

Thermostatically controllable mixing valves for high flow rates art. MR 22/MR 32



MR 22 and MR 32 are axial mixers suitable to mix hot and cold water in heating systems characterised by high flow rates, for instance on the primary branch of a system for the production of instantaneous domestic hot water connected to a solar puffer. Every valve features a thermostatically controllable insert that makes it ready for either fixed point regulation with thermostatic head or climatic regulation with axial servomotor. Headwork stem is protected by a plastic cover.

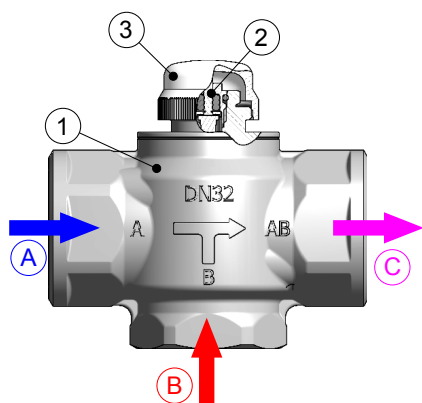
■ TECHNICAL FEATURES

Max fluid temperature: 120 °C
Max operating pressure: 10 bar
Max differential pressure between one inlet and valve outlet: 200 mbar

■ MATERIALS

Brass body: CW617N
Spindle: stainless steel
Other brass parts: CW617N
Flat gaskets: asbestos-free material
O-ring: peroxide EPDM
Protecting cover: ABS

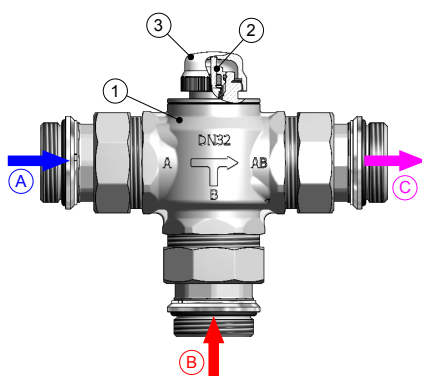
■ MAIN COMPONENTS



1. valve body;
2. spindle;
3. protecting cover.

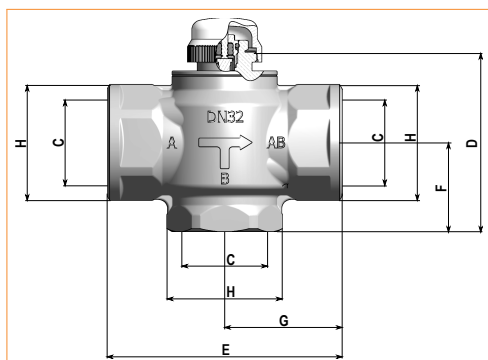
Outtake connections:

- A: cold inlet;
- B: hot inlet;
- C: mixed outlet.

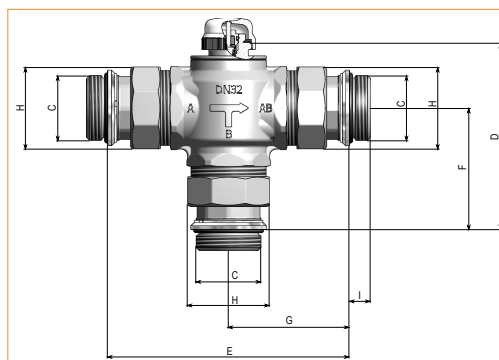


■ DIMENSIONS

MR 22



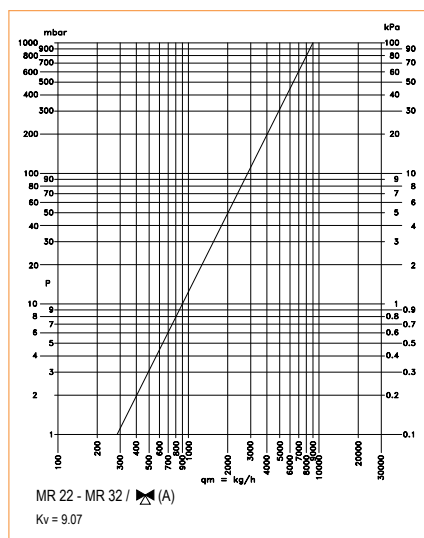
MR 32



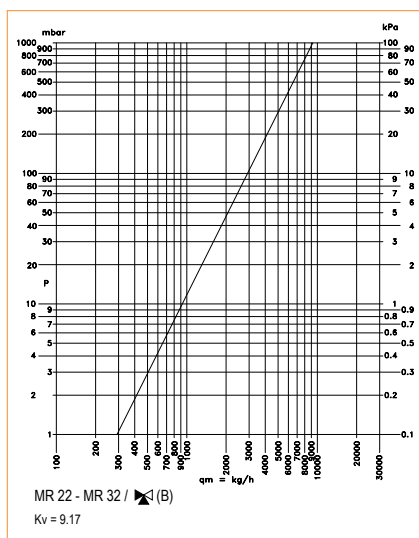
ART.	COD.	C	D	E	F	G	H	I
MR 22	501578	1 1/4"	82	108	41	54	CH.48	-
MR 32	501579	1 1/4"	119	154	77	77	CH.52	13

HYDRAULIC FEATURES

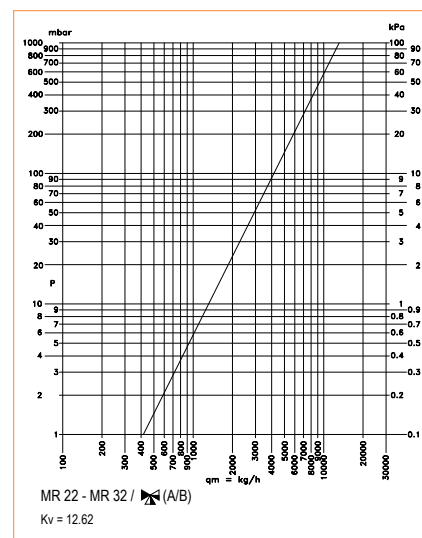
Straight way (A)



Angle way (B)



Midway opening position (~ 50 %)



OPERATING INSTRUCTIONS

Thermostatic head installation and calibration

Valve can be controlled either with fixed point by thermostatic head with remote probe, or with climatic regulation by axial servomotor and controller. Thermostatic head (or servomotor) is to be installed on the spindle, after removing the protecting cover (Fig.1a e Fig.1b). In case of fixed point regulation performed with T 5011U thermostatic head (e.g.: domestic hot

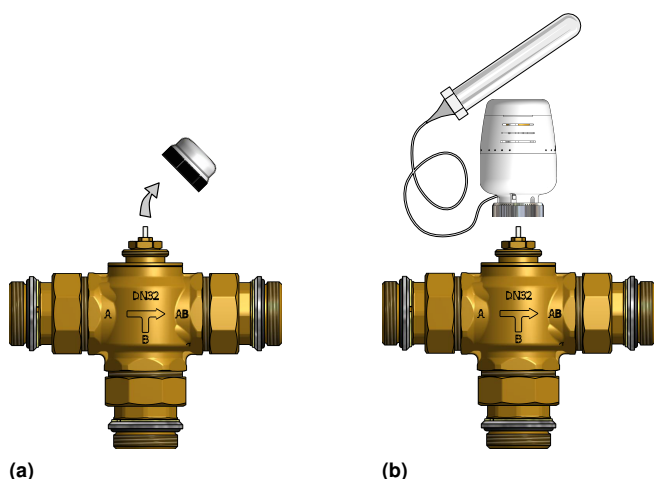
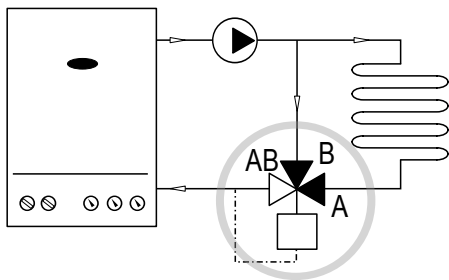


Fig. 1: Installation of thermostatic head for fixed point adjustment.

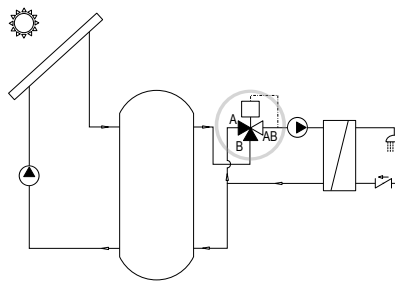
water producer SAP), completely open the handle in order to obtain fluid at about 50 °C at the mixed way outlet (AB).

Application of MR 22 and MR 32

MR 22 and MR 32 valves can be used to mix hot water and cold water in heating systems characterised by high flow rates. Some typical installation examples are reported in Fig.2. In particular, Fig.2a describes how to install the valve in order to rise the temperature of the fluid sent back to the boiler, while Fig.2b reports the application of the valve to instantaneous domestic hot water production systems; in the latter application, it is of utmost importance that the primary inlet temperature is controlled and stabilised, especially in summertime.



(a) Installation upstream boiler return.



(b) Installation on primary branch of DHW production system.

Fig. 2: Installation examples for MR 22 and MR 32 valves.

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