

4.4

Double throttle/ check valve

Type Z2FS6...L4X

Size 6 Up to 315 bar Up to 80 L/min



	Features
02	- Sandwich plate valve
03	- Porting pattern to DIN 24 340 form A
03	and ISO4401
04	- For limiting the main or pilot fluid flow of 2
04	actuator connections
05	- For meter-in or meter-out control
	03 03 04 04

Function and configuration

Valve type Z2FS 6 is a double throttle/check valve with sandwich plate structure.

It is used to control the flow by changing the throttling. In the opposite direction, fluid flows freely through the check valve.

For meter-in control fluid passes from port A1 to port A2 via the throttling point (1), which is made up of the valve seat (2) and the throttling spool (3). The throttling spool (3) is axially adjustable through the adjustment screw (4).

Fluid flows from A2 to A1, valve seat (2) is opened against spring (5) and valve acts as check valve. Depending on the installation position, the throttling effect may be arranged as a meter-in or a meter-out control.

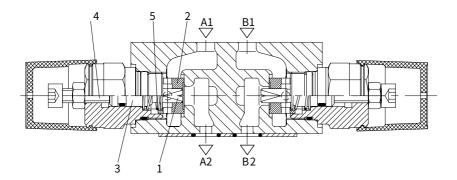
Standard version used for controlling main flow (Z2FS6.../2Q)

In order to change the velocity of an actuator (limiting of main flow), the double throttle/check valve is installed between the directional valve and the sub-plate.

Fine control version used for controlling pilot flow(Z2FS6.../1Q)

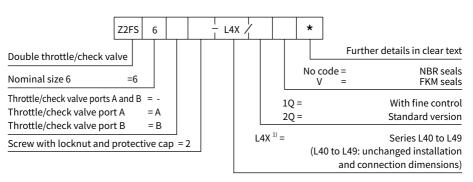
In order to limit the pilot flow, the double throttle/check valve is installed between the main valve and the pilot valve.

Type: Z2FS6-2-L4X/2Q



This installed position is for meter-in control

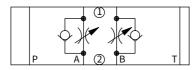
Ordering code



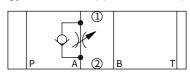
¹⁾ Length of series L4X double throttle/check valve which are made by our company is 6 mm longer than that of Rexroth valve. Please pay attention when you order.

Symbols (1) =valve side, 2) = sub-plate side)

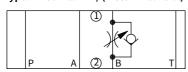
Type:Z2FS6-...-L4X/ (meter-in control)



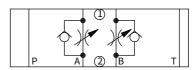
Type:Z2FS6A-...-L4X/ (meter-in control)



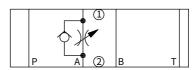
Type:Z2FS6B-...-L4X/ (meter-in control)



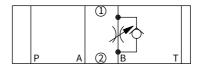
Type:Z2FS6-...-L4X/ (meter-out control)



Type:Z2FS6A-...-L4X/ (meter-out control)



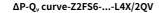
Type:Z2FS6B-...-L4X/ (meter-out control)

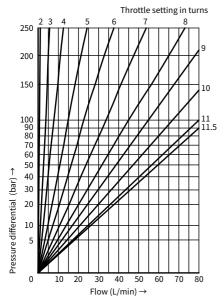


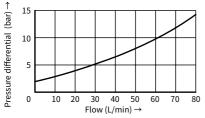
Technical data

Fluid		Mineral oil suitable for NBR and FKM seal
		Phosphate ester for FKM seal
Fluid temperature range	°C	-30 to +80 (NBR seal)
	C	-20 to +80 (FKM seal)
Viscosity range	mm²/s	10 to 800
Degree of contamination		Maximum permissible degree of fluid contamination: Class 9. NAS 1638 or 20/18/15, ISO4406
Max. working pressure	bar	315
Max. flow-rate	L/min	80
Weight	kg	Approx. 1.0

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

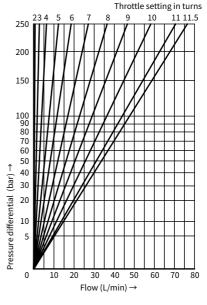






Through check valve (throttle closed)

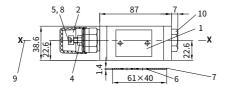
ΔP-Q_v curve-Z2FS6-...-L4X/1QV



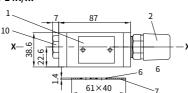
Unit dimensions

(Dimensions in mm)

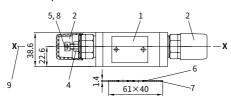
Type:Z2FS6A-...-L4X/ ...

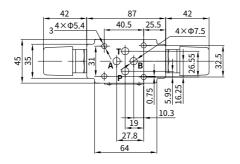


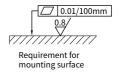
Type:Z2FS6B-...-L4X/...

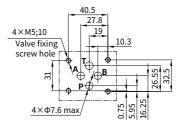


Type:Z2FS6-...-L4X/ ...









Dimensions of mounting surface

Valve fixing screws:

M5 according to GB/T 70.1-10.9, the length according to sandwich, Tightening torque $M_A = 8.9 \text{Nm}$, must be ordered separately.

- 1 Nameplate
- 2 Adjustment element "2"
- 3 Valve fixing holes
- 4 Lockable nut S=10
- 5 Internal hexagon screw S=5
- 6 O-rings 9.25 × 1.78 (Port A, B, P, T)
- 7 O-ring plate

- 8 For adjustment elements: turn anti-clockwise=increases flow turn clockwise=decreases flow
- 9 To change from meter-in to meter-out, rotate the unit around the 'X-X' axis
- 10 End cap S=22