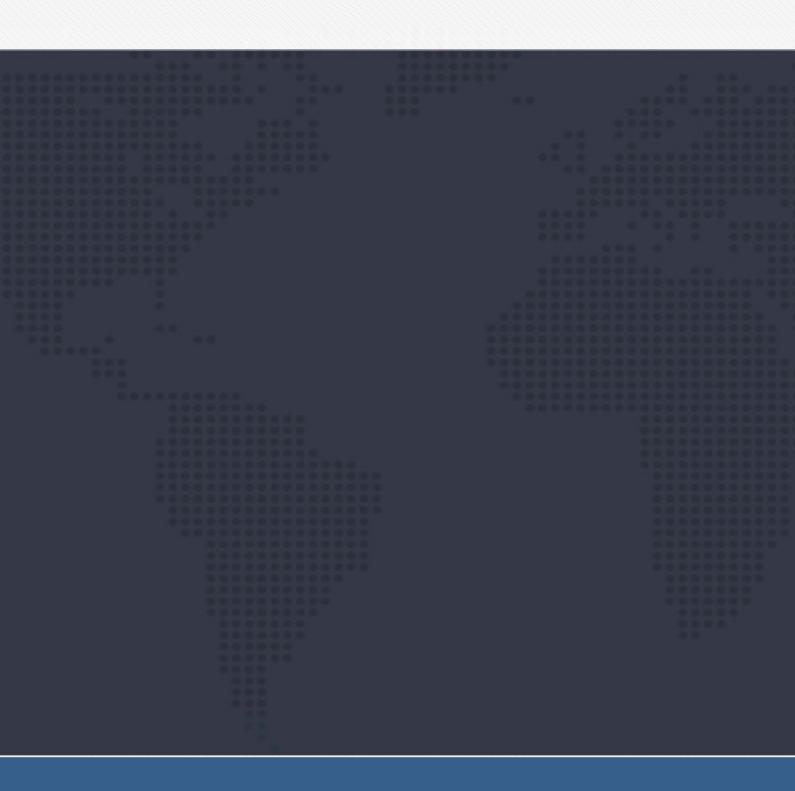


Catálogo de Produtos



BEIJING HUADE HYDRAULIC INDUSTRIAL GROUP CO.,LTD.

Directional control valves, electrically operated Type WE 5

RE 23166/12.2004

Size5

up to 25 MPa

up to14L/min

Replaces: RE23166/05.2001

Features:

- Direct solenoid actuated directional spool valve
- Wet pin DC or AC solenoids



Function, section

Directional valves of type WE5 are solenoid operated directional spool valves. They control the start, stop and direction of a fluid flow

These directional valves basically consist of the housing (1), one or two solenoids (2), the control spool (3), and one or two return springs(4).

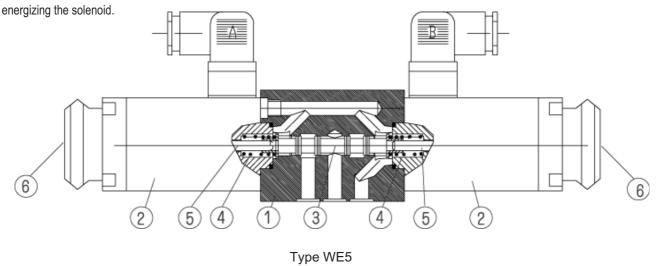
The control spool (3) is held by the return spring (4) in the central or in the initial position (except for detented spools). The control spool (3) is actuated via wet pin solenoids (2). In the energized condition. The force of the solenoid (2) acts via the plunger (5) on the control spool (3) and shifts the same from its rest position to the desired end position. Thus, the required flow pattern from P to A and B to T or P to B and A to T is selected. When the solenoid (2) is de-energized, the control spool (3) is returned to its neutral position by the return spring (4). A covered manual override is provided so that the control spool (3)can be operated without

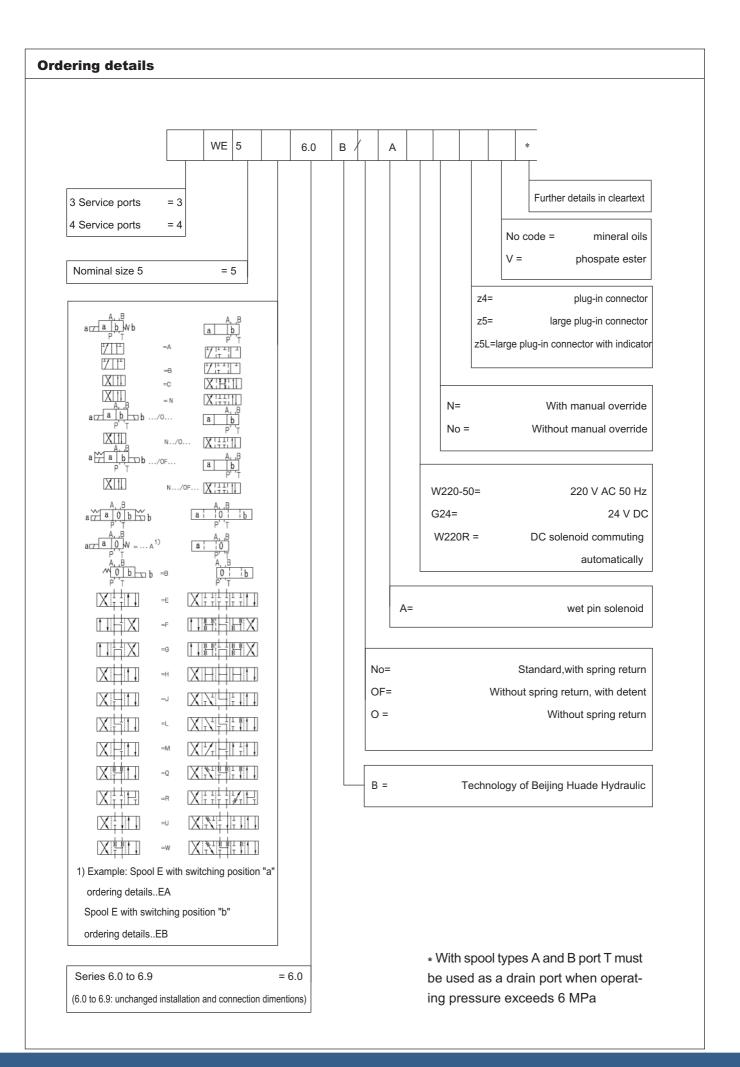
Type 4WE5 N 6.0B/O...

This version is a directional valve with 2 switching positions and 2 solenoids without detent and springs. There is no defined switching position in the de-energized condition.

Type 4WE5 N 6.0B/OF...

This version is a directional valve with 2 switching position,2 solenoids and a detent. Thus, the relevant switching positions are fixed and continuous energization of the solenoid is not necessary





Technical data

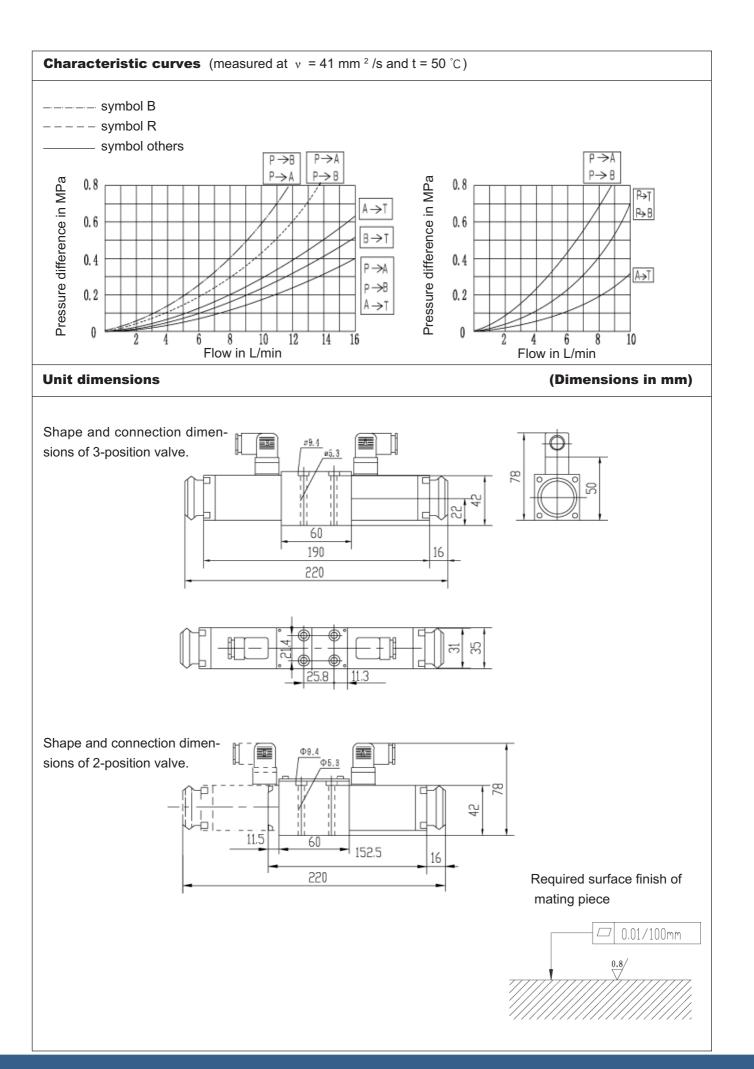
Hydraulic							
Hydraulic fluid			mineral oils, phospate ester				
Fluid temper	ature range	(°C)		-30~+80			
Viscosity rang	ge	(mm²/s)	2.8~500				
Operating pressure, max.		(MPa)	Port A, B, P		Port T		
		(IVII a)	up to 25		up to 6		
Flow area (su	vitchina positio	n ()\·	With symbol W		With symbol Q		
i low area (sv	Flow area (switching position 0):		approx. 3% of nominal cross section		approx. 6% of nominal cross section		
Weight		(kg)	valve	subplate	G115/01	subplate G96/01	
vveigni		(NS)	approx.1.4	.1.4 approx.0.7		approx.0.5	
Electrical							
AC Voltage		(V)	110、220、in 50Hz				
DC Voltage		(V)	12、24、110				
Voltage type			AC	AC DC			
Power requireme	ent	(W)	26				
Holding power		(VA)	-		46		
Switch-on power		(VA)	-		130		
Duty cycle			conti	continue			
Switching time	ON	(ms)	40	25			
Switching time	OFF	(ms)	30	20			
Environment temperature (°C)		+50					
Coil temperature (°C)		+150					
Switching frequency cycles (cycles /h)		15000	0 7200				
Type of protection to DIN 40 050		IP65					

Switching limits

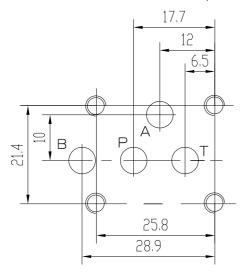
Attention!

The given operating limits are valid for the use with two flow directions (e.g. from P to A and simultaneous return flow from B to T). Due to the flow forces active inside the valves the permissible operating limit may be significantly lower if only one flow direction from P to A and closed port B) is used! The operating limits were measured with solenoids at operating temperature, 10% under voltage and without tank back pressure.

flow in L/min operating pressure in MPa	5	10	25
A, B, C, N, E, F, H, J, L, M, Q, R, V, W	14	14	12
G	10	10	9



The connection dimensions of service ports



O-ring	7X1.5
Valve fixing screws	4-M5X50-10.9 (GB/T70.1-2000) M _A =9N.m

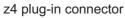
Subplates:

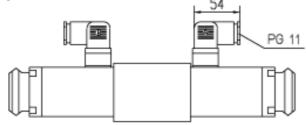
G115/01; G96/01 G115/02; G96/02

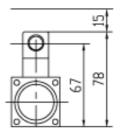
see page 212

Dimensions of the electrical connection

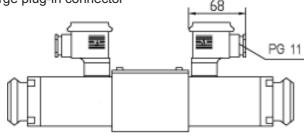
(Dimension in mm)

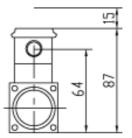




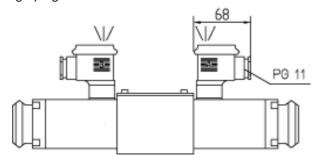


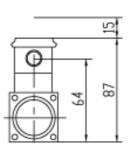
z5 large plug-in connector





z5L large plug-in connector with indicator





NOTICE

- 1. The fluid must be filtered. Minimum filter fineness is 20 μ m.
- 2. The tank must be sealing up and an air filter must be installed on air entrance.
- Products without subplate when leaving factory, if need them, please ordering specially.
- 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
- 6. Surface finish of mating piece is required to 0.01/100mm.

ANNOTATIONS	:						

HUADE AMÉRICA

CEP: 03162-020

RUA HIPÓDROMO 1445 – MOOCA, SÃO PAULO, SP, BRASIL

TEL: (11) 3186-5959 huade@huade.com.br www.huade.com.br