

Pilot Operated Pressure Reducing Valve

Model: DR10K...-3X



ГИДРООТВЕТ

доступная гидравлика

- ◆ Size 10
- ◆ Maximum working pressure 315 bar
- ◆ Maximum working flow 100 L/min

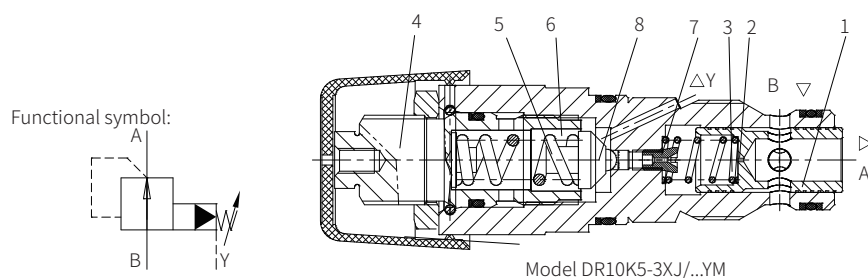
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Features

- Cartridge construction
- 4 pressure ratings
- 4 adjusting elements
- Rotary knob
- Adjusting screw with protective cap
- Lockable rotary knob with scale
- Rotary knob with scale

If the pressure at port A exceeds the setting value of the spring (5), the pilot poppet (8) opens. The hydraulic oil flows from spring chamber (3) to working port Y through orifice (7), pilot poppet (8) and spring chamber (6). The main spool (1) moves to the control position and keeps the pressure value set on spring (5) constant in port A. The pilot oil is always drained externally from the spring chamber (6) through port Y. Note: The value in port Y must be increased to the setting pressure value.



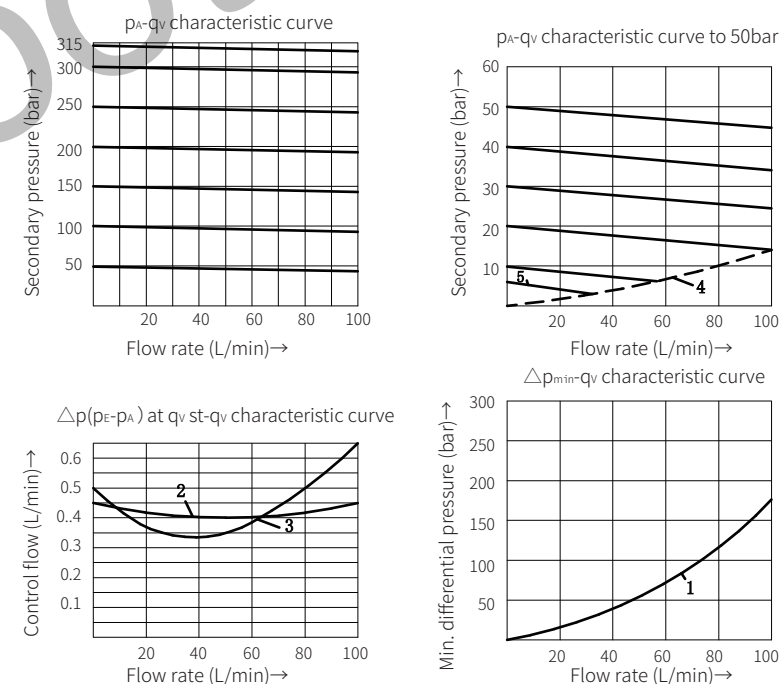
Models and specifications

	DR	10	K	3X	Y	M	*	
pilot operated pressure reducing valve	=DR							more information in text
size 10	=10							No code= NBR seals V= FKM seals
cartridge type	=K					M=		without check valve
rotary knob	=4					Y=		pilot oil supply internal drain external
adjusting screw with protective cap	=5							
lockable rotary knob with scale	=6							
rotary knob with scale	=7							
30 to 39 series	=3X					5=		pressure up to 50 bar
(30 to 39 series installation and connection size unchanged)						10=		pressure up to 100 bar
						20=		pressure up to 200 bar
						31.5=		pressure up to 315 bar

Technical parameters

Working medium	Mineral oil - for NBR seals and FKM seals	
	Phosphate - for FKM seals	
Working medium temperature range °C	-30 to +80 (NBR seal)	
	-20 to +80 (FKM seal)	
Viscosity range	mm²/s	10 to 800
Cleanliness of oil	The maximum allowable pollution level of oil is ISO4406 Class 20/18/15	
Maximum working pressure	bar	315
Maximum adjusting pressure	bar	50; 100; 200; 315
Maximum flow	L/min	to 100
Weight	kg	about 0.2

Characteristic curve

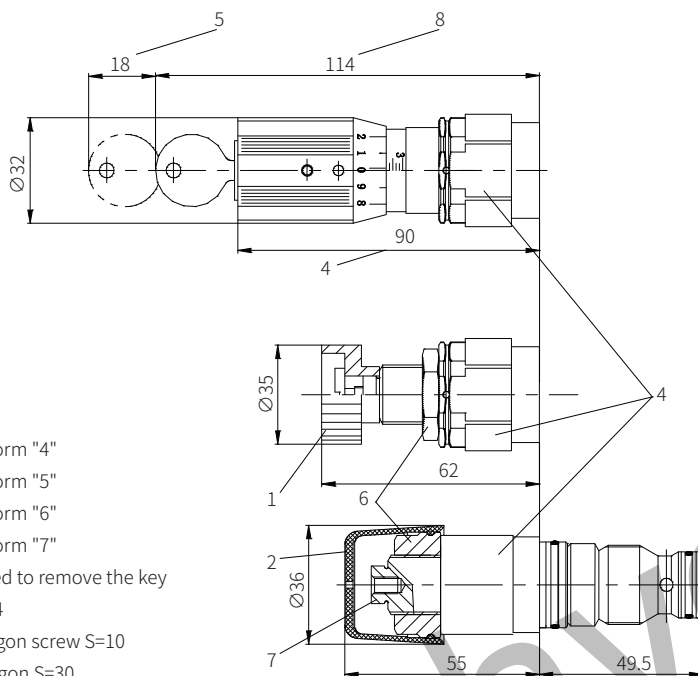


1 B to A 2 $\Delta p = 50$ bar 3 $\Delta p = 250$ bar

4 Actuator resistance depends on the system

5 Lowest settable secondary pressure p_A for all pressure ratings

Model DR10K...-3XJ/...



- 1 Adjustment form "4"
- 2 Adjustment form "5"
- 3 Adjustment form "6"
- 4 Adjustment form "7"
- 5 Space required to remove the key
- 6 Lock nut S=24
- 7 Internal hexagon screw S=10
- 8 External hexagon S=30
- Tightening torque $M_A = 50 \text{ Nm}$
- 9 Port "Y" arranged around circumference as required
- 10 Port "B" arranged around circumference as required

