

3 WAY VALVE

THERMOSTATIC

COMPACT, ACCURATE
AND FAILURE-FREE

3 Way Thermostatic valve is an accurate and compact, premium quality control valve suitable for keeping medium temperature (e.g. water, oil etc.) constant.



THERMOSTATIC 3 WAY VALVE

PN 10/16/25/40, DN15 - DN200 mm

We produdly deliver a unique and competitive product, guaranteeing reliable operation and performance.

Whenever a media is heated or cooled to a certain temperature, Clorius Controls has the most efficient solution.

The thermostatic 3-way valves can be used selectively as either mixing or diverting valve.

■ Mounting of the thermostatic 3-way valve for the regulation of the medium-inlet temperatures as flow divider, e.g.

- A** From the motor
- B** To the motor /by-pass
- C** To the cooler

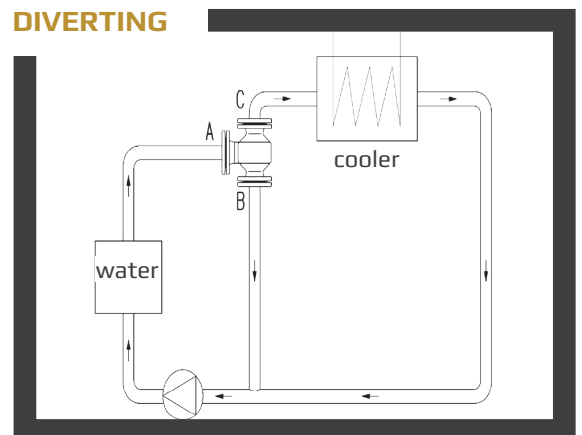
■ Mounting of the thermostatic 3-way valve for the regulation of the media-outlet temperatures as mixing valve, e.g.

- A** To the motor
- B** From the motor /by-pass
- C** From the cooler

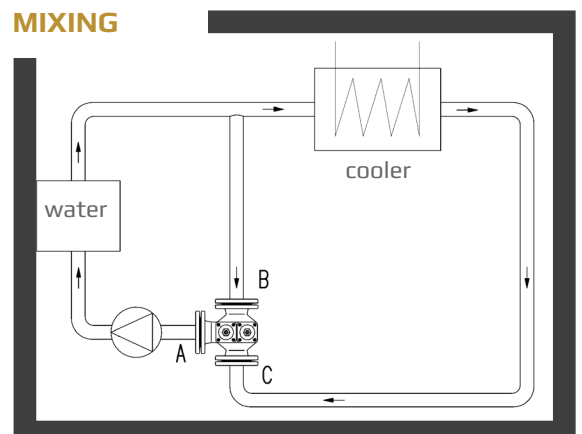
The markings A, B and C are moulded on the valve body.

PORT NUMBERING

DIVERTING



MIXING



FEATURES

- Robust and compact design
- Maintenance Free
- Service friendly
- ZERO sensitivity to pressure fluctuations
- Easy to install and use
- Accurate and stable
- Self-acting

APPLICATION

Clorius Controls thermostatic 3-way valves of the illustrated series are suitable for keeping medium temperatures (eg. water, oils, etc.) constant and can be used both as divider and as a mixing valve. They are characterized by a high degree of maintenance-free operation, exceptional serviceability and robustness. An exchange of the internal parts is possible – without removal of the control valve from the pipeline – on the spot. Incorrect assembly can be excluded. The temperature regulators can be used in any position.

OPERATING PRINCIPLES

Clorius Controls thermostatic 3-way valves has, depending on the nominal width, a number of expansion elements, each equipped with its own slider. The strain elements are surrounded by the medium and absorb the temperature of the medium. The characteristic of the regulator is determined by the opening start and the full opening temperature of the expansion element. When the delivery medium reaches the opening temperature of the expansion element, this opens the one path of the three-way controller while the other path begins to close.

TECHNICAL DATA I

REGULATING VALVE

Materials:

- Housing EN-GJS-400-15
- Innerparts Stainless steel, brass

Sealing kit	NBR
Operation temperature	max. 120 °C
Operation pressure	max. 16 bar
Admissible differential pressure	max. 16 bar
Nominal pressure	PN 10, 16, 25, 40
Connection	Flange EN 1092-1 Flange EN 1092-2

TECHNICAL DATA II

WAX-THERMOSTAT

- Materials:** Brass, bronze, stainless steel (nickelized, gilded)
- Operation temperature** max. 120 °C

DELIVERABLE TEMPERATURE RANGES (In principle)			
05 - 15 °C	37 - 47 °C	62 - 71 °C	82 - 93 °C
14 - 26 °C	39 - 50 °C	66 - 74 °C	85 - 96 °C
20 - 30 °C	43 - 54 °C	68 - 78 °C	88 - 99 °C
27 - 37 °C	51 - 60 °C	71 - 79 °C	93 - 103 °C
29 - 40 °C	54 - 63 °C	74 - 82 °C	102 - 113 °C
32 - 41 °C	57 - 66 °C	77 - 85 °C	
35 - 43 °C	60 - 69 °C	79 - 88 °C	



**PIONEERING
TECHNOLOGY.**

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Clorius
CONTROLS