

2-way Control Valve type M2FA,

Cast Iron, PN 10, DN 200 mm / PN 6, DN 250 – 300 mm

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APPLICATIONS

Regulating valve type M2FA is designed for regulating water, lubricating oil and other liquid media. The valves are designed for use in conjunction with large industrial processes, district heating and marine installations, e.g. cooling of main and auxiliary engines. Is designed for use in conjunction with Clorius valve motor type AVM/AVF 234.

DESIGN

The valve components (seats and cone) are made of alu bronze, the spindle of stainless steel. The valve body is made of cast iron and the valve flanges are drilled according to EN 1092-2.

FUNCTION

The valve cone is firmly connected with the motor spindle. The valve will close or open at rising temperatures. Depending on the application a reverse acting actuator can be used. The linear characteristic will not cease, until the flow has dropped below 4% of the full flow.

TECHNICAL DATA

Materials:

- Valve body	Cast iron EN-GJS-400-15
- Trim	Alu Bronze CuAL10Fe5Ni5
- Valve spindle	Stainless steel (W.no. 1.4436)
- O-ring	AFLAS A75H
- Gasket	Reinz-AFM34

Nominal pressure

- 200 M2FA	PN 10 (max. 120°C)
- 250-300 M2FA	PN 6 (max. 120°C)

Seating Double-seated

Flow characteristic Almost linear

Leakage rate $\leq 0.5\%$ of Kvs

Regulating capability Kvs/Kvr > 25

Flanges EN 1092-2 PN 10

Note! Type 250 M2FA has outer measures and flanges drilled as type 300 M2FA

Counter flanges (suggested)

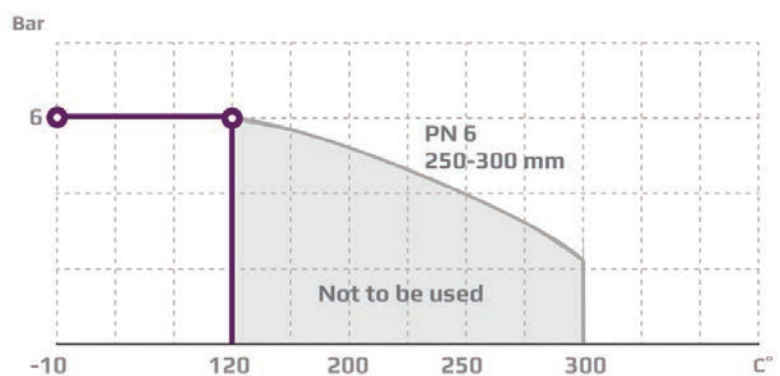
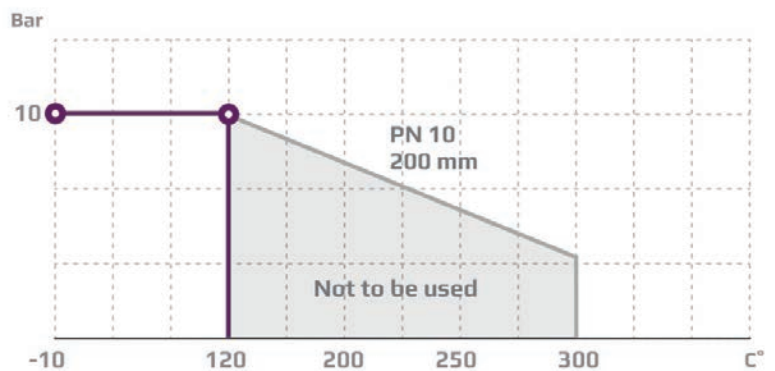
- 200 M2FA	DIN 2633 – PN 10/16
- 250-300 M2FA	DIN 2632 – PN 10

FEATURES

- Simple design secures reliable controls and reduces costly downtime
- 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

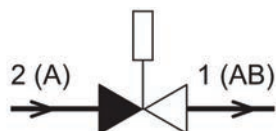
According to DIN 2401



Subject to change without notice.

PORT NUMBERING

The ports of valves type M2FA are marked with the figures 1 and 2. The letters in parentheses refer to the corresponding internationally adapted designations.



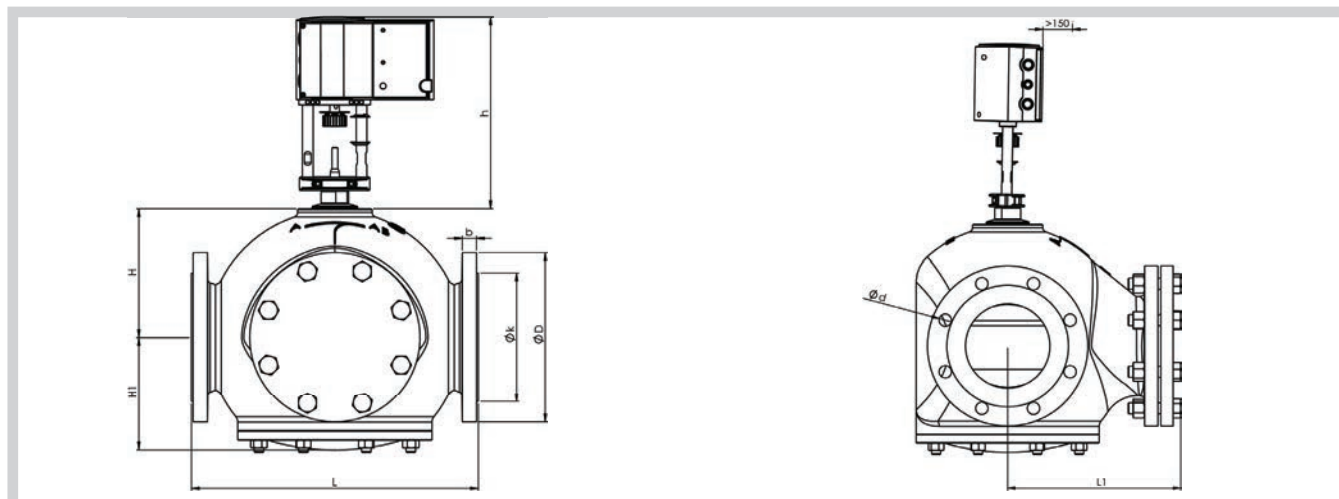
Port 2(A) closes at load on spindle.



MOUNTING

The valves can be installed with vertical as well as horizontal spindles. The valves must be mounted in a way that the valve motor will be exposed to a minimum of moisture and unnecessary vibrations. Free height above / below the valve must be minimum 400 mm for mounting and operation of the AFM 234 or AVF234 motor. See drawing.

DIMENSION SKETCH



Type	L mm	L1 mm	H mm	H1 mm	b mm	D (dia.) mm	k (dia.) mm	d mm dia. (number)
200 M2FA	600	380	238	238	26	340	295	22x(8)
250 M2FA ¹⁾	850	510	305	305	28	445	400	23x(12)
300 M2FA	850	510	305	305	28	445	400	23x(12)

1) Valve type 250 M2FA has outer measures and flanges drilled as type 300 M2FA.

SPECIFICATIONS

Type	Flange connection mm	Opening DN in mm	k _{vs} -value m ³ /h	Lifting height mm	Weight kg
200 M2FA	200	200	555	28	160
250 M2FA ¹⁾	300	300	865	28	306
300 M2FA	300	300	1250	45	290

1) Valve type 250 M2FA has outer measures and flanges drilled as type 300 M2FA.