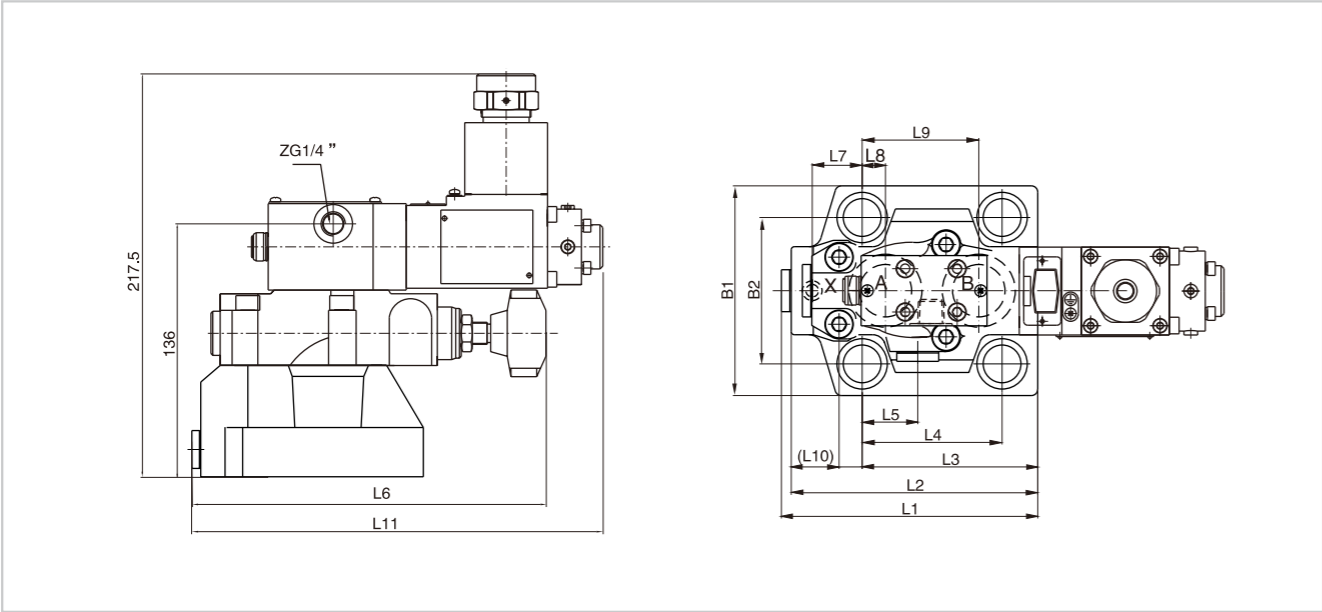
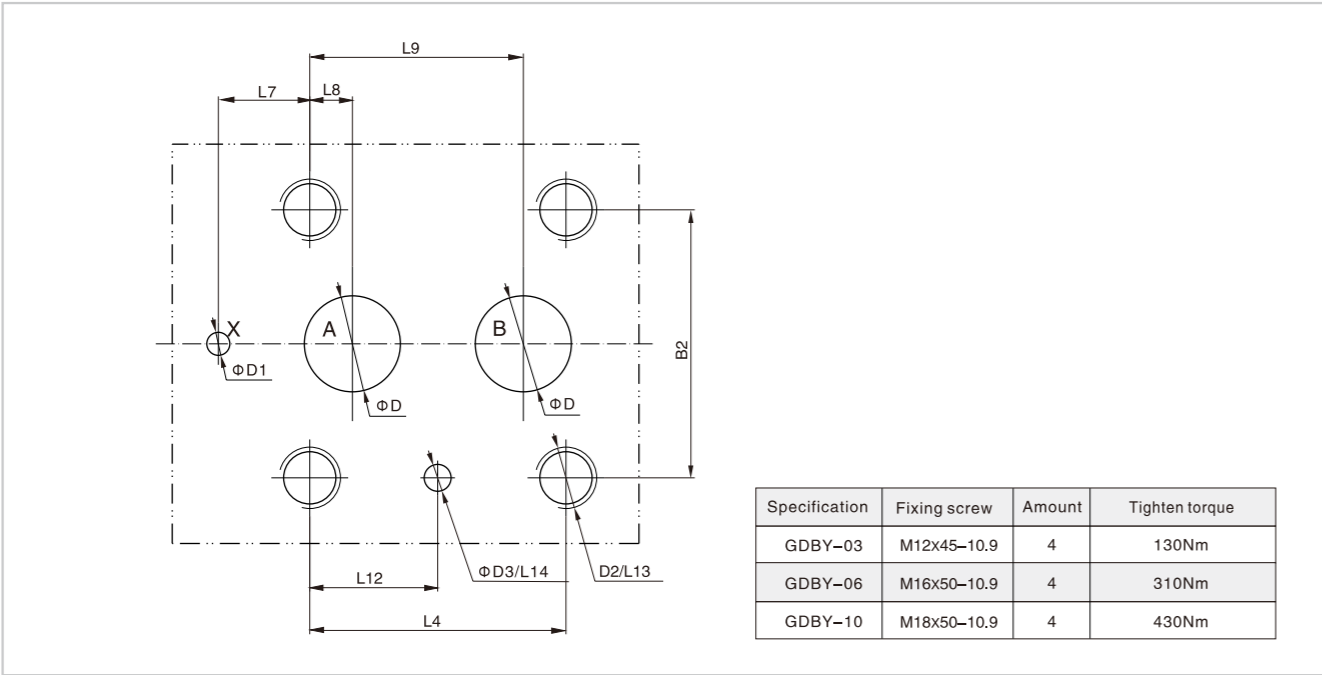


Explosion Isolation Proportional Pilot-operated Relief Valve

External dimensions



Subplate size



Specification	B1	B2	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	D	D1	D2	D3
GDBY-03	80	54	101	96	67	54	32.4	177	0	22.1	47.5	14	218.1	22.1	20	6	12	6	M12	7
GDBY-06	100	69.8	122.2	117.5	83.7	66.7	35.4	189.5	23.8	11.1	55.6	11	230.6	33.3	25	6	25	6	M16	7
GDBY-10	115	82.5	154.5	149.5	106.9	88.9	37	200.2	31.8	12.7	76.2	9.4	241.3	44.4	30	6	32	6	M18	7

- 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 Pilot-Operated Pressure-reducing Valve

Technical specification



Specification		03	06
Max. working pressure (MPa)	Oil ports A, B	25	
	Oil ports Y	0 Mpa return to oil tank	
Working pressure (Mpa)		7	16 25
Max. Flow (L/min)		80	200
Working fluid		Mineral oil; phosphate-ester	
Fluid temp. (°C)		-20~70	
Viscosity (mm²/s)		15~380	
Hysteresis (%)		± 2	
Repeatability (%)		± 2.5	
Linearity (%)		± 4	
Working voltage (V)		DC24	
Rated current (mA)		750	
Coil resistance (Ω)		19.5	
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.		

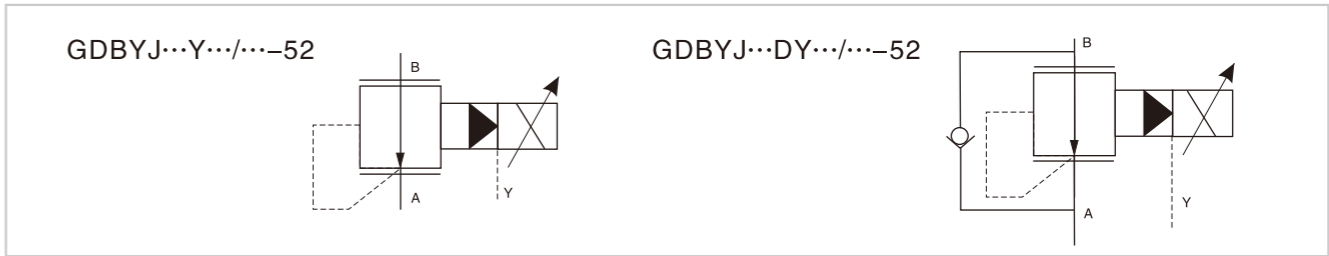
Model instruction

GDBYJ * - * - * * * * * / * * - 52 *

Explosion isolation proportional pilot-operated pressure-reducing valve		Remarks
Omit ¹⁾ limit max.pressure		Serial number
M With limit max.pressure		
Specification		Seal material
03 DN10		Omit NBR Seals
06 DN20		V FPM Seals
Working pressure		Pilot operated drainage port thread
7 to 7MPa		Omit ZG1/4"
16 to 16MPa		Ex d I Mb
25 to 25MPa		Ex d II C T6 Gb
Omit without check valve		E Ex d IIIC T80°C Db IP65
D with check valve		Working voltage
Y intl cntrl extl disch		D24 DC24V

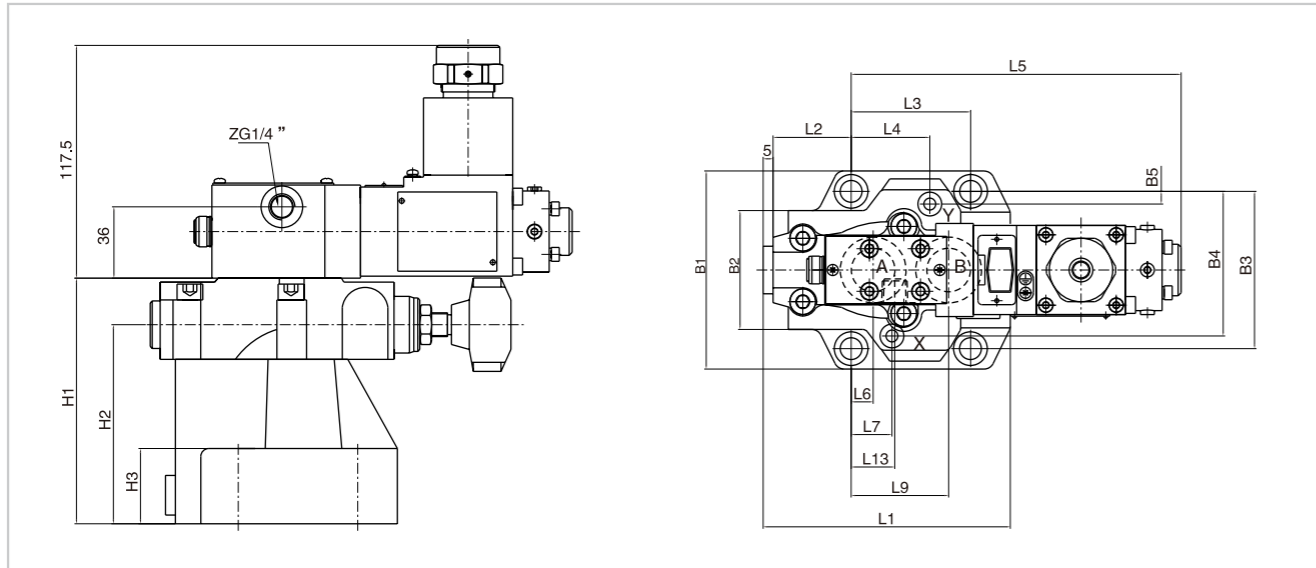
Notice: 1) Only with limited max. Pressure, available from stock

Code symbol

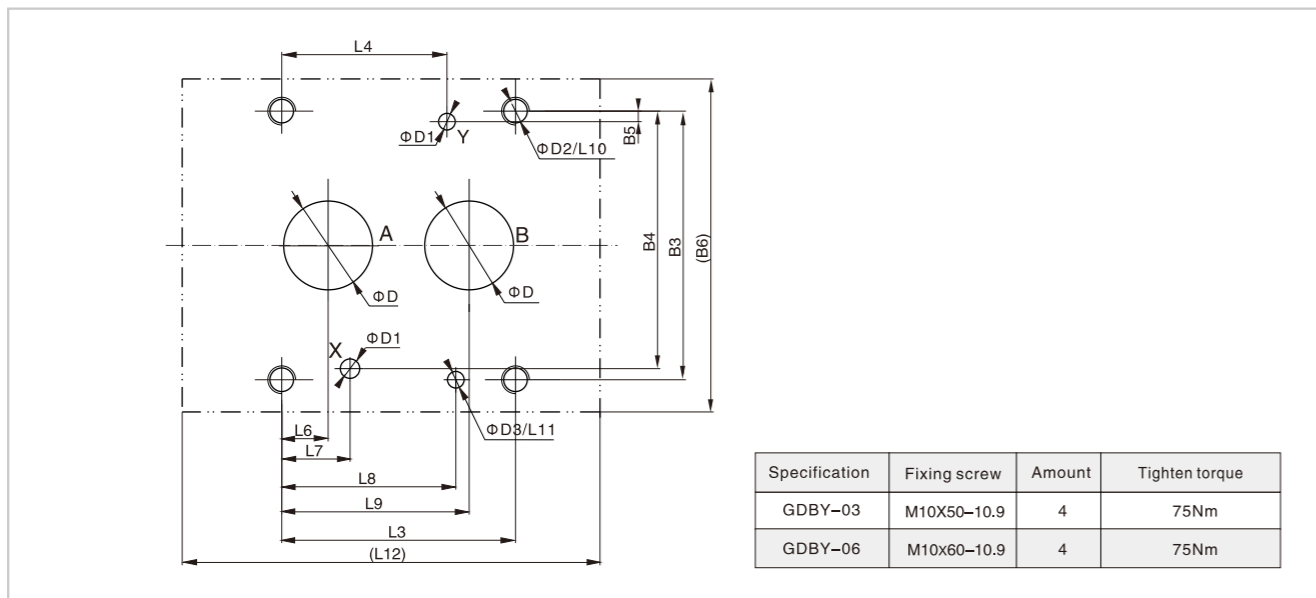


Explosion Isolation Proportional Pilot-Operated Pressure-reducing Valve

External dimensions



Subplate size



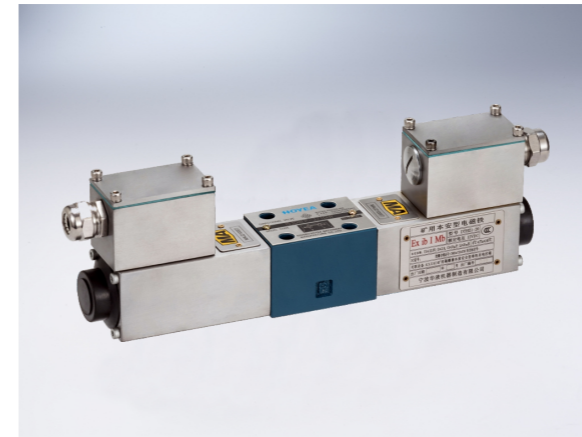
Specification	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13
GDBYJ-03	100.5	35.5	42.9	21.5	182.5	7.2	21.5	31.8	35.8	23	6	98	25.8
GDBYJ-06	124	39.4	60.3	39.7	178.7	11.1	20.6	44.5	49.2	24	6	118	22

Specification	B1	B2	B3	B4	B5	B6	H1	H2	H3	D	D1	D2	D3
GDBYJ-03	85	50	66.7	58.8	7.9	87	113	89.5	28	12	6	M10	7
GDBYJ-06	102	59.5	79.4	73	6.4	104	124	100.5	38	25	6	M10	7

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 be 20 μm.
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.

Intrinsic safety 3-way proportional reducing valve for mining

Technical parameter



- Direct acting pressure control
- Suit for explosive or flammable atmosphere
- Intrinsic safety solenoid for mining
- Solenoid as perEx ib I Mb
- IP class IP65

Technical parameter (Please consult us if your application is out of the rated technical range)

Model	IS3DREP-3-20HY	
Mounting	Free, recommended for horizontal installing	
Storage temperature	(°C)	+ 5~ + 40
Working temperature	(°C)	-20~ + 50
Weight	(kg)	Type A,B, 1.5, type C2

Hydraulic parameter

Max working pressure	(Mpa)	P	Pressure rating40 5-10
		T	0-3
Max flow rate	(L/min)	4(ΔP=5MPa)	
Working fluid	Mineral hydraulic oil, phosphate		
Fluid temp range	(°C)	+5~+50	
Viscosity range	(mm ² /s)	20~380	
Hysteresis	(%)	≤3%	
Repeatability	(%)	≤1%	
Sensibility	(%)	≤1%	
Minimum fluid cleanliness	Maximum permissible degree of pressure fluid contamination to NAS 1638 to class 9 recommended filter β ₁₀ ≥75.		