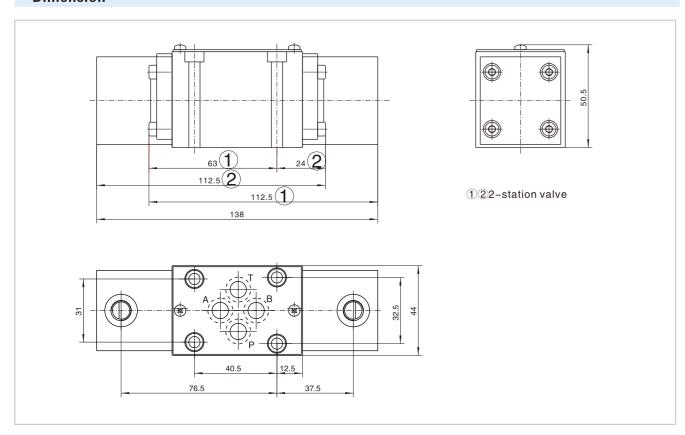
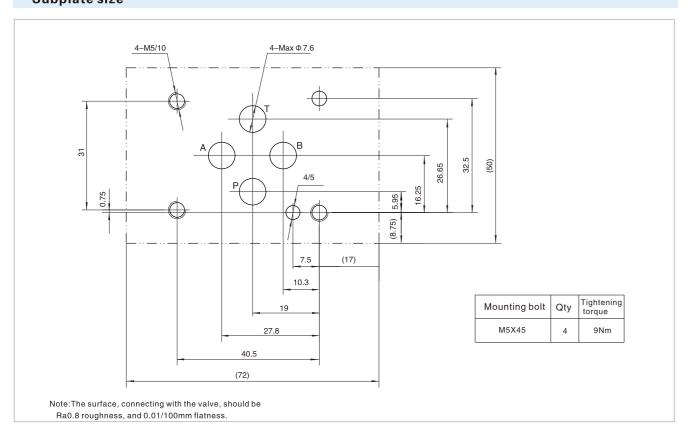
Hydraulic-operated Directional Control Valve

Dimension



Subplate size



Water-proof Electrical Operated Directional Control Valve

Technical specification



Specification		02		
Working (MPa)	Oil ports P, A, B	31.5		
	Oil port T	10		
Max. Flow (L/min)		80		
Working fluid		Mineral oil; phosphate-ester		
Fluid temp. (℃)		-20~70		
Viscosity (mm²/s)		2.8~380		
Working voltage (V)		DC 12 24		
Max.Switch freque	ncy (T/h)	15000		
Insulation grade		lp65		
Cleanliness	The maximum allowable cleanliness of the oil should be according to 9th degree of Standard NAS1638.It is suggested that the			

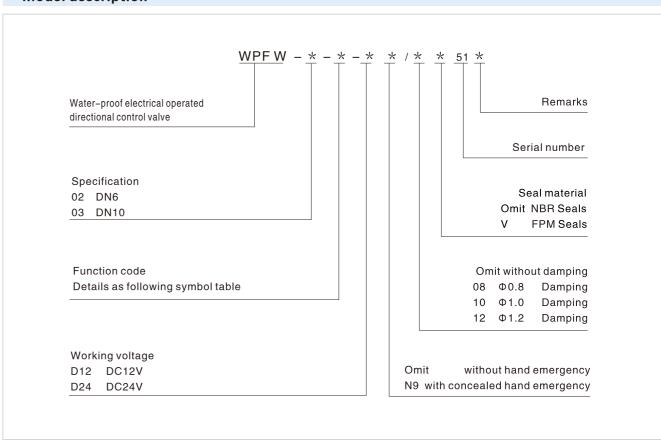
minimum filter rating should be β 10 \geq 75.

Water-proof electrical operated directional control valve uses solenoid to pull the spool and change the direction of the hydraulic oil.

Water-proof electrical operated directional control valve can directly control the start, stop and direction of a fluid flow. It also can be used as the pilot-operated valve, which could operate other valves.

Supplement: Water-proof electrical operated directional control valve is usually used at damp environment such as garbage trucks.

Model description



D.8.3 D.9.1

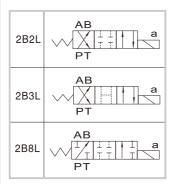
Water-proof Electrical Operated Directional Control Valve

Code symbol

Spring return

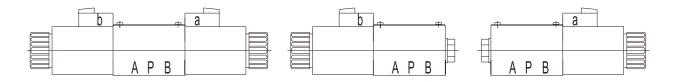
Орг	ing return				
3C2	b AB a	2B2B	b AB TTV PT	2B2BL	AB a PT
3C3	b AB a	2B3B	b AB PT	2B3BL	AB a
3C4	b AB a	2B4B	b AB PT	2B4BL	AB a
3C5	b AB a	2B5B	b AB PT	2B5BL	AB a
3C6	b AB a	2B6B	b AB PT	2B6BL	AB a PT
3C7	b AB a PT	2B7B	b AB PT	2B7BL	AB a PT
3C9	b AB a PT	2B9B	b AB PT	2B9BL	AB a PT
3C10	b AB a	2B10B	B AB T T T T T T T T T T T T T T T T T T	2B10BL	AB a PT
3C11	b AB a	2B11B	b AB PT	2B11BL	AB a PT
3C12	b AB a PT	2B12B	b AB PT	2B12BL	AB a PT
3C25	b AB a PT	2B25B	b AB PT	2B25BL	AB a
3C29	b AB a	2B29B	b AB	2B29BL	AB a

2B2	AB D T T T D PT
2B3	AB PT
2B8	AB b T/T T T T PT



Water-proof Electrical Operated Directional Control Valve

Name of solenoid



- 1. a When movement a, $P \rightarrow A B \rightarrow T$
- 2. b When movement b, $P \rightarrow B A \rightarrow T$
- 3. 3C5,3C6Oil flow in the opposite direction with the above-mentioned movement.

Specification Performance curve (Measured at $v = 41 \text{mm}^2/\text{s}$ and $t = 50 ^{\circ}\text{C}$)

Pressure loss(MPa) 6 5 3 9 1 2 0.8 0.6 0.4 Flow (L/min)

Function code	Direction				
1 diletion code	P→A	P→B	A→T	В→Т	
2B8 2B8L	3	3	-	_	
2B3	1	1	3	1	
2B2 2B2L	5	5	3	3	
3C2	3	3	1	1	
3C5	1	3	1	1	
3C6	6	6	9	9	
3C3	2	4	2	2	
3C4	1	1	2	1	
3C10 3C12	3	3	4	9	
3C9	2	3	3	3	
C25	3	1	1	1	
3C29	5	5	4	_	
3C7	, 1	2	1	1	

7. Spool type "3C29" located in the control position $A \rightarrow B$ 8. Spool symbol 3C6 in the median position $P \rightarrow T$

D.9.3 D.9.2

Water-proof Electrical Operated Directional Control Valve

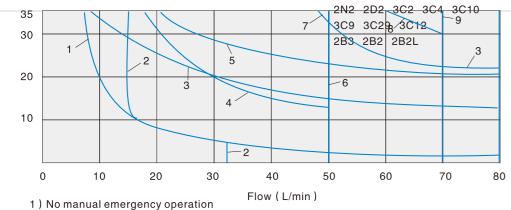
Specification Working limits — (The working limits for directional valve have determined by using solenoids attheir operating temperature, 10% under voltage and with no pre-loading of the tank.)

With regard to the four-way valve, the normal flow data as shown is get from the regular use of two directions of the flow (e.g.P to A,and simultaneous return flow from B to T). See tables.

If only one flow direction is needed, for example: When a four port valve which is closed up port A or port B, used as a three-way valve, the Maximum flow may be very small in the serious condition.

DC solenoid operation DC D24, D1 2, B220, B110		AC solenoid operation AC A110, A220, 50HZ		
Curve	Symbol	Curve	Symbol	
1	2B8 2B8L1)	11		
2	3C7	12		
3	2B8 2B8L	13		
4	3C5 3C25	14		
5	3C4	15		
6	3C6 3C3	16		
7	2N8 2D8 3C10 3C12	17		
8	2B3 2B2 2B2L		2B8 2B8L1)	
9	3C9		3C7	
10	3C2 3C29 2N3	18	2B8 2B8L	
	2D3 2N2 2D2		3C5 3C25	

Working pressure(MPa)

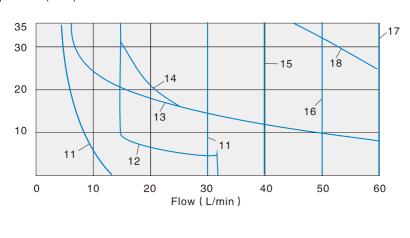


3C3

2N8 2D8 2N3 2D3

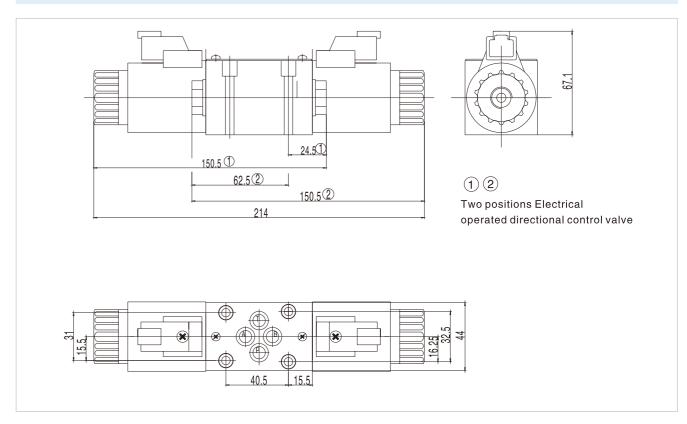
2) Oil return from actuator to oil tank

Working pressure(MPa)

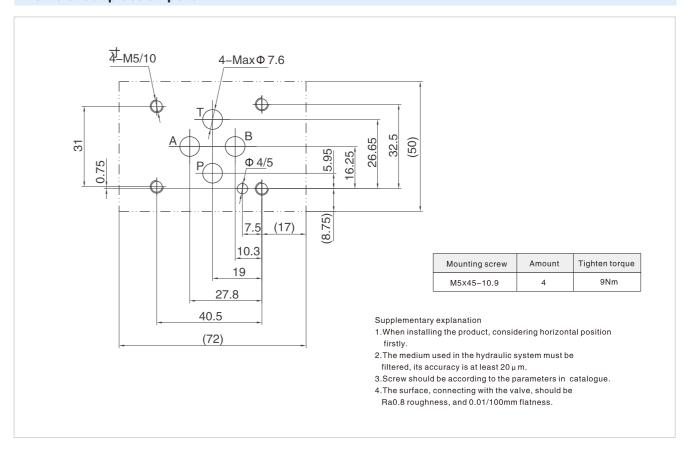


Water-proof Electrical Operated Directional Control Valve

External dimensions



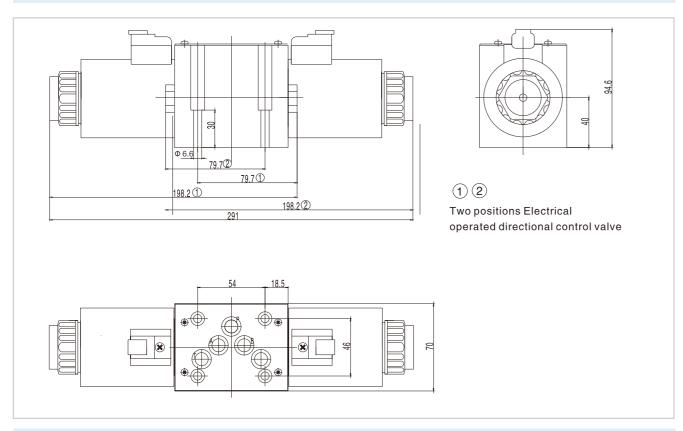
Size of subplate oil port



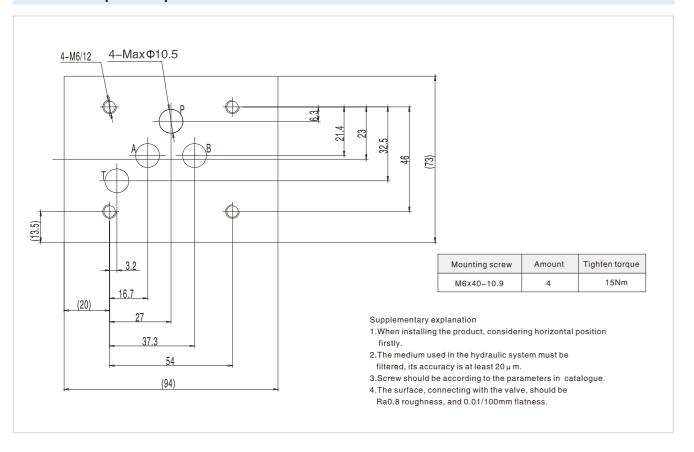
D.9.4

Water-proof Electrical Operated Directional Control Valve

External dimensions



Size of subplate oil port



Modular Check Valve

HOYEA

Technical specification

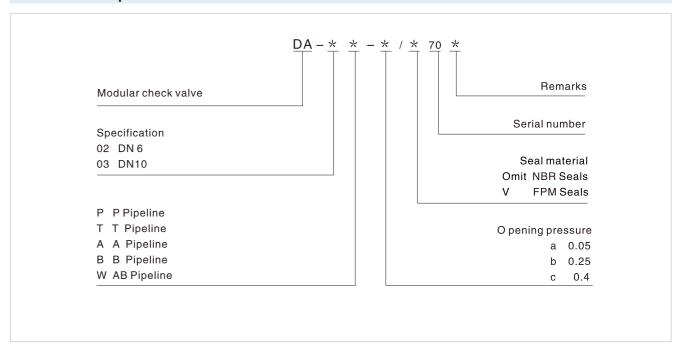


Specification		02	03	
Max. working pressure (MPa)		31.5		
Max. Flow	(L/min)	40	100	
Working fluid		Mineral oil; phosphate-ester		
Fluid temp.	$(^{\circ}\!$	-20~70		
Viscosity	(mm²/s)	2.8~380		
O pening pressure (MPa)		a:0.05 b:	0.25 c:0.4	
	The maximu	m allowable clean	liness of the oil	

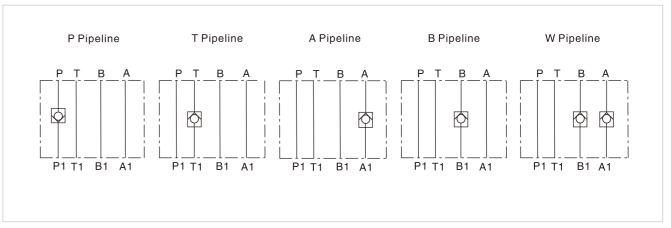
Cleanliness

should be according to 9th degree of Standard NAS1638.It is suggested that the minimum filter rating should be β 10≥75.

Model description



Code symbol



D.9.6