

# 2-way Control Valve type M2F

Cast iron, PN 16, DN 100 – 150 mm

0-2.3.05-H

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## TECHNICAL DATA

### Materials:

- Valve body	Cast iron EN-GJS-400-15
- Components	Stainless steel
- Nuts, bolts	24 CrMo 4/A4
- Gasket	Graphite
Nominal pressure	PN 16
Seating	Double-seated
Flow characteristic	Almost quadratic
Function	Closing with pressure on spindle
Leakage rate	$\leq 0,5\%$ of Kvs
Regulating capability	Kvs/Kvr > 25

Flanges drilled according to	EN 1092-2
Counter flanges	DIN 2633

## APPLICATIONS

Control valves type M2F are designed for regulating hot water, steam and hot oil systems. The valves are installed combined with temperature or pressure differential regulators in control systems for heating to domestic premises, district and group heating schemes, industrial processes or marine installations.

## DESIGN

The valve components - spindle, seats and cone - are made of stainless steel. The valve body is made of cast iron EN-GJS-400-15 with flanges drilled according to EN 1092-2. The connection thread for the actuator connection is G1B ISO 228. The valves are double-seated. The leakage rate is less than 0.5% of the full flow (according to VDI/VDE 2174).

## FUNCTION

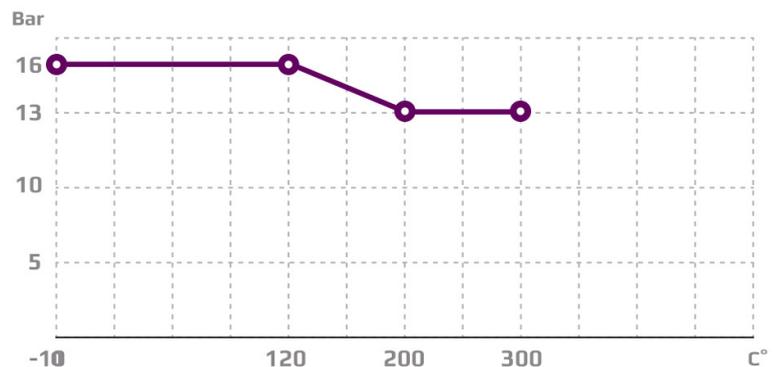
Without the actuator being connected, the valve is held in open position by means of a spring. With pressure on the spindle the valve will close. In connection with our thermostats, pneumatic or electric actuators, the valves will close at rising temperatures. For cooling circuits the valve can be used in conjunction with a reverse acting electric actuator. Alternatively a reverse acting valve can be used with our self-acting thermostats. The linear characteristic will not cease, until the flow has dropped below 4% of the full flow.

## FEATURES

- Simple design secures reliable controls.
- Location of the pack box in the actuator makes the valve service friendly
- Reliable and secure due to internal parts of stainless steel

## PRESSURE/TEMPERATURE DIAGRAM

According to DIN 2401



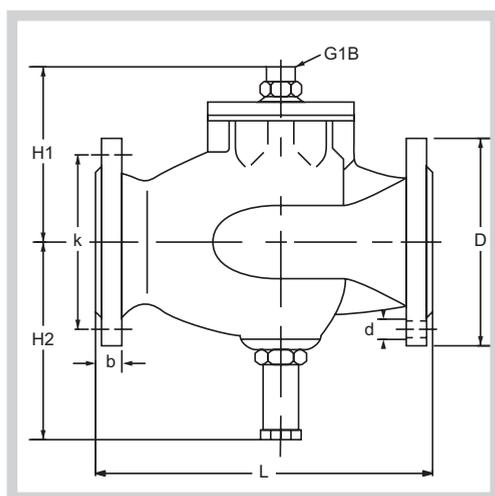
Subject to change without notice.

### MOUNTING

The valve can be installed with vertical as well as horizontal spindles. For valve temperatures of max. 170 °C, the thermostat/ actuator can be fitted below or above the valve. For valve mounted with thermostats in media temperatures above 170 °C, a cooling unit has to be applied with connection downwards (please refer to data sheet for thermostat accessories). For electric actuators a high temperature adaptor must be used (please refer to data sheets for the electric actuators).



### DIMENSION SKETCH



Type	L mm	H1 mm	H2 mm	b mm	D (dia.) mm	k (dia.) mm	d mm dia. (number)
100 M2F	350	185	209	24	220	180	18x(8)
125 M2F	400	205	224	26	250	210	18x(8)
150 M2F	400	240	244	26	285	240	22x(8)

### SPECIFICATIONS

Type	Flange connection DN in mm	Opening mm	$k_{vs}$ -value $m^3/h$	Lifting height mm	Weight kg
100 M2F	100	100	125	20	32
125 M2F	125	125	215	20	50
150 M2F	150	150	310	20	70