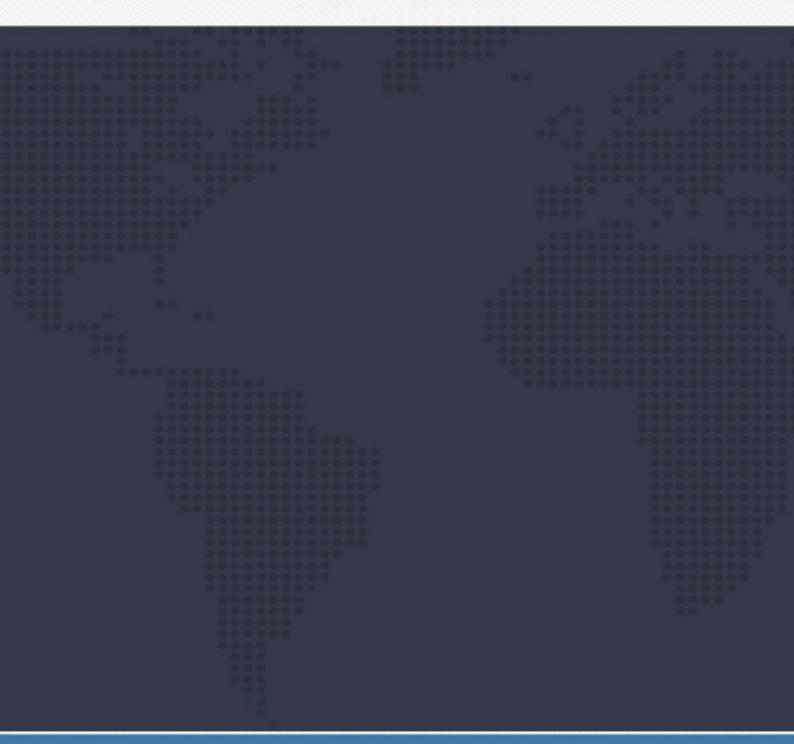


Catálogo de Produtos



Pressure reducing valve, direct operated, type DR 10 DP

BEIJING HUADE HYDRAULIC INDUSTRIAL	Pressure reducing valve, direct operated, type DR 10 DP			RE 26897/12.2004
GROUP CO.,LTD.	Size 10	up to 21MPa	up to 80L/min	Replaces: RE26897/05.2001
 Features: For subplate mount 4 pressure ranges 4 setting elements: Rotary knob Hex. head sleeve Lockable rotary knob Rotary knob with With pressure gaug Optional non return Porting pattern to E CETOP-RP 121H 	with protective cap nob with scale scale e port valve			

Functional, section

The valve type DR 10 DP is a direct operated valve of 3 way design, with a pressure relief function on the reduced pressure side.

Т

Pressure setting is by means of the pressure setting element (1).

At rest, the valve is normally open, and fluid can flow unhindered from port B to port A. Pressure in port A is also present on the end of the spool (2), via control line (4), opposing the compression spring (3). When the pressure in port A reaches the pressure level set at spring (3), spool (2) moves to the control position and holds the pressure in port A constant.

Fluid to control the valve is taken from port A via control drilling

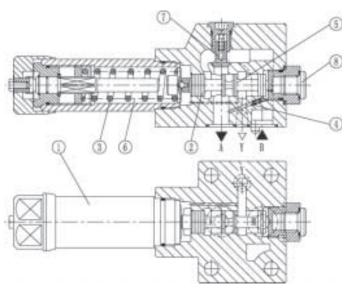
If the pressure in port A rises still further due external forces, the spool (2) is moved still further towards the compression spring (3).

This causes a flow path to be opened over control land (5) in the control spool (2) to tank (port Y). Sufficient fluid then flows to tank to prevent any further rise in pressure.

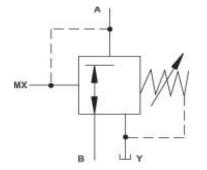
The spring chamber (6) is drained to tank externally via port Y.

An optional non return valve (7) is available to allow free flow from port A to port B.

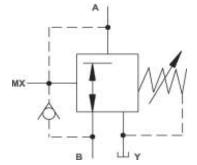
A pressure gauge connection (8), permits the secondary pressure to be monitored.

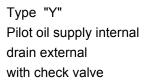


DR 10 DP 1-40B/...Y...

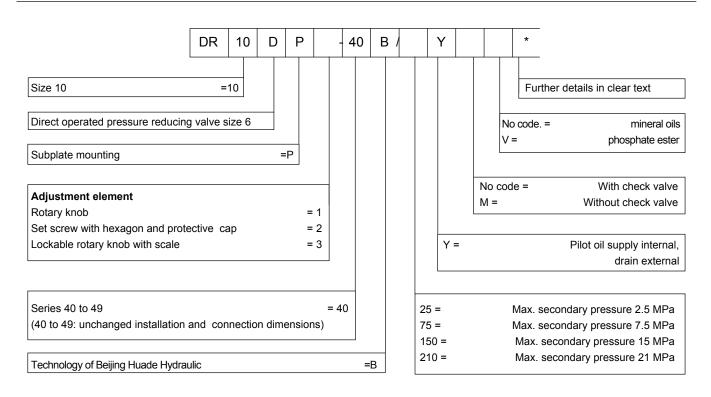


Type "YM" Pilot oil supply internal drain external without check valve





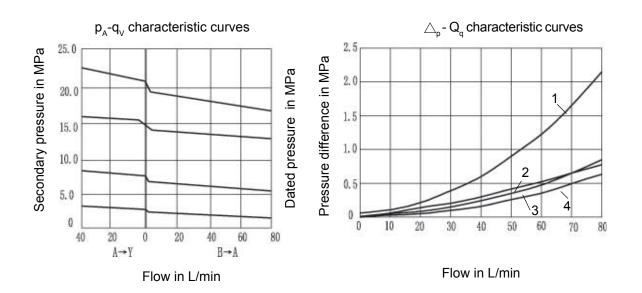
Ordering details



Technical data

(MPa)	up to 31.5	
(MPa)	up to 2.5、up to 7.5、up to 15.0、up to 21.0、up to 31.5	
(MPa)	up to 16.0	
(L/min)	up to 80	
	Mineral oil (for NBR seal)or phosphate ester(for FPM seal)	
(mm²/s)	10~800	
(°C)	-30 to +80	
(µm)	Maximum permissible degree of contamination of the fluid is to	
	NAS 1638 class 9.	
(Kg)	approx. 3	
	(MPa) (MPa) (L/min) (mm²/s) (°C) (μm)	

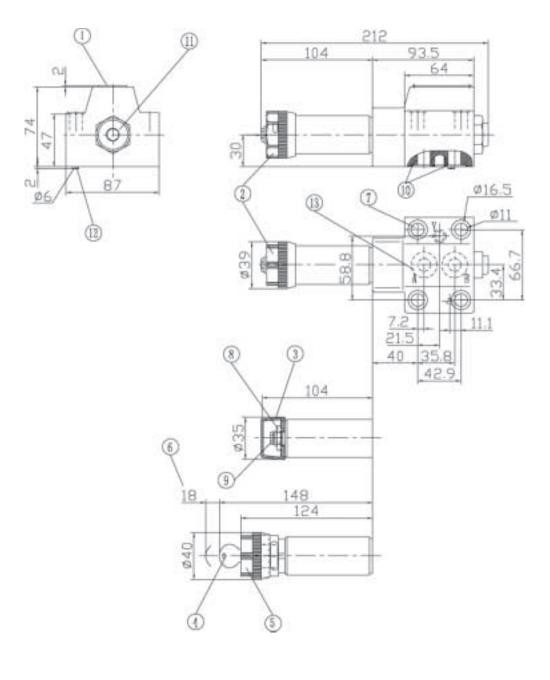
Characteristic curves (measured at V = 41 mm²/s and t = 50° C)



Note:

For any particular setting range (spring selection) all flow curves at pressure settings lower than the maximum remain parallel to the maximum setting curve of that range.

- 1 Pressure drop / flow curve A to Y via non-return valve
- 2 Pressure drop / flow curve B to A
- 3 Pressure drop via check valve only
- 4 riangle p over the check valve and fully open control cross section



- 1. Nameplate
- 2. Adjustment element 1
- 3. Adjustment element 2
- 4. Adjustment element 3
- 5. Adjustment element 7
- 6. Space required to remove key
- 7. Valve fixing holes
- 8. Lock nut 24 A/F
- 9. Hexagon 10 A/F
- 10. O-ring 17.12 x 2.62 for ports A, B, 9.25 x 1.78 for ports Y

- 11. Pressure gauge connection port G 1/4;
- 12. Locating pin
- 13. Subplates see page 150 G460/01(G3/8″) G460/02(M18X1.5) G461/01(G1/2″) G461/02(M22X1.5) Valve fixing screws (GB/T70.1-2000): M10X60-10.9 M_A =75Nm



Required surface finish of mating piece

HUADE AMÉRICA

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Huade América