

ART.2020



Angled by-pass differential valve.

- Valve body: CW617N brass
- Connections: 3/4" M-F
- Calibration range: 0,1 - 0,6 bar
- Protection and regulation cap

ART.2021



Straight by-pass differential valve.

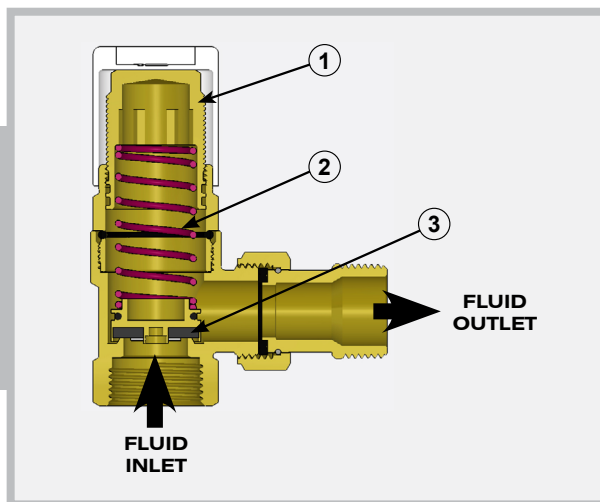
- Valve body: CW617N brass
- Connections: 3/4" M-M
- Calibration range: 0,1 - 0,6 bar
- Protection and regulation cap

1 DESCRIPTION

The by-pass differential valve is designed to be mainly used in systems with flow variations, for the purpose of re-circulating the overflow in the boiler. The re-circulating flow increases in relation to the circuit resistance, i.e. according to the number of valves which are closed. The by-pass valves are ideal for circuits with thermostatic valves, as their automatic closing involves an increase of the by-pass flow, while keeping the pump head constant and at the same time avoiding any unpleasant noise within the system. The by-pass differential valve is available both with angled and straight connections.

The spring (2) calibration can be adjusted by rotating the handle (1), thus changing the force applied to the shutter (3).

The valve opens in relation to the circuit resistance increase, in order to discharge the overflow in the return circuit..

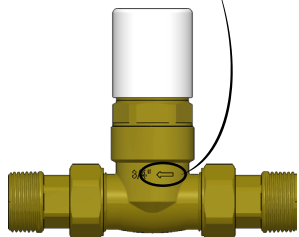


2 INSTALLATION

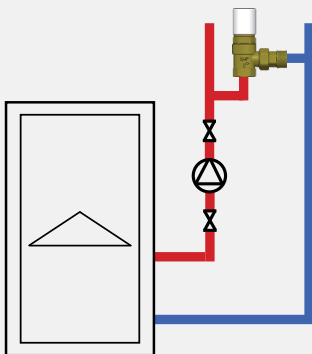
The by-pass valve must be installed after the pump, in vertical or horizontal position, between the delivery and the return pipeline.



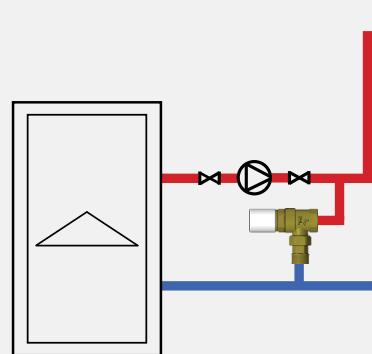
WARNING: mind the flow direction when connecting the valve



INSTALLATION EXAMPLE IN VERTICAL POSITION

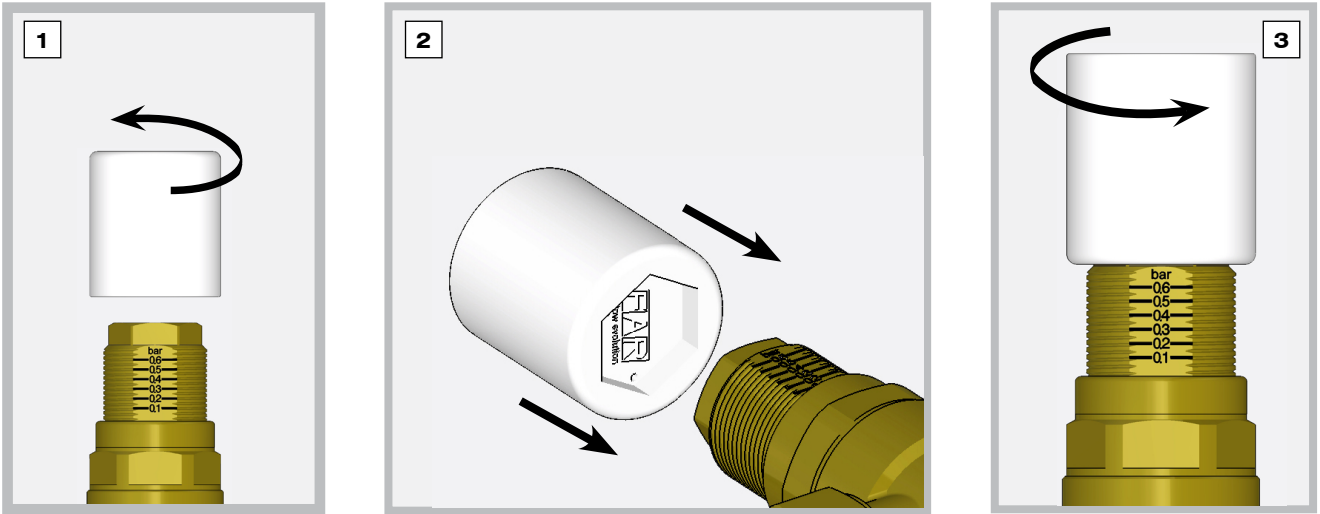


INSTALLATION EXAMPLE IN HORIZONTAL POSITION

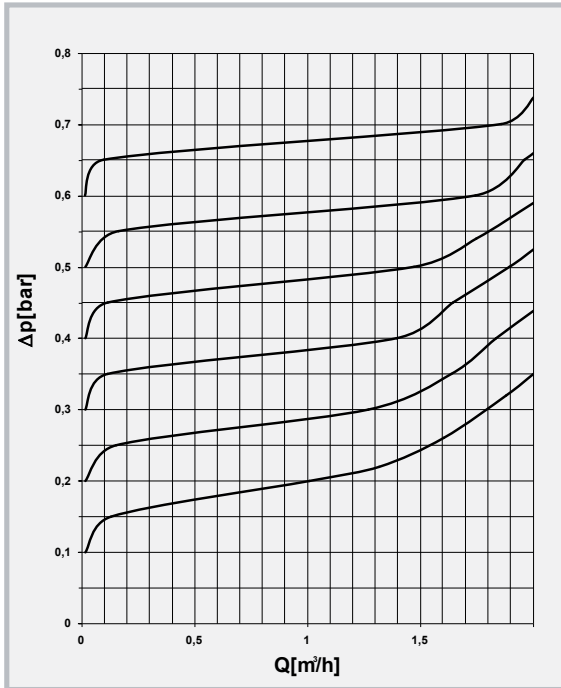


3 SETTING

The calibration range can be read on the handle (picture 1) by removing the valve cap. To adjust the valve calibration, place the cap hexagon on the valve handle (picture 2) and turn until you reach the desired calibration value (picture 3).



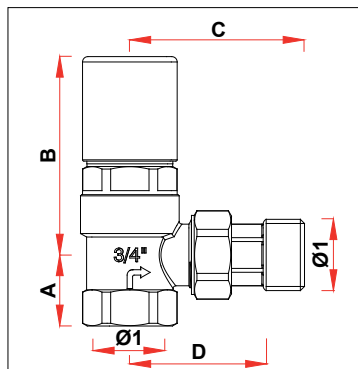
4 FLUID DYNAMIC FEATURES



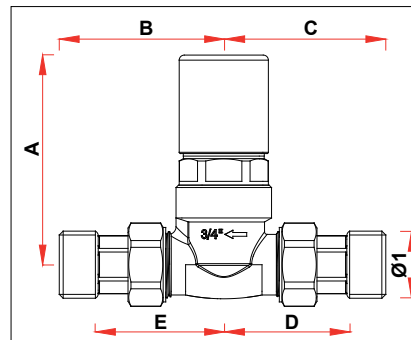
5 TECHNICAL FEATURES

3/4" Connections
Valve body: CW617N brass
Maximum working temperature: 110°C
Nominal pressure: 10 bar
Calibration range: 0,1-0,6 bar

6 DIMENSIONAL FEATURES



CODE	Ø1	A	B	C	D
2020 34	G3/4	27	74	65	51



CODE	Ø1	A	B	C	D	E
2021 34	G3/4	83	65	64	50	51