BEIJING HUADE HYDRAULIC INDUSTRIAL GROUP CO.,LTD.	Doub T	RE:27505/12.2004		
	Sizes 6、16、22	up to 31.5MPa	up to 350 L/min	Replaces: RE27505/5.2001
Features: - Sandwich plate design - Porting pattern to DIN 2 and CETOP-RP 121H		4401		

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



# **Functional**, Section

Valves type Z 2 FS 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.



Double throttle/check valve, Type Z2FS6

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

# Principle of Hydraulic systems



2.3			0.0	122200	
Size		6	16	22	
Maximum flow	(L/min)	80	250	350	
Maximum working pressur	e (MPa)	31.5	35		
Pressure fluid		Mineral oil (for NBR seal) or Phosphate ester (for FPM sea			
Viscosity range	(mm <sup>2</sup> /s)	10 to 800			
Fluid temperature range	(°C)	-30 to +80			





#### Unit dimensions (Dimensions in mm) Type Z2FS16: approx. max 294 91 approx. max 246 56.5 ⊕ 16.6 φ3 \$ 4H12 18. 8 71.5 6 69 33 72.2 34 2 14.3 2 50 65.9 φ11 1 88.1 Φ6.6 101.6 6Type Z2FS22 approx. max 320 117 approx. max 268 188 D 112.5 $\Phi 6$ -11 94.3 3 T6. \$ 2-\$6.5/8 -(4) 53 19 $^{\odot}$ J Y 1 Name plate 2 Setting screw for alteration of flow cross section łł 3 Turn anti-clockwise = increases flow T 17.2 turn clockwise = decreases flow $6 - \Phi 15$ 4 2 two locating pins 100.6 6 40.8 130 5 2 two locating pins holes 6 6 Valve fixing holes 7 O-ring for ports A, B, P, T

8 O-ring for ports X, Y, L

# Notice

- 1. The fluid must be filtered. Minimum filter fineness is 20  $\mu\text{m}.$
- 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.
- 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  $\frac{0.8}{\checkmark}$ .
- 6. Surface finish of mating piece is required to 0.01/100mm.