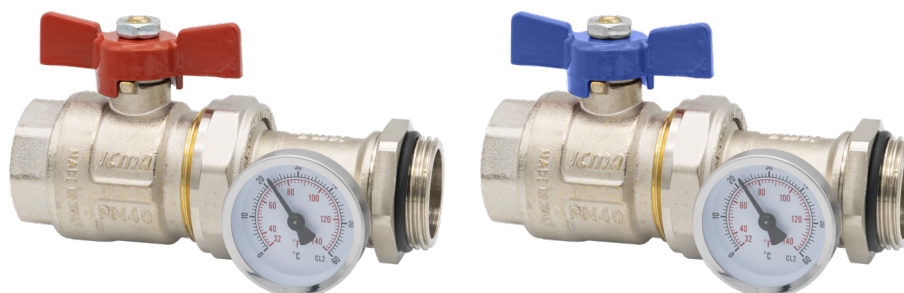


Installation and maintenance guide

Straight ball valve with total passage with thermometer holder connection art. 216



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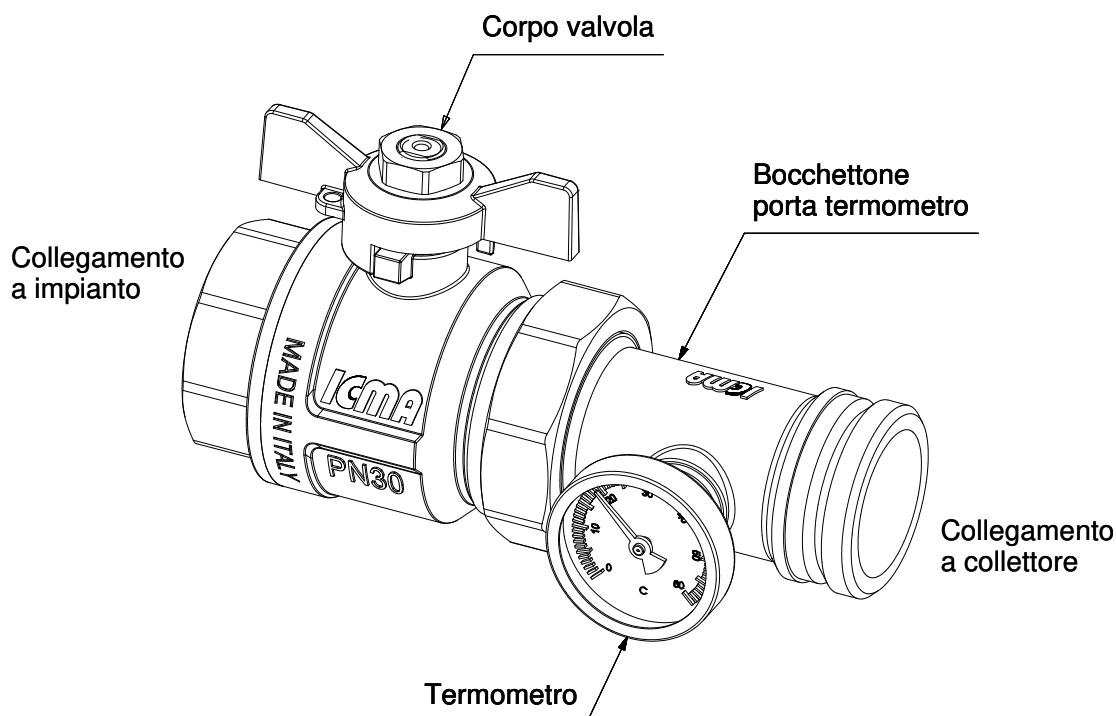
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1. WARNINGS AND ASSEMBLY INSTRUCTIONS

The valve must be installed by a qualified installer in accordance with national regulations and/or relevant local requirements. If the device is not properly installed, commissioned and maintained according to the instructions contained in this manual, it may not function properly and may endanger the user. In case of very aggressive water, there must be an adequate system for treatment of the water before it enters the device in accordance with current regulations. Otherwise it may be damaged and not work properly.

Before installing the valve, make sure that the system has been purged and cleaned to remove any impurities that may accumulate. The system in which the valve is installed must be designed and built in such a way as to avoid stresses that could damage the valve and prevent its correct sealing and efficient operation. It is advisable to install a filter for the collection of any impurities upstream of the valve.

The system is secured by means of a threaded connection; the threads are made according to international standards (type G, ISO 228) and consequently the fittings or pipes to which they are fixed must comply with the same regulations. To facilitate sealing of the gaskets, it is advisable to distribute dedicated sealing products (e.g. PTFE tapes) on the thread of the valve body.

Art. 216**2. COMPONENT DIAGRAM****3. TIGHTENING**

Manual and complete tightening of the valve on the manifold. The seal is guaranteed by the anti-drip gaskets. Tightening with wrench for connection to the system (CH 38 for G1", CH 47 for G1" 1/4).

4. MAINTENANCE AND CLEANING

The valve must be periodically checked to ensure its correct operation: it is advisable to operate the throttle lever (open and close) at least once a year.

5. TRANSPORTATION, HANDLING AND STORAGE

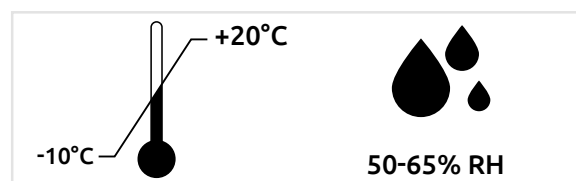
The storage room must be cool, dry, dust-free and moderately ventilated. The temperature must be maintained between -10°C (14°F) and +20°C (68°F).

Failure to comply with these temperature limits may reduce the product's service life.

If the warehouse is heated, the radiators and piping must be shielded; the distance between radiators and goods/products must be at least 1 m (3'3").

The relative humidity must be between 50% and 65%.

During use, observe the sequence of deliveries as closely as possible to ensure stock rotation.



Art. 216**6. FAULT DETECTION/TROUBLESHOOTING AND REPAIR**

MALFUNCTION	POSSIBLE CAUSES	SOLUTION
After installation loss of the threaded connection on the system side	No PTFE tape applied	Apply PTFE tape to the body thread
	Not enough PTFE tape applied	Remove the previously applied tape and reapply it properly
After installation loss of threaded connection on the manifold side	Damaged gasket	Replace the entire valve
The thermometer does not indicate the temperature	Thermometer fault	Replace the thermometer
Difficulty opening and closing the ball valve	No lubrication / dirty / damaged internal components	Replace the entire valve
The ball valve does not close properly	No lubrication / dirty / damaged internal components	Replace the entire valve

7. DISASSEMBLY, DEACTIVATION AND SCRAPPING

At the end of the product's service life, before disposing of it permanently, think about whether it can be used for other purposes.

If it is necessary to dispose of it, disassemble it when the system is stopped, using the wrenches indicated in the installation chapter.

The demolition and disposal of the product are the sole responsibility of the owner, who must act in compliance with the laws in force in their country regarding safety and environmental protection. At the end of its useful life, the product must not be disposed of together with municipal waste. It can be delivered to the appropriate separate collection centres set up by the municipal administrations or to specific retailers that provide this service.

Disposing of the product in a differentiated manner prevents possible negative consequences for the environment and health, resulting from its inadequate disposal, and facilitates recovery of the materials of which it is composed in order to obtain important saving of energy and resources.

We reserve the right to make improvements and changes to the described products and related technical data at any time and without notice. The information contained in this technical communication does not exempt the user from strictly following the existing regulations and standards of good technique. ICMA SpA declines all responsibility in the event of faults and/or accidents if the installation has not been performed in accordance with the technical and scientific standards in force and referring to the manuals, catalogues and/or related technical provisions indicated by ICMA SpA.