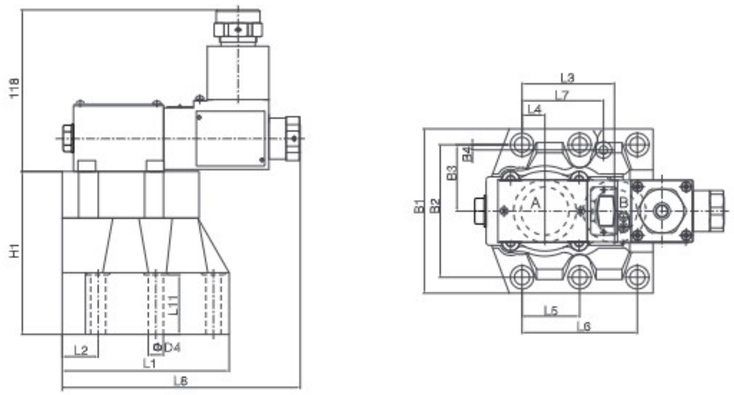
Explosion Isolation Solenoid Check Valve

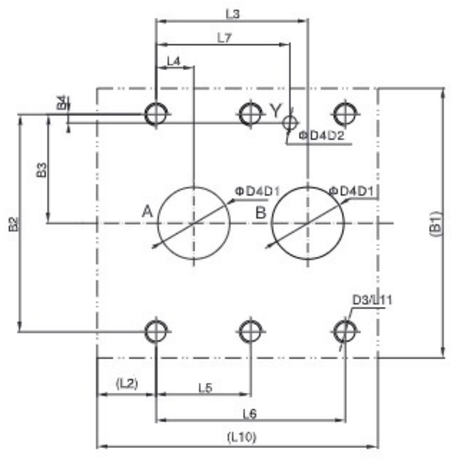
External dimensions



Specification	B1	B2	B3	B4	L1	L2	L3	L4	L5	L6	L7
GDAW-06	102	79.4	39.7	6.4	101	25	49.2	11.1	0	60.3	39.7
GDAW-10	120	96.8	48.4	3.8	122	26.3	67.5	16.7	42.1	84.2	59.5

Specification	L8	L9	L10	L11	L12	D1	D2	D3	D4	H1
GDAW-06	13.8	198	101	23	30	24	6	M10	11	95
GDAW-10	6.8	198	125	24	43.5	32	6	M10	11	119

Subplate size



Specification	Fixing screw	Amount	Tighten torque
GDAW-06	M10x45-10.9	4	75Nm
GDAW-10	M10x60-10.9	6	75Nm

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 Solenoid Directional Control Valve

Technical specification

Specification		02	03
Max. working pressure (MPa)	Oil ports P, A, B	31.5	
	Oil port T	10	
Max. Flow (L/min)		80	120
Working fluid		Mineral oil;phosphate-ester	
Fluid temp. (℃)		-20~70	
Viscosity (Mm^2/s)		2.8~380	
Working voltage (V)		DC	*AC
		24	127, 220
Cycle time (ms)	Open	25~45	10~20
	Close	10~25	15~40
Max.switch frequency (t/h)		15000	7200
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.		

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.

Model instruction

GDFW - * - * - * * * / * * 52 *

Explosion isolation solenoid directional control valve

Specification
02 DN 6
03 D N10

Function code
Details as following symbol table

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

E Ex d I Mb
Ex d II C T6 Gb
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

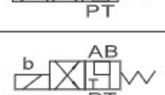
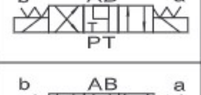
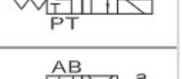
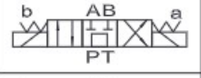
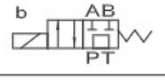
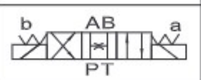
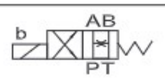
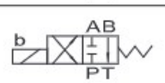
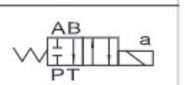
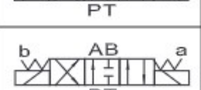
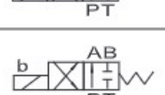
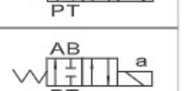
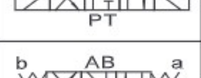
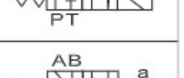
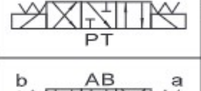
Omit No damping
08 Φ0.8 Damping
10 Φ1.0 Damping
12 Φ1.2 Damping

Notice:The corresponding relation between the working pressure and the types of explosion isolation is specified in the page of "Product Brief".

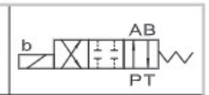
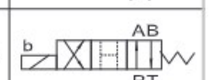
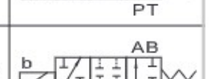
Explosion Isolation Solenoid Directional Control Valve

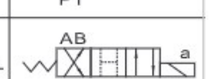
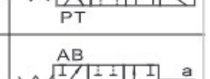
Code symbol

Spring return

3C2		2B2B		2B2BL	
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	
3C29		2B29B		2B29BL	

Note:*D*(No spring return mechanical positioning)solenoid directional control valve should be installed horizontally

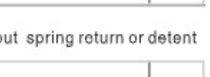
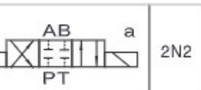
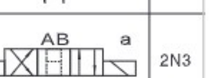
2B2	
2B3	
2B8	

2B2L	
2B3L	
2B8L	

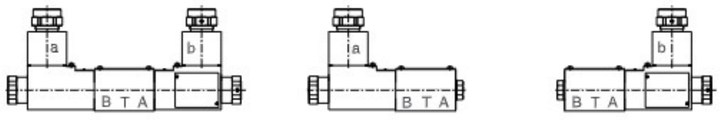
No spring return mechanical positioning

2D2	
2D3	
2D8	

Without spring return or detent

2N2	
2N3	
2N8	

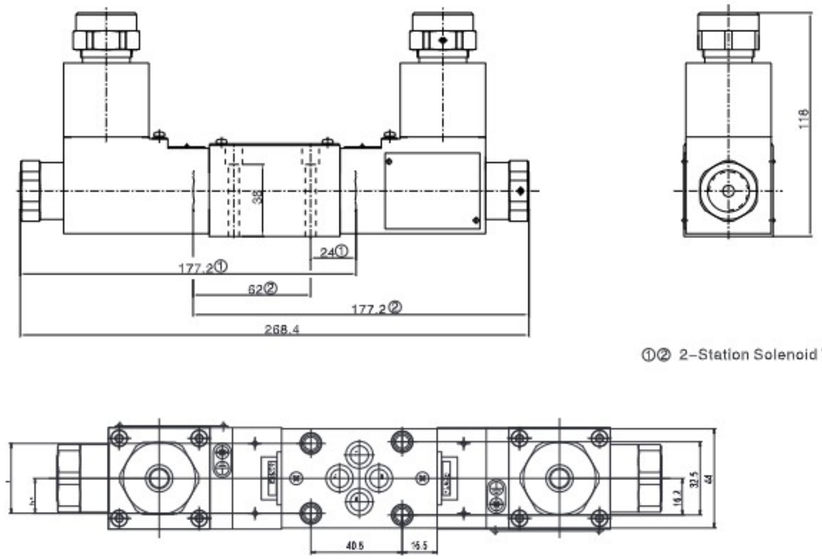
Name of solenoid



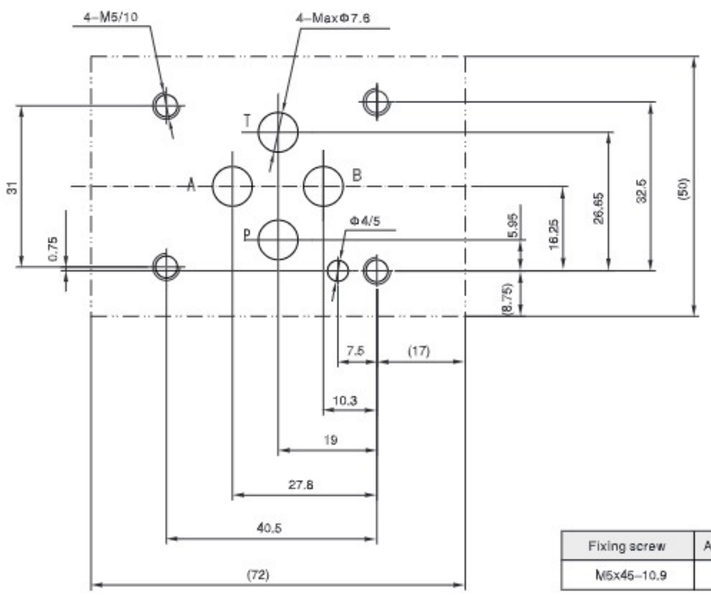
1.When movement a, P→A B → T
2.When movement b, P→B A → T
3.Oil flow in the opposite direction with the above-mentioned movement for 3C5、3C6、3C25

Explosion Isolation Solenoid Directional Control Valve

02 External dimensions



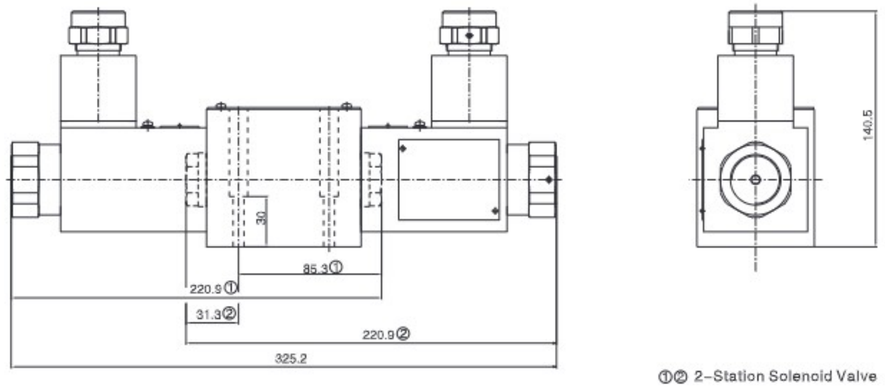
02 Subplate size



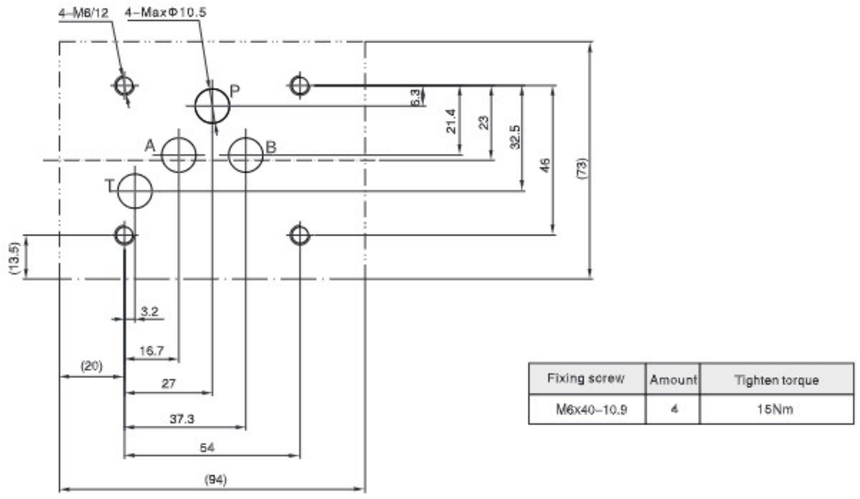
Fixing screw	Amount	Tighten torque
M5x45-10.9	4	9Nm

Explosion Isolation Solenoid Directional Control Valve

03 External dimensions



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