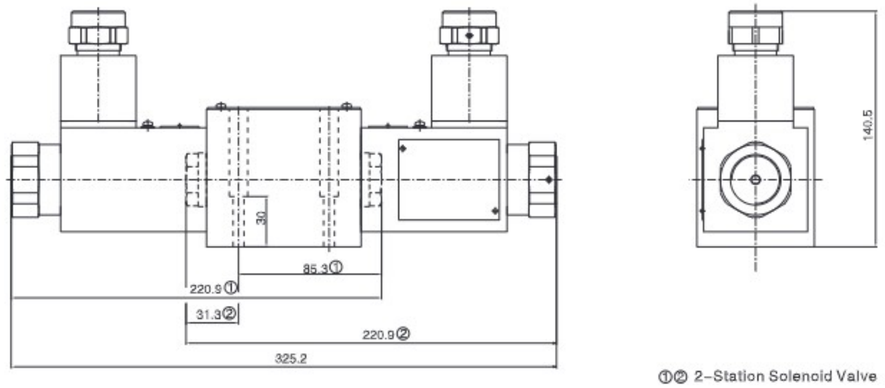
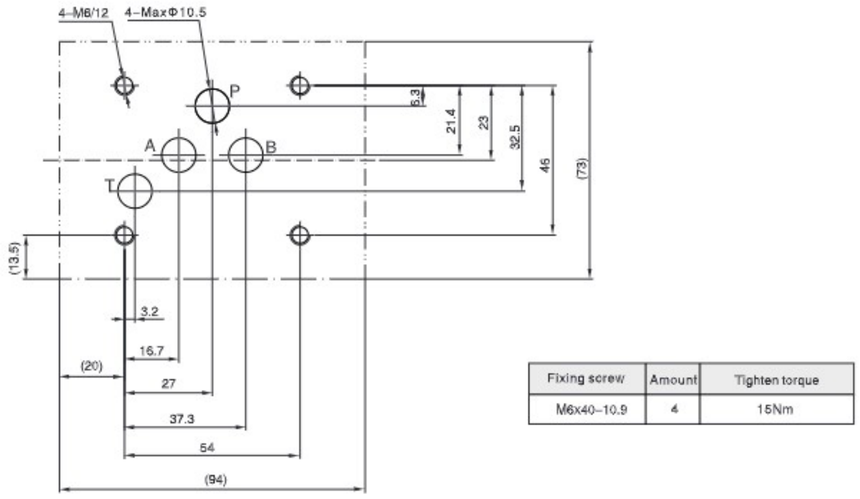
Explosion Isolation Solenoid Directional Control Valve

03 External dimensions



①② 2-Station Solenoid Valve

03 Subplate size



Fixing screw	Amount	Tighten torque
M6x40-10.9	4	15Nm

1.When installing the product, consider horizontal position firstly.
2.The medium used in the hydraulic system must be filtered. its accuracy at least should be20 μ m.
3.Screw should be according to the parameters of catalogue.
4.The surface, connecting with the valve ,should be Ra0.8 roughness, and 0.01/100mm flatness.

Explosion Isolation Electro-hydraulic Directional Control Valve

Technical specification

1) Working voltage is relative to the explosion-proof type, details please refer to "Product introduction".
2) For voltage AC, recitifier is integrated with the solenoid, no need for external rectifying.

Specification			03		04		06		10	
			GDFWH	HGDFWH	GDFWH	HGDFWH	GDFWH	HGDFWH	GDFWH	HGDFWH
Max. working pressure (MPa)	Oil ports	P, A, B	28	35	28	35	28	35	28	35
	Oil port T	Pilot drain, Y external	10							
		Pilot drain, Y internal	25							
	Oil ports Y		10							
Max. Flow		(L/min)	160		300		650		1100	
Minimum control pressure (Mpa)	spring return		1.0		1.4		1.3		0.8	
	Hydraulic centration		–		1.4		1.8		0.8	
Max. working pressure (MPa)			25							
Working fluid			Mineral oil;phosphate-ester							
Fluid temp.		(℃)	-20~70							
Viscosity		(mm^2/s)	2.8~380							
Working voltage[1](V)	DC		24							
	AC[2]		127/50Hz 220/50Hz							
Insulation grade			IP55							
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 β10≥75.							

Model instruction

*GDFWH-**-*-****/******52*

Working pressure
Omit 28MPa
H 35MPa

Explosion isolation electro-hydraulic directional control valve

Specification
02 DN6
03 DN10
06 DN25
10 DN32

Main valve return type[3]
Omit spring return
H hydraulic centration

Function code, details as following symbol table

Working voltage
D24 DC24V
B127 (AC127V Rectified)
B220 (AC220V Rectified)

Ex d I Mb
Ex d II C T6 Gb
E Ex d IIIC T80°C Db IP65

Omit without push rod emergency
N9 with concealed push rod emergency

Remarks
Serial number
Seal material
Omit NBR Seals
V FPM Seals

Omit NO reducing valve

Omit[4] NO prepressing valve
P4.5 With prepressing valve

Omit No stroke adjusting device
A end position valve with stroke adjustment
B of main valve with stroke adjustment
W Both heads with stroke adjustment

Omit No shifting time adjustment
With shifting time adjustment:Inlet flow control
With shifting time adjustment:Outlet flow control

Omit No damping
08 Φ0.8 Damping
10 Φ1.0 Damping
12 Φ1.2 Damping

Omit intl cntrl intl disch
XY Extl cntrl extl disch
X Extl cntrl intl disch
Y Intl cntrl extl disch

3)Only spring return type available
4) The valve is used for central unloading electro-hydro directional valve of internal control, while not available for (H) GDFWH-03

Explosion Isolation Electro-hydraulic Directional Control Valve

Code symbol

Spring return

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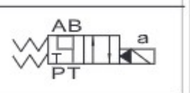
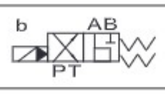
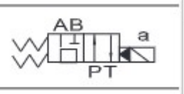
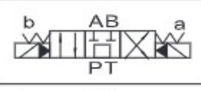
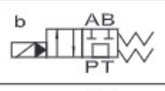
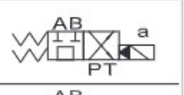
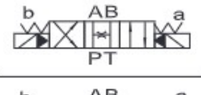
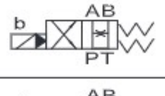
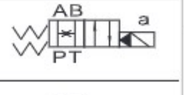
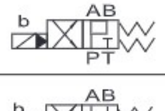
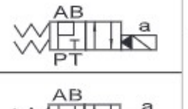
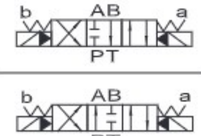
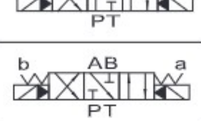
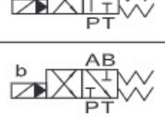
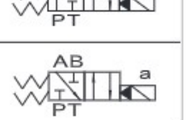
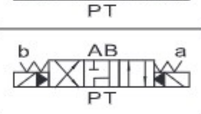
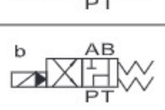
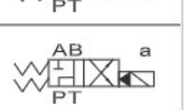
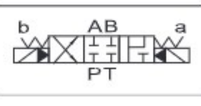
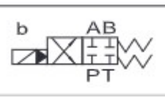
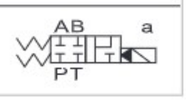
3C3		2B3B		2B3BL	
3C4		2B4B		2B4BL	
3C5		2B5B		2B5BL	
3C6		2B6B		2B6BL	
3C7		2B7B		2B7BL	
3C9		2B9B		2B9BL	
3C10		2B10B		2B10BL	
3C11		2B11B		2B11BL	
3C12		2B12B		2B12BL	
3C25		2B25B		2B25BL	
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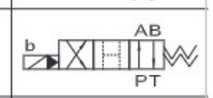
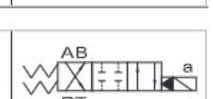
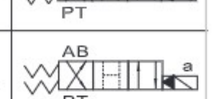
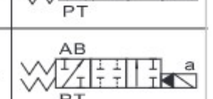
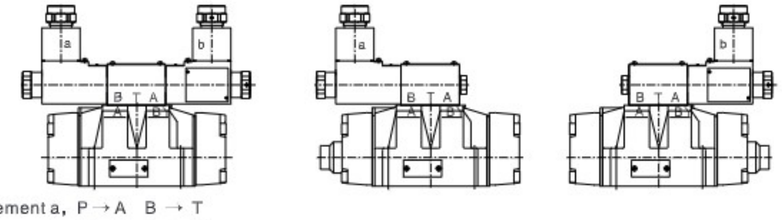
2B2	
2B3	
2B6	

2B2L	
2B3L	
2B8L	

Name of solenoid

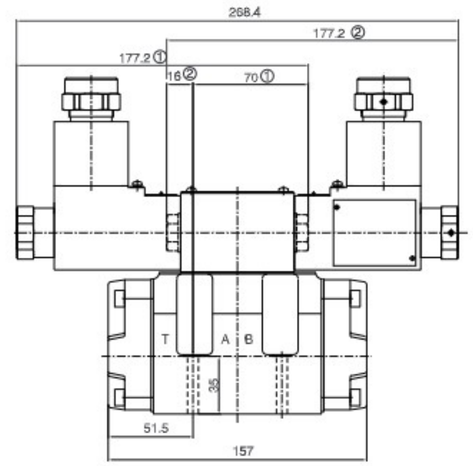


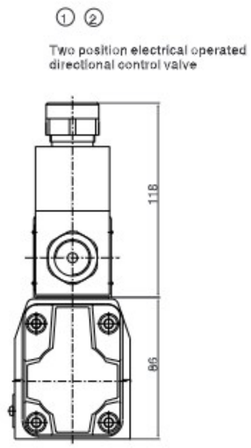
1.When movement a, P → A B → T
2.When movement b, P → B A → T
3.Oil flow in the opposite direction with the above-mentioned movement for 3C5、3C6、3C25

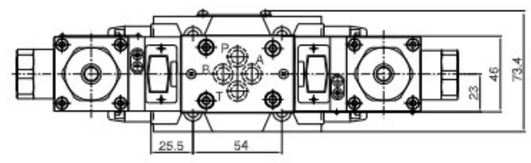
HOYEA

Explosion Isolation Electro-hydraulic Directional Control Valve

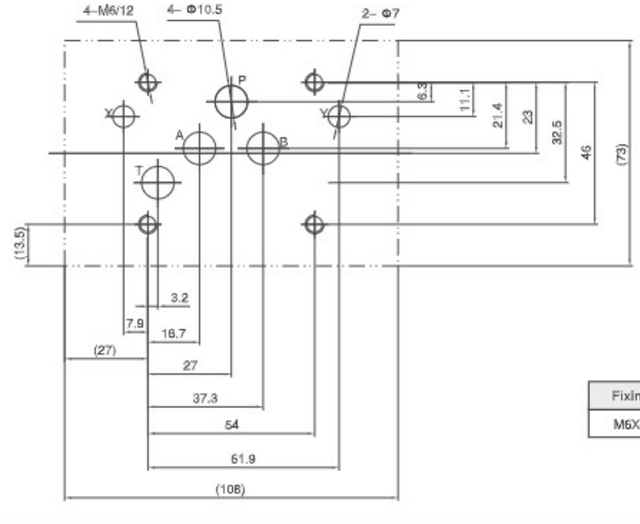
03 External dimensions





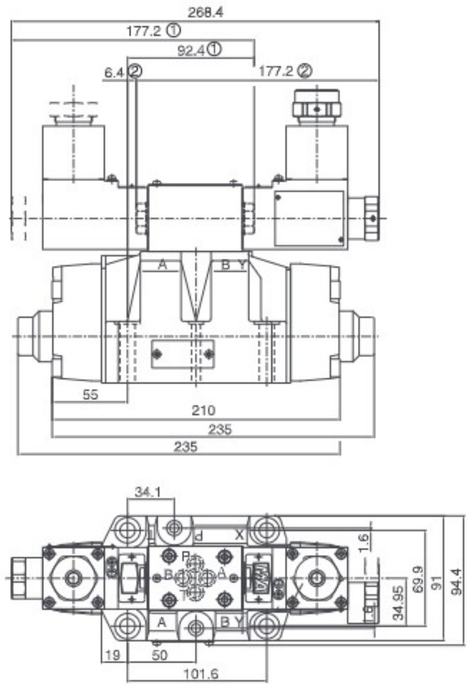


03 Subplate size



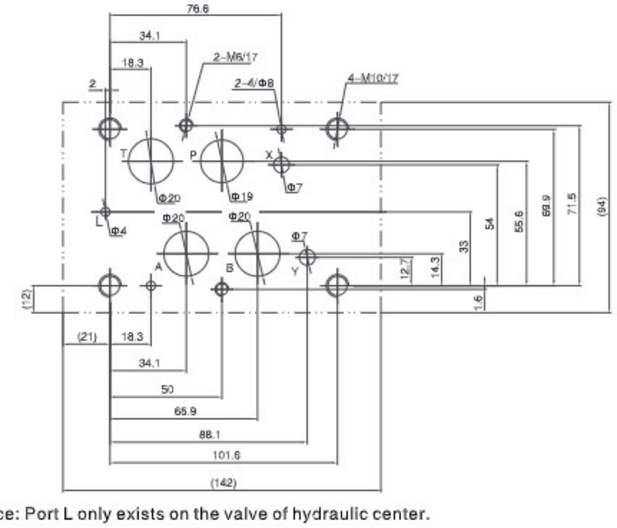
Fixing screw	Amount	Tighten torque
M6X45-10.9 4	4	15Nm

04 External dimensions



①②
Two position electrical operated directional control valve

04 Subplate size

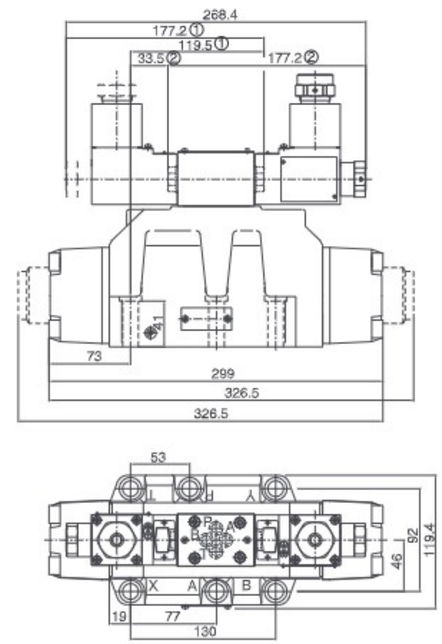


Fixing screw

Specification	Amount	Tighten torque
M10x60-10.9	4	62Nm
M6x55-10.9	2	12.5Nm

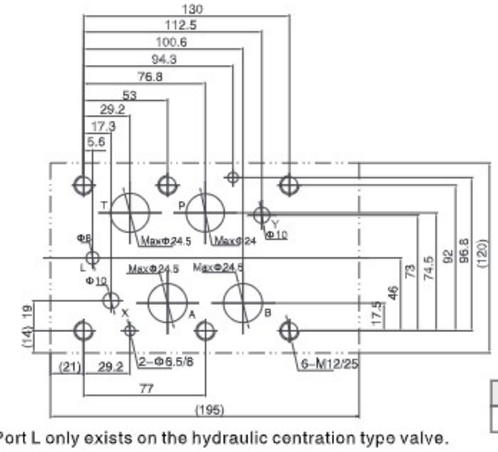
Notice: Port L only exists on the valve of hydraulic center.

06 External dimensions



①②
Two position electrical operated directional control valve

06 Subplate size



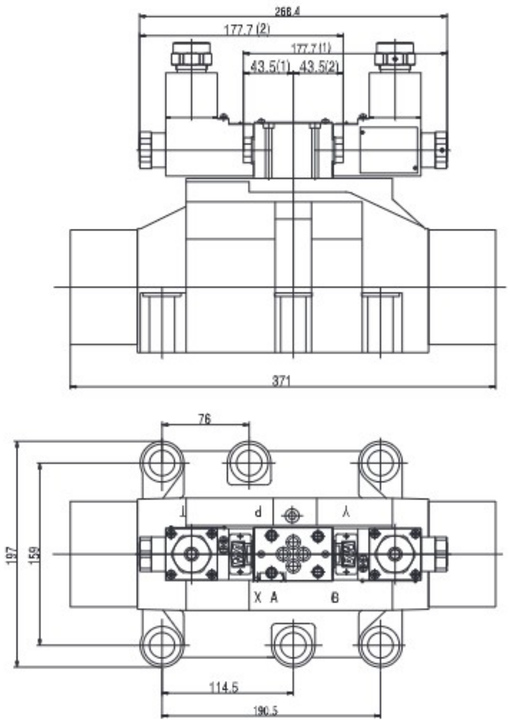
Fixing screw	Amount	Tighten torque
M12x60-10.9	6	105Nm

Notice: Port L only exists on the hydraulic contration type valve.

1.When installing the product, consider horizontal position firstly.
2.The medium used in the hydraulic system must be filtered. its accuracy at least should be20 μ m.
3.Screw should be according to the parameters of catalogue.
4.The surface, connecting with the valve ,should be Ra0.8 roughness, and 0.01/100mm flatness.

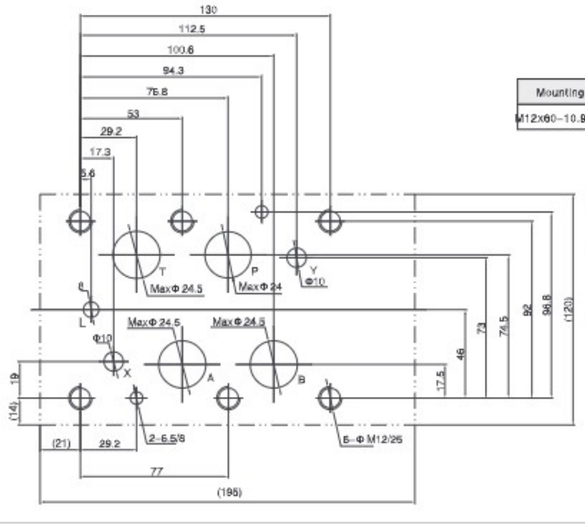
Explosion Isolation Electro-hydraulic Directional Control Valve

10 External dimensions



①②
Two position electrical operated directional control valve

10 Subplate size



Mounting screw	Amount	Tighten torque
M12x60-10.9	6	130Nm

Supplementary explanation
1. When installing the product, considering horizontal position firstly.
2. The medium used in the hydraulic system must be filtered, its accuracy is at least 20 μm.
3. Screw should be according to the parameters in catalogue.
4. The surface, connecting with the valve, should be Ra0.8 roughness, and 0.01/100mm flatness.

HOYEA

Explosion Isolation Solenoid Relief Valve

Technical specification

1) Working voltage is relative to the explosion-proof type, details please refer to "Product introduction".
2) For voltage AC, recitifier is integrated with the solenoid, no need for external rectifying.

Specification			03	06	10
Max. working pressure (MPa)	Oil ports A, X		35		
	Oil port B	Extl disch	10		
		intl disch	25		
	Oil port Y		10		
Max. Flow (L/min)			250	500	650
Working fluid			Mineral oil;phosphate-ester		
Fluid temp. (℃)			-20~70		
Viscosity (mm²/s)			15~380		
Working pressure (MPa)			5 10 20 31.5 35		
Working voltage[1] (V)	DC		24		
	AC[2]		127/50Hz 220/50Hz		
Insulation grade			IP55		
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≥75.				

Model instruction

GDYV/ ＊-＊ ＊-＊ ＊-＊＊ / ＊＊＊＊＊ / ＊ / ＊ ＊ 52 ＊

Explosion isolation solenoid relief valve

Omit pilot operated valve
C Pilot operated without main cartridge(not marked diameter)
C Pilot operated with main cartridge(marked diameter)

Specification

Plate connecting type	Pipe connecting type	Screw thread connector
03 DN10	10 DN10	G1/2"orM22x1.5
	15 DN15	G3/4"orM27x2
06 DN20	20 DN20	G1" orM33x2
	25 DN25	G1 1/4"orM42x2
10 DN30	30 DN30	G1 1/2"orM48x2

Omit plate connecting type
G Pipe connecting thread-G screw
G2 Pipe connecting thread-M screw

Working pressure
5 to 5MPa
10 to 10MPa
20 to 20MPa
31.5 to 31.5MPa
35 to 35MPa

A N.C. Normally closed
B N.O. Normally opon

1 Handle
2 Setting screw with outside hexagon and boot cap
3 Handle with lock

Remarks
Serial number
Seal material
Omit NBR Seals
V FPM Seals

Pilot operated drainage port thread
Omit[3] G1/4"
2 M14X1.5

Omit No damping
08 Φ0.8 Damping
10 Φ1.0 Damping
12 Φ1.2 Damping

Omit without emergency push rod
N9 With emergency push rod

Ex d I Mb
Ex d II C T6 Gb
E Ex d IIIC T80°C Db IP65

Working voltage
D24 DC24V
B127 (AC127V Rectified)
B220 (AC220V Rectified)

Omit[4] standard type
U The minimum setting pressure is lower type

Omit intl cntrl intl disch
XY Extl cntrl extl disch
X Extl cntrl intl disch
Y Intl cntrl extl disch

3)damping mounted in chamber B
4)Refer to the curves for the U type characteristics