

STRAIGHT AND ANGLED THERMOSTATIC VALVES

ART.1610



Chrome-plated angled thermostatic valve. • FAR 24x19 connection • Size: 3/8" - 1/2"

ART 1100



Chrome-plated angled lockshield valve.

 FAR 24x19 connection • Size: 3/8" - 1/2'



Chrome-plated angled thermostatic valve. Iron pipe connection

• Size: 3/8" - 1/2" - 3/4" - 1"

ART.1200



Chrome-plated angled lockshield valve.

 Iron pipe connection • Size: 3/8" - 1/2" - 3/4" - 1"

ART.1626

Chrome-plated thermostatic

valve, left-angled version.

Iron pipe connection

Size: 3/8" - 1/2"



ART.1630

Chrome-plated straight thermostatic valve. • FAR 24x19 connection

• Size: 3/8" - 1/2" ART 1300



Chrome-plated straight lockshield valve. FAR 24x19 connection

• Size: 3/8" - 1/

ART.1640*



Chrome-plated straight thermostatic valve. Iron pipe connection

• Size: 3/8" - 1/2" - 3/4" - 1"

ART 1400



Chrome-plated straight lockshield valve. Iron pipe connection • Size: 3/8" - 1/2" - 3/4" - 1"

*The valves, art. 1620 12 and 1640 12, comply with the EN215 standard in combination with the thermostatic head, art. 1828 (ST.07.15)

DESCRIPTION

FAR thermostatic valves are preset for assembly of thermostatic and thermo-electric actuators, which control opening and closure.

SPACE SAVING THERMOSTATIC VALVES 1.1

In addition to thermostatic valves suitable for normal positioning of thermostatic or thermoelectric heads, Far offers space-saving valves which permit a choice of direction dependant on system constraints and available space.

ART.1616



Chrome-plated thermostatic valve, left-angled version. • FAR 24x19 connection

• Size: 3/8" - 1/2"

ART.1117



Chrome-plated lockshield valve, right-angled version. • FAR 24x19 connection



ART.1615



Chrome-plated lockshield valve, right-angled version. Iron pipe connection • Size: 3/8" - 1/2"

ART.1617



Chrome-plated thermostatic valve, right-angled version. • FAR 24x19 connection

• Size: 3/8" - 1/2"



Chrome-plated lockshield valve, left-angled version. • FAR 24x19 connection Size: 3/8" - 1/2"



ART.1627



Chrome-plated thermostatic valve, right-angled version. Iron pipe connection Size: 3/8" - 1/2'





Chrome-plated lockshield valve, left-angled version. Iron pipe connection • Size: 3/8" - 1/2"



Chrome-plated angled thermostatic valve with horizontal control. • FAR 24x19 connection • Size: 3/8" - 1/2"

STRAIGHT AND ANGLED THERMOSTATIC VALVES

EXAMPLES OF INSTALLATION 1.2

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.



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.

Installation overview

of art.1617-1116



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 has a direct path towards exiting from the radiator.



Installation overview of art.1615

LATERAL CONNECTION

Lateral is the most common type of connection: it permits good radiator

CONSTRUCTION FEATURES z



valve without draining down the system.



It is possible to replace sealing O-Ring within the body of the

CONICAL THREAD WITH SEALING ADHESIVE



SEAT IN HPF

Terminals have conical thread and are provided with Loctite® Dri-Seal 5061 which guarantees seal on standard thread.



Installation of thermostatic and thermo-electric heads can be carried out removing the handle and the plastic component. Unscrew the handle, insert the green extractor on the stainless steel pin and rescrew the handle. In this way it is possible to remove the handle and the plastic component without damaging them in order to install the desired head.



10

BUILDING MATERIALS З



.Valve body	C
2.Shutter	E
3.Body	C
1.Spring	A
5.Pin	A
6.Handle	A
7.Sealing	C
3.Sealing seat	H
9.Terminal body	C
D.Tightening terminal nut	C

W617N brass PDM W614N brass ISI 302 steel AISI 302 steel BS D-Rings EPDM IPF W617N brass W617N brass



4 INSTALLABLE COMPONENTS

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



4.1 INSTALLATION OF THERMOSTATIC AND THERMO-ELECTRIC HEAD

The thermostatic heads allow the automatic opening and closing of the valve on which they are installed in order to obtain the set comfort temperature.





* In order to know the features of the thermostatic head, at 1824, look at the data sheet ST.07.02

The thermostatic controls must not be installed vertically! For a correct measurement of the room temperature, no disturbing elements must be present (furniture components, wall niches, etc.) that could affect its normal operation.

In the event that the temperature reading can be influenced by environmental factors or in case of installations that require the need for a thermostatic control placed vertically, two thermostatic controls with remote temperature sensor are available:

To guarantee correct temperature sensing and regulation - even in situations where heat emitters are affected by other constraints within the room, FAR offers two other systems for detecting room temperature:



Main features

- Thermostatic head with liquid sensor
- Remote selector numbered from 1 to 5
- Length of capillary: 2m
- Temperature range: 0° ÷ 28°C

(The values for the temperature setting are standard for all thermostatic models and are shown on the technical data sheet ST.07.02)



ART.1800

Thermostatic head with sensor and graduated scale for selection of remote temperature value.

The sensor, which features a graduated temperature scale, is placed on the wall in the vicinity of the heat emitter but remote from it by up to 2m. It should be located in an open area with no barriers to free movement of room air. This product is suitable for use with heat emitters located in recesses, or concealed within decorative cabinets, or behind curtains of thick material where free circulation of room air is inhibited.

Thermostatic head and remote sensor.

The sensor is placed at a maximum distance of 2m, usually on the skirting board under the heat emitter, in such a way as to be in the airflow drawn by the radiator or convector itself, which will average the temperature of room air as a whole.



In the following illustrations you can see how the radiator - installed on the free wall (pic.A) - permits installation of art.1824-1828, as the sensor is in contact with circulating air, without any special materials, which might influence the recorded temperature. On the other hand if the radiator is installed in a recess (pic.B) or in presence of furniture, which could interfere with the exact measurement of temperature near the heat emitter, FAR suggests application of **art.1800** or **art.1810**.





4.2 THERMO - ELECTRIC HEADS

FAR thermo-electric heads are available in two versions: with auxiliary micro-switch (**pic.B**) or without (**pic.A**). These heads are activated or deactivated by a thermostat or a control unit. They are available normally open or normally closed with 24V or 230V voltage.





Art.1909-1919-1929-1939

Art.1914-1924-1913-1923

4.3 COMPLEMENTARY ACCESSORIES

Once the handle and the plastic component have been removed, it is possible to install the thermo-electric head as follows: 1) screw the adapter (art. 1941) on the valve 2) assemble thermo-electric head 

CHROME-PLATED TELESCOPIC TERMIN To cover the distar between valve and radia: 3/8": extension from 32 m to 55 mm 1/2": extension from 35 m to 60 mm	CHROME-PLATED STRAIGHT EXTENSION Permits changing a FAR 24x19 female thread in a Ø18-22 connection for copper pipe. Available with 30-35-40 mm extension.	CHROME-PLATED REDUCER Permits changing a FAR 24X19 female thread in a 1/2" female thread.	CHROME-PLATED SPECIAL ELBOW WITH 24X19 CONNECTION AND Ø16 CUT PIPE Available with 30 and 100 mm length.	ECCENTRIC FITTING Available sizes: 1-2-3-4- 5-6 cm with 3/8"-1/2"-3/4" thread, in male-male and male-female versions.
ART.8820	ART.8850	ART.8870	ART.8900	ART.5560

5 FLUYD DINAMIC AND TECHNICAL FEATURES

The fluid dynamic characteristics of the thermostatic valves were determined in combination with the thermostatic head, art.1828













Kv = 1,25 m³/h

* In compliance with the EN215 standard in combination with the thermostatic head, art.1828, (ST.07.15)



Art. 1616 12 - 1617 12 - 1626 12 - 1627 12







Kv = 1,12 m³/h





2.35

Art. 1100	0 12 - 120	0 12							
2000 LOCKSH	HELD VALVE TURN	IS		2	3 4 51	A			
1000									
				////			ПП		7
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10					ŀ)	
10		100	Q[I	l/h]	1000			10	0000
	TURNS	2	3	4	5	TA			
	Kv [m³/h]	0.87	1.84	2.18	2.47	2.65			







Kv [m³/h]

0.83

1.75

2.1

2.26



STRAIGHT AND ANGLED THERMOSTATIC VALVES







LOCKSHIELD VALVE TURNS 2 3 TA 2000 1000 П ∆p[daPa] 100 ₩ H 10 10 100 1000 10000 Q[l/h] TURNS 2 TA З Kv [m³/h] 0,8 1,25 1



Art. 1116 38 - 1117 38 - 1126 38 - 1127 38



* The valves, art. 1620 12 and 1640 12, comply with the EN215 standard in combination with the thermostatic head, art.1828 (ST.07.15)

6 TECHNICAL FEATURES

Nominal pressure: 1 Max temperature: 9 Compatible media: v

10 bar 95°C water, water with glycol

7 DIMENSIONAL FEATURES



1100 12 1/2" 24x19 25

C

Ø2

С

40 56

1" 61 40 68

2

CODE

1116 38

1116 12

1117 38

1117 12





AKI. 1020-1027							
CODE	Ø1	Ø2	А	В	С	CO	
1626 38	3/8"	3/8"	53 (101*)	52	26	1126	
1626 12	1/2"	1/2"	53 (101*)	55	26	1126	
1627 38	3/8"	3/8"	53 (101*)	52	26	1127	
1627 12	1/2"	1/2"	53 (101*)	55	26	1127	



ART. 1116-1117

Ø2

24x19

24x19

24x19

24x19

A B

40 52 26

40

40

40 55 26

55 26

52 26

Ø1

3/8'

1/2'

3/8'

1/2

CODE	Ø1	Ø2	А	В	С
1126 38	3/8"	3/8"	40	52	26
1126 12	1/2"	1/2"	40	55	26
1127 38	3/8"	3/8"	40	52	26
1127 12	1/2"	1/2"	40	55	26



1300 12 1/2" 24x19 46 28 57









