

Catálogo de Produtos



Directional Control Valves Type WE 10...30B/

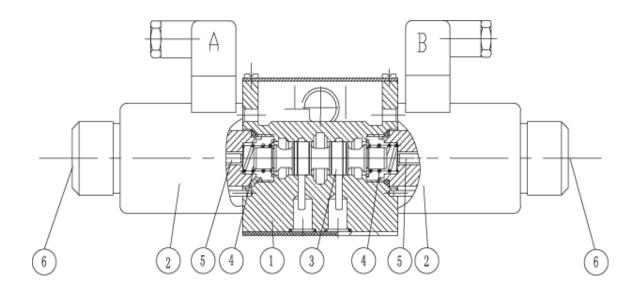
BEIJING HUADE HYDRAULIC INDUSTRIAL	Directional	RE 23316/12.2004		
GROUP CO.,LTD.	Size 10	up to 31.5 MPa	up to 120L/min	Replaces : RE 23316/05.2001
Features: -Direct solenoid operated of standard version -Wet pin DC or AC solenou -perfect outline -Coils may be replaced with pressure-tight chamber -Choice of either central of electrical connections -Optional hand over-ride -long life -Porting pattern to Din 24 3	ids with removable hout opening the rindividual	coils		i correction

Functional, section

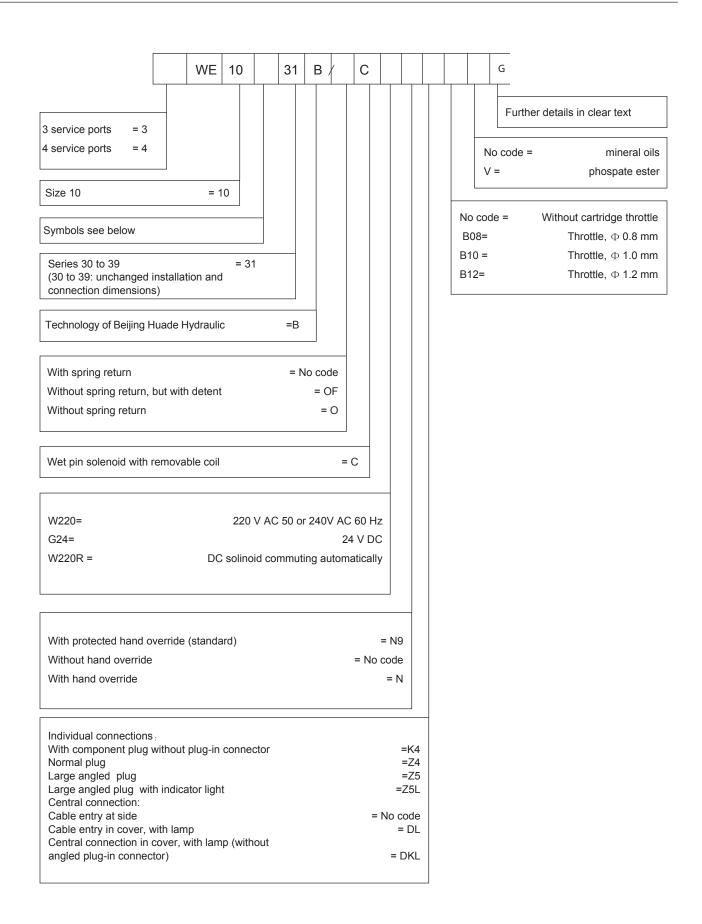
and CETOP-RP 121H

Directional valves basically comprise the housing (1), one or two solenoids (2), control spool (3), and one or two return springs (4). At rest, control spool (3) is held in its central or initial position by means of return springs (4) (except in the case of impulse spools). Control spool (3) is operated by wet pin solenoids (2). The force of solenoid (2) acts on control spool (3) and moves it from its rest position to the desired end position. This permits free flow from P to A and B to T or P to B and A to T.

On de-energizing solenoid (2) control spool (3) is returned to its initial position by return spring (4). Optional hand over-ride (5) permits control spool (3) to be moved without the solenoids being energized.



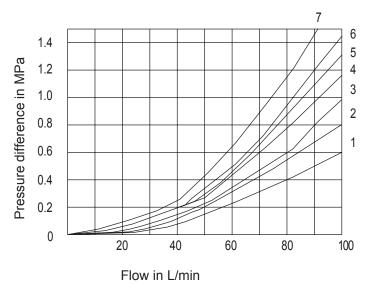
Type 4WE 10 ... 30B/...C



4) Example:					
Spool E with switching position "a"		A.B.	<u>A. B</u>		
Ordering codeEA		a joj b a 🚧	a o b WM b		
Spool E with switching position "b"		Ă₿,	AB		
Ordering codeEB			a o W		=.A1)
d Wdata a		<u>А́. В</u>	AB		
		loi b P T	Molp p		=.B
				=E	
			ШĦХ	=F	
PT PT/0F				=G	
	=A	(X:H:H:H:D)	xHn	=H	
		(X:X:HE:ED	XHD	=J	
	=C	XX HIII	XHD	=L	
	=D	XXHIII	XHO	=M	
	-0			=P	
a b a Mabz b				=Q	
			XHE	=R	
	=B			=T	
	=Y			=U	
	·			=V	
				=W	

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

7 Symbol "R " in switched position A \rightarrow B 8 Symbols "G " and "T " in mid position P \rightarrow T

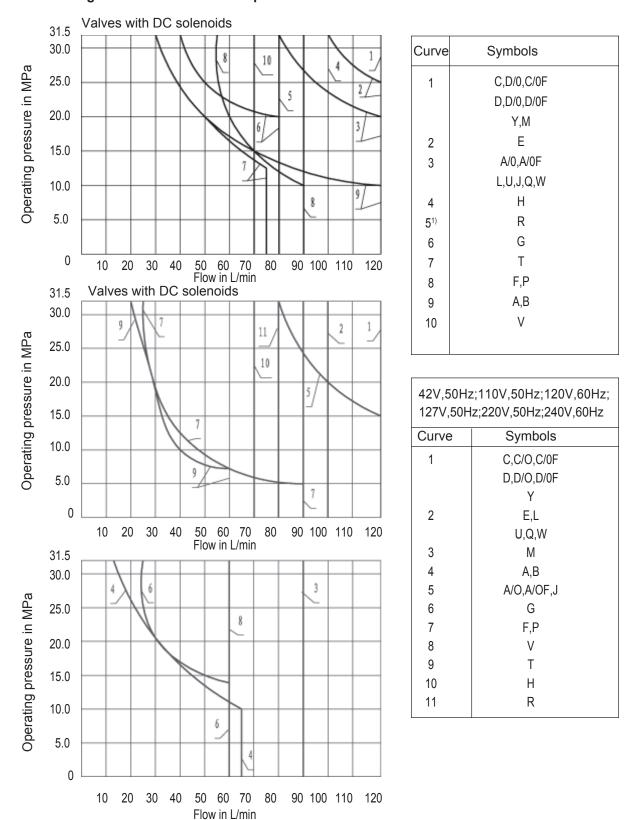


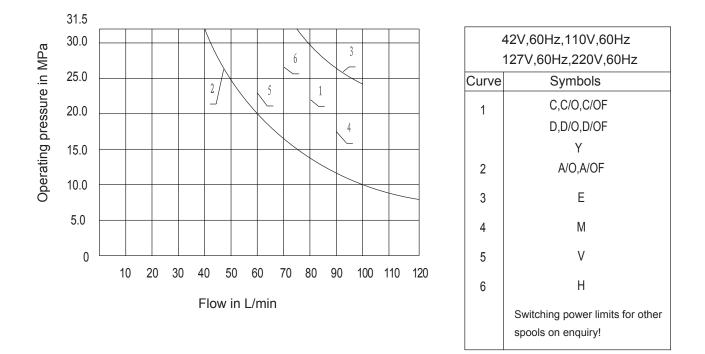
Symbols	Direction of flow				
Gymbols	P-A	P-B	A-T	B-T	
A, B	2	2	-	-	
C, D, Y, J	2	2	3	3	
E, Q, V	2	2	4	4	
F	2	3	3	5	
G	3	3	4	6	
Н	1	1	4	5	
L,U	2	2	3	5	
М	1	1	5	1	
Р	3	2	5	3	
R	2	4	3	-	
Т	3	5	5	6	
W	2	2	5	5	

The given switching power limits are for applications with two flow directions (e.g.from P to A and simultaneous return flow from B to T).

Due to the flow forces active within the valves the permissible switching power limit may be significantly less if there is only one direction of flow (e.g.from P to A and port B blocked)! (Please consult us for applications of this kind.)

The switching power limits were measured with the solenoids at operating temperature, 10% under voltage and without tank back pressure.



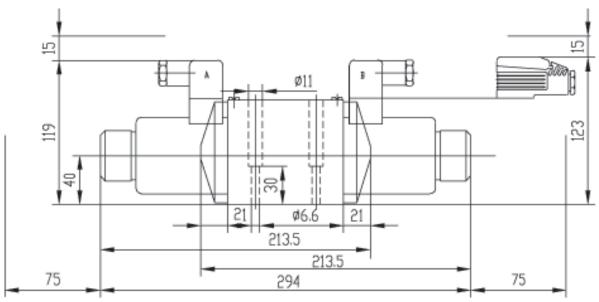


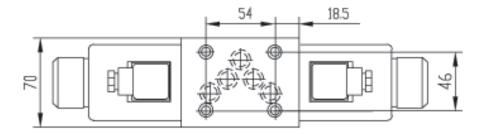
Technical data

	· ·			
Operating pressure max.	Ports A, B, P	(MPa)	31.5	
	Ports T	(MPa)	16	
Flow max.		(L/min)	120	
Cross section (switching position 0):			With symbol Q $$ approx. 6 % of the nominal area With symbol W $$ approx. 3 % $$	
Pressure fluid			Mineral oils(for NBR seal) or phospate ester(for FPM seal)	
Pressure fluid temperature range (°C)		(°C)	-30~+ 80	
Viscosity range	ity range (mm ² /s)		2.8~500	
Weight (kg) –	Valve with 1 solenoid		5.1(DC); 4.3(AC)	
	Valve with 2 solenoids		6.7(DC); 5.1(AC)	

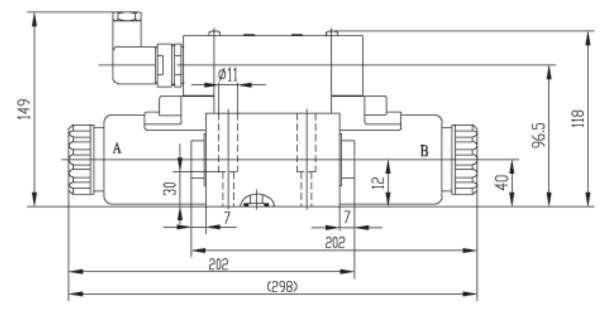
For symbols A and B, port T must be used as a drain line, if the operating pressure is higher than the permissible tank pressure.

Individual connection

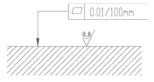


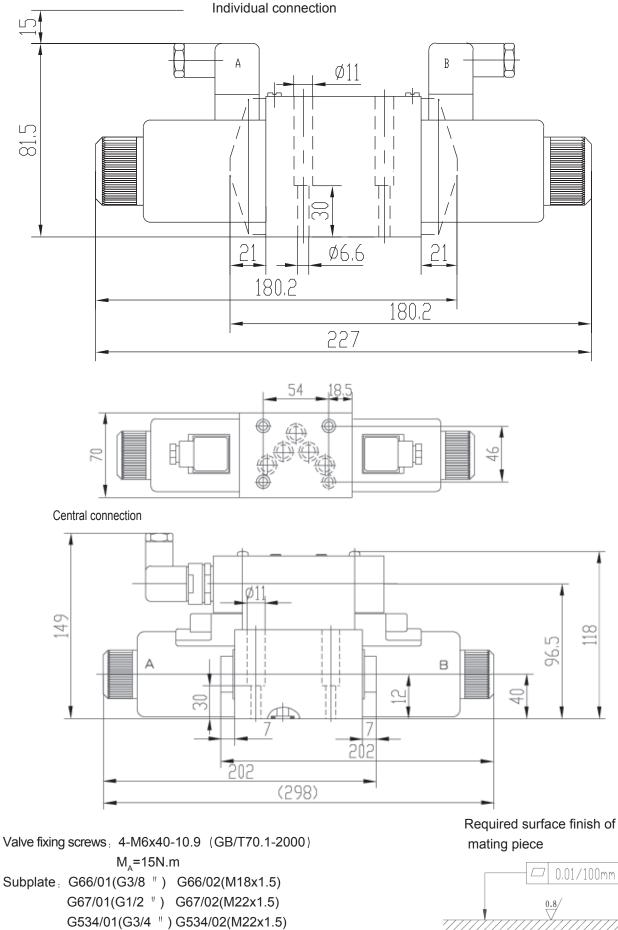


Central connection



Valve fixing screws: 4-M6x40-10.9 (GB/T70.1-2000) M_A=15N.m Subplate : G66/01(G3/8 ") G66/02(M18x1.5) G67/01(G1/2 ") G67/02(M22x1.5) G534/01(G3/4 ") G534/02(M22x1.5) (see page 206) Required surface finish of mating piece





(see page 206)



Notice

- 1. The fluid must be filtered. Minimum filter fineness is 20 $\mu m.$
- 2. The tank must be sealing up and an air filter must be installed on air entrance.
- 3. Products without subplate when leaving factory, if need them, please ordering specially.
- 4. Valve fixing screws must be high intensity level (class 10.9). Please select and use them according to the parameter listed in the sample book.
- 5. Roughness of surface linked with the valve is required to $\sqrt[0.8]{}$.
- 6. Surface finish of mating piece is required to 0.01/100mm.

HUADE AMÉRICA

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