

Explosion Isolation Solenoid Unloading Valve

Technical specification



Specification		03	06	10
Max. working pressure (MPa)	Oil ports P, A	31.5		
	Oil port T	Extl disch	10	
		intl disch	25	
	Oil port Y	10		
Max. Flow (L/min)	10%	40	80	120
	17%	60	120	240
Working fluid		Mineral oil; phosphate-ester		
Fluid temp. (°C)		-20~70		
Viscosity (mm ² /s)		15~380		
Working pressure (MPa)		5	10	20
			31.5	
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.			

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

Model instruction

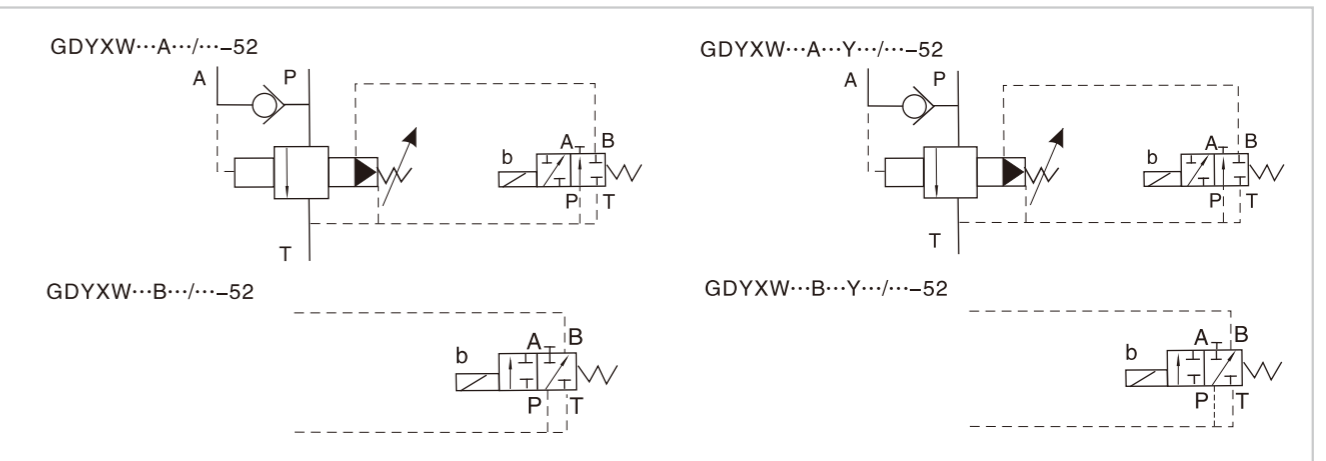
GDYXW * - * - * * - * * / * * * * / * * * 52 *

Explosion isolation solenoid unloading valve	Remarks
Omit pilot operated valve	Serial number
C Pilot operated without main cartridge(not marked diameter)	Seal material
C Pilot operated with main cartridge(marked diameter)	Omit NBR Seals
	V FPM Seals
Specification	Pilot operated drainage port thread
03 DN10	Omit G1/4"
06 DN25	2 M14X1.5
10 DN30	Omit ⁽³⁾ No damping
	08 Φ0.8 Damping
Working pressure	10 Φ1.0 Damping
5 to 5MPa	12 Φ1.2 Damping
10 to 10MPa	Omit without emergency push rod
20 to 20MPa	N9 With emergency push rod
31.5 to 31.5MPa	Ex d I Mb
	Ex d II C T6 Gb
A N.C. Normally closed	E Ex d IIIC T80°C Db IP65
B N.O. Normally open	Working voltage
	D24 DC24V
1 Handle	B127 (AC127V Rectified)
2 Setting screw with outside hexagon and boot cap	B220 (AC220V Rectified)
Omit Inti cntrl intl disch	Switch pressure drop
Y Intl cntrl extl disch	10 Ares ratio 10%
	17 Ares ratio 17%

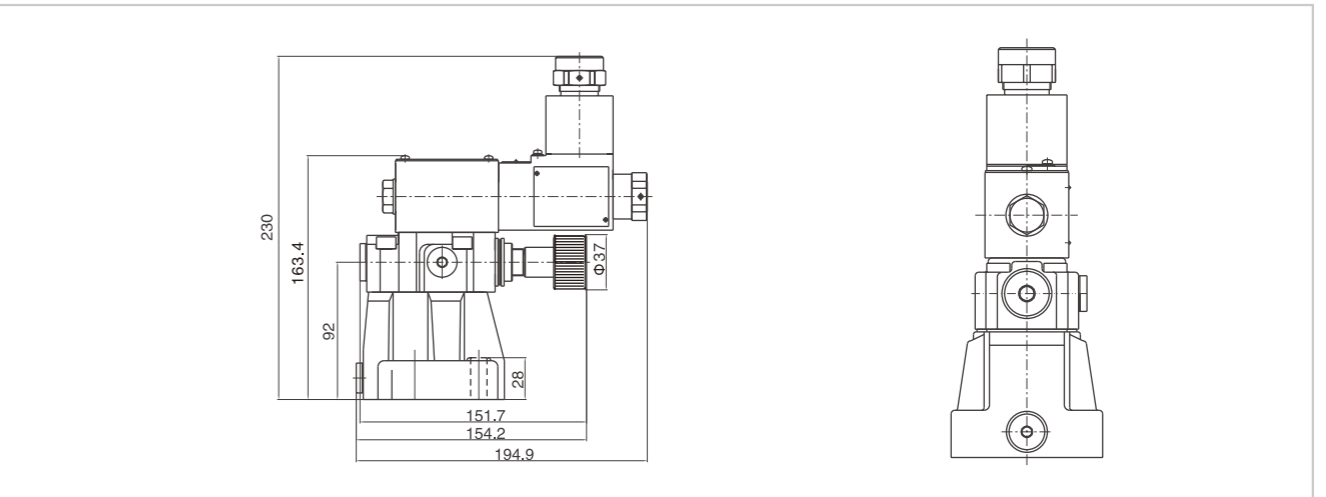
3) damping mounted in chamber P

Explosion Isolation Solenoid Unloading Valve

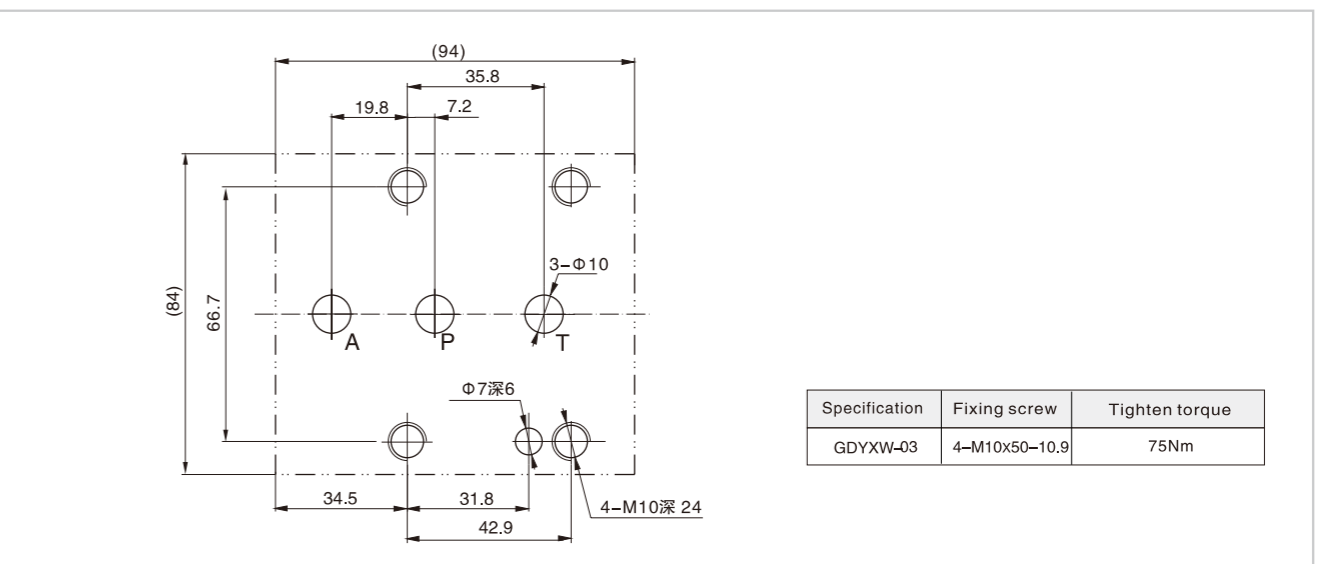
Code symbol



03 External dimensions

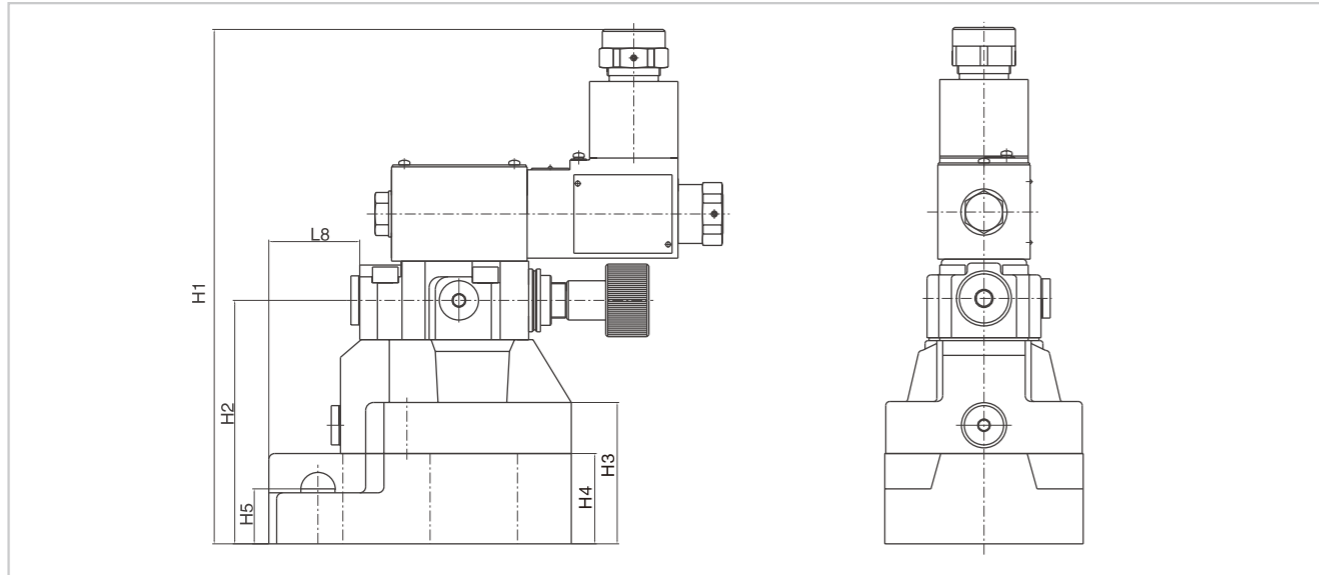


03Subplate size

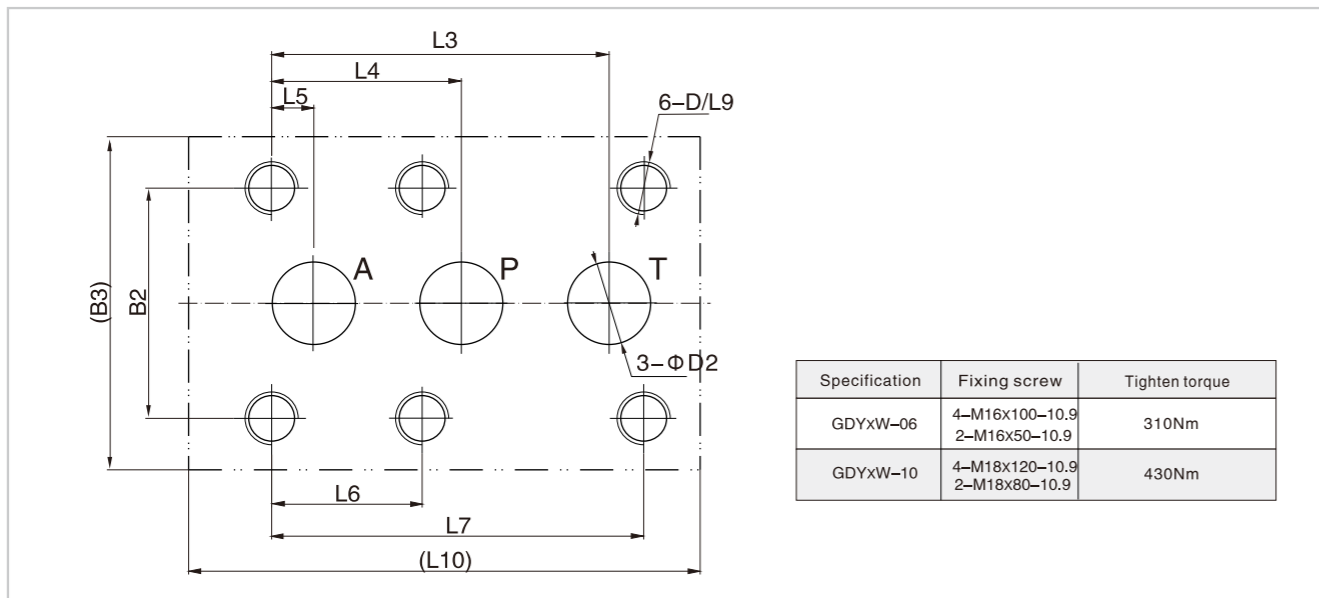


Explosion Isolation Solenoid Unloading Valve

06/10 External dimensions



06/10 Subplate size



Specification	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
GDYXW-06	154	25	101.6	57.1	12.7	46	112.7	48.2	34	156	253.4
GDYXW-10	199	42	127	63.5	12.7	50.8	139.7	69.8	37	201	275

Specification	B1	B2	B3	H1	H2	H3	H4	H5	D	D1	D2
GDYXW-06	101	69.9	103	144	124	72	46	28	M16	18	25
GDYXW-10	118.5	82.5	118.5	165	145	93	67	45	M18	20	32

- When installing the product, consider horizontal position firstly.
- The medium used in the hydraulic system must be filtered. its accuracy at least should be 20 μm.
- Screw should be according to the parameters of catalogue.
- The surface, connecting with the valve, should be Ra0.8 roughness, and 0.01/100mm flatness.

Explosion Isolation Proportional Directional Control Valve

Technical specification



Specification		02	03
Max. working pressure (MPa)	Oil port P, A, B	31.5	
	Oil port T	10	
Working fluid		Mineral oil; phosphate-ester	
Fluid temp. (°C)		-20~70	
Viscosity (mm ² /s)		2.8~380	
Hysteresis (%)		≤ 5	≤ 6
Repeatability (%)		< 2	
Working voltage (V)		DC24	
Rated current (mA)		750	1500
Coil resistance (Ω)		19.5	10
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

GDBFW - * - * - * - * * * / * - 52 *

Specification	02	03	Remarks
Explosion isolation proportional directional control valve			
02 DN 06			Serial number
03 DN 10			Seal material Omit NBR Seals V FPM Seals
Code symbol			Omit without emergency push rod N9 With emergency push rod
flow ¹⁾			Ex d I Mb Ex d II C T6 Gb E Ex d III C T80°C Db IP65
07 7L/min	30	30L/min	
15 15L/min	60	60L/min	
30 30L/min			
Please refer to specific flow curve in the proportional valve catalogue.			
Working voltage	D24 DC24V		

Code symbol

For functional symbol 3C2(1) and 3C40(1)
 P → A: Q_{vmax} B → T: Q_{vmax}/2 P → B: Q_{vmax}/2 A → T: Q_{vmax}
 Spool type 3C40 and 2B40B when in central position, there is a flowing area from port A to the T and B to T approx. 3% of the rated value.