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Mobile

Hydraulics

RE 27 506/02.03

Industrial

Hydraulics

Replaces: 08.97 and 12.02

Double throttle/check valve Type Z2FS 6

Electric Drives

and Controls

Nominal size 6 Series 4X Maximum operating pressure 315 bar Maximum flow 80 L/min



Type Z2FS 6 –2–4X/...

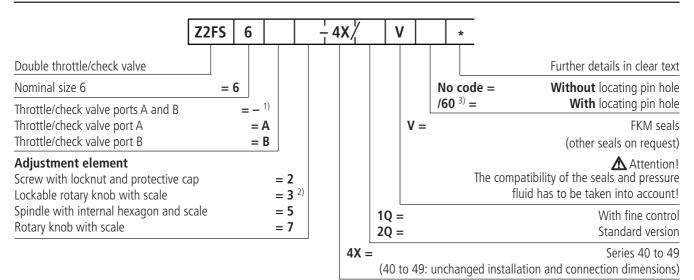
Overview of contents		Features
Contents Features	Page	 Sandwich plate valve Porting pattern to DIN 24 340 Form A, without locating pin
Ordering details	2	hole (standard)
Preferred types Symbols Function, section Technical data Characteristic curves Unit dimensions	2 2 3 3 4 5	 Porting pattern to ISO 4401 and CETOP-RP 121 H, with locating pin hole, (ordering detail/60 at the end of the valve type code) 4 adjustment elements: Screw with locknut and protective cap Lockable rotary knob with scale
		 Spindle with internal hexagon and scale Rotary knob with scale For limiting the main or pilot flow

of 2 actuator connections

- For meter-in or meter-out control



Ordering details



- ¹⁾ Has the same adjustment elements on ports A and B
- ²⁾ H-key with Material No. **R900008158** is included within the scope of supply
- ³⁾ Locating pin 3 x 8 DIN EN ISO 8752, Material No. **R900005694** (separate order)

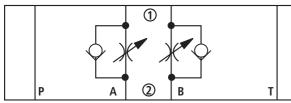
Preferred types (readily available)

Туре	Material No.	
Z2FS 6 A2-4X/1QV	R900581526	
Z2FS 6-A2-4X/2QV	R900439389	
Z2FS 6-B2-4X/1QV	R900438760	
Z2FS 6-B2-4X/2QV	R900440565	
Z2FS 6-2-4X/1QV	R900481623	
Z2FS 6-2-4X/2QV	R900481624	

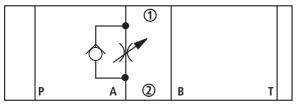
Preferred types and standard components are highlighted in the EPS (Standard Price List).

Symbols ((1) = component side, (2) = subplate side)

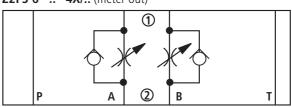
Z2FS 6 –.. –4X/.. (meter-in)



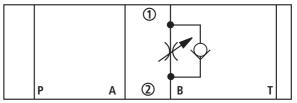
Z2FS 6 A.. -4X/.. (meter-out)



Z2FS 6 –.. –4X/.. (meter-out)



Z2FS 6 B ..-4X/.. (meter-in)



Function, section

Valves type Z2FS 6 are double throttle/check valves of sandwich plate design.

They are used to limit the main or pilot flow of one or two actuators.

Two symmetrically arranged throttle/check valves limit the flow in one direction and allow free-flow in the opposite direction.

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 via the adjustment screw (4), thus allowing the throttling point (1) to be adjusted.

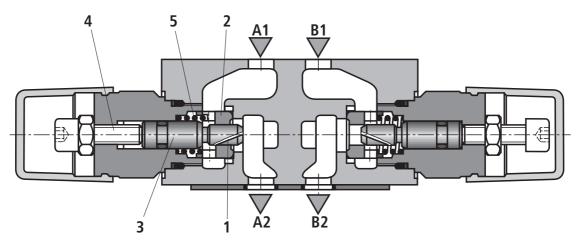
Flow flowing back from the actuator port A2 moves the valve seat (2) against spring (5) in the direction of the throttling spool (3), causing the valve to act as a check valve and allowing free-flow. Depending upon the way in which the valve is installed, the throttling effect can be arranged as a meter-in or meter-out control.

Limiting the main fluid flow (version ..2Q..)

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

Limiting the pilot fluid flow (version ..1Q..)

In pilot operated directional control valves, the double throttle/check valve is installed as a pilot choke adjustment (pilot fluid flow). It is fitted between the main valve and the pilot valve.

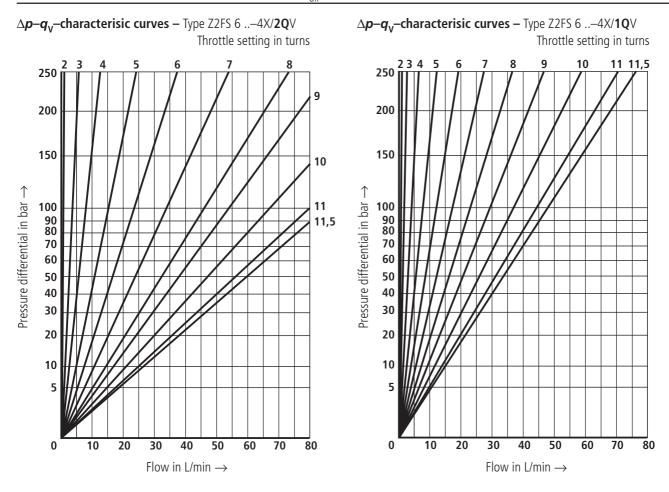


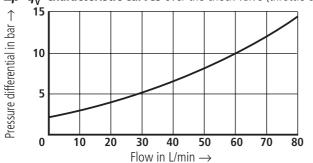
Type Z2FS 6 –2–4X/... (meter-in)

Technical data (for applications outside these parameters, please consult us!)

General		
Installation		Optional
Ambient temperature range	°C	- 20 to + 80
Weight	kg	Approx. 0.8
Hydraulic		
Maximum operating pressure	bar	315
Maximum flow	L/min	80
Pressure fluid		Mineral oil (HL, HLP) to DIN 51 524; Fast bio-degradable pressure fluids to VDMA 24 568 (also see RE 90 221); HETG (rape seed oil); HEPG (polyglycols); HEES (synthetic ester); Other pressure fluids on request
Pressure fluid temperature range	°C	- 20 to + 80
Viscosity range	mm²/s	10 to 800
Cleanliness class to ISO code		Maximum permissible degree of contamination of the pressure fluid is to ISO 4406 (C) class $20/18/15^{-1}$

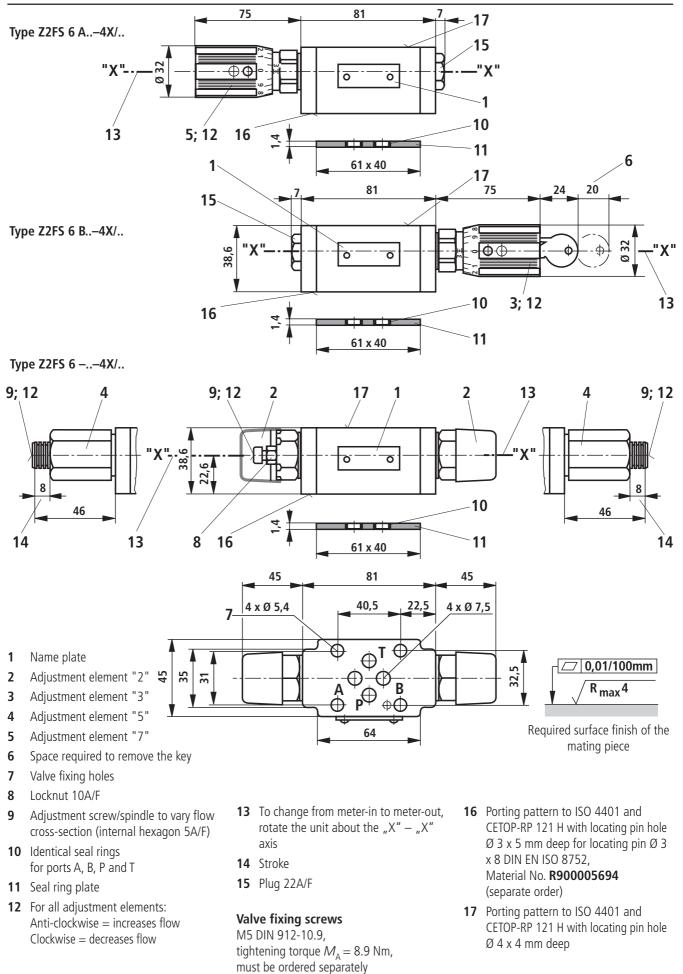
¹⁾ The cleanliness class stated for the components must be adhered too in hydraulic systems. Effective filtration prevents faults from occurring and at the same time increases the component service life. For the selection of filters see catalogue sheets RE 50 070, RE 50 076 and RE 50 081.





 $\Delta \pmb{p} - \pmb{q}_{V} - \textbf{characteristic curves}$ over the check valve (throttle closed)

Unit dimensions (dimensions in mm)



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