4.6

Flow Control Valve

Type 2FRM6

Rectifier Plate

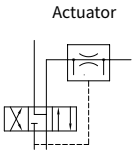
Type Z4S6

Size 6
Up to 315 bar
Up to 32 L/min

Contents

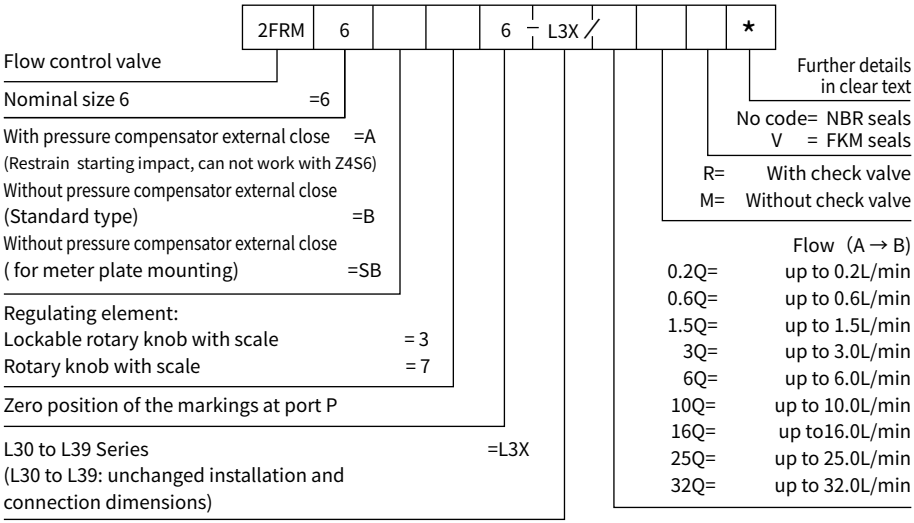
Features

- For subplates see catalogue
- External closing of the pressure compensator, optional
- Check valve, optional
- Rotary knob with scale, optional lockable

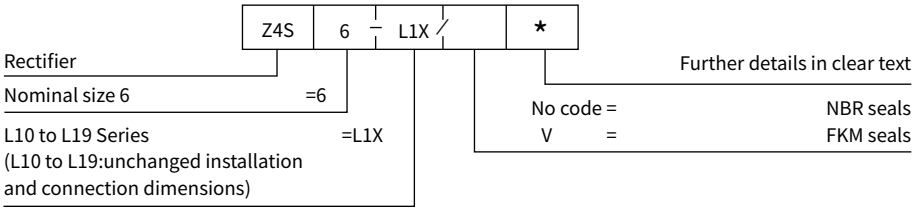

Actuator

Ordering code

· For flow control valve



· For rectifier plate



Technical data

· Flow control valve

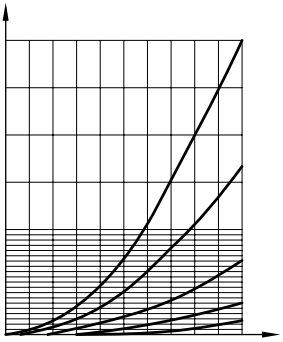
Max. operating pressure at port A		bar	315							
Pressure differential ΔP for free return flow B to A			See characteristic curves							
Minimum pressure differential		bar	6 to 14							
Pressure stability up to P= 315 bar		%	±2(Qmax)							
Flow -rate	Qmax	L/min	0.2	0.6	1.5	3	6	10	16	25	32
	Qmin to 100bar	mL/min	15	15	15	15	25	50	70	100	250
	Qmin to 315bar	mL/min	25	25	25	25	25	50	70	100	250
Fluid			Mineral oil suit, Phosphoric acid ester								
Fluid temperature range		°C	– 20 to + 80								
Viscosity range		mm^2/s	10 to 800								
Degree of contamination			Maximum permissible degree of fluid contamination: Class 9. NAS 1638 or 20/18/15, ISO4406								
Installation position			Optional								
Circumstances temperature range		°C	-20 to +50								
Weight	2FRM6A...2FRM6B...	kg	Approx.1.3								
	2FRM6SB...	kg	Approx.1.5								

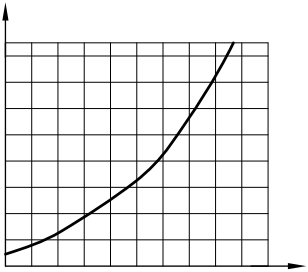
· Rectifier

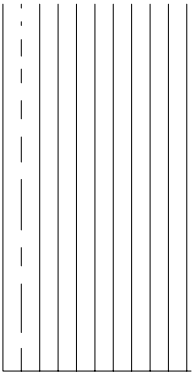
Nominal flow	bar	320
Maximum operating pressure	bar	To 210
Cracking pressure	bar	0.7
Weight	kg	Approx.0.9

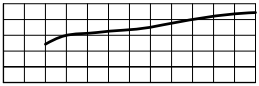
Characteristic curves (Measured at ϑ_{oil}=40°C ±5°C , using HLP46)

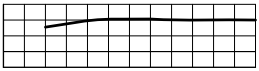
Flow in relation to the scale setting (flow control from A to B)

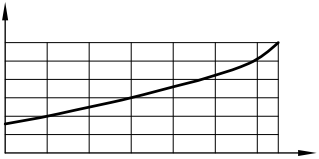


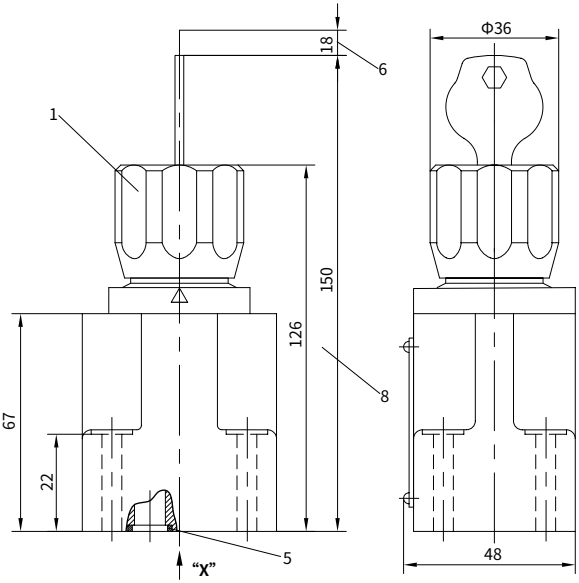


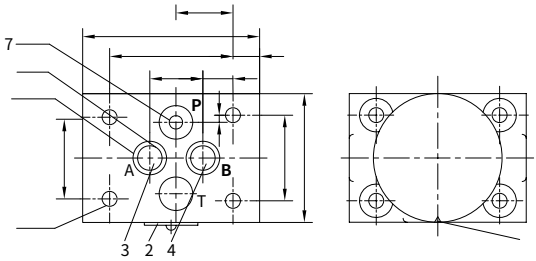


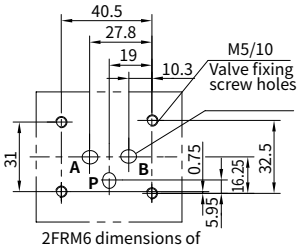




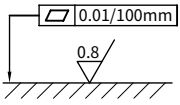








2FRM6 dimensions of mounting surface

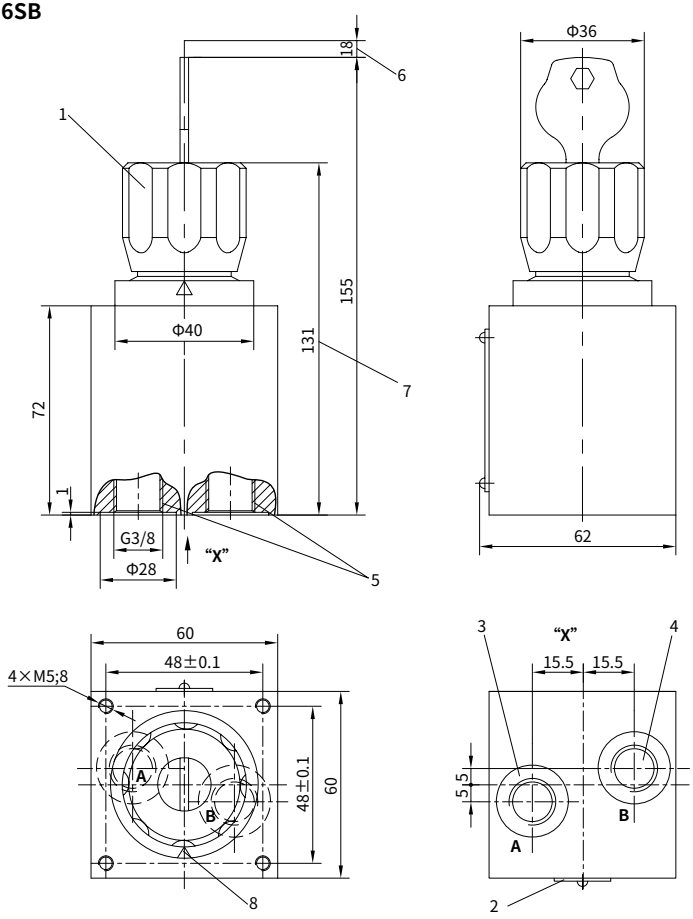


Requirement of mounting surface

Unit dimensions

(Dimensions in mm)

Type 2FRM6SB

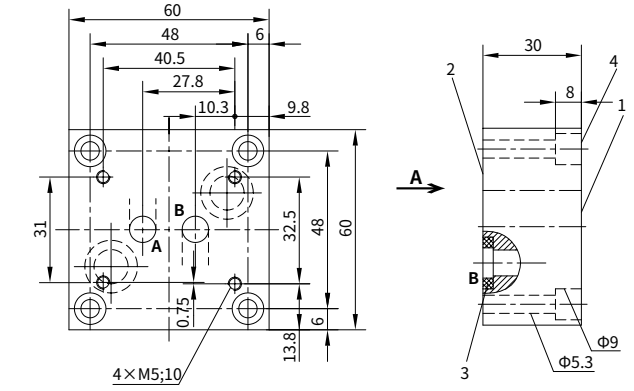


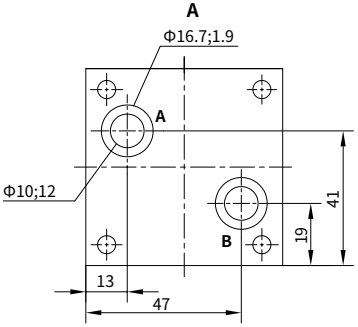
1 Lockable rotary knob with scale (adjustment element "3")
2 Name plate
3 Inlet a
4 Outlet "B"
5 Connection thread G 3/8 to ISO 228/1
6 Space required to remove key
7 Rotary knob with scale (adjustment element "7")
8 Position of marking opposite to the nameplate

Unit dimensions

(Dimensions in mm)

Transition plate AG5075





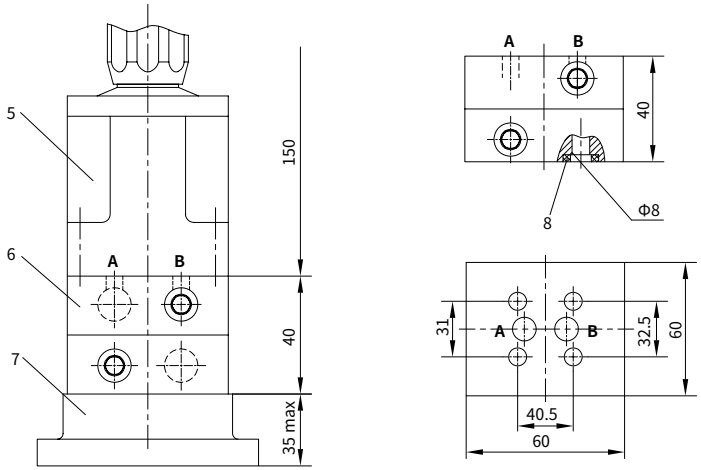
1 Mounting surface matching flow control valve Type 2FRM6
2 Mounting surface matching flow control valve Type 2FRM5
3 O-rings 12×2.5
4 **Valve fixing screws:**
M5×30 GB/T 70.1-10.9
internal hexagon screw
(Tightening torque M_A =6.1Nm)

Note:
The transition plate type AG5075 is specially designed for mounting flow control valve type 2FRM6B..-L3X/.. onto an existing porting pattern of flow control valve type 2FRM5-30/...

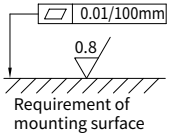
Unit dimensions

(Dimensions in mm)

Rectifier type Z4S6-L1X



5 Flow control valve
6 Rectifier
7 Sub-plate
8 O-rings 9.25×1.78



Caution:
Rectifier sandwich plate type Z4S6-L1X can not be used in conjunction with flow control valve type 2FRM6A..-L3X/.. with built-in external connection of the pressure compensator.