BEIJING HUADE HYDRAULIC INDUSTRIAL GROUP CO.,LTD.

Double throttle/check valve, Type Z2FS 10 Series 20

up to 31.5MPa

up to 160L/min

Replaces:

RE:27510/12.2004

RE27510/5.2001

Features:

- Sandwich plate design
- Porting pattern to DIN 24 340, from A,ISO 4401
 and CETOP-RP 121H

Size 10

- Limiting of main or pilot flow of two service ports,
- Meter-in or meter-out control.



Functional, section

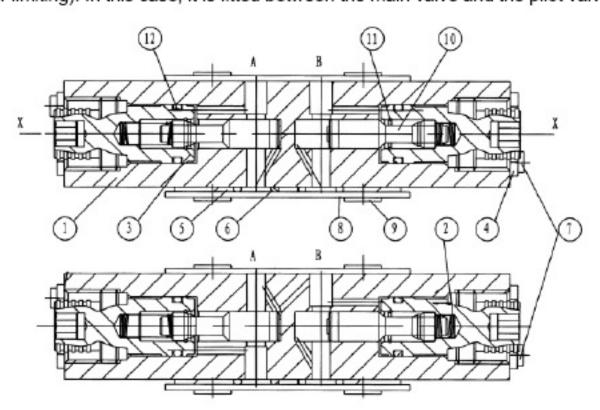
Valves type Z 2 FS10...20B/... are double throttle/check valves in sandwich plate design. They are used to limit main or pilot oil flow at one or two service ports. Two symmetrically arranged throttle/check valves limit flow (by means of adjustable throttle spools) in one direction and permit free return flow in the other direction.

Main flow limiting

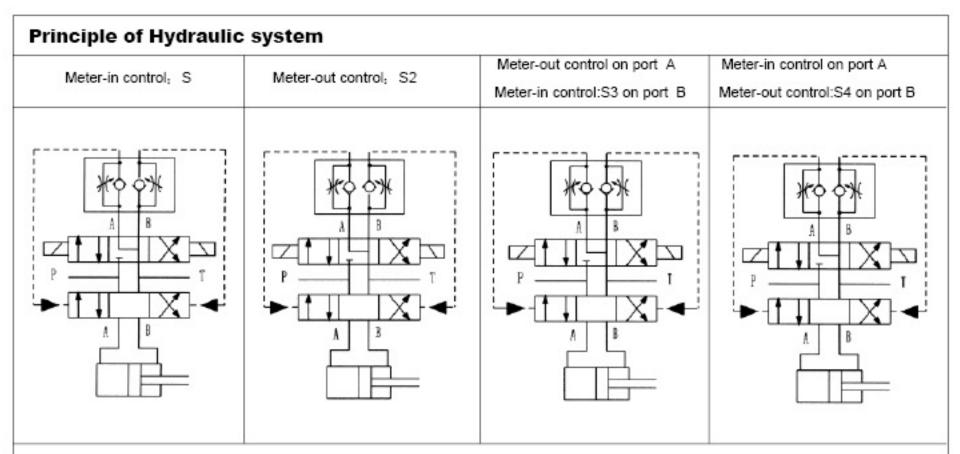
The double throttle/check valve is fitted between the directional valve and the subplate to change the speed of an actuator (main flow limiting).

Pilot flow limiting

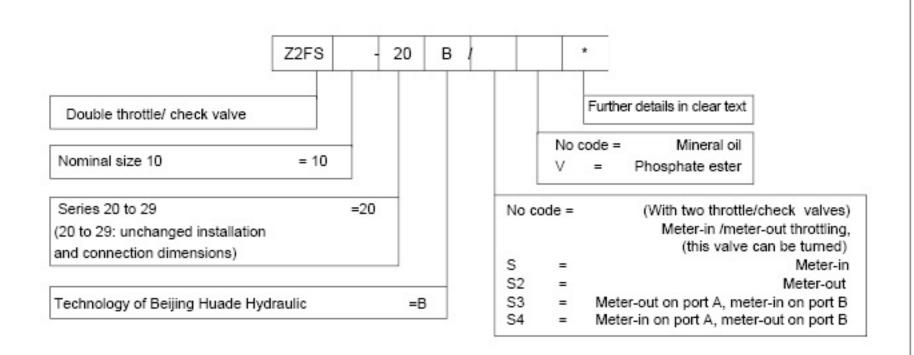
In the case of pilot operated directional valves, the double throttle/check valve may be used as a pilot choke adjustment (pilot flow limiting). In this case, it is fitted between the main valve and the pilot valve.



Meter-in control, S	Meter-out control, S2	A Meter-out control B Meter-in control:S3	A Meter-in control B Meter-out control:S4
A B T	A B T	A B T	A B



Ordering details



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

Size		10	
Maximum flow	(L/min)	160	
Maximum working pressure (MPa)		31.5	
Pressure fluid		Mineral oil(for NBR seal) or Phosphate ester (for FPM seal	
Viscosity range	(mm²/s)	10 to 800	
Fluid temperature range	(°C)	-30 to +80	

Characteristic curves (measured at v = 41 mm²/s and t = 50°C)

D - q_v -characteristic curve across check valve (throttle closed)

0.3

0.2

0.2

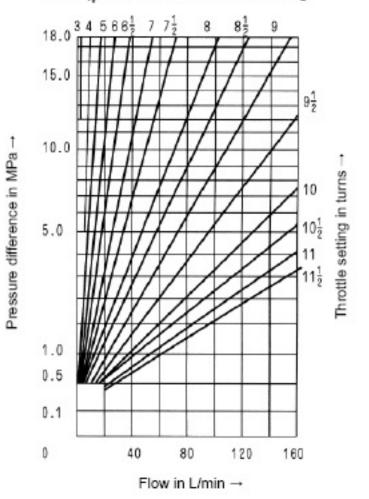
40

60

80

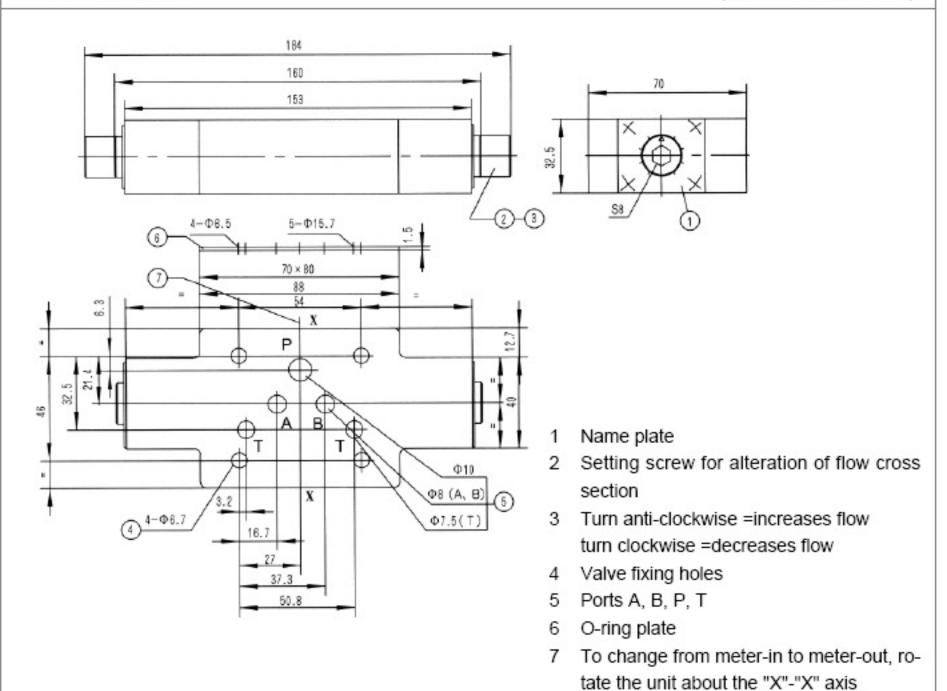
Flow in L/min →

Pressure difference \triangle p in relation to the flow q_{ν} at constant throttle setting



Unit dimensions

(Dimensions in mm)



Notice The fluid must be filtered. Minimum filter fineness is 20 μm. 2. The tank must be sealing up and an air filter must be installed on air entrance. 3. Products without subplate when leaving factory, if need them, please ordering specially. 4. Valve fixing screws must be high intensity level (class 10.9). Please select and use them according to the parameter listed in the sample book. 5. Roughness of surface linked with the valve is required to 6. Surface finish of mating piece is required to 0.01/100mm.