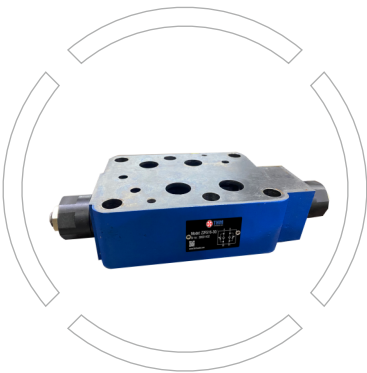


Z2FS

Double throttle/ Check valve
Size 16, 22
Max pressure up to 350 bar
Max. Flow up to 360 L/min



Index	Page No
• Features	01
• Function and Configuration	02
• Symbols	02
• Ordering code	03
• Technical data	04
• Characteristic curves	04
• Unit Dimensions	05

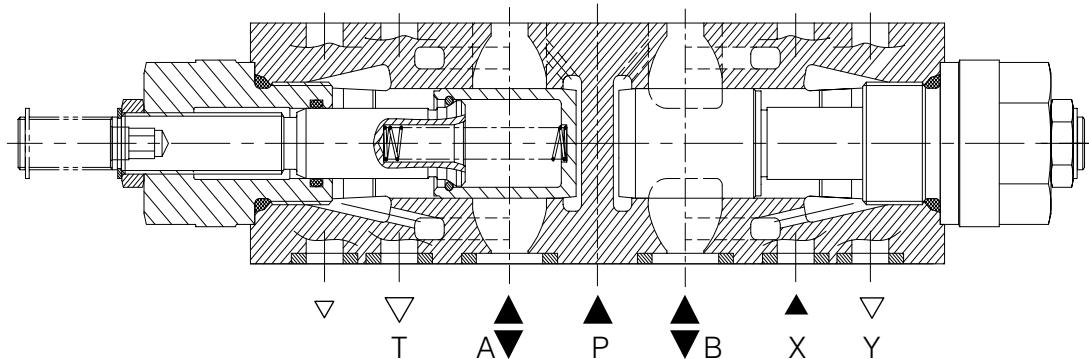
Features

- 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

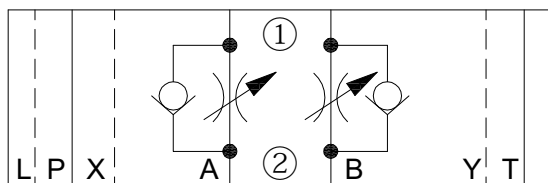
Valve type Z2FS is a double throttle/check valve with sandwich plate structure. It is used to control the flow by changing the throttling. In the opposite direction, fluid flows freely through the check valve. For Z2FS16 and 22, depending on the model (S or S2) throttling may take place in either meter-in or meter-out, and at the same time the two operating oil chambers are connected.



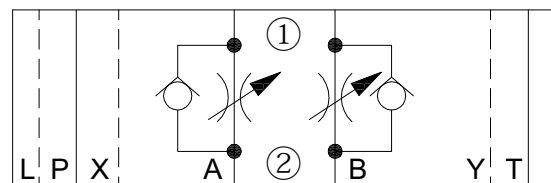
Structure chart of double throttle/Check Valve

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

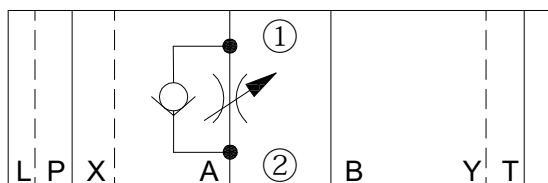
Type:Z2FS...-30/ (meter-in control)



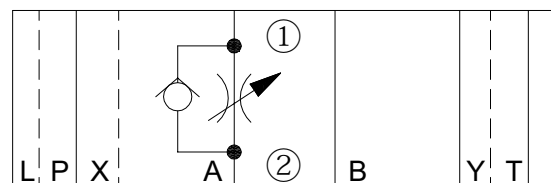
Type:Z2FS...-30/ (meter-out control)



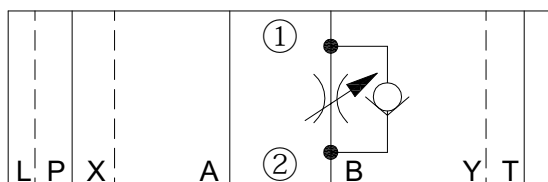
Type:Z2FS...A-30/ (meter-in control)



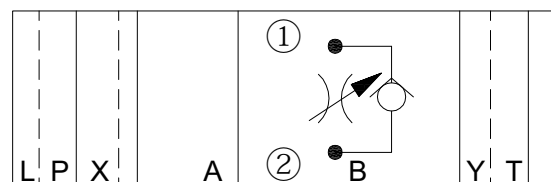
Type:Z2FS...A-30/ (meter-out control)



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



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





Ordering code

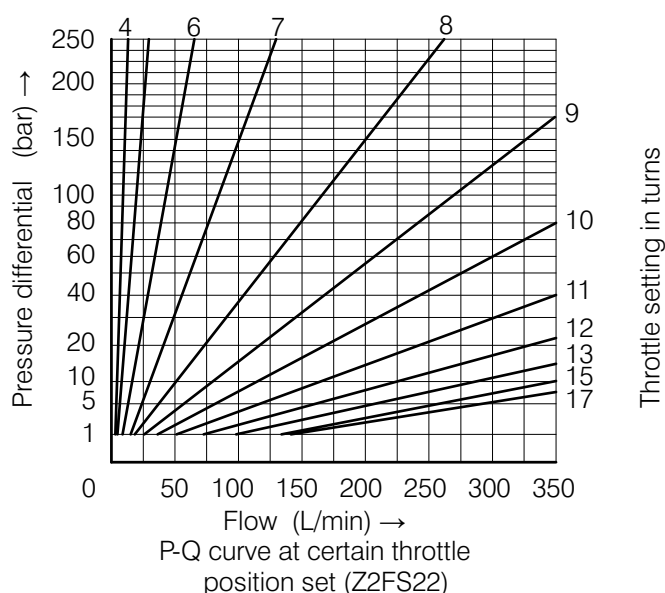
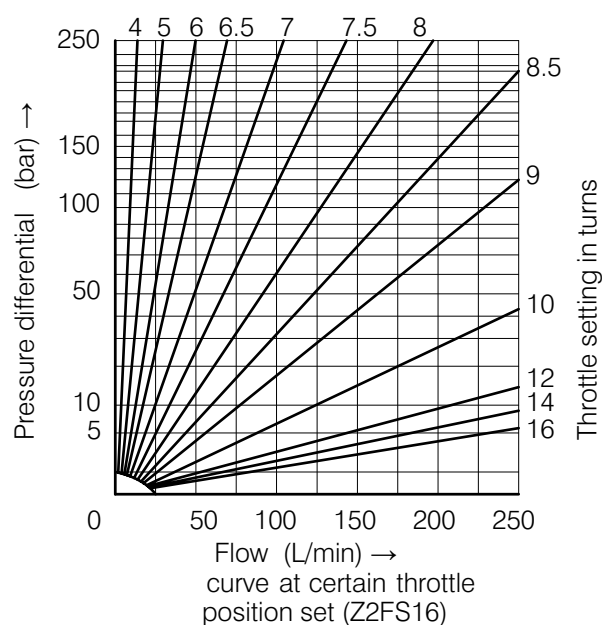
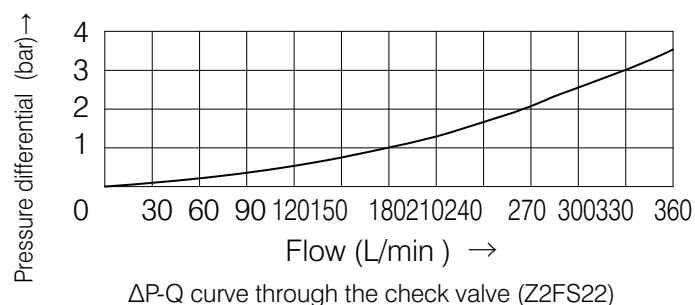
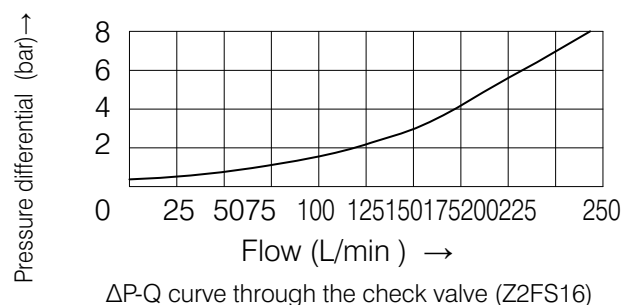
Z2FS				-	L5X	/	*
Double throttle/ Check valve							
Size 16		= 16					
Size 22		= 22					
Throttle/check valve ports A and B		= -					
Throttle/check valve port A		= A					
Throttle/check valve port B		= B					
L30 Series		= 30					
Meter-in /meter-out control		= No code					
Meter-in contro		= S					
Meter-out control		= S2					
NBR seals		= No code					
FKM seals		= V					
Further details in clear text							



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	mm²/s	10 to 800
Max.operating pressure	bar	to 350
Nominal sizes	16	22
Weight	Kg	4.7 8

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

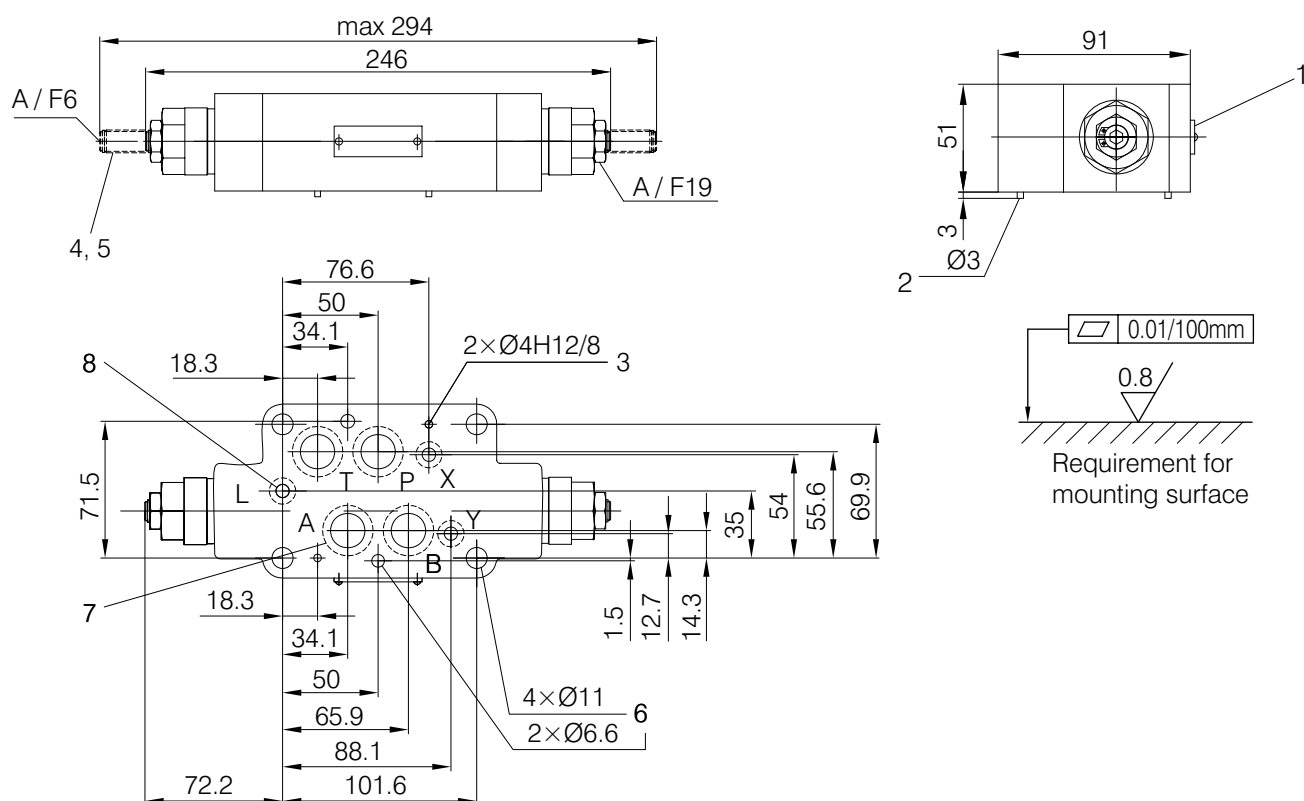




Unit Dimensions Size 16

(Dimensions in mm)

Outline dimension of double throttle/Check Valve Type Z2FS16



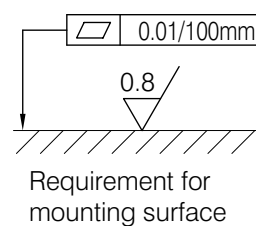
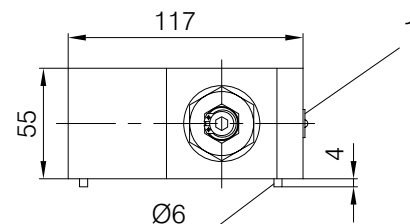
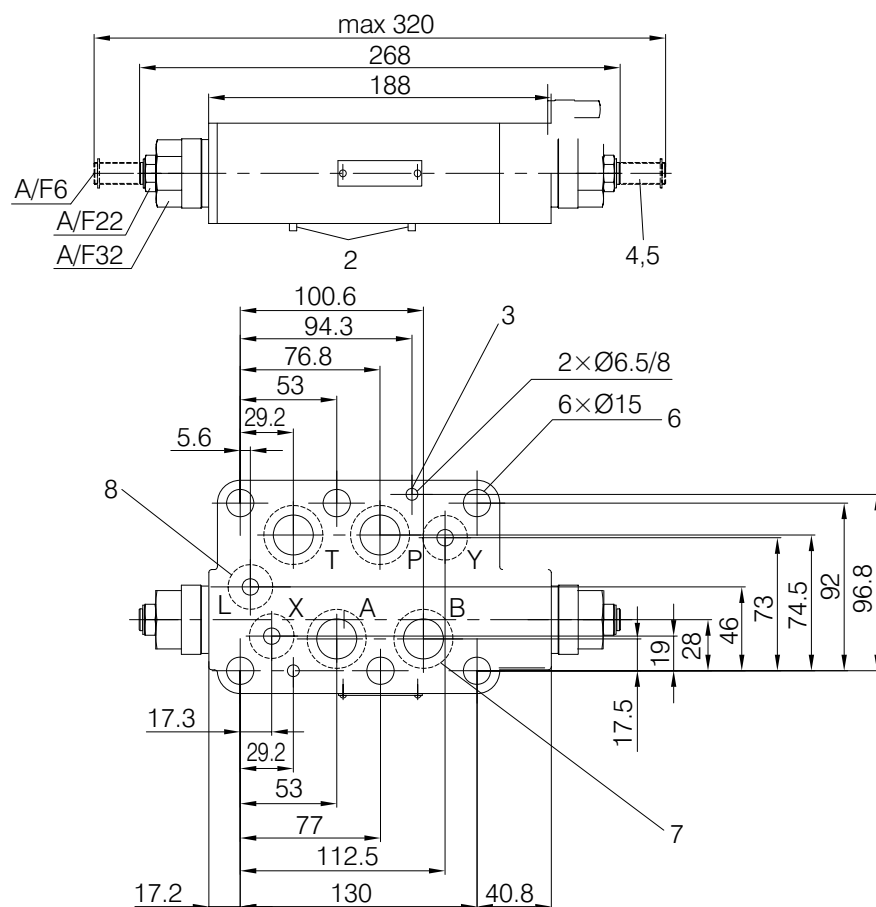
1. Nameplate
2. Locating pins
3. Two locating pin holes
4. Adjustable bolt used for adjusting throttle area
5. Turn anti-clockwise = increases flow, turn clockwise = decreases flow
6. 6 through holes for valve connection
7. O- ring 22×2.5 for ports A, B, P, T
8. O- ring 10×2 for ports X, Y, L



Unit Dimensions Size 22

(Dimensions in mm)

Outline dimension of double throttle/Check Valve Type Z2FS22



1. Nameplate
2. 2 locating pins
3. 2 locating pin holes
4. Adjustable bolt used for adjusting throttle area
5. Turn anti-clockwise = increases flow, turn clockwise = decreases flow
6. 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

