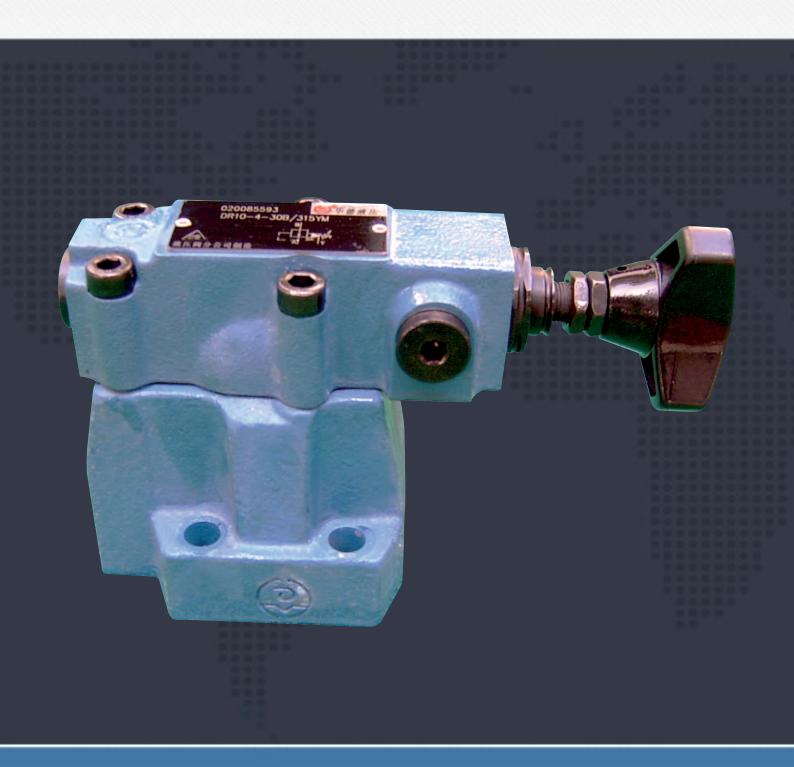


Catálogo de Produtos



BEIJING HUADE HYDRAULIC INDUSTRIAL **GROUP CO.,LTD.**

Pressure sequence valve pilot operated, type DZ...30B/

Replaces: RE26390/05.2001

RE 26390/12.2004

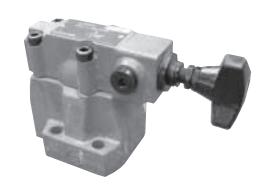
Size 10,20,30

up to 21MPa

up to 450L/min

Features:

- Suitable for use as a relief, sequence and bypass valve
- For subplate mounting
- For manifold block mounting
- 4 adjustment elements:
 - · Rotary knob
 - · Sleeve with hexagon and protective cap
 - · Lockable rotary knob with scale
 - · Rotary knob with scale
- 4 pressure ratings
- Check valve, optional



Functional, section

Pressure valves type DZ are pilot operated pressure sequence valves. They are used for pressure dependent sequence switching of a second circuit.

The pressure sequence valves basically consist of main valve (1) with main spoolt (6) and pilot valve (2) with pressure adjustment element and check valve (11), optional.

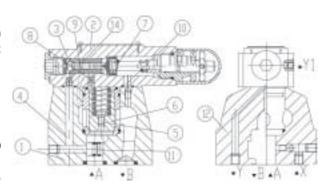
The valve function varies according to pilot oil drain configuration:

Type DZ...-30B/210.

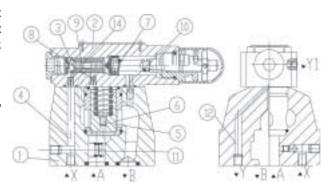
The pressure in port A acts on the pilot spool (6) in the pilot valve (2) via the control line (4). At the same time it acts on the spring loaded side of the main spool (6) via orifice (8). When the pressure exceeds the value set at spring (7), the pilot piston (3) is moved against the spring (7). The signal is obtained internally from port A via control line (4). The fluid on the spring loaded side of the main spool (6) now flows to port B via orifice (9), control land (14) and lines (10) . There is now a pressure drop at main spool (6), the connection from port A to port B is open maintaining the pressure set at spring (7). The leakage oil at pilot piston (3) is led to port B internally via line (10). An optional check valve (11) can be fitted for free return flow from port B to A.

Type DZ...-30B/210X

The function of this valve is principally the same as for valve DZ...30B/ 210. However, on pressure sequence valve type DZ...30B/...X.. the signal is given externally by means of port X.



Type DZ...30B/210



Type DZ...30B/210X

Type DZ...30B/210Y...

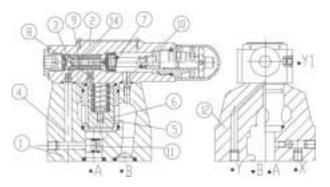
The function of this valve is principally the same as for valve type DZ...30B/....However, for type DZ...30B/...Y.. leakage at pilot piston (3) must be drained to tank.

Type DZ...30B/....XY...

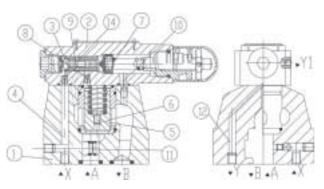
Pressure in port X acts on the pilot piston (3) in the pilot valve (2) via control line (4). At the same time pressure in port A acts on the spring loaded side of the main spool (6) via orifice (5). When the pressure in port X exceeds the value set at the spring (7), the pilot piston (3) is moved against the spring (7). When pilot piston (3) is moved against spring (7), fluid can pass from the spring loaded side of the main spool (6) into the spring chamber of the pilot valve (2) viaorfice (9) and line (16) and pressure breaks down on the spring loaded side of the main spool (6).

The fluid can, therefore, pass from port A to B with minimum loss of pressure. The pilot oil in spring chamber (17) should be drained to tank via line(14) or port Y.

Optional check valve (11) can be fitted for free return flow from port B to A.

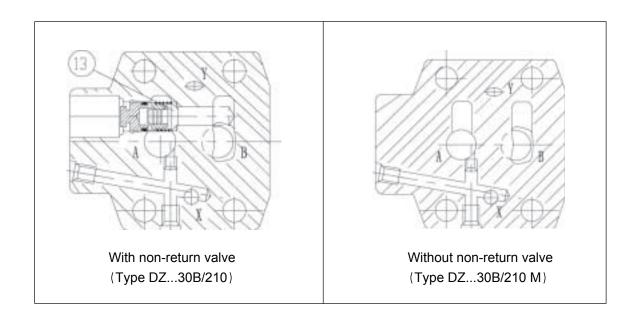


Type DZ...30B/210Y

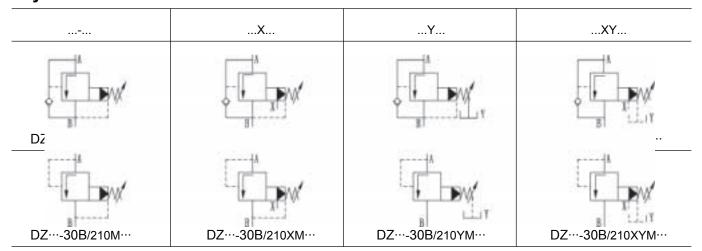


Type DZ...30B/210X Y

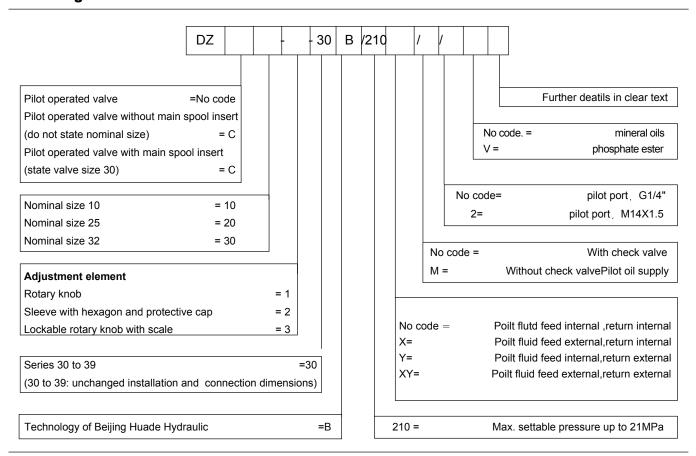
3



Symbols of control oil



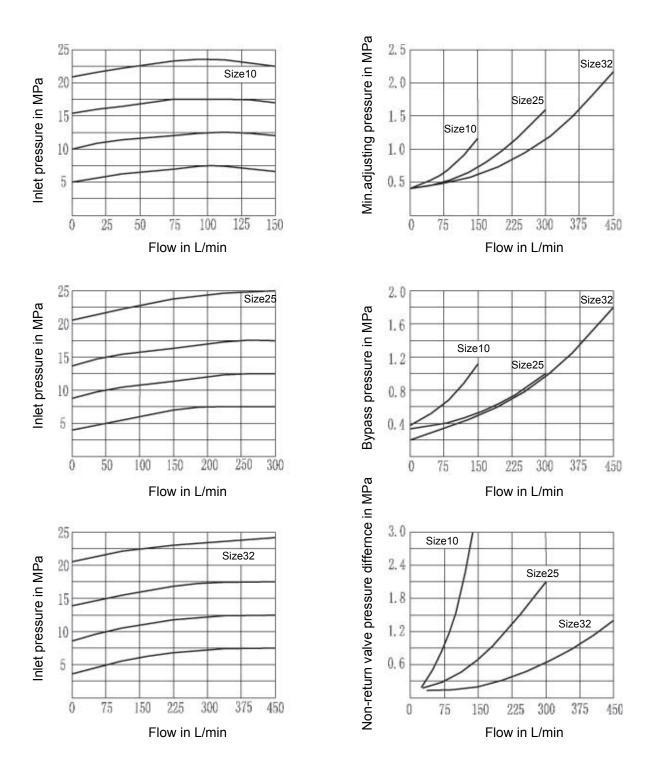
Ordering details

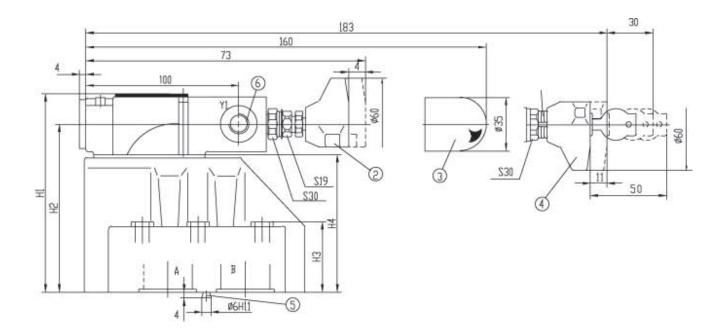


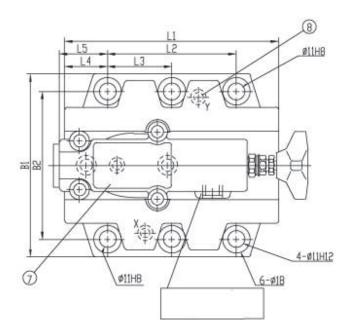
Technical data

Size		10	20	30		
Flow	(L/min)	150	300	450		
Operating pressure	(MPa)	up	to 31.5, for A	B, X		
Backpressure, port Y	(MPa)		up to 31.5			
Adjust pressure	(MPa)	0.3	(in related to Q) ~21		
F1		Mineral oil (for NBR seal),or				
Fluid		phospl	phosphate ester (for FP			
Viscosity range	(mm²/s)		10~800			
Fluid temperature ran	ge (°C)	-30~+80				

The characteristic curves are valid for outlet pressure Pb = 0 for the complete flow range







- 1. Repeat adjusting scale
- 2. Adjustment element 1
- 3. Adjustment element 2
- 4. Adjustment element 3
- 5. Locating pin
- 6. Port Y1 (G 1/4; 12) for external pilot oil drain when used as a bypass valve, unloading of spring chamber when used as sequence valve
- 7. Nameplate
- 8. Port Y for external point oil drain when used as a unloading valve

Subplates:see page150

G412/01 G412/02

G413/01 G413/02

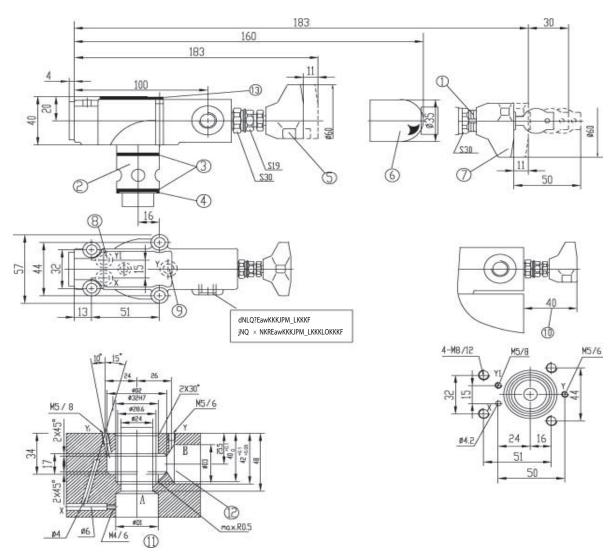
G414/01 G414/02

G415/01 G415/02

G460/01 G460/02

G461/01 G461/02

Size	B1	B2	H1	H2	H3	H4	L1	L2	L3	L4			O-ring		Weight	
OIZC	51	DZ		112	110	114							Port X,Y	Port A,B	(GB/T70.1-2000)	(Kg)
10	85	66.7	112	92	28	72	90	42.9	-	35.5	34.5		17.12 × 2.62	4-M10 × 50	3.6	
20	102	79.4	122	102	38	82	112	60.3	-	33.5	36.5	9.25 × 1.78	28.17 × 3.53	4-M10 × 60	5.5	
30	120	96.8	130	110	46	90	140	84.2	42.1	28	31.3		34.52 × 3.53	6-M10 × 70	8.2	



- 1. Repeat adjusting scale
- 2. Main spool insert
- 3. O-ring 27.3 x 2.4
- 4. Back-up ring 32/28.4X0.8
- 5. Adjustment element 1
- 6. Adjustment element 2
- 7. Adjustment element 3
- Port Y1
 pilot oil drain when used as reduce or sequence valve
- Port Y
 pilot oil drain when used as bypass valve;
 unloading of spring chamber when used as
 sequence valve
- 10. Min.distance when use the adjustment element"1"or"3"
- 11. This drilling is not required when used as unloading valve
- 13. Hole D3 can meet holeD2 at any location.Care has to be taken that connection holeX and the fixing hole are not damaged.
- 14. Nameplate

Size	ф D1	ф D 2	ф D3	Fixing screws	Weight
			Ψ D3	(GB/T70.1-2000)	(Kg)
10	10	40	10		
20	25	40	25	4-M8 × 40-10.9	1.4
30	32	45	32		

ANNOTATIONS:

HUADE AMÉRICA

CEP: 03162-020

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