



4.6

Flow Control Valve

Type 2FRM6

Rectifier Plate

Type Z4S6

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

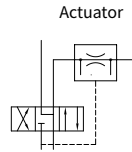


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Features

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



Ordering code

• For flow control valve

2FRM	6			6	-	L3X	/			*
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Flow control valve

Nominal size 6 =6

With pressure compensator external close =A
(Restrains starting impact, can not work with Z4S6)

Without pressure compensator external close (Standard type) =B

Without pressure compensator external close (for meter plate mounting) =SB

Regulating element:
Lockable rotary knob with scale = 3
Rotary knob with scale = 7

Zero position of the markings at port P =L3X

L30 to L39 Series (L30 to L39: unchanged installation and connection dimensions)

Further details in clear text

No code= NBR seals
V = FKM seals

R= With check valve
M= Without check valve

Flow (A → B)

0.2Q= up to 0.2L/min
0.6Q= up to 0.6L/min
1.5Q= up to 1.5L/min
3Q= up to 3.0L/min
6Q= up to 6.0L/min
10Q= up to 10.0L/min
16Q= up to 16.0L/min
25Q= up to 25.0L/min
32Q= up to 32.0L/min

• For rectifier plate

Z4S	6	-	L1X	/		*
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Rectifier

Nominal size 6 =6

L10 to L19 Series (L10 to L19: unchanged installation and connection dimensions) =L1X

Further details in clear text

No code = NBR seals
V = FKM seals

Technical data

• Flow control valve

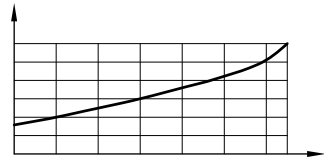
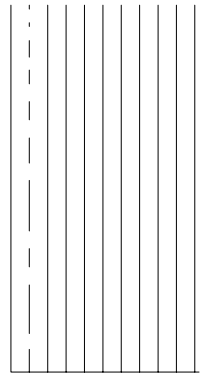
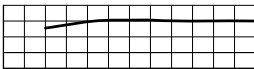
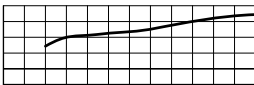
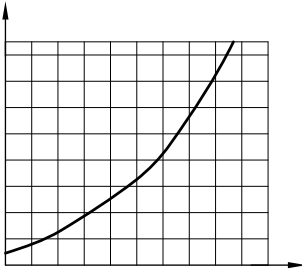
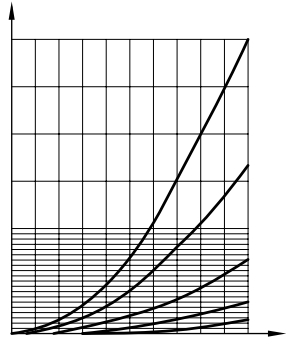
Max. operating pressure at port A		bar	315									
Pressure differential ΔP for free return flow B to A			See characteristic curves									
Minimum pressure differential		bar	6 to 14									
Pressure stability up to P= 315 bar		%	$\pm 2(Q_{max})$									
Flow -rate	Qmax	L/min	0.2	0.6	1.5	3	6	10	16	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

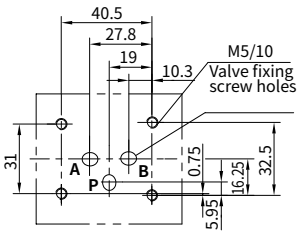
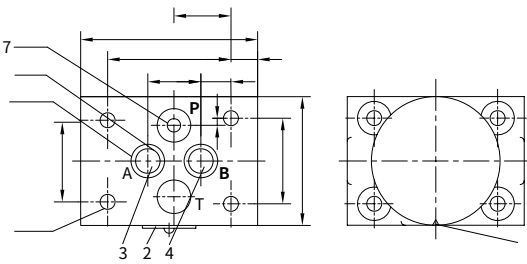
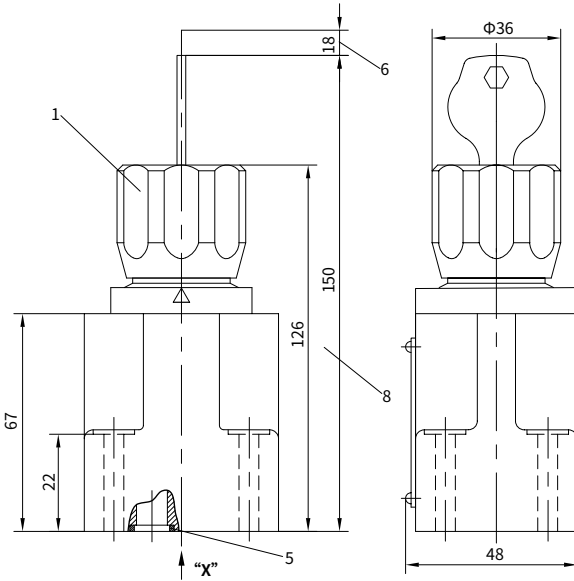
Characteristic curves (Measured at $t_{oil} = 40^{\circ}\text{C} \pm 5^{\circ}\text{C}$, using HLP46)

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

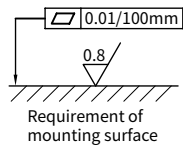


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04



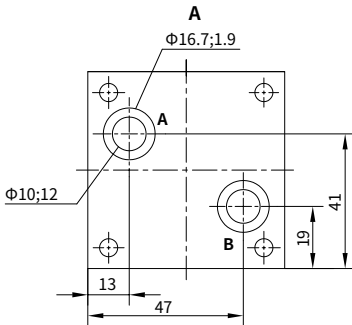
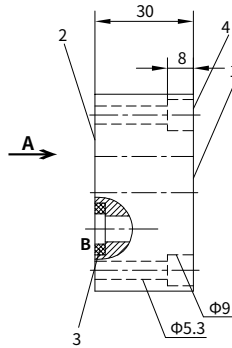
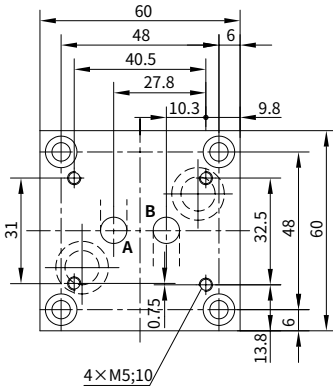
2FRM6 dimensions of mounting surface



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 $M_A = 6.1\text{Nm}$)

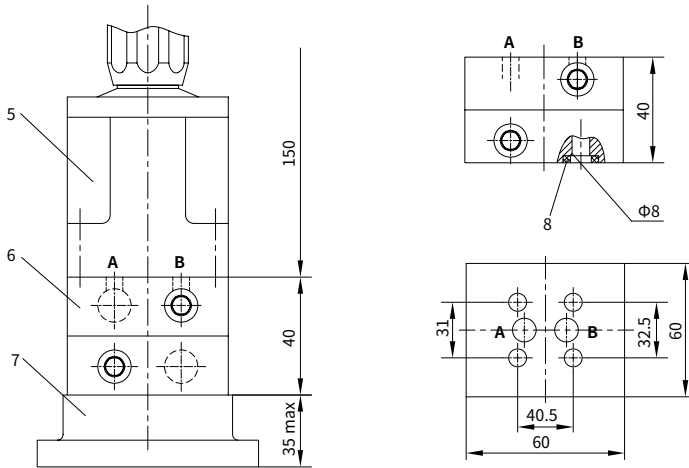
Note:

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/...

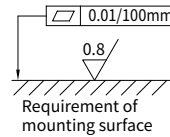
Unit dimensions

(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.