Modular Pressure Reducing Valve

Model: ZDR6DP0-4X

- Size 6
- Maximum working pressure 40 bar
- Maximum working flow 7L/min

Contents

Features

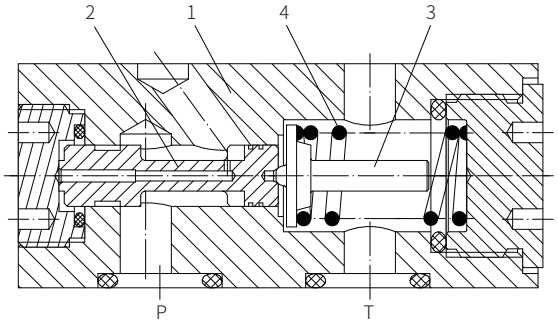
- Sandwich plate connection

Function description, sectional drawing

The ZDR6DP0...4XJ/40YM type reducing valve is modular direct-operated pressure reducing valve, it is used to reduce the system pressure. The valve is composed of valve body (1), valve spool (2), spring seat (3) and pressure spring (4).

At rest, the valve is normally open and the oil can freely flow from port P1 to port P2. The pressure in port P2 acts on the piston area opposite to the pressure spring. If the pressure in port P2 continues to increase due to external force, the valve spool is moved still towards the pressure spring (4), then the oil at port P2 is connected to the oil tank through the shoulder on the control piston (2).

The sufficient oil flows back to the tank to prevent further pressure increase. The oil in the spring chamber is drained to the oil tank through the port T.



Model ZDR6DP0...4XJ/40YM

Models and specifications

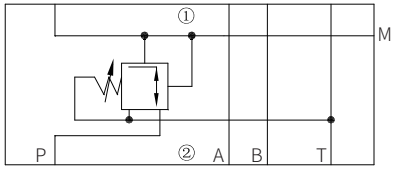
Z	DR	6	D	P	0	-	4X	/	40	Y	M		*

- sandwich plate connection =Z
- reduce valve =DR
- size 6 =6
- direct operated =D
- pressure reducing at P1 =P
- outlet pressure fixed =0
- 40 to 49 series (40 to 49 series: installation and connection size unchanged) =4X
- 40= secondary pressure 40 bar
- Y= pilot oil supply internal drain external
- M= without check valve
- sealing material: No code= NBR seals; V= FKM seals (consult for other seals)
- more information in text

Functional symbols

(①= Valve side, ②= Subplate side)

Model ZDR6DP0...-4XJ/...YM...



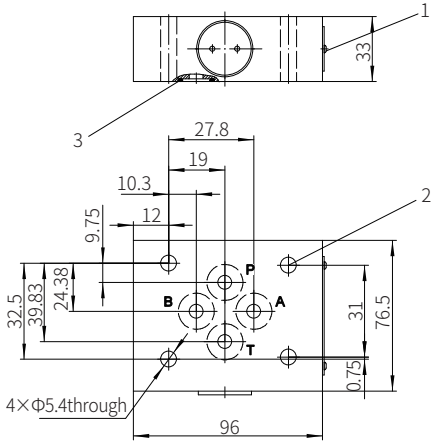
Technical parameters

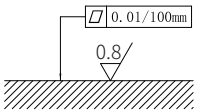
Medium		Mineral hydraulic oil or phosphate hydraulic oil
Working medium temperature range	°C	-30 to +80(NBR seal) -20 to +80 (FKM seal)
Viscosity range	mm^2/s	10 to 800
Cleanliness of oil		The maximum allowable pollution level of oil is ISO4406 Class 20/18/15
Inlet pressure (outlet)	bar	to 300
Secondary pressure (outlet)	bar	to 40
Back pressure(port Y)	bar	to 160
Maximum working flow	L/min	7

Component size

Unit size: mm

Model ZDR6DP0...4XJ/40YM





Required surface finishing of mating components

1 Name plate
2 Valve fixing hole
3 O ring 9.25x1.78
(for oil port P, T, A, B)