



EN	EN TECHNICAL DATA SHEET						
		8	T 0007	2			
а	rt. 630	art. 630/1	art. 630/2	art. 630/3	art.	W51	







art. 630/1 - 630/2 - 630/3



art. W51

Description

4 ways thermostatic mixing valves are devices with mixed water on side or central way and are used to regulate the water temperature. They are used in sanitary water plants, heating circuits, in heating plants, in heat generators (hang-wall boilers, wood boilers, heat pumps) and in generic industrial water plants.

Their function is to maintain constant the mixed water temperature sent to consumer even when temperature and pressure at the hot and cold water inlets will vary. The valves can be used as 4ways valves (using the forth way to make water go back to boiler) or as three way valves (using a plug). If a pump is directly connected, the same range of valve but with a running nut on the central port can be considered (art.ref. 630/1, 630/2 and 630/3).

Articles range

art. 630 4 ways thermostatic mixing valve with mixed water on the side port

4 ways thermostatic mixing valve with mixed water on the side port, running nut pump connection art. 630/1/2/3

and flat face washer

art. W51 "Octopus" 4 ways thermostatic mixing valve with mixed water on the central port, runnig nut pump

connection and flat face washer

Technical features

Temperature range: art. $630 = 30 \div 60 ^{\circ}C$

art. W51 = 25 ÷ 58 °C

Max.working temperature: 90 °C

Accuracy: ±2 °C

Factory pre-settlement : 45 °C Working conditions: Hot T = 70 °C

Cold T = $20 \, ^{\circ}$ C

Hot and cold water pressure = 0,7 bar

Max static pressure (structure): 10 bar Flow rate factor: art. 630 = KV 3,5art. W51= KV 4,5

Installation's connections: threaded connections ISO 228/1

threaded connections UNI EN10226-1

Suitable fluids: water for thermic installations, glycoled water

(max.50%), sanitary water

Standard: EN1111A

on request: versions with galvanic treatment

Materials

Valve's body: Brass UNI EN 1982 CB753S

Washers: EPDM

Chamber: Brass UNI EN 1982 CB753S

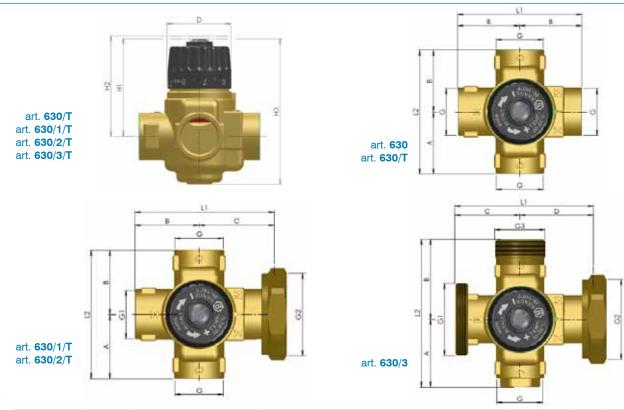
Spring: stainless steel AISI 302

Handle: ABS



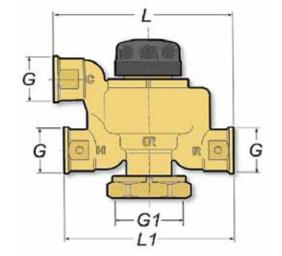


Dimensions



Code	Plug	G	G1	G2	H1	H2	Н3	D	L1	L2	A	В	C	D	Weight	No. Pcs/B	No. Pcs/C
630 A20 000	-	Rp 3/4"	-	-	67	71.5	98	43	82	82	41	41	-	-	830	1	10
630 A20 0001	-	Rp 3/4"	Rp 3/4"	G 1"1/2	67	71.5	98	43	87	82	41	41	46	-	940	1	10
630 A20 0002	-	Rp 3/4"	Rp 3/4"	G 1"	67	71.5	98	43	87	82	41	41	46	-	910	1	10
630 A20 000T	side plug	Rp 3/4"	-	-	67	71.5	98	43	82	90	49	41	-	-	866	1	10
630 A20 0001T	side plug	Rp 3/4"	Rp 3/4"	G 1"1/2	67	71.5	98	43	87	90	49	41	46	-	976	1	10
630 A20 0002T	side plug	Rp 3/4"	Rp 3/4"	G 1"	67	71.5	98	43	87	90	49	41	46	-	946	1	10
630 A20 0003	side plug	G 1" M	G 1"1/2 M	G 1"1/2	67	71.5	98	43	89	98	45	53	43	46	1068	1	10

► On request - Weight (grams) - No. Pcs/B: number of pieces in box, plastic bag - No. Pcs/C: number of pieces in carton



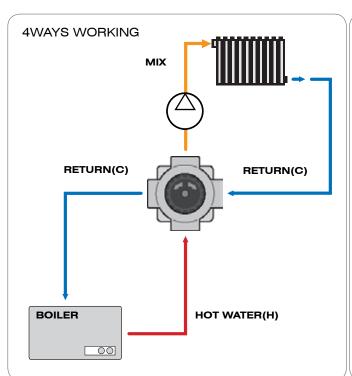
Code	G	G1	L	L1	Weight	No. Pcs/B	No. Pcs/C
W51A20000	G 3/4"	G 1"1/2	127	120	1270	1	12

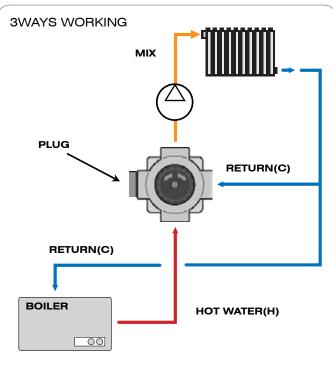
Weight (grams) - No. Pcs/B: number of pieces in box, plastic bag - No. Pcs/C: number of pieces in carton





Working way





Installation

It is suggested, before installing a thermostatic mixing valve, to verify working conditions of the installation, for example pressure and temperature, to guarantee that they are suitable for the thermostic valve working range.

The installation, where the thermostatic valve will be assembled, must be washed and cleaned before the operation. It is also suggested to assemble suitable strainers at the main inlets. If the installation is not accurately cleaned, debris could influence the correct working and warranty of the product. If the valve will be used in areas with very hard water, it is suggested to install water softener before the valve.

The thermostatic mixing valve can be installed in either horizontal or vertical position.

It is important that the valve has free access for maintenance reasons.

To correctly install it please refer to the directional arrow marked with letters on the valve's body

• H(HOT): hot water inlet

• C(COLD): cold water inlet or return way (or outlet towards boiler)

MIX: mixed water outlet

Assembling on pipes is done through thread using standard plumbing skills



EN TECHNICAL DATA SHEET A							
		S	T 0007	2			
art.	630	art. 630/1	art. 630/2	art. 630/3	art.	W51	

Operational instructions and temperature setting

To regularly let the valve operates follow the below instructions:

- Be sure the installation has been cleaned by washing pipes
- The temperature setting must be carried out with a calibrated temperature gauge. To set the temperature, unscrew partially the handle screw, turn the handle clock or anticlockwise untiled the desired temperature has been reached. Once the temperature has been set, block the screw again.

Pay attention: whilst setting the temperature, wait until the temperature gauge is in a steady position before proceeding.

The valve is pre-setted at 45°C. To make an easy setting please refer to scheme 1 (art.ref.630) or scheme 2 (art.ref.W51)

		-	-
_	rt	6.	20

Scheme 1	Scheme 2
Min – 30 °C	Min – 25 °C
$1-34^{\circ}C$	1 – 30 °C
$2-38^{\circ}C$	2-35 °C
3 – 41 °C	3 – 40 °C
4 – 43 °C	4 – 42 °C

-	-10 O	
5 –	45 °C	
6 –	47 °C	

7 – 50 °C 8 – 54 °C

Max - 60 °C

4 – 42 °C
5 – 45 °C
6 – 48 °C
7 – 52 °C
8 – 55 °C
Max – 58 °C

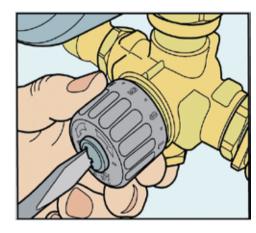
art. **W51**

Scheme 2

Maintenance

Installation maintenance and the checking of a correct working of the thermostatic mixing valve must be carried on every 12 months or more frequently if necessary. If the mixed water temperature has heavily changed from previous tests, it is suggested to check the working conditions of the installation as indicated in the installation and operationals instructions section.

If instructions are not respected, warranty could be no more valid.



Diagrams

