

TOPFAR VALVES



Art. 0108

TOPFAR thermostatic angled valve

- Interchangeable sizes for copper, plastic and multilayer pipes
- Size: 3/8" - 1/2"
- Installation: water supplied to radiator



Art. 0128

TOPFAR angled lockshield valve

- Interchangeable sizes for copper, plastic and multilayer pipes
- Size: 3/8" - 1/2"
- Installation: returned water from radiator



Art. 1827

Thermostatic control head. Built-in sensor with liquid-filled element.

- Temperature range: 7 - 28°C
- High chrome finish

1. DESCRIPTION

TOPFAR thermostatic valves and lockshield valves are preset for assembly of thermostatic or thermo-electric heads, which actuate valve opening or closing.

This latest in a series of high-tech valves and lockshield valves enhances the wide range of LadyFAR products. TOPFAR models feature a top quality design that combines function and sophistication in keeping with the certified quality and reliability that distinguish all FAR components.

A variety of methods is available for connecting radiators into a distribution network, but the most commonly used are the following: lateral, opposite and bottom connection.

The new thermostatic head allows automatic opening and closing of individual radiator valves - maintaining constant room temperature. This new FAR thermostatic head features a compact, modern design and is available in two versions: with either white or high chrome finish. The high chrome version makes a perfect companion for TOP line valves.



OPPOSITE CONNECTION

This method ensures maximum efficiency, as hot water has to pass through the whole heating body of the radiator. From an installation point of view, however, the situation is more complicated because it is necessary to be aware of the centre line between valve and lockshield valve and the length of the radiator.



BOTTOM CONNECTION

This is the least used and is achieved by making both connections at the bottom. Heat release is reduced from 5% to 10%, as water flow is directed towards exiting from the radiator.



LATERAL CONNECTION

Lateral is the most common type of connection: it permits good radiator efficiency and easy installation as the only thing necessary bear in mind is the centre line between valve and lockshield valve.

2. TOPFAR THERMOSTATIC VALVES

Also available with iron pipe connection



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Thermostatic angled valve
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Art. 0128
Angled lockshield valve
- Interchangeable sizes for copper, plastic and multilayer pipe
- Size: 3/8" - 1/2"
- Installation: returned water from radiator



Art. 0129
Angled lockshield valve
- Interchangeable sizes for copper, plastic and multilayer pipe
- Size: 3/8" - 1/2"
- Installation: returned water from radiator



Art. 0101
Thermostatic valve, angled-left version
- Interchangeable sizes for copper, plastic and multilayer pipe
- Size: 3/8" - 1/2"
- Installation: water supplied to radiator



Art. 0111
Thermostatic valve, angled-left version
- Interchangeable sizes for copper, plastic and multilayer pipe
- Size: 3/8" - 1/2"
- Installation: water supplied to radiator



Art. 0122
Lockshield valve, angled-right version
- Interchangeable sizes for copper, plastic and multilayer pipe
- Size: 3/8" - 1/2"
- Installation: returned water from radiator



Art. 0132
Lockshield valve, angled-right version
- Interchangeable sizes for copper, plastic and multilayer pipe
- Size: 3/8" - 1/2"
- Installation: returned water from radiator



Art. 0102
Thermostatic valve, angled-right version
- Interchangeable sizes for copper, plastic and multilayer pipe
- Size: 3/8" - 1/2"
- Installation: water supplied to radiator



Art. 0112
Thermostatic valve, angled-right version
- Interchangeable sizes for copper, plastic and multilayer pipe
- Size: 3/8" - 1/2"
- Installation: water supplied to radiator



Art. 0121
Lockshield valve, angled-left version
- Interchangeable sizes for copper, plastic and multilayer pipe
- Size: 3/8" - 1/2"
- Installation: returned water from radiator



Art. 0131
Lockshield valve, angled-left version
- Interchangeable sizes for copper, plastic and multilayer pipe
- Size: 3/8" - 1/2"
- Installation: returned water from radiator

Installation overview of Art.0108 and Art.0102-0121 on radiator.

In addition to thermostatic valves suitable for normal positioning of thermostatic or thermo-electric heads (Fig.1) FAR offers space-saving valves which permit a choice of flow direction dependant on system constraints and available space (Fig.2).



Fig.1

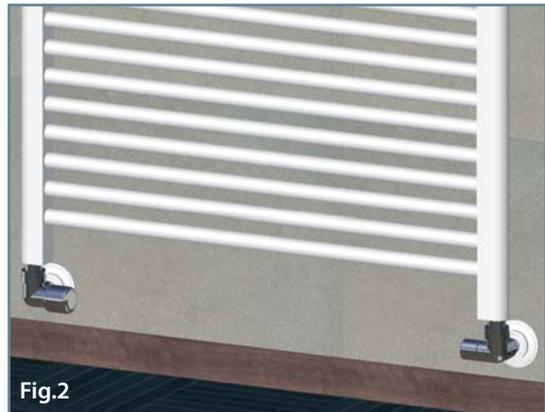
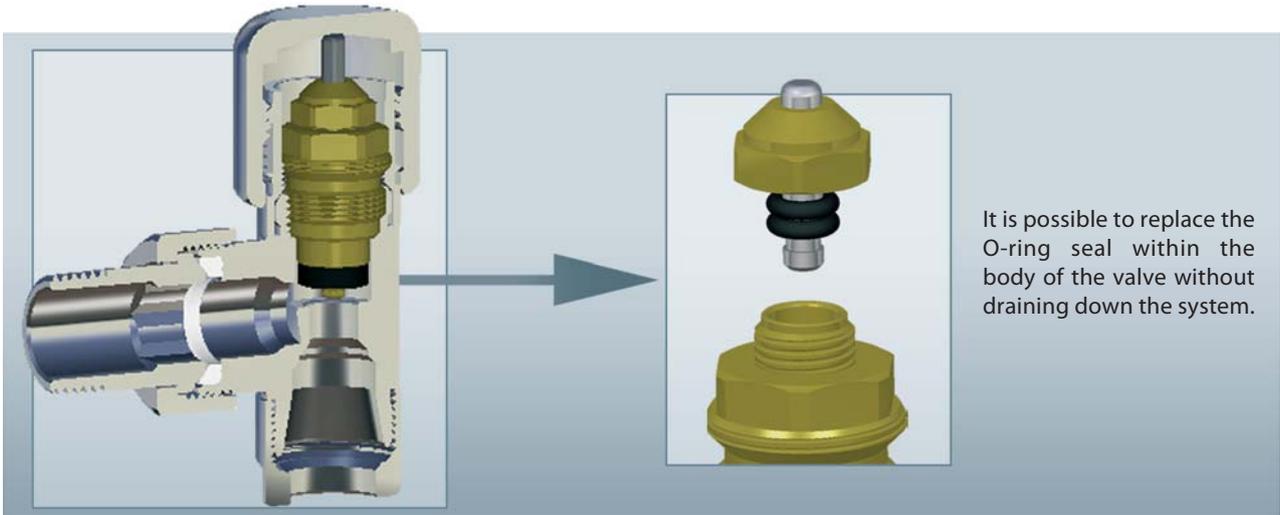
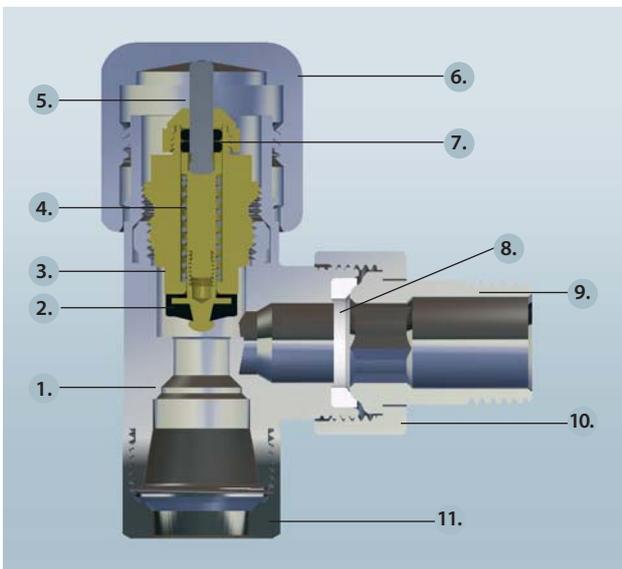


Fig.2

3. CONSTRUCTION FEATURES


It is possible to replace the O-ring seal within the body of the valve without draining down the system.

4. CONSTRUCTION MATERIALS AND TECHNICAL FEATURES

Construction Materials

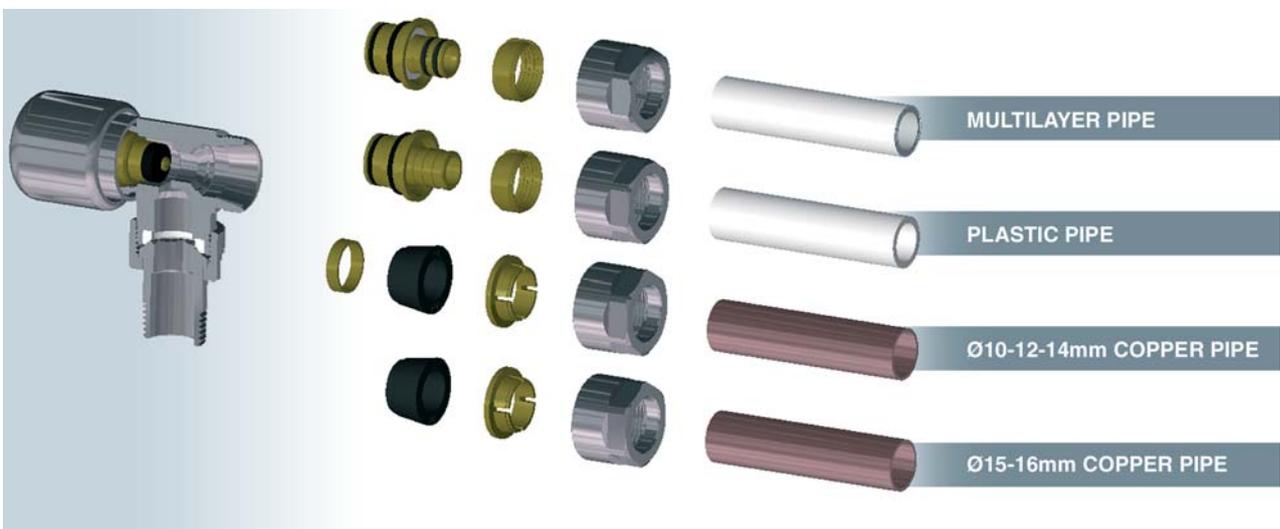
1. Valve body	CW617N brass
2. Shutter	EPDM
3. Body	CW614N brass
4. Spring	AISI 302 steel
5. Pin	AISI 303 steel
6. Handle	CW614N brass
7. Sealing O-rings	EPDM
8. Sealing seat	HPF
9. Terminal body	CW617N brass
10. Tightening terminal nut	CW617N brass
11. Nut	CW617N brass

Technical features

Nominal pressure:	16 bar
Max. temperature:	95° C
Compatible fluids:	water, water with glycol

5. INSTALLATION COMPONENTS

TOPFAR valves and lockshield valves are available with iron and interchangeable connections for copper, plastic and multilayer pipe.



MULTILAYER PIPE

PLASTIC PIPE

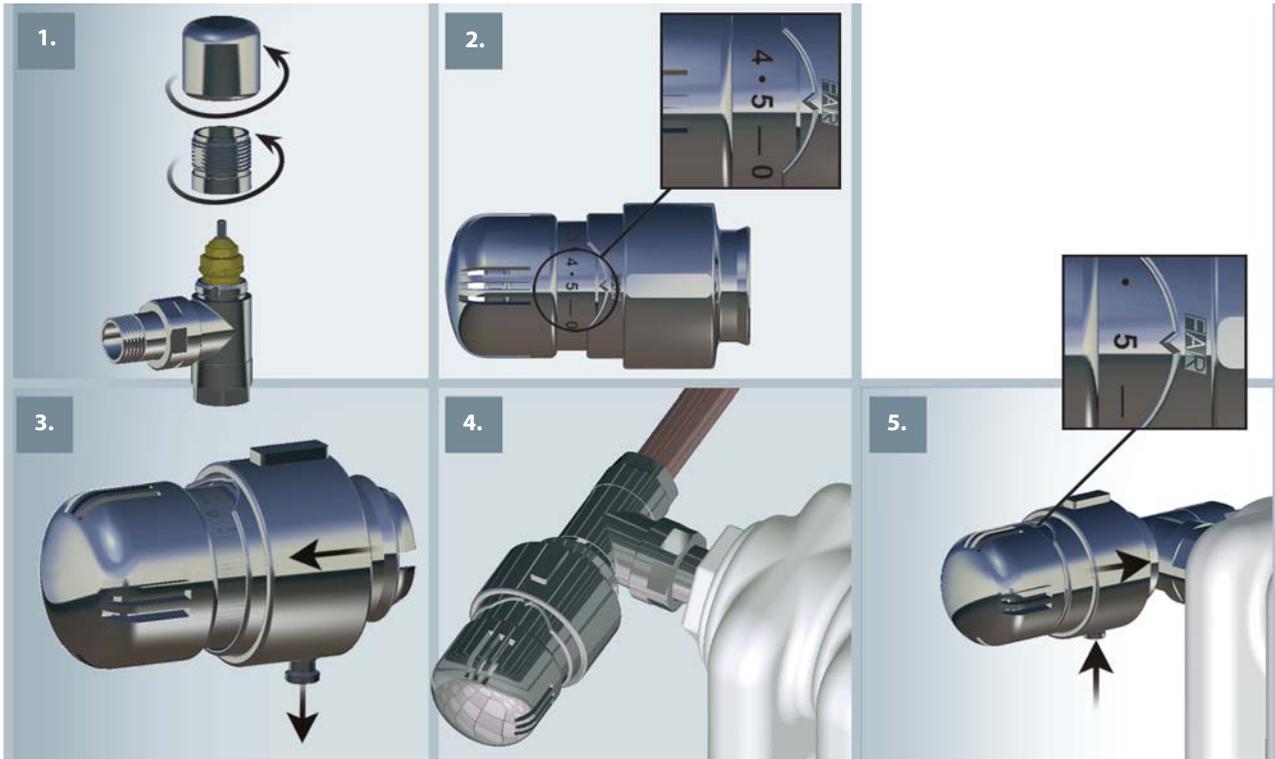
Ø10-12-14mm COPPER PIPE

Ø15-16mm COPPER PIPE

6. INSTALLATION OF THERMOSTATIC HEAD

The thermostatic head of TOPFAR models is provided with a liquid sensor, which detects temperature variations and opens or closes the valve accordingly. It has a regulating scale numbered from 1 to 5 to permit selection of the desired temperature.

1. Unscrew the handle and the brass support, extracting them from the valve body
2. Set the selector to position 5
3. Pull the ring towards the selector and the locking key towards the lower part
4. Position the head, as indicated below, in the appropriate grooves
5. Move the locking ring towards the valve, up to the FAR logo and push the locking key.

Installation procedure


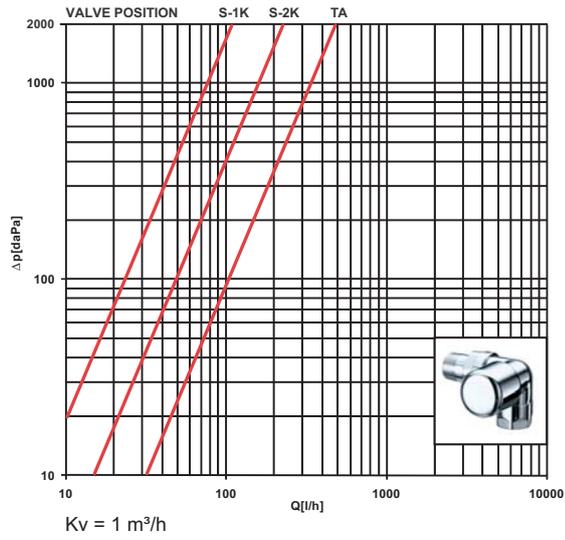
POSITION	CORRESPONDING TEMPERATURE (°C)
0	NO RADIATOR
☼	7
1	12
2	16
3	20
4	24
5	28

7. THERMOSTATIC HEAD TECHNICAL FEATURES

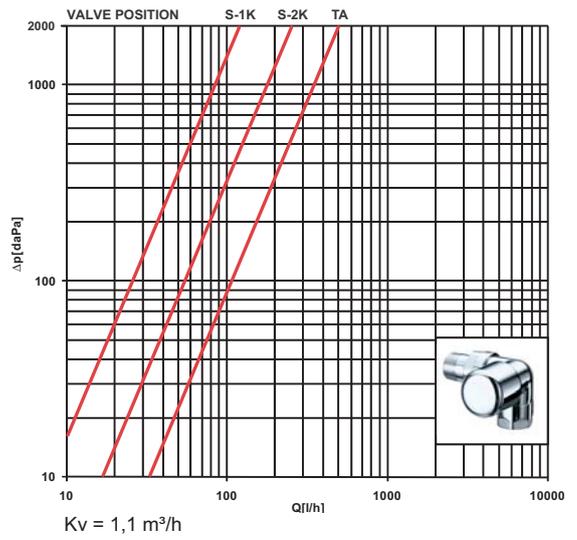
Max. differential pressure:	1 bar
Reference point:	3 = 20° C
Max. room temperature:	50°C
Temperature range:	7-28°C
Antifreeze operation:	7°C
Hysteresis:	0,35K
Proportional band:	2°C
Response time- 6.4.1.13 EN215 point:	23 min

8. FLUID DYNAMIC FEATURES

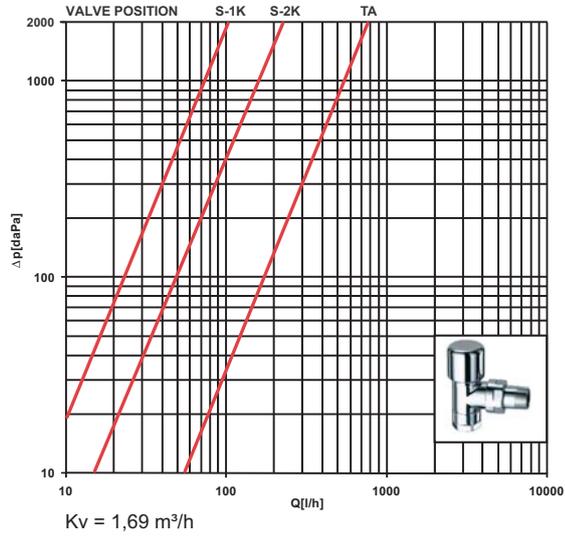
Art. 0101-0102-0103-0104-0111-0112-0113-0114 38



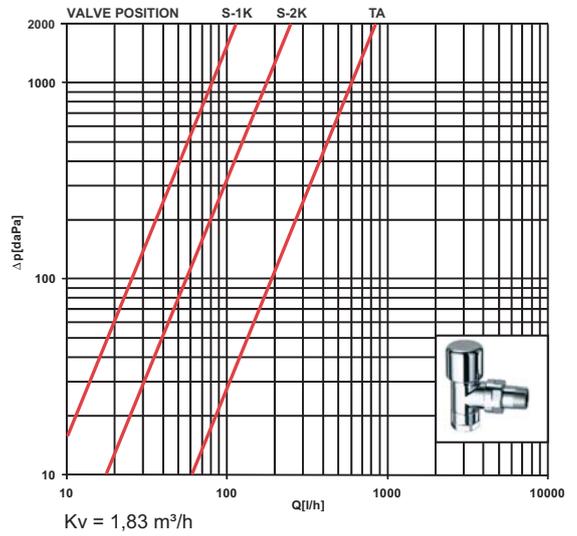
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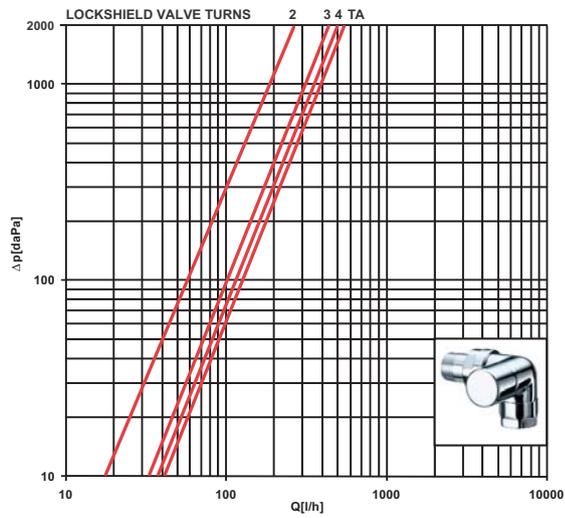
Art. 0108-0109-0148-0149 38



Art. 0108-0109-0148-0149 12

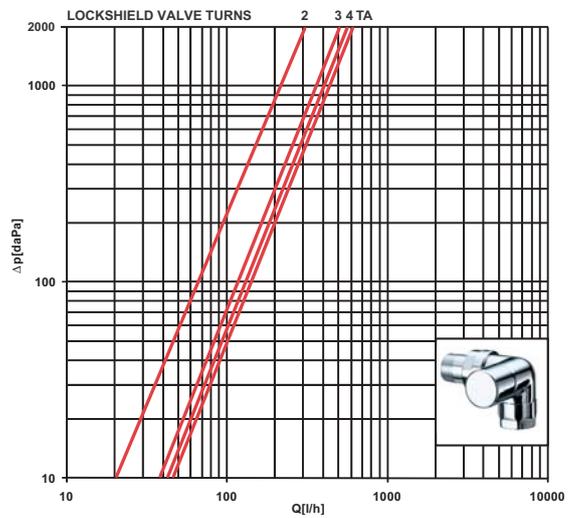


Art. 0121-0122-0123-0124-0131-0132-0133-0134 38

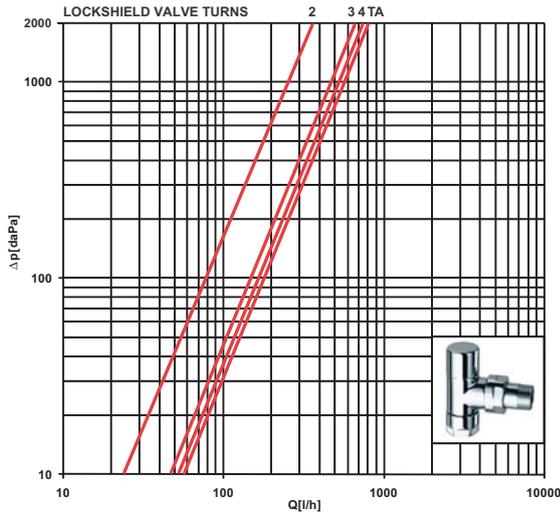


TURNS	2	3	4	TA
Kv [m ³ /h]	0,62	0,99	1,08	1,19

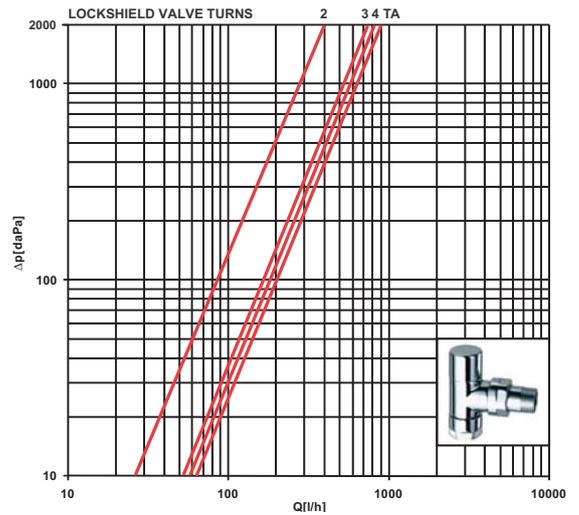
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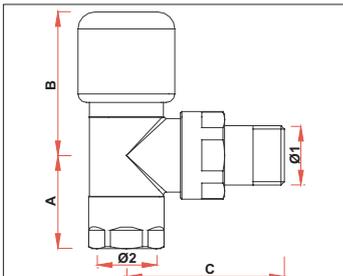
TURNS	2	3	4	TA
Kv [m ³ /h]	0,67	1,13	1,23	1,3

Art. 0128-0129-0168-0169 38


URNS	2	3	4	TA
Kv [m³/h]	0,62	0,99	1,08	1,19

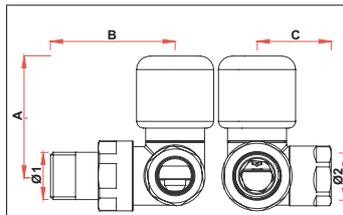
Art. 0128-0129-0168-0169 12


URNS	2	3	4	TA
Kv [m³/h]	0,89	1,62	1,82	1,99

9. DIMENSIONAL FEATURES


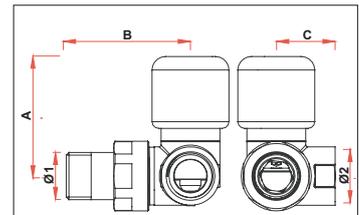
*= with and without thermostatic head

CODE	Ø1	Ø2	A	B*	C
0108-0109 38	G3/8	24x19	33	51-100	53
0108-0109 12	G1/2	24x19	33	51-100	56



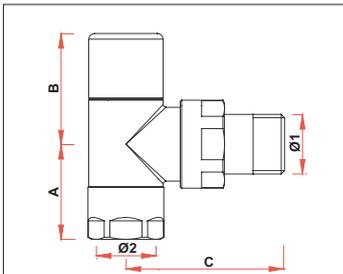
*= with and without thermostatic head

CODE	Ø1	Ø2	A*	B	C
0101-0111 38	G3/8	24x19	53-102	52	33
0101-0111 12	G1/2	24x19	53-102	55	33
0102-0112 38	G3/8	24x19	53-102	52	33
0102-0112 12	G1/2	24x19	53-102	55	33

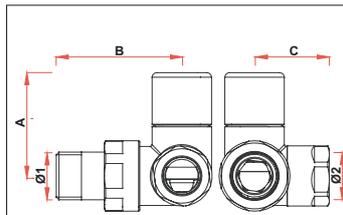


*= with and without thermostatic head

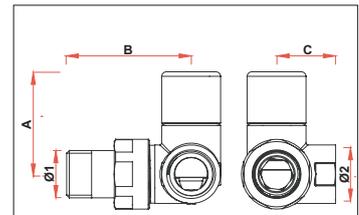
CODE	Ø1	Ø2	A*	B	C
0103-0113 38	G3/8	G3/8	53-102	52	26
0103-0113 12	G1/2	G1/2	53-102	55	26
0104-0114 38	G3/8	G3/8	53-102	52	26
0104-0114 12	G1/2	G1/2	53-102	55	26



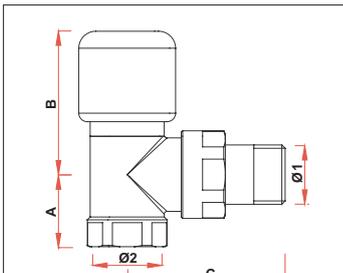
CODE	Ø1	Ø2	A	B	C
0128-0129 38	G3/8	24x19	33	39	53
0128-0129 12	G1/2	24x19	33	39	56



CODE	Ø1	Ø2	A	B	C
0121-0131 38	G3/8	24x19	46	52	33
0121-0131 12	G1/2	24x19	46	55	33
0122-0132 38	G3/8	24x19	46	52	33
0122-0132 12	G1/2	24x19	46	55	33

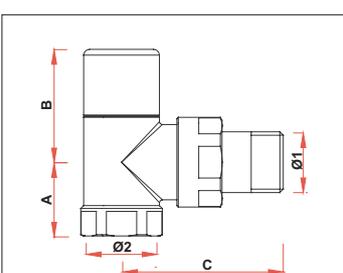


CODE	Ø1	Ø2	A	B	C
0123-0133 38	G3/8	G3/8	46	52	26
0123-0133 12	G1/2	G1/2	46	55	26
0124-0134 38	G3/8	G3/8	46	52	26
0124-0134 12	G1/2	G1/2	46	55	26

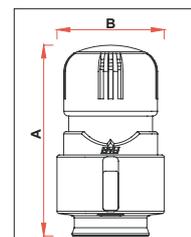


*= with and without thermostatic head

CODE	Ø1	Ø2	A	B*	C
0148-0149 38	G3/8	G3/8	26	51-100	53
0148-0149 12	G1/2	G1/2	26	51-100	56



CODE	Ø1	Ø2	A	B	C
0168-0169 38	G3/8	G3/8	26	39	53
0168-0169 12	G1/2	G1/2	26	39	56



CODE	A	B
1824	86	48
1827	86	48