds, in depth and width and can be fitted horizontally.
- Commonly used between studs in partition walls.
- Care must be taken to allow access.

Uses

Mixer is a type 1 heating manifold, suitable for supplying hot water to and from Wall Hung Radiators (WHR). The WHR typically have thermostatic radiator valves and lockshields.

Construction

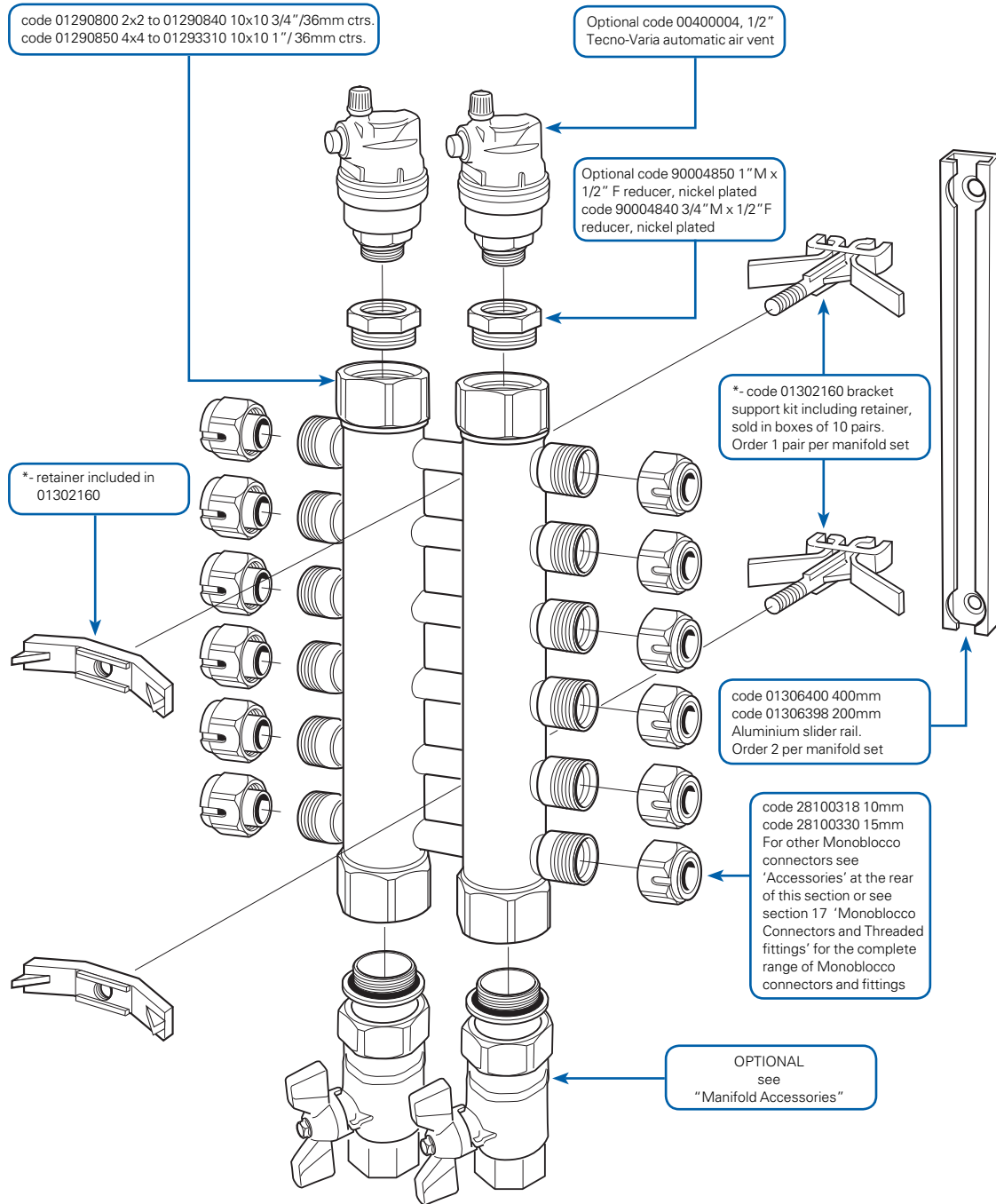
- Flange 3/4" and 1" steel AVP
- Pipes made in steel De 35x2 Fe 360 B EN 10204 thread ISO 7/1
- Connections 24x19 in steel AVP marked to indicate whether connected to nearest or furthest rail
- Cross links in steel pipe De 14x1,5 Fe 360 B EN 10204
- Oven brazed at 1080 °C with copper 99.9%
- Finish nickel plating

Ratings

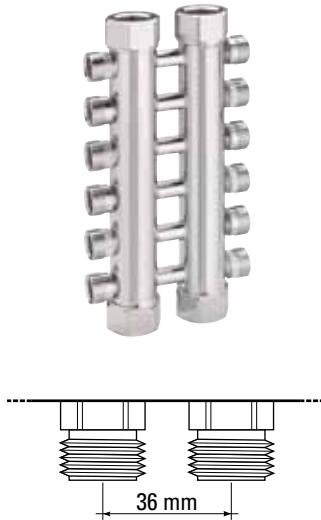
- Max operating pressure 10 bar
- Max operating temperature 110 °C
- Tested 100%

Mixer Steel Co-Planar Manifold (continued)

Mixer Manifold Assembly: exploded view of assembled manifold with mounting bracket and accessories



Mixer Steel Co-Planar Manifold (continued)

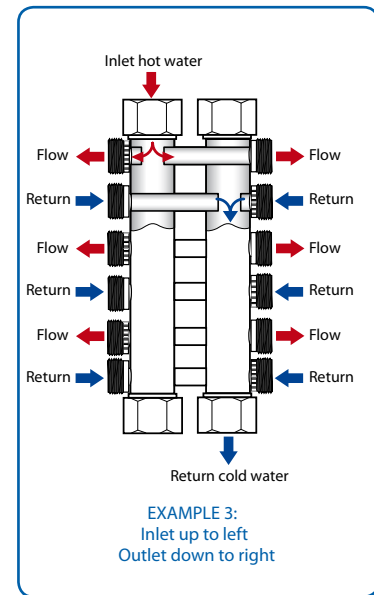
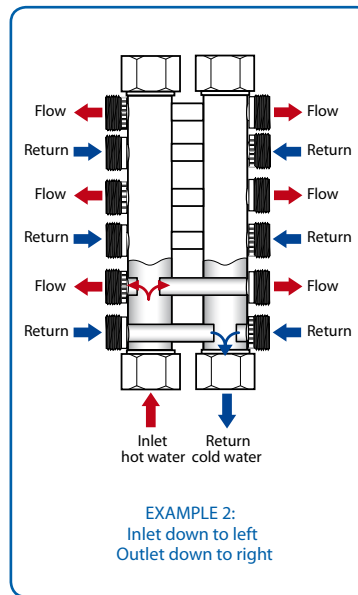
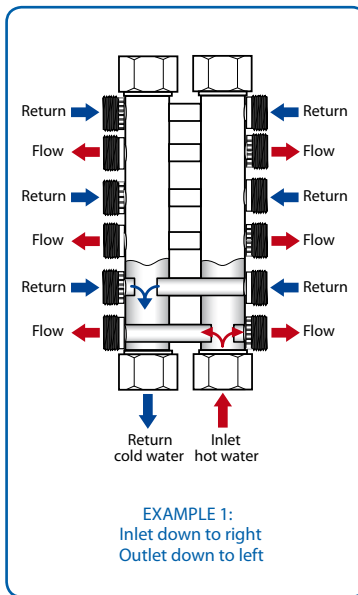


Nickel-plated mixer steel co-planar manifold

Size	Ways	Pcs./Pack	Code
3/4"	2x2	1	01290800
3/4"	4x4	1	01290810
3/4"	6x6	1	01290820
3/4"	8x8	1	01290830
3/4"	10x10	1	01290840
1"	4x4	1	01290850
1"	6x6	1	01290860
1"	8x8	1	01290870
1"	10x10	1	01290880

The number of ways shown above refers to the number of connections at each side. For example 2x2 ways refers to two connections at each side, four in total, making 2 flow and return paired connections. For Monoblocco connectors, ball valves, mounting brackets, blanking plugs and air vents, see 'Accessories' at the end of this section or see section 17 'Monoblocco Connectors and Threaded fittings' for the complete range of Monoblocco connectors and fittings.

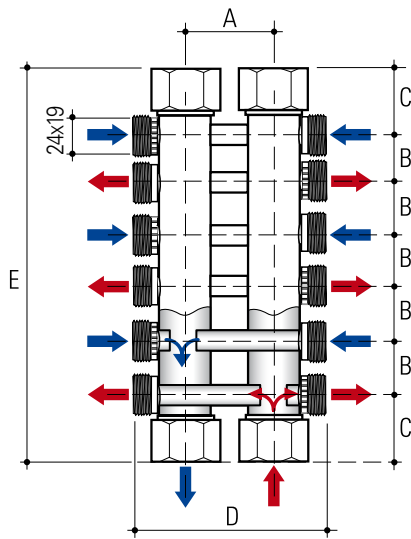
Examples of Pipe Connections



Mixer Steel Co-Planar Manifold (continued)

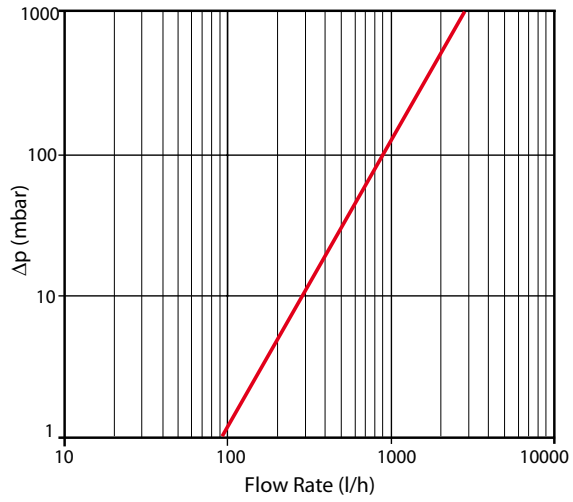
Connections and Dimensions

Steel co-planar manifold



Size	N° ways	A	B	C	D	E
3/4"	2 x 2	55	36	37	122	110
3/4"	4 x 4	55	36	37	122	182
3/4"	6 x 6	55	36	37	122	254
3/4"	8 x 8	55	36	37	122	326
3/4"	10 x 10	55	36	37	122	398
1"	4 x 4	55	36	39	122	186
1"	6 x 6	55	36	39	122	258
1"	8 x 8	55	36	39	122	330
1"	10 x 10	55	36	39	122	402

Flow Rate vs Pressure Drop



Accessories

**Termobox - white plastic universal manifold box**

Size	Pcs./Pack	Code
460 x 310 x 90	3	01302100
610 x 310 x 90	2	01302110

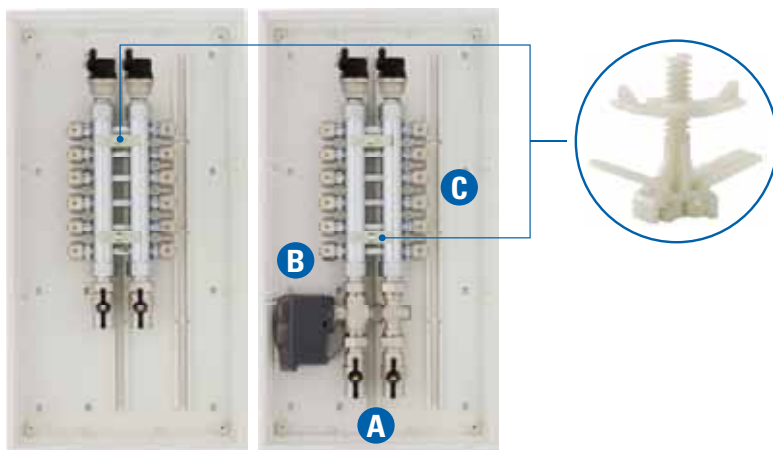
Generally located by recessing into partition walls. Integrated into the back panel of the box are two slider rails, representing an upper and lower manifold rail. The mounting brackets below are designed to fit into the built in slider rail as shown in the picture below.

For the maximum number of ways and components which can be included, see the table below the picture.

Suitable for use with hot and cold plumbing manifolds, as well as heating manifolds.

All walls have snap out panels, allowing the installer control of the manifold and pipe orientation in the box.

Made of plastic material for toughness and durability (box in ABS, cover in PS shock resistant polystyrene supports in PA nylon 6).



Termobox	1" A+C	3/4" A+C	1" B+C	3/4" B+C	1" A+B+C	3/4" A+B+C
460 x 310	4 ways max	4 ways max	4 ways max	4 ways max	-	2 ways max
610 x 310	8 ways max	8 ways max	8 ways max	8 ways max	6 ways max	6 ways max

**Brackets support kits**

	Size	Pcs./Pack	Code
10 pairs bracket support kit for Mixer	3/4" and 1"	1	01302160

Specially designed for the Mixer manifold supplied complete with retainers. Designed to be used with the sliding rails below or straight into a Termobox manifold cabinet

Aluminium slider rail for bracket support kits supplied with screw and rawlplug pack

Size	Pcs./Pack	Code
400 mm (*)	1	01306400
200 mm (**)	1	01306398

(*) Provided with four 4.5 mm DIA pre-drilled holes, in two pairs spaced 160 mm apart. Kiss cut at 200 mm. This allows you to use to use two shorter 200 mm lengths, each with two drill holes.

(**) Shorter version for ease of installation. Provided with two 4.5 mm DIA pre-drilled holes.

Accessories (continued)



Pressure gauge with radial connection and casing in ABS

Size	Pressure	Pcs./Pack	Code
1/4" x 50 mm	4 bar	1	00616020
1/4" x 50 mm	6 bar	1	00616024
1/4" x 50 mm	10 bar	1	00612442

To use 3/8" gauges with topway manifolds, use 90005050 3/4" M x 3/8" F, 90005060 1" M x 3/8" F adaptors and 01306464 1/2" M x 1/4" F.



Nickel-plated male and female blanking plugs

Type	Pcs./Pack	Code
1/2" M with o-ring seal	50	90004930
3/4" M with o-ring seal	30	90004820
1" M with o-ring seal	15	90004830
1" 1/4 M with o-ring seal	10	90005070
3/4" F*	30	01291536
1" F*	15	01291538
24x19 F*	30	90004950

* Use appropriate washer from immediately below when ordering these items.



Female washer

Size	Pcs./Pack	Code
3/4" F	1	90008200
1" F	1	90008210
24x19 F	1	90037490



Reducer fitting nickel-plated

Size	Pcs./Pack	Code
1/2" M x 1/4" F with o-ring seal and gasket	1	01306464
3/4" M x 3/8" F	30	90005050
3/4" M x 1/2" F	30	90004840
1" M x 3/8" F	15	90005060
1" M x 1/2" F	15	90004850
1" M x 3/4" F	15	90006870
1" 1/4 M x 1/2" F	10	90005080

Enables differing fittings and valves to be connected to each other.



Nickel-plated adaptor

Size	Pcs./Pack	Code
1" M x 1" M with o-ring seal	15	90006700
1" 1/4 M x 1" 1/4 M with o-ring seal	5	90006910

For bridging between 1" + 1" 1/4 Topway manifolds.



Copper adaptor, brass chrome plated.

Size	Pcs./Pack	Code
22mm copper to 1" M straight adaptor	1	U9 240 018

Accessories (continued)

**Swivel adaptor**

Size	Pcs./Pack	Code
1" M x 1" M	6	01306426
1" 1/4 M x 1" 1/4 M	4	01306430
1" M x 1" F	6	01306428
1" 1/4 M x 1" M (*)	4	01306432
3/4" M x 3/4" M	6	01306434
1/2" M x 1" M (*)	6	01306446
3/4" M x 1" M (*)	6	01306438

Allows orientation of product when tightening.
(*) Reduced.

**Spanner for swivel adaptors 37 mm - 48 mm**

Pcs./Pack	Code
1	01306044

**Tee union with pipe union for thermometer**

Size	Pcs./Pack	Code
M-F 24x19	7	90011760
M-F 3/4" Eurocone	7	90011770

The thermometer is designed to be fitted to the flow and return manifolds, allowing in-line monitoring of system temperatures. It is used to verify the temperature supply to and from each circuits. This helps to arrive at correct system heat loss values.

**Thermometer Ø 40**

Size	Pcs./Pack	Code
0-80 °C	1	90006860

**Tecno-Varia with plastic cover and anti-dirt air chamber**

Size	Pcs./Pack	Code
1/2" standard	12	00400004

**Bleed valve and manual air vent**

Size	Pcs./Pack	Code
1/2"	10	00410021

Adjusted with a screwdriver. Once partially opened drain off position oriented. Can also be used in Topway manifold as manual air vent.

**Charge and drain valve, nickel-plated 1/2" with male connection 3/4"**

Size	Pcs./Pack	Code
1/2"	9	90019380

Fits onto Topway manifolds. Complete with isolation facility.

Accessories (continued)



Drain valve nickel-plated 1/2" with male 3/4" connection

Size	Pcs./Pack	Code
1/2"	1	90011790

Allows easy pipe connection due to 45° angle with 360° orientation. Complete with isolation facility.



Hose tail for filling and draining

Size	Pcs./Pack	Code
3/4" x 3/8"	1	09020012



Straight Progress ball valves with pipe union for thermometers

Size	Pcs./Pack	Code
1"	1	01306130
1 1/4"	1	01306132

Price in pairs. Includes o-ring sealing faces.



Straight Progress ball valves with pipe union

Size	Pcs./Pack	Code
3/4"	1	01306140
1"	1	01306142
1 1/4"	1	01306144

Price in pairs. Includes o-ring sealing faces.



Right-angle Progress ball valves with pipe union for thermometers

Size	Pcs./Pack	Code
1"	1	01306134
1 1/4"	1	01306136

Price in pairs. Includes o-ring sealing faces.



Right-angle Progress ball valves with pipe union

Size	Pcs./Pack	Code
3/4"	1	01306180
1"	1	01306182
1 1/4"	1	01306184

Price in pairs. Includes o-ring sealing faces.



24x19 seal for plastic PB pipe

Size	Connection	Pcs./Pack	Code
Ø 10 Polybutylene	24x19	50	28100318
Ø 12 Polybutylene	24x19	50	28100321
Ø 15 Polybutylene	24x19	50	28100330

When using these with plastic pipe, please ensure you use the plastic pipe insert provided for by the manufacturer of the pipe you are using.

Accessories (continued)



Monoblocco connector for copper pipe, nickel-plated

Size	Connection	Pcs./Pack	Code
10	24x19	50	01321410
15	24x19	50	01321415



Monoblocco connector for multi-layer pipes, nickel-plated

Size	Connection	Pcs./Pack	Code
12 x 1.6	24x19	50	28100355
14 x 2	24x19	50	28100356
16 x 2	24x19	50	28100358
16 x 2.25	24x19	50	28100360
17 x 2	24x19	50	28100362
18 x 2	24x19	50	28100364
20 x 2	24x19	50	28100366



Monoblocco connector for PEX and PB pipes, nickel-plated

Size	Connection	Pcs./Pack	Code
12 x 1	24x19	50	28100320
12 x 2	24x19	50	28100322
14 x 2	24x19	50	28100324
15 x 1.5	24x19	50	28100325
15 x 1.7	24x19	50	28100326
15 x 2.5	24x19	50	28100328
16 x 1.5	24x19	50	28100332
16 x 2	24x19	50	28100334
16 x 2.2	24x19	50	28100336
17 x 2	24x19	50	28100340
18 x 2	24x19	50	28100342
18 x 2.5	24x19	50	28100344
20 x 2	24x19	50	28100346
20 x 2.8	24x19	50	28100348
25 x 2.3mm	M32x1.5	50	28100382



27 mm - 30 mm spanner for tightening takeoffs

Pcs./Pack	Code
1	01306046

This specially designed tool allows the installer to easily tighten the manifold outlets in the 36 mm interaxial space provided.

The 30 mm is designed for use with special larger Monoblocco connectors.



27 mm spanner for tightening takeoffs

Pcs./Pack	Code
1	01306054

Up to Ø 18 only. This is a dedicated low cost shoulderless spanner for manifolds with 36 mm interaxials.