

ART.1828

TELL
Thermostatic Efficiency Label

Manufacturer: FAR S.p.A.
Product: 1828
Reg.-No.: 10622-20170504

Energy

I	█
II	█
III	█
IV	█
V	█
VI	█

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European Valve Manufacturers Association



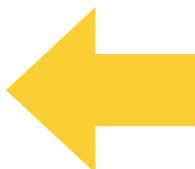
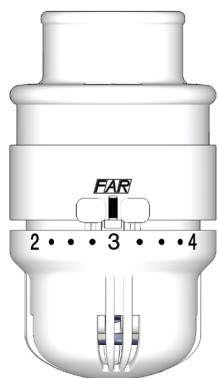
Thermostatic head with liquid sensor for FAR thermostatic valves.

- Temperature regulation range: from 7°C (* position) to 28°C (5 position)
- Antifreeze operation
- Possibility to lock the head in the desired position
- Possibility to restrict the setting range
- Easy installation on the radiator valve
- Keymark certificate
- TELL certificate

1 DESCRIPTION

The FAR thermostatic head is provided with a liquid sensor which detects temperature variations and opens or closes the valve, in order to balance the room temperature.

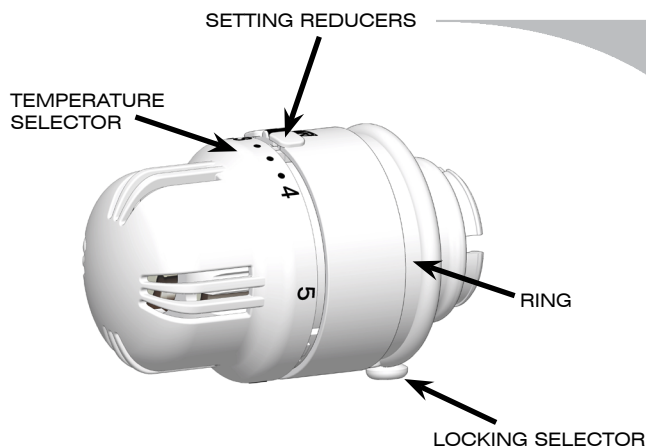
Radiator valves art.1620 12 - 1621 12 - 1640 12 - 1641 12, combined with the thermostatic head art.1828, are certified according to EN 215 standard.



SELECTOR POSITION	TEMPERATURE
0*	RADIATOR OFF*
❄	7 °C
1	12 °C
2	16 °C
3	20 °C
4	24 °C
5	28 °C

***Warning:** the thermostatic head is not a closing mechanism, but a regulation device. In case the radiator needs to be changed, remove the thermostatic head and place a plug on the valve, after removing the connecting fitting and nut. When set on 0, the thermostatic head will open the valve at a temperature of 3°C.

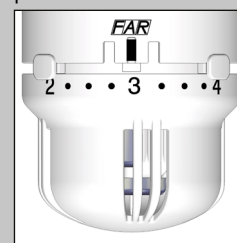
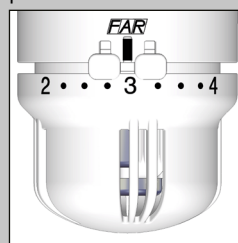
1.1 CONSTRUCTION FEATURES



The setting reducers allow to lock the thermostatic head on the setting value (**picture A**) or to restrict the setting range (**picture B**).

A - The thermostatic head is locked on position 3.

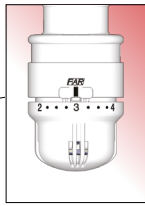
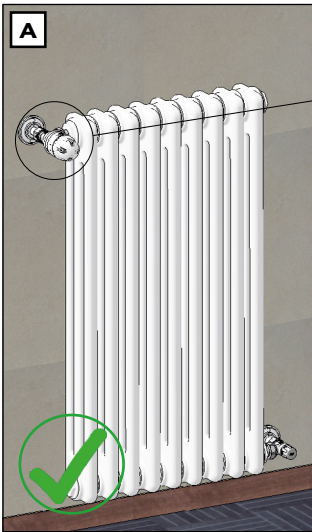
B - The thermostatic head is limited between position 2 and 4.



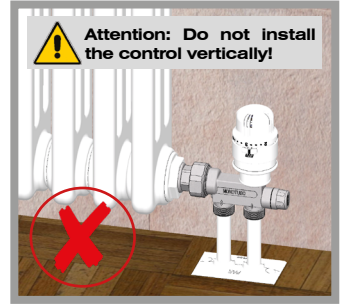
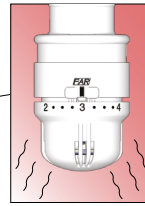
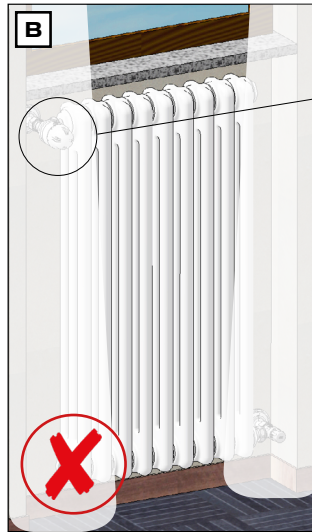
2 INSTALLATION

Thermostatic heads can be installed in a variety of positions with the use of FAR thermostatic valves, which offer solutions to match all types of application.

⚠ In order to have the best working conditions for the thermostatic head, the air heated by the radiator must be free to circulate in the room, so that the sensor is not influenced in the temperature detecting.

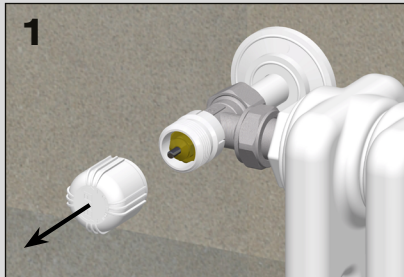


Pic.A the thermostatic head set on position 3 will open or close the valve, in order to obtain a room temperature of 20° C.

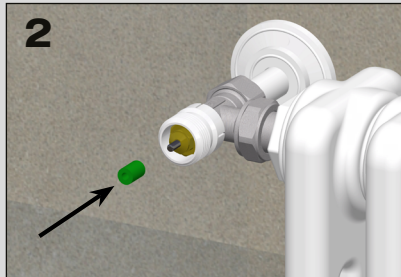


⚠ Attention: Do not install the control vertically!

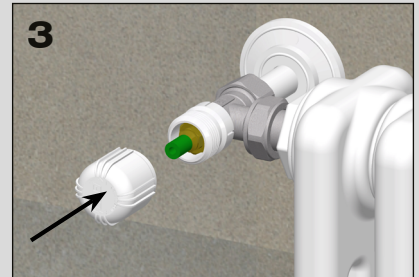
Pic.B Any barrier, such as a curtain, that affects free air flow around the sensor will affect its accuracy. In this case, the thermostatic head set on position 3 may not allow the system to reach the desired room temperature.



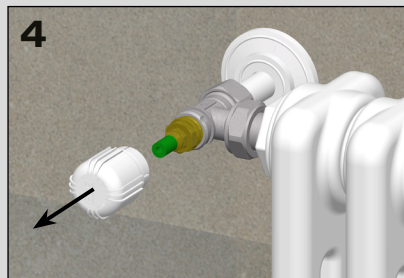
1 Completely unscrew the white handle.



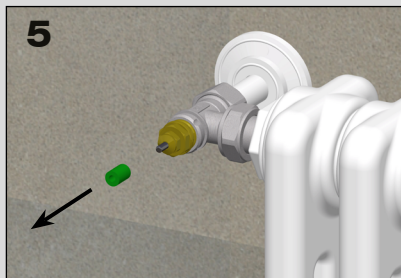
2 Place the green cylinder (included in the box) on the steel pin.



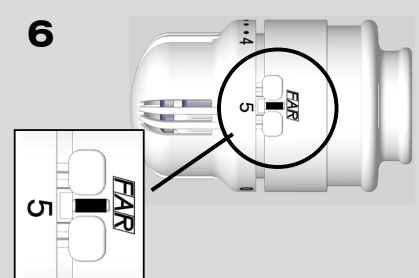
3 Screw the handle back.



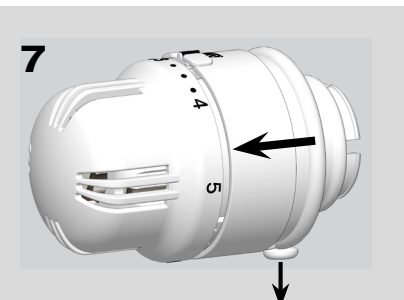
4 Remove the threaded plastic ring.



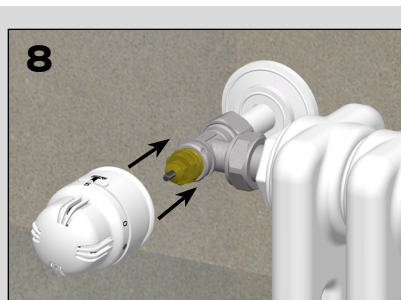
5 Remove the green cylinder from the pin.



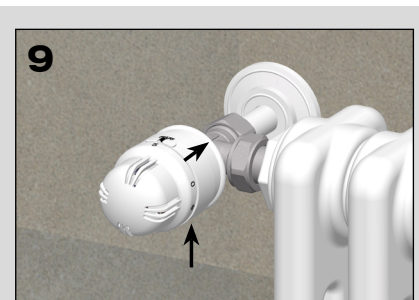
6 Set the temperature selector on n.5



7 Pull the white joint ring towards the selector and place the locking button downwards.

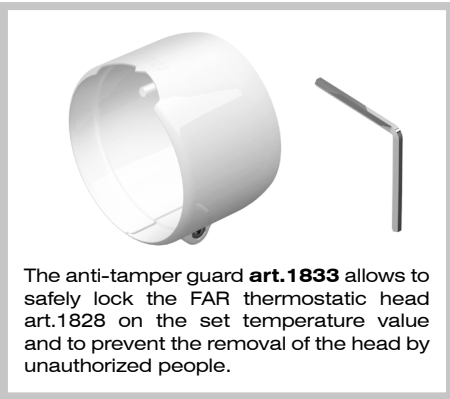


8 Place the thermostatic head in the appropriate grooves as per the picture.

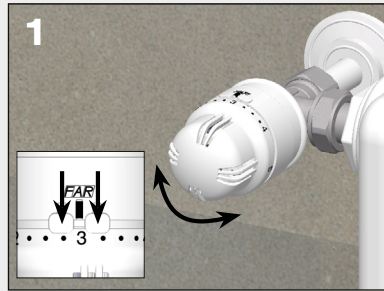


9 Push the ring towards the valve and press the locking button.

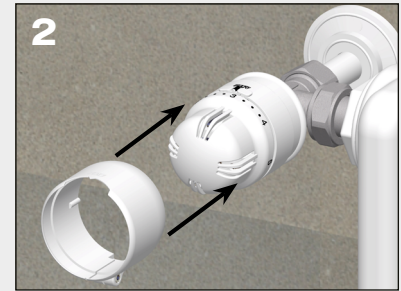
3 ANTI-TAMPER GUARD



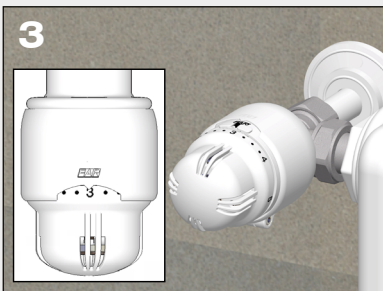
The anti-tamper guard **art.1833** allows to safely lock the FAR thermostatic head **art.1828** on the set temperature value and to prevent the removal of the head by unauthorized people.



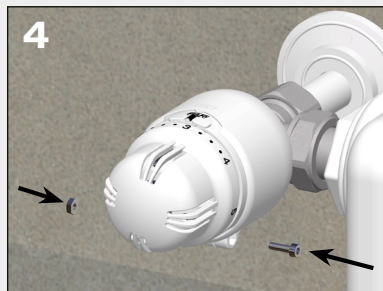
1 Set the desired value and lock the temperature by pushing the two pins on the head towards the numbered ring.



2 Place the anti-tamper guard in the right position, as shown in the picture.



3 Check the correct connection of the anti-tamper guard. The indicator must correspond with the desired number position.



4 Place the locking nut in the seat.

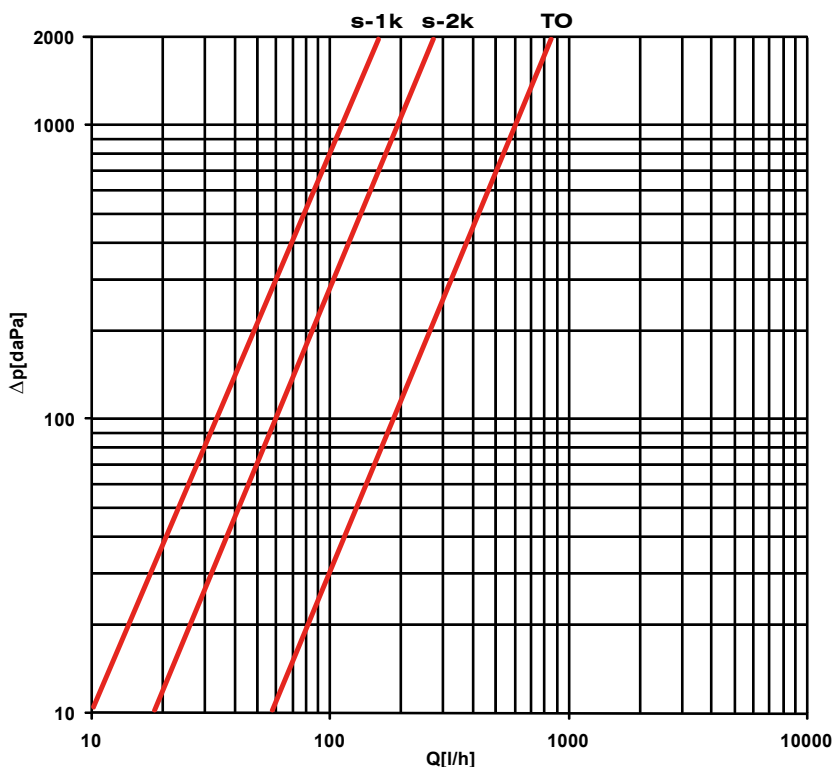


5 Tighten the screw with the Allen key in order to lock the anti-tamper guard.

4 FLUID-DYNAMIC FEATURES

The two graphs show the fluid-dynamic features of the FAR valves, Art.1620 12 and Art.1640 12, with the thermostatic head, Art.1828. The test was performed in compliance with the UNI EN 215 standard.

Art.1828 on valves Art.1620 12 - 1621 12



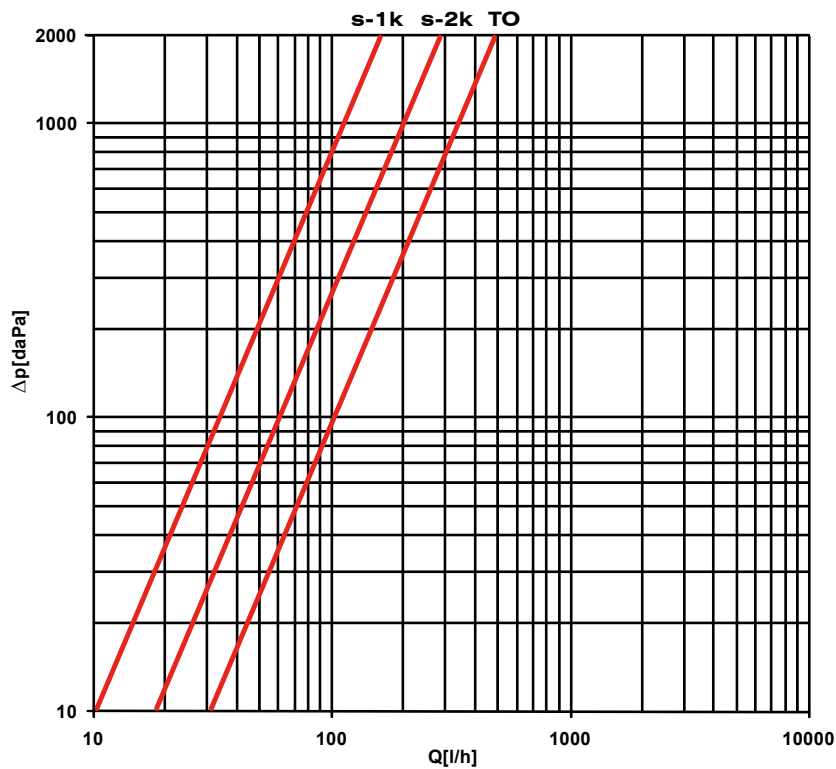
Legend
 TO= Totally open valve
 Kv= Flow rate with pressure drop of 1 bar



Installation overview of thermostatic head art.1828 on the art.1620 12.

POSITION	s - 1k	s - 2k	T.O.
Kv [m³/h]	0.35	0.60	1.7

Art.1828 on valves Art.1640 12 - 1641 12



Installation overview of thermostatic head art.1828 on the art.1640 12.

POSITION	s - 1k	s - 2k	T.O.
Kv [m³/h]	0.35	0.60	1.25

Legend

TO= Totally open valve
Kv= Flow rate with pressure drop of 1 bar

5 TECHNICAL FEATURES

- Maximum differential pressure: 1 bar
- Reference point: 3=20°C
- Maximum room temperature: 50°C
- Max. working temperature: 95°C
- Temperature range: 7-28°C
- Antifreeze operation: 7°C
- Hysteresis: C= 0,30 K
- Response time : Z= 21 min.
- Nominal flow : qmN= 190 kg/h
- Water temperature influence: W= 0,85 K
- Differential pressure influence: D= 0,25 K
- Authority: a=0,85
- Nominal pressure: 10 bar
- Control accuracy: CA= 0.6 K

The technical features refer to the thermostatic control combined with the valves art.1620 12 - 1621 12 - 1640 12 - 1641 12 and are certified according to EN 215 standard.

6 DIMENSIONAL FEATURES

