

# Three way mixing valve with thermostatic capillary remote sensor - 323

## / Description

Art. 323 is a three way mixing valve with thermostatic capillary remote sensor.

The valve allows to mix two fluids (a warm and a cold one), resulting in a third one with the wished intermediate temperature.

Setting range 20-50°

The immersion probe must be coupled with the Art.212 cockpit with remote sensor, but it can work with contact, as well.



## / Technical characteristics

### TECHNICAL DATA

Working fluid:	Water and glycol solutions
Max. percentage of glycol:	30%
Setting temperature range:	20÷50°C
Max. working pressure:	10 bar
Min. working pressure:	1 bar

### MATERIALS

Valve bodies and fittings:	Brass CW617N - UNI EN 12165
Caps and unions:	Brass CW617N - UNI EN 12165
Hydraulic seals:	Perox EPDM

## / Pre-adjustment

The thermostatable valve can be pre-adjusted in order to limit the maximum flow rate in the main way. Consequently the flow rate on the by-pass way will increase. To pre-adjust the zone valve do as follows:

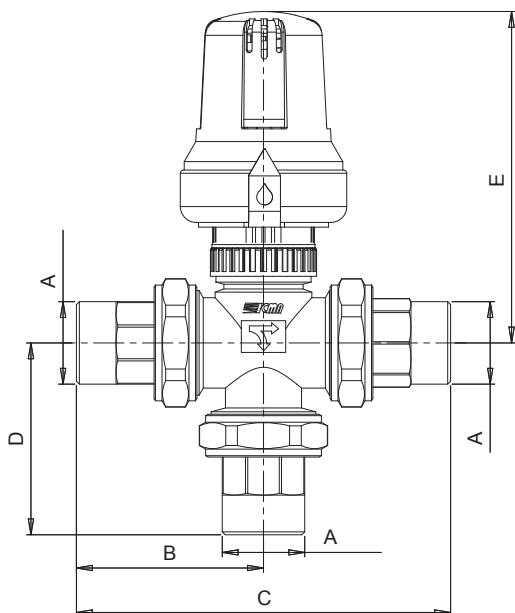
- Rotate clock-wise the plastic stuffing box with a simple screwdriver, until it reaches its limit position.
- Rotate counter clock-wise the stuffing box to set it on the wished flow rate.

The set flow rate will be the zone valve maximum Q value on the straight way. When the adjustment of the maximum flow rate has been carried out, the valve in opening operating mode will always return to the boiler.



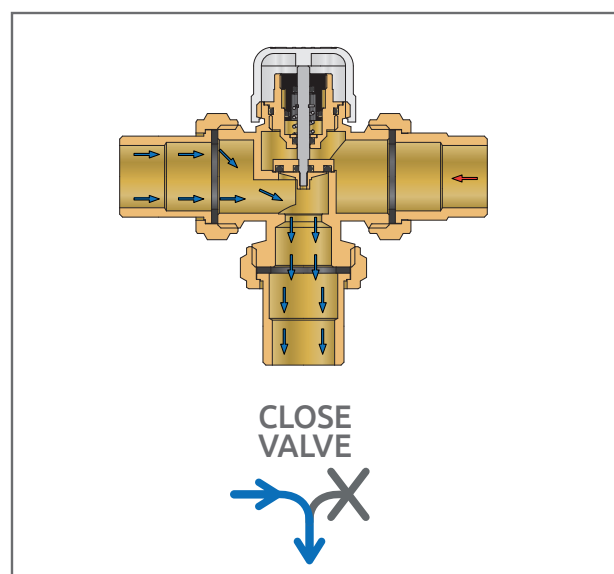
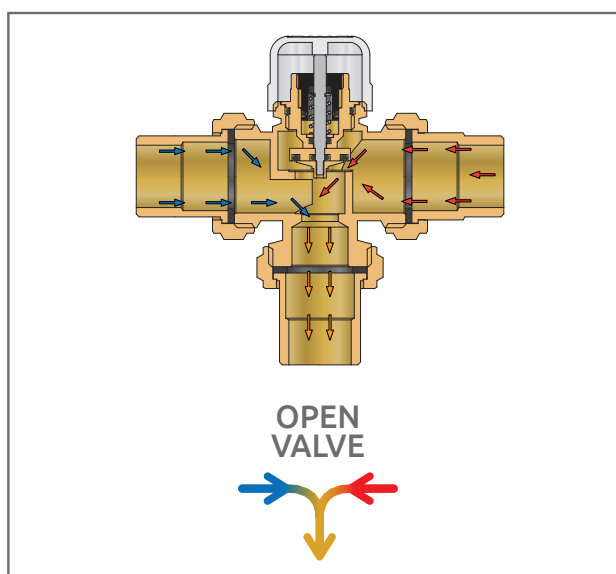
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## Dimensions Art. 323



Code	82323AD05	82323AE05	82323AF05
<b>A</b>	1/2"	3/4"	1"
<b>B</b>	59	59	64
<b>C</b>	118	118	128
<b>D</b>	60,5	60,5	70,5
<b>E</b>	104,5	104,5	104,5

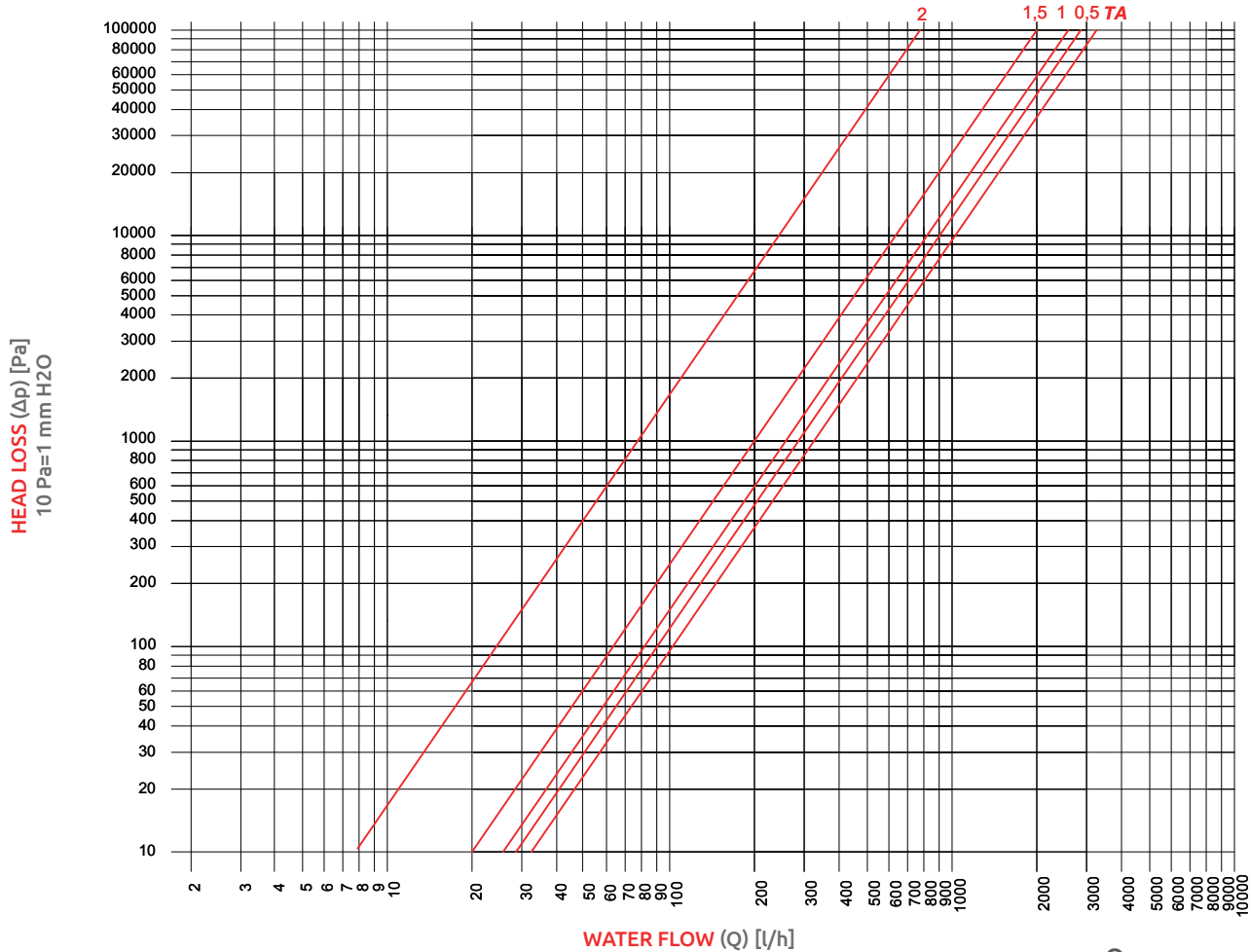
## Diverting valve flow direction



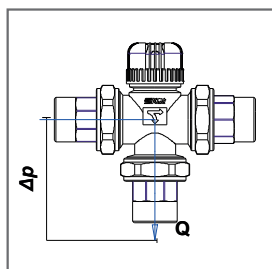
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## Hydraulic characteristics

Mixing valve Art. 323  
HEAD LOSS DIAGRAM

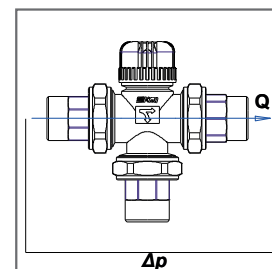


$$Kv = \frac{Q}{\sqrt{\Delta P}}$$



<b>Kv*</b> [m <sup>3</sup> /h]
3,25

\*Constant valve



Turns No.	Kv [m <sup>3</sup> /h]
TA	3,20
0,5	2,92
1	2,68
1,5	1,98
2	0,76
2,5	0

## / Safety



Please read carefully the installing and operating instructions before activating the device, thus avoiding accidents or damage to the plant. We remind you that the right to warranty lapses when the product is altered or sabotaged without authorisation during the installing phase.

## Operating conditions

The indicated limit values cannot be in any way exceeded. The operating safety is assured by respecting the general conditions and the limit operating values described in this sheet.

## Installing and examining safety norms

The installing and examining operations must be carried out by qualified and authorised staff, that have acknowledged the instructions here described. Before any operation on the equipment, it is mandatory to control that the system is off.

## / Maintenance



The maintenance operations must be carried out by qualified and authorised staff, that have acknowledged the instructions here described. Before any operations on the equipment, it is mandatory to control that the system is off.