



Z2FS...type Modular Restrictive Check Valve

Z2FS...30J...type

Sizes 6, 10, 16, 22
Max. Working Pressure: 315 bar
Max. Flow: 360 L/min



Contents

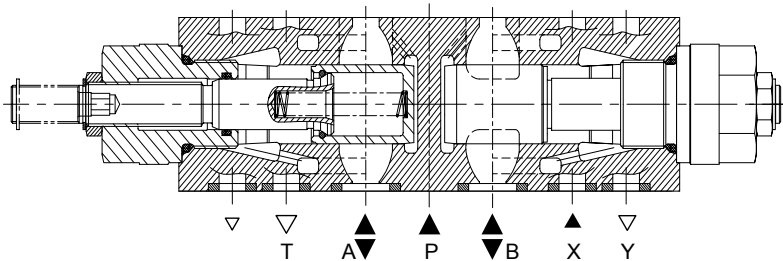
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Features

- Sandwich plate valve
- Porting pattern to DIN 24 340 form A and ISO4401
- For limiting the main or control fluid flow of 2 actuator connections
- 3 adjustment elements:
 - Lockable rotary knob with scale
 - Spindle with internal hexagon and scale
 - Rotary knob with scale
- For meter-in or meter-out control

Function and configuration

Z2FS type valve is a modular restrictive 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 Z2FS10, depending on the installation position, the throttling effect may be arranged as a meter-in or a meter-out control. While for Z2FS16 and 22, depending on the model (S or S2) throttling may take place in either meter-in or meter-out, and the two operating oil chambers are connected.

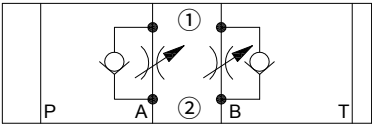


Structure chart of double throttle/Check Valve

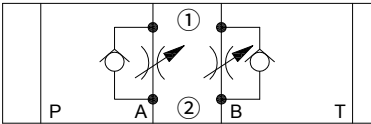
Symbols (① =valve side, ② = sub-plate side)

size:6

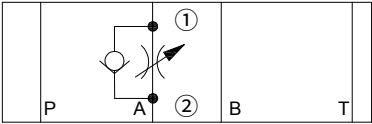
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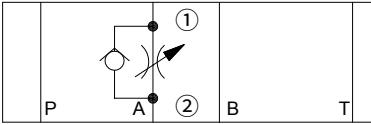
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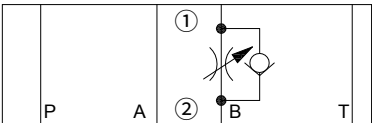
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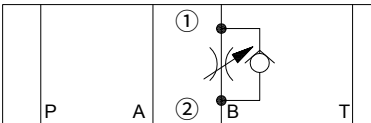
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Type:Z2FS6B-30J/ (meter-in control)



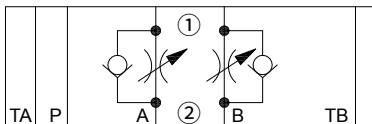
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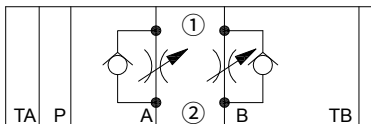
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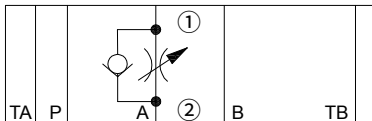
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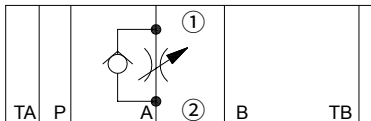
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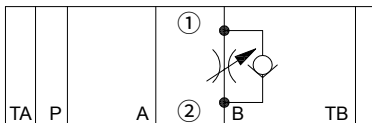
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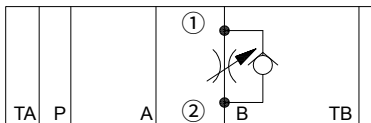
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Type:Z2FS10B-30J/ (meter-out control)

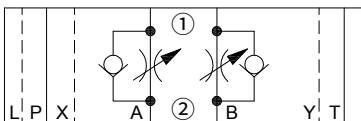


04

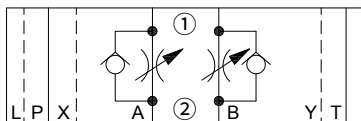
Symbols (① =valve side, ② = sub-plate side)

size:16, 22

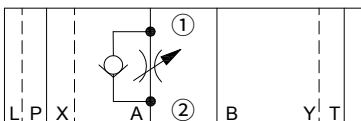
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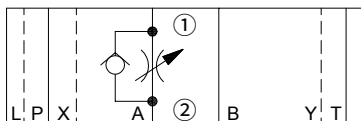
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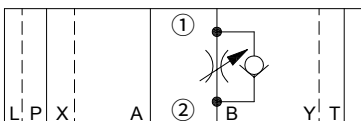
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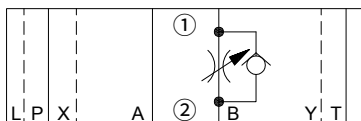
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Type:Z2FS...B-30J/ (meter-in control)



Type:Z2FS...B-30J/ (meter-out control)



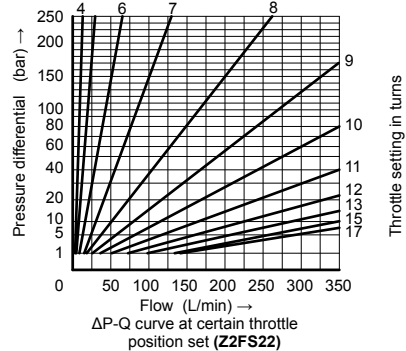
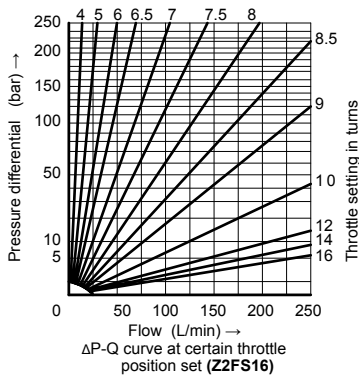
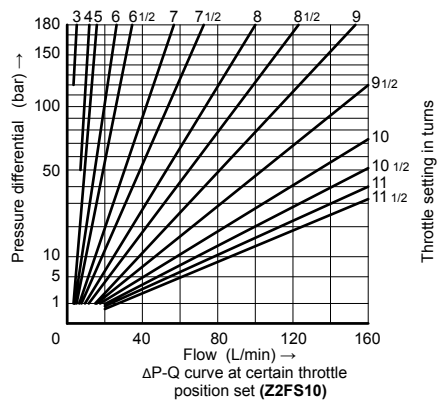
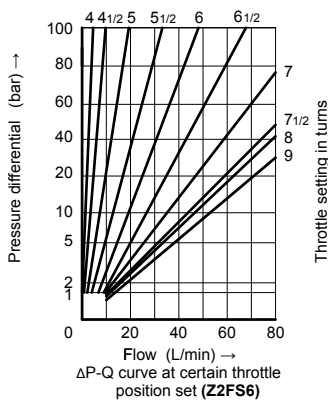
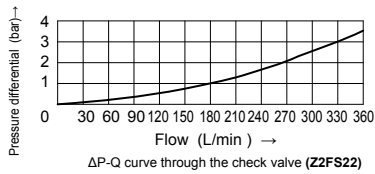
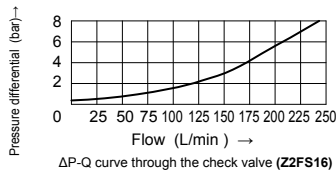
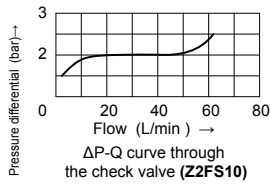
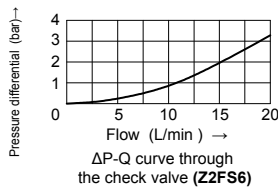
Specification

Z2FS			—30J		★	
Modular Restrictive check valve						Further details in clear text
Nominal size 6	=6				No code =	NBR seals
Nominal size 10	=10				V =	FKM seals
Nominal size 16	=16					
Nominal size 22	=22				No code=	Meter-in /meter-out control
Throttle/check valve ports A and B = -					S =	Meter-in contro
Throttle/check valve port A = A					S2 =	Meter-out control
Throttle/check valve port B = B						
30J Series			=30J			

Technical data

Installation position		Optional			
Flow direction		One direction throttle, return through the check valve by another direction			
Fluid		Mineral oil suitable for NBR and FKM seal, Phosphate ester for FKM seal			
Fluid temperature range		°C		-20 to +80	
Degree of contamination		Maximum permissible degree of fluid contamination: Class 9. NAS 1638 or 20/18/15, ISO4406			
Viscosity range		mm ² /s		10 to 800	
Max.operating pressure		ba r		to 350	
Nominal size		6	10	16	22
Weight		kg	0.9	3.1	4.7 8

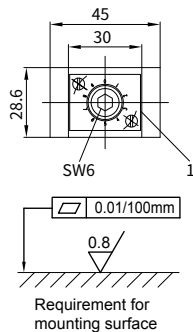
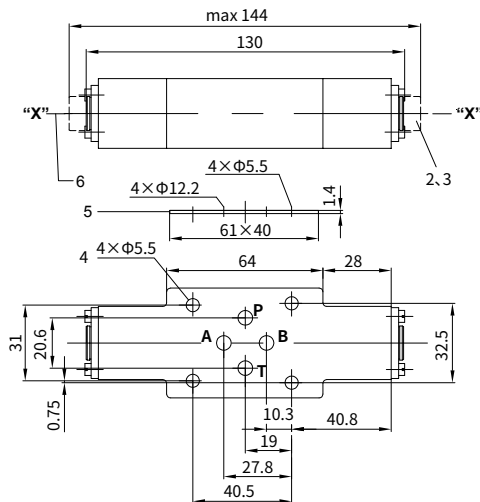
Characteristic curves (Measured at $t=40^{\circ}\text{C} \pm 5^{\circ}\text{C}$, using HLP46)



Unit dimensions:

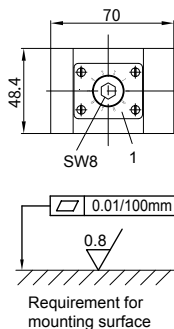
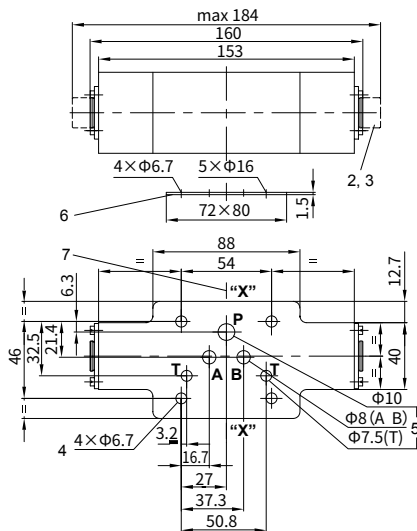
(Dimensions in mm)

• Outline dimension of Modular Restrictive Check Valve Type Z2FS6



- 1 Nameplate
- 2 Adjustable bolt
- 3 Turn anti-clockwise=increases flow,
turn clockwise=decreases flow
- 4 Valve fixing holes
- 5 O-ring plate
- 6 To change from meter-in to meter-out,
rotate the unit around the "X - X" axis

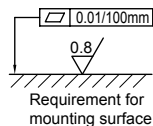
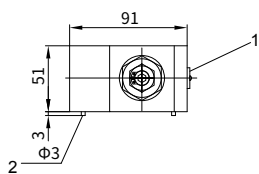
• Outline dimension of Modular Restrictive Check Valve Type Z2FS10



- 1 Nameplate
- 2 Adjustable bolt
- 3 Turn anti-clockwise = increases flow,
turn clockwise = decreases flow
- 4 Valve fixing holes
- 5 Port (A, B, P, T)
- 6 O-ring plate
- 7 To change from meter-in to meter-out,
rotate the unit around the "X - X" axis

(Dimensions in mm)

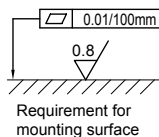
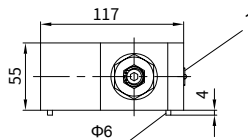
Technical drawing of a shaft assembly. The shaft has a total length of 294 mm, with a maximum length of 246 mm indicated for the main section. The shaft is labeled with 'A / F6' at the left end and 'A / F19' at the right end. A dimension of 4,5 is shown for the left end section. The shaft is shown with a central hole and a keyway.



- 1 Nameplate
- 2 Locating pins
- 3 Two locating pin holes
- 4 Adjustable bolt used for adjusting throttle area
- 5 Turn anti-clockwise = increases flow, turn clockwise = decreases flow
- 6 6 through holes for valve connection
- 7 O- ring 22×2.5 for ports A, B, P, T
- 8 O- ring 10×2 for ports X, Y, L

Technical drawing of the 1000 Series 1/2" (1000 Series 1/2") showing dimensions and part numbers. The drawing includes the following dimensions and labels:

- Overall length: max 320
- Length of main body: 268
- Length of mounting bracket: 188
- Mounting bracket part number: A/F6
- Mounting bracket part number: A/F22
- Mounting bracket part number: A/F32
- Mounting bracket part number: 2
- Mounting bracket part number: 4.5



- 1 Nameplate
- 2 locating pins
- 3 locating pin holes
- 4 Adjustable bolt used for adjusting throttle area
- 5 Turn anti-clockwise = increases flow, turn clockwise = decreases flow
- 6 holes for valve connection
- 7 O- ring 27×3 for ports A, B, P, T
- 8 O- ring 19×3 for ports X, Y, L