

## Differential by-pass valves

Art. 554



100% MADE IN ITALY 

**Function** Pintossi+C differential by-pass valve is the perfect solution in order to avoid noise and failures in heating systems using two ways motorized zone valves or thermostatic radiator valves. The valve limits the maximum differential pressure value when the pump is in function, ensuring a flow recirculation proportional to the simultaneous number of valves closed. Yellow brass finishing.

**Product range**

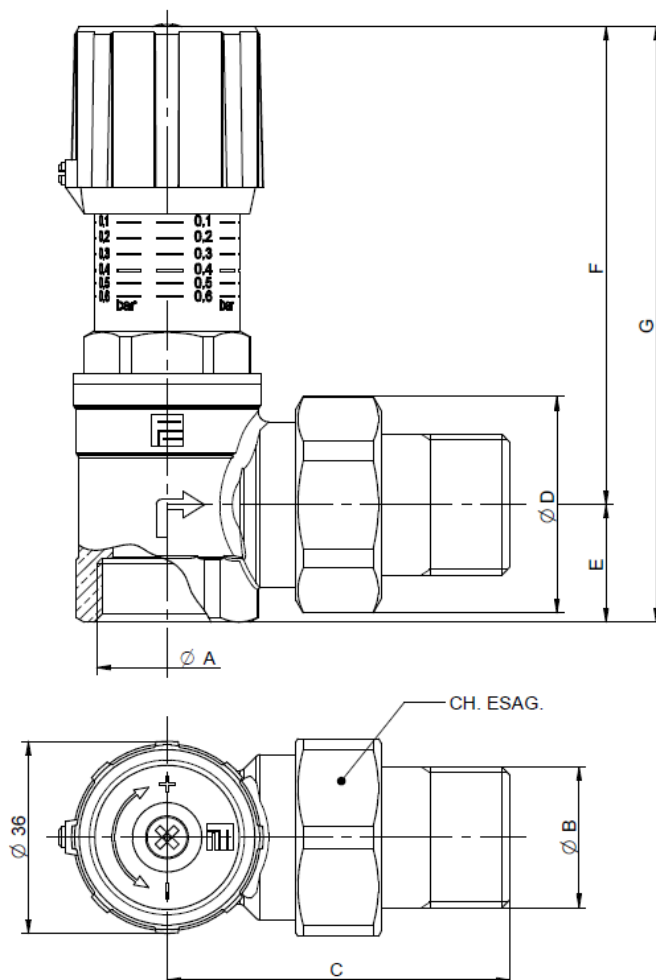
Fluids:	Water or glycol solutions
Max. glycole:	30%
Max. working temp.:	100°C
Max. working pressure:	10 bar
Pressure range regulation:	0,1 bar – 0,6bar

**Materials**

Body:	Brass CW617N
Obturator:	Brass CW617N
Gaskets:	EPDM/NBR
Spring:	Stainless steel
Wheelhandle:	ABS

## Dimensions

ART	ØA	ØB	C	ØD	E	F	G	CH
554	3/4"	3/4"	64	40,5	22	89,5	111,5	37

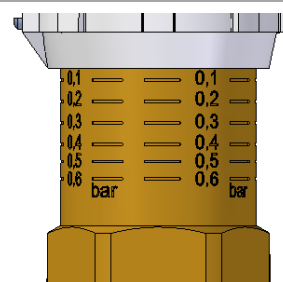


## Pressure regulation

The regulation can be done just by turning the handwheel to the required value using the graduated scale.

The numbers correspond to the differential pressure in metres to open the by-pass.

Locking and un-locking the valve to the chosen set value can be done using the screw equipped on the valve's wheelhandle.



## Installation

The differential by-pass valve should be preferably installed after the pump, respecting the flow direction indicated by the arrow marked on the body.

In case the valve should be used in a large heating system, it's recommended to install the valves on each column rather than installing the valves in series at the boiler room.

The valve can be installed in any position.

## Fluid characteristics

Reference standard for water treatments in heating systems is Norm UNI 8065:2019 which regulates the parameters that must be observed to avoid scale and corrosion phenomena.

In order to grant product warranty, the fluid characteristics must comply with the rules in force in the country of relevance or at least present features not less to the ones prescribed by the Norm UNI 8065:2019.

In particular, minimum standards necessary but not sufficient to control are the following:

Fluid aspect: Limpid

PH: Between 7 and 8

Iron (FE): < 0,5 mg/kg (< 0,1 mg/kg for steam)

Copper (CU): < 0,1 mg/kg (< 0,05 mg/kg for steam)

Antifreeze: Passivated Propylene Glycol

Conditioning: as indicated by the producer

In any case when using antifreeze and conditioning solutions, is required to control and verify the correct compatibility between these substances and the construction materials stated in Pintossi+C technical datasheet.