

4.5

Double throttle/ check valve

Type Z2FS6...L4X

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

Unit dimensions



Contents	
Function and configurations	02
Ordering code	03
Symbols	03
Technical data	04
Characteristic curves	04

Features

- Sandwich plate valve
- Porting pattern to DIN 24 340 form A and ISO4401
- 3 adjustment elements:
- Screw with locknut and protective cap
- Two insert pressure relief valve
- Rotary knob with scale
- For limiting the main or pilot fluid flow of 2 actuator connections
- For meter-in or meter-out control

05

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.

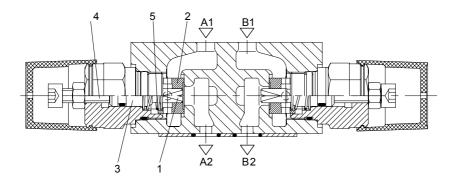
Standard version used for controlling main flow (Z2FS6.../2Q)

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)

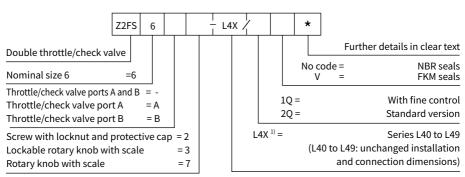
In order to limit the pilot flow, the double throttle/check valve is installed between the main valve and the pilot valve.

Type: Z2FS6-2-L4X/2Q



This installed position is for meter-in control

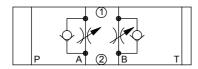
Ordering code



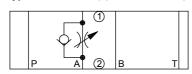
¹⁾ Length of series L4X double throttle/check valve which are made by our company is 6 mm longer than that of Rexroth valve. Please pay attention when you order.

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

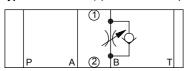
Type:Z2FS6-...-L4X/ (meter-in control)



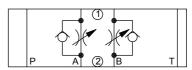
Type:Z2FS6A-...-L4X/ (meter-in control)



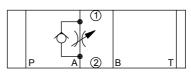
Type:Z2FS6B-...-L4X/ (meter-in control)



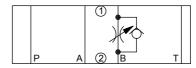
Type:Z2FS6-...-L4X/ (meter-out control)



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



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



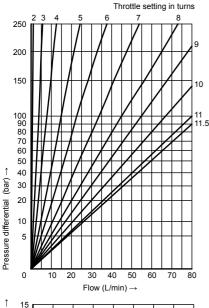
Technical data

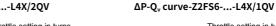
Fluid		Mineral oil suitable for NBR and FKM seal
		Phosphate ester for FKM seal
Fluid temperature range	°C	-30 to +80 (NBR seal)
	C	-20 to +80(FKM seal)
Viscosity range	mm²/s	10 to 800
Degree of contamination		Maximum permissible degree of fluid contamination: Class 9. NAS 1638 or 20/18/15, ISO4406
Max.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

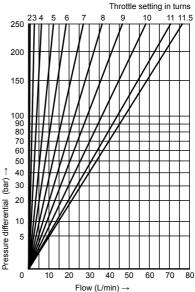
Characteristic curves

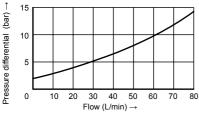
(Measured at ϑ_{oil} =40°C \pm 5°C, using HLP46)









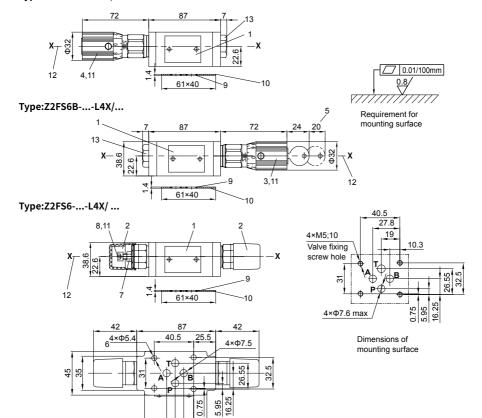


Through check valve (throttle closed)

Unit dimensions

(Dimensions in mm)

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



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

Valve fixing screws:

M5 internal hexagon screw or LT 30.02 double-screw bolt with LT 30.01 nut GB/T 70.1-10.9, the length according to sandwich, Tightening torque $M_A = 8.9 \text{Nm}$, must be ordered separately.

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

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19

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