

Modular Pressure Reducing Valve

Model: ZDR10D...5X



- ◆ Size 10
- ◆ Maximum working pressure 210 bar
- ◆ Maximum working flow 80 L/min

Contents

Function description, sectional drawing	02
Models and specifications	03
Functional symbols	03
Technical parameters	04
Characteristic curve	04
Component size	05

Features

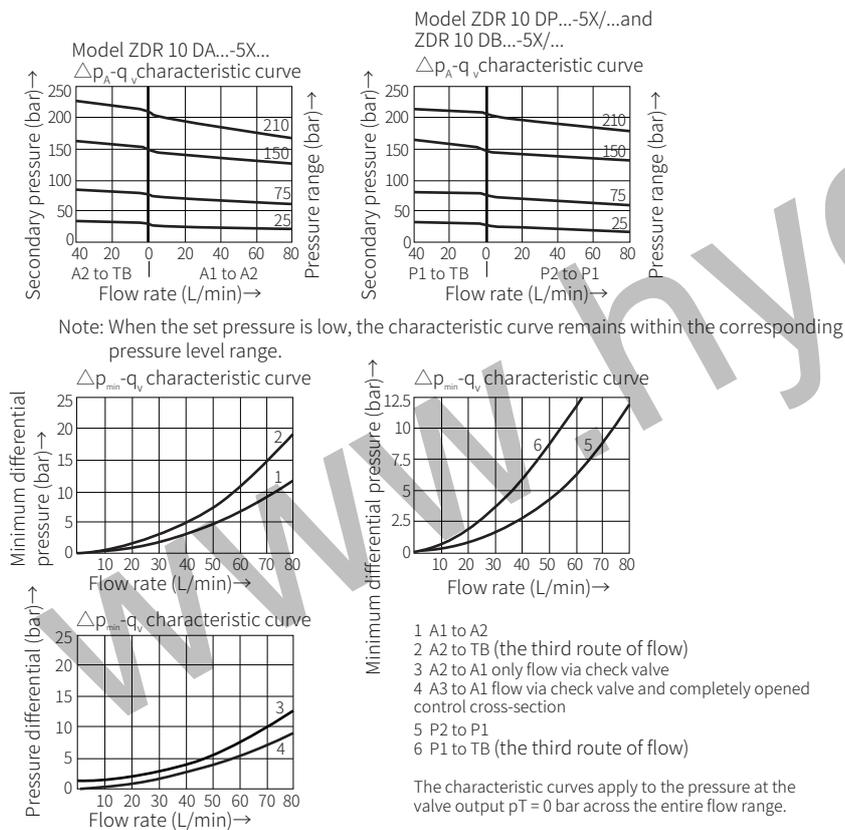
- Sandwich plate valve
- 2 kinds of adjusting elements:
 - Rotary knob
 - Hexagon screw with sleeve and protective cap
- Pressure reducing in port A, B or P
- Check valve, optional
- 4 pressure ratings

Technical parameters

Weight	Kg	about 2.8
Medium		Mineral hydraulic oil or phosphate hydraulic oil
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
Maximum working pressure (inlet)	bar	315
Secondary pressure (outlet)	bar	to 25, to 75, to 150, to 210
Oil port back pressure T(Y)	bar	to 160
Maximum flow	L/min	80

Characteristic curve

(Measured when using HLP46, $\vartheta_{oil} = 40^{\circ}C \pm 5^{\circ}C$)



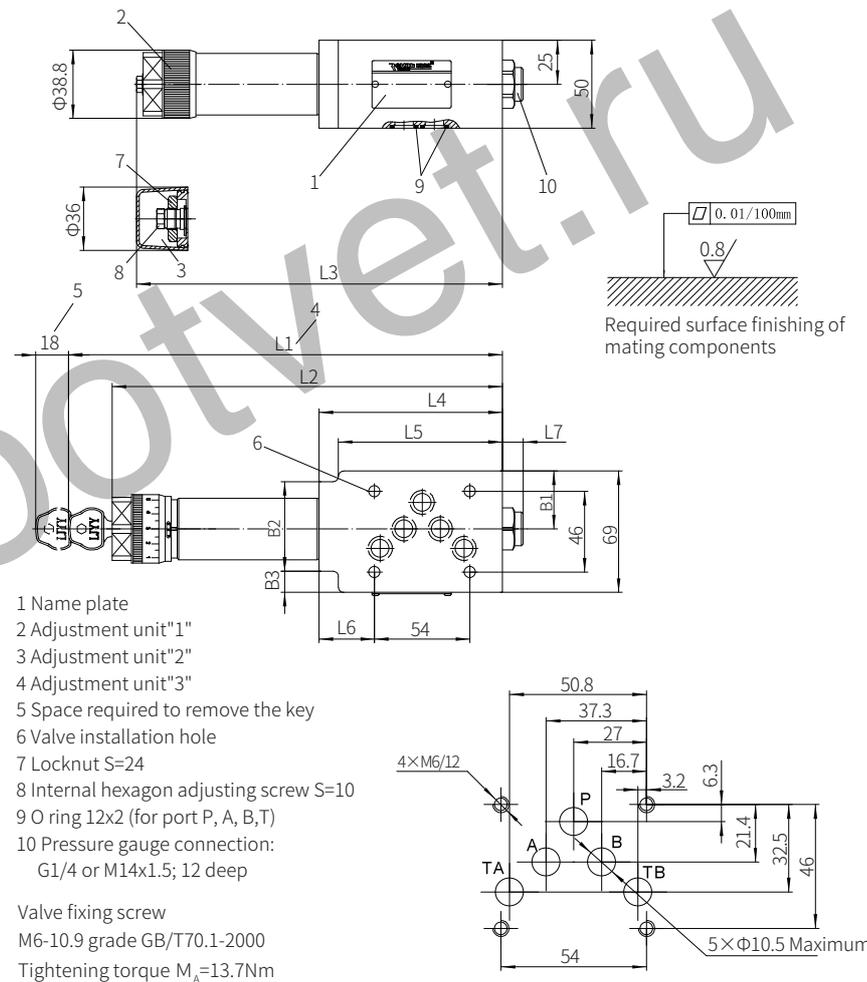
- 1 A1 to A2
- 2 A2 to TB (the third route of flow)
- 3 A2 to A1 only flow via check valve
- 4 A3 to A1 flow via check valve and completely opened control cross-section
- 5 P2 to P1
- 6 P1 to TB (the third route of flow)

The characteristic curves apply to the pressure at the valve output $p_T = 0$ bar across the entire flow range.

Component size

Size unit: mm

Model ZDR10...-5XJ/...



- 1 Name plate
 - 2 Adjustment unit "1"
 - 3 Adjustment unit "2"
 - 4 Adjustment unit "3"
 - 5 Space required to remove the key
 - 6 Valve installation hole
 - 7 Locknut S=24
 - 8 Internal hexagon adjusting screw S=10
 - 9 O ring 12x2 (for port P, A, B, T)
 - 10 Pressure gauge connection: G1/4 or M14x1.5; 12 deep
- Valve fixing screw
M6-10.9 grade GB/T70.1-2000
Tightening torque $M_A = 13.7Nm$

Version	L1	L2	L3	L4	L5	L6	L7	B1	B2	B3
"DA"	254	230	210	104	93	31.5	4	32.9	51	12
"DB" and "DP"	242	218	198	91	-	18.5	15	35	-	-