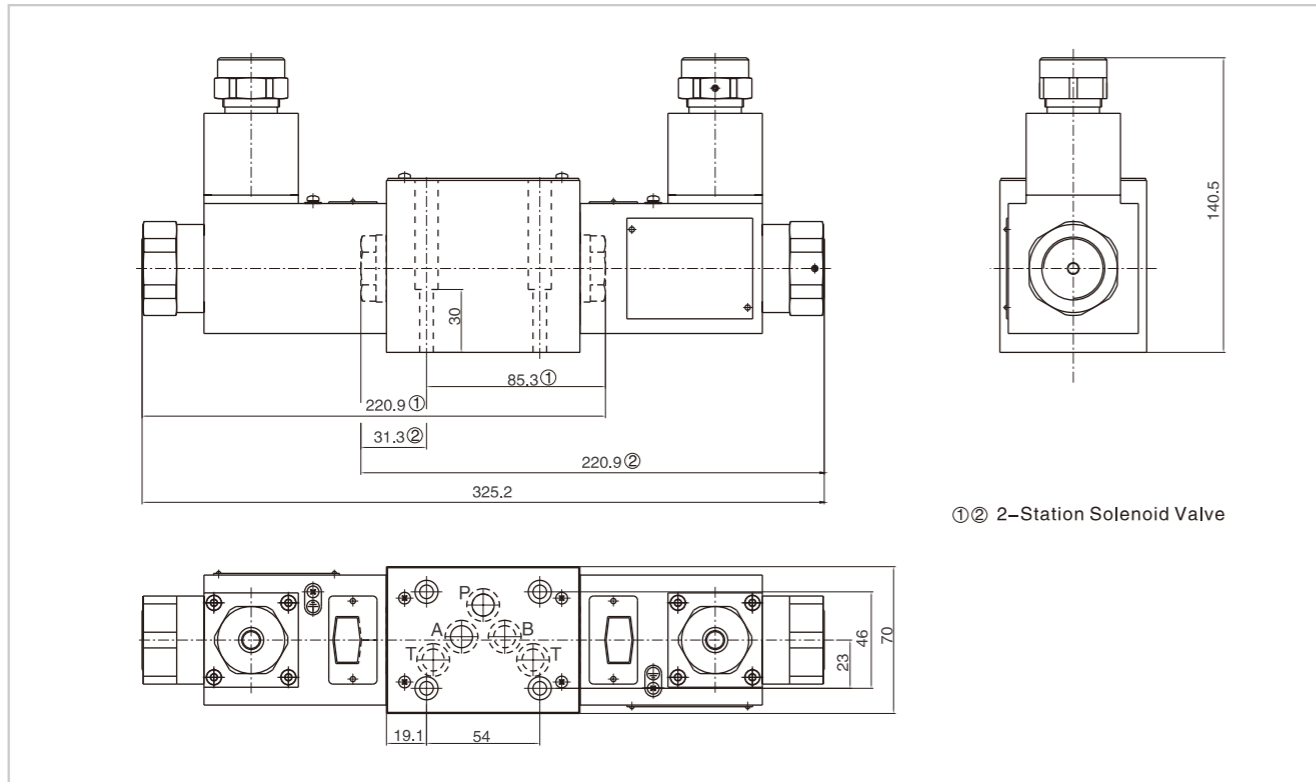


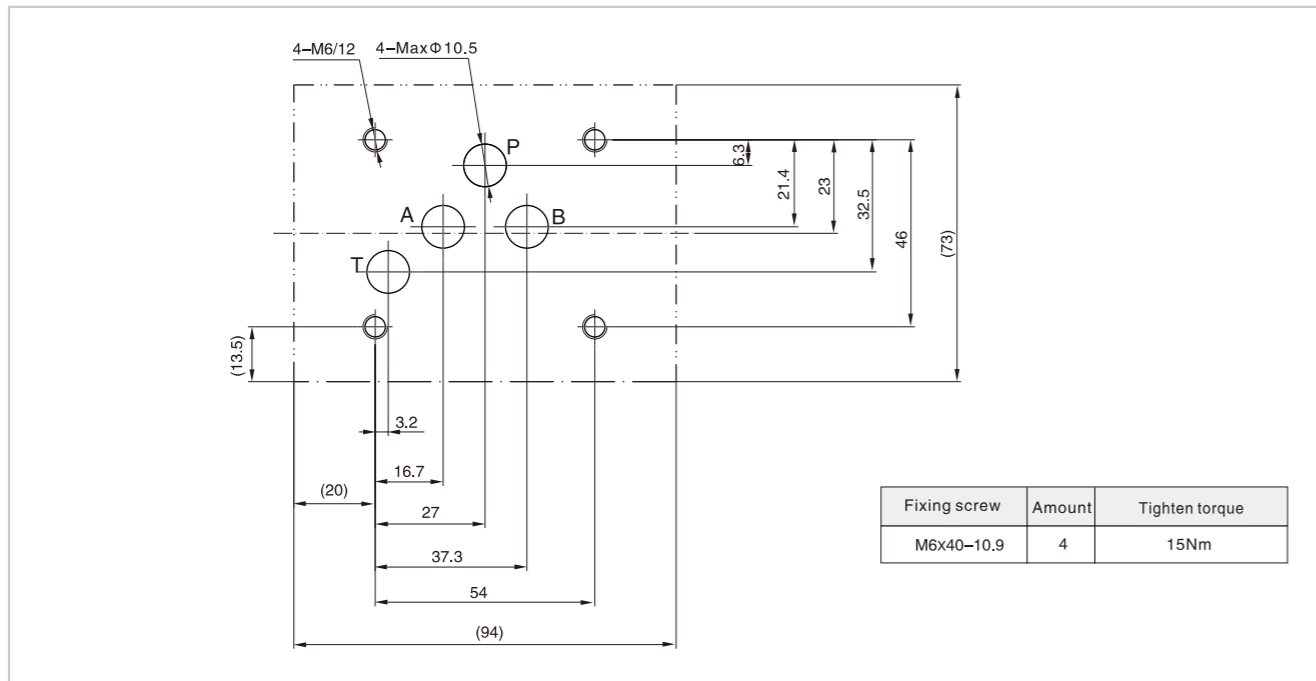
## Explosion Isolation Solenoid Directional Control Valve

### 03 External dimensions



K.3.4

### 03 Subplate size



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  $20\ \mu\text{m}$ .
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, rectifier 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	
	Oil port T	Pilot oil drain, Y external	10							
		Pilot oil 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.	(°C)	-20~70								
Viscosity	(mm <sup>2</sup> /s)	2.8~380								
Working voltage <sup>1)</sup> (V)	DC	24								
	AC <sup>2)</sup>	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 $\beta_{10} \geq 75$ .									

K.4.1

### Model instruction

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

Working pressure	Remarks
Omit 28MPa	Serial number
H 35MPa	Seal material
Explosion isolation electro-hydraulic directional control valve	Omit NBR Seals
Specification	V FPM Seals
02 DN6	Omit NO reducing valve
03 DN10	
06 DN25	Omit <sup>4)</sup> NO prepressing valve
10 DN32	P4.5 With prepressing valve
Main valve return type <sup>3)</sup>	Omit No stroke adjusting device
Omit spring return	A end position valve with stroke adjustment
H hydraulic centration	B of main valve with stroke adjustment
Function code, details as following symbol table	W Both heads with stroke adjustment
Working voltage	Omit No shifting time adjustment
D24 DC24V	With shifting time adjustment: Inlet flow control
B127 (AC127V Rectified)	With shifting time adjustment: Outlet flow control
B220 (AC220V Rectified)	Omit No damping
Ex d I Mb	08 $\Phi 0.8$ Damping
Ex d II C T6 Gb	10 $\Phi 1.0$ Damping
Ex d IIIC T80°C Db IP65	12 $\Phi 1.2$ Damping
Omit without push rod emergency	Omit intl cntrl intl disch
N9 with concealed push rod emergency	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

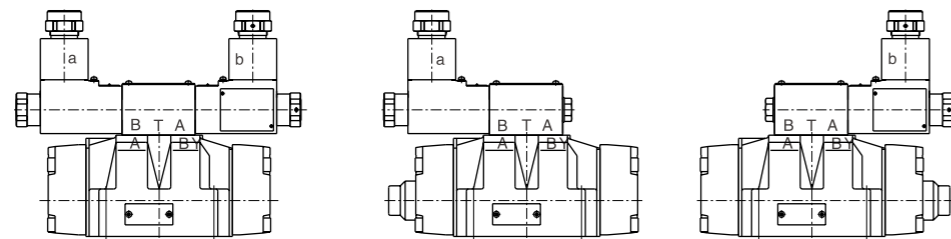
# Explosion Isolation Electro-hydraulic Directional Control Valve

## Code symbol

Spring return

3C2		2B2B		2B2BL		2B2	
3C3		2B3B		2B3BL		2B3	
3C4		2B4B		2B4BL		2B8	
3C5		2B5B		2B5BL		2B2L	
3C6		2B6B		2B6BL		2B3L	
3C7		2B7B		2B7BL		2B8L	
3C9		2B9B		2B9BL			
3C10		2B10B		2B10BL			
3C11		2B11B		2B11BL			
3C12		2B12B		2B12BL			
3C25		2B25B		2B25BL			
3C29		2B29B		2B29BL			

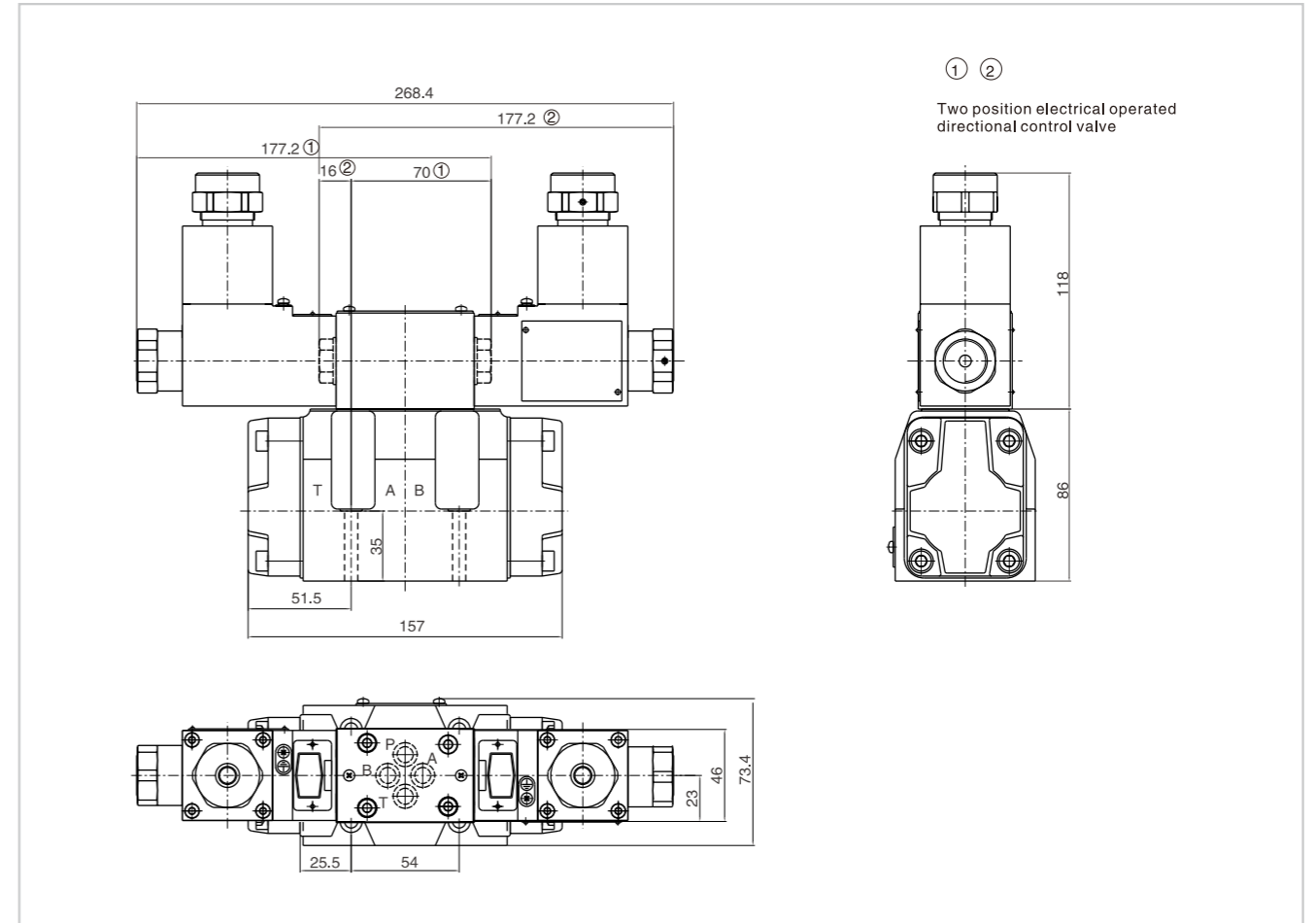
Name of solenoid



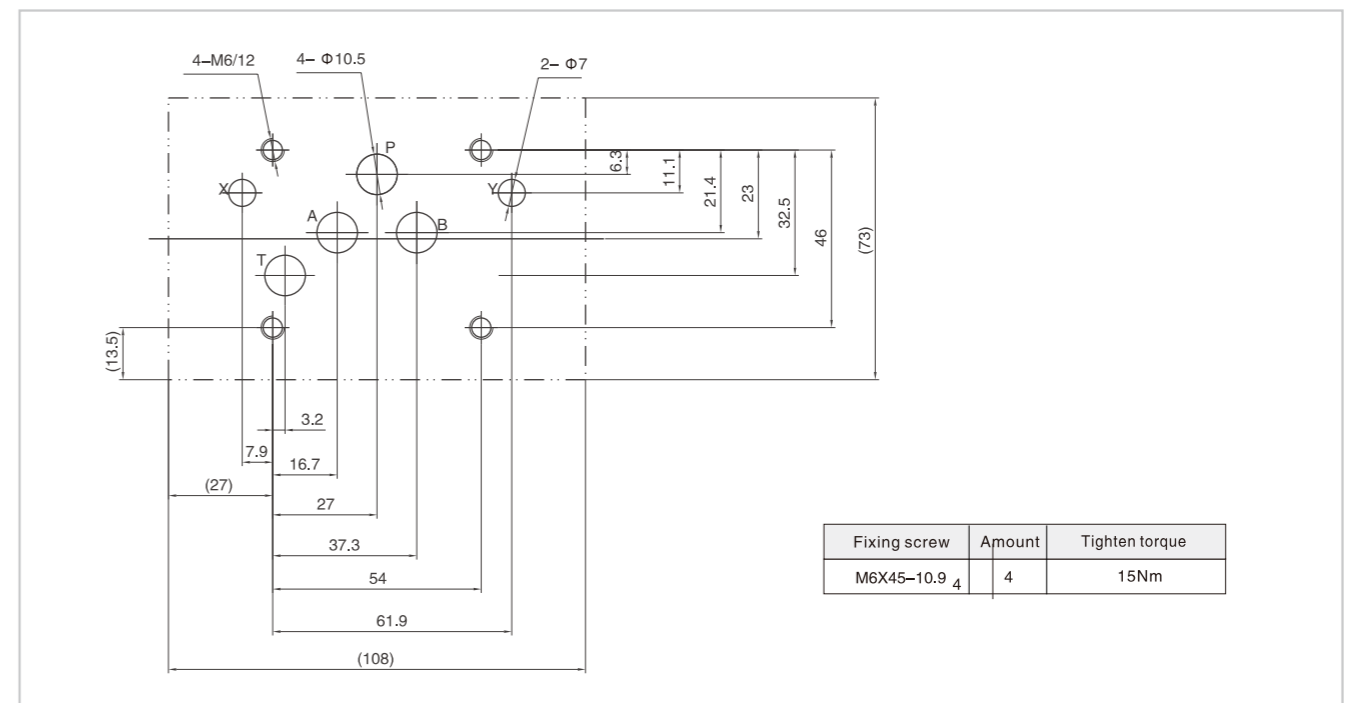
1. When movement a, P → A B → T
2. When movement b, P → B A → T
3. Oil flow in the opposite direction with the above-mentioned movement for 3C5, 3C6, 3C25

# Explosion Isolation Electro-hydraulic Directional Control Valve

## 03 External dimensions

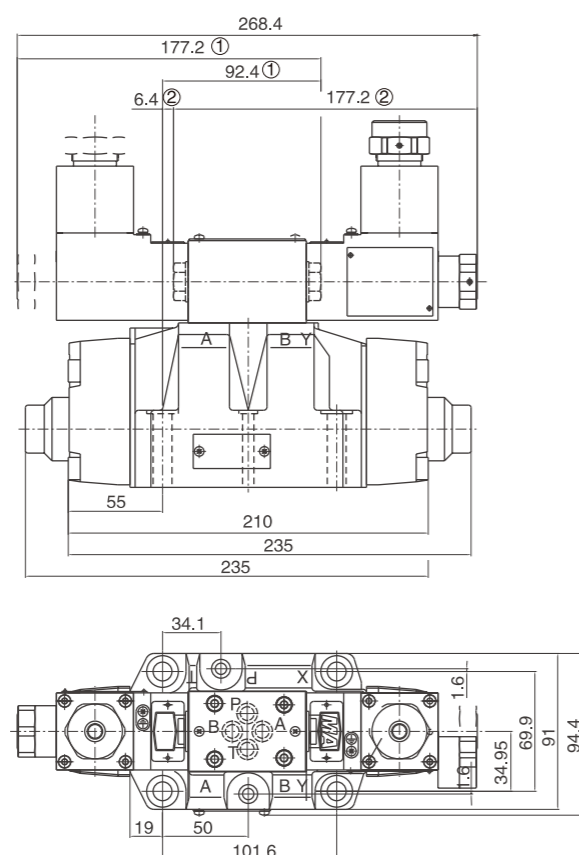


## 03 Subplate size



## Explosion Isolation Electro-hydraulic Directional Control Valve

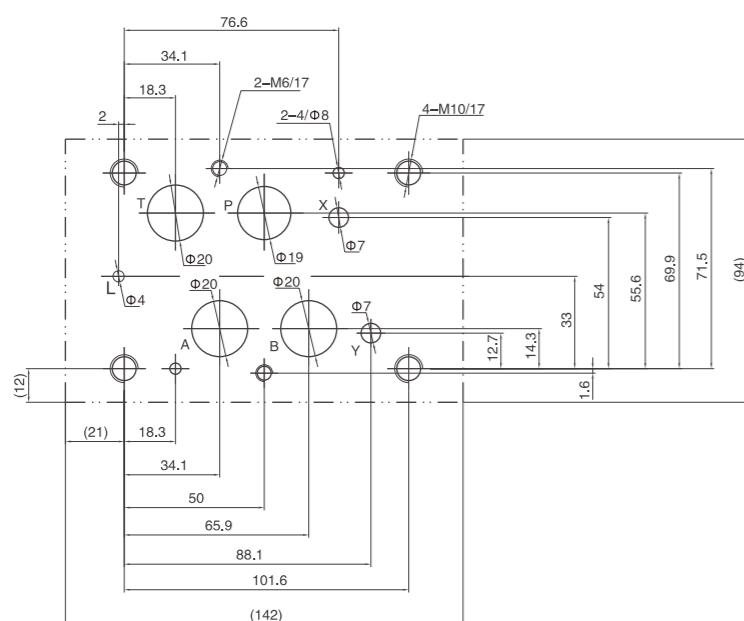
### 04 External dimensions



①②  
Two position electrical operated directional control valve

K.4.4

### 04 Subplate size

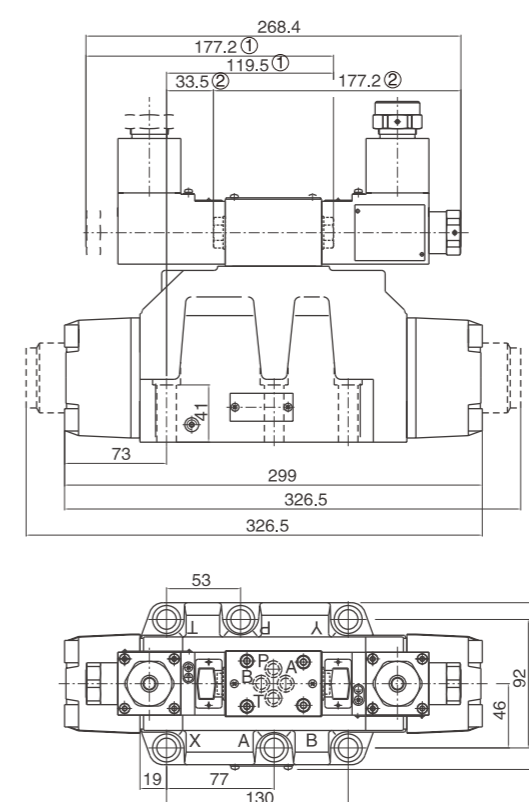


Notice: Port L only exists on the valve of hydraulic center.

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

## Explosion Isolation Electro-hydraulic Directional Control Valve

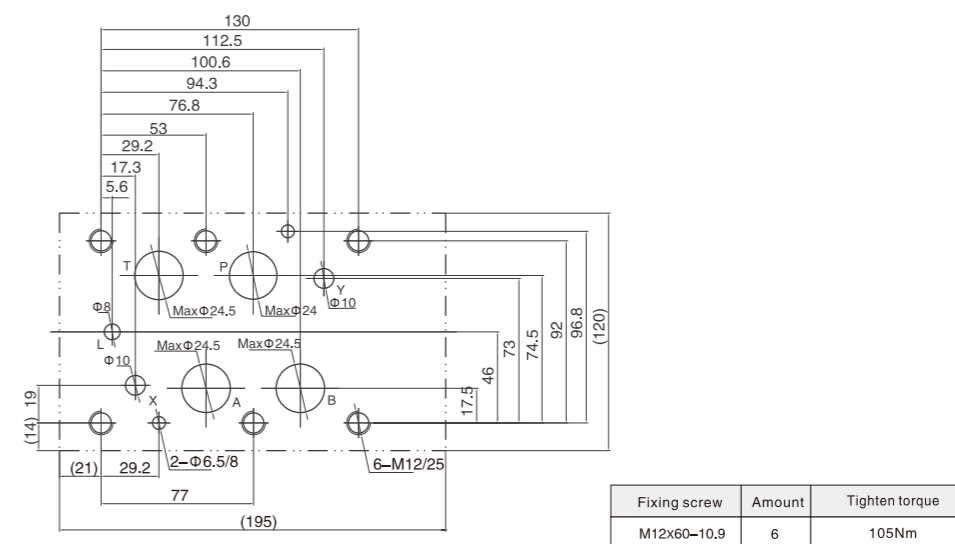
### 06 External dimensions



①②  
Two position electrical operated directional control valve

K.4.5

### 06 Subplate size



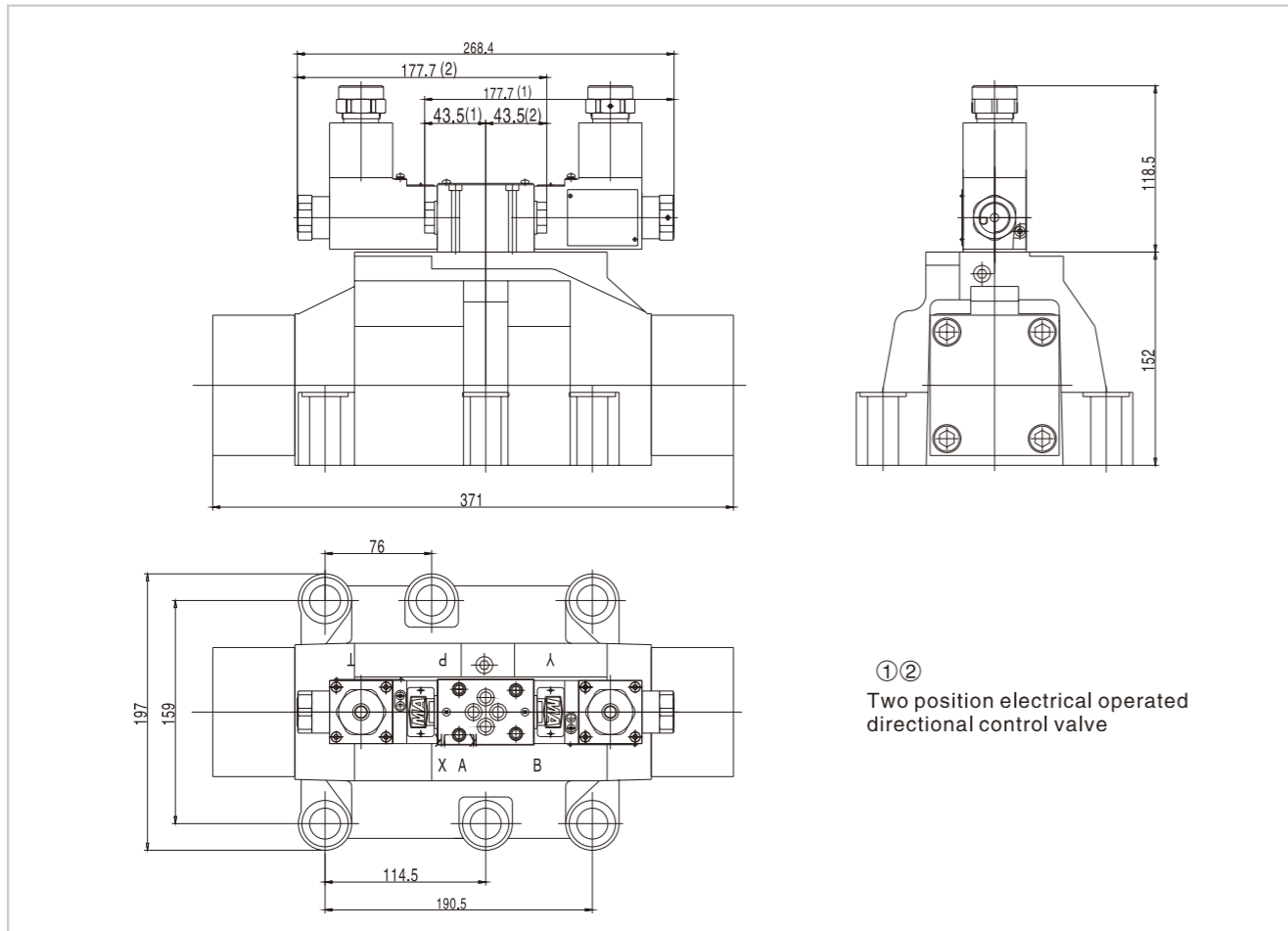
Notice: Port L only exists on the hydraulic center type valve.

Fixing screw	Amount	Tighten torque
M12x60-10.9	6	105Nm

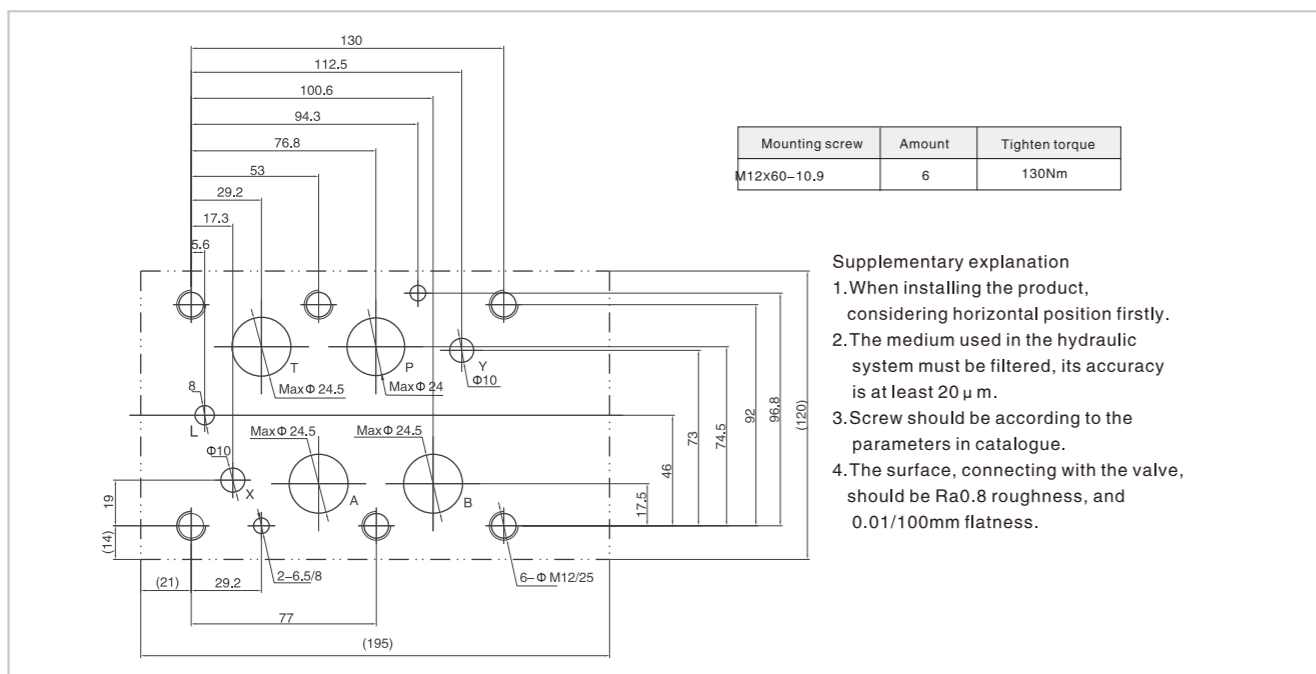
1. When installing the product, consider horizontal position firstly.
2. The medium used in the hydraulic system must be filtered. its accuracy at least should be  $20 \mu m$ .
3. Screw should be according to the parameters of catalogue.
4. The surface, connecting with the valve, should be Ra0.8 roughness,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

# Explosion Isolation Electro-hydraulic Directional Control Valve

## 10 External dimensions



## 10 Subplate size



# Explosion Isolation Solenoid Relief Valve

## Technical specification



- 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.

Specification	03	06	10		
Max. working pressure (MPa)	Oil ports A, X	35			
	Oil port B	Extrl disch	10		
		intl disch	25		
	Oil port Y	10			
Max. Flow (L/min)	250	500	650		
Working fluid	Mineral oil;phosphate-ester				
Fluid temp. (°C)	-20~70				
Viscosity (mm <sup>2</sup> /s)	15~380				
Working pressure (MPa)	5	10	20	31.5	35
	10	20	31.5	35	
Working voltage <sup>1)</sup> (V)	DC	24			
	AC <sup>2)</sup>	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

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)

Plate connecting type	Pipe connecting type	Screw thread connector
03 DN10	10 DN10	G1/2" or M22x1.5
	15 DN15	G3/4" or M27x2
06 DN20	20 DN20	G1" or M33x2
	25 DN25	G1 1/4" or M42x2
10 DN30	30 DN30	G1 1/2" or M48x2

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 open

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

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

GDYW \*-\* \*-\* \*-\* \* / \* \* \* / \* \* \* 52 \*

Remarks  
 Serial number  
 Seal material  
 Omit NBR Seals  
 V FPM Seals  
 Pilot operated drainage port thread  
 Omit<sup>1)</sup> 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<sup>1)</sup> standard type  
 U The minimum setting pressure is lower type  
 Omit intl cntrl intl disch  
 XY Extrl cntrl extl disch  
 X Extrl cntrl intl disch  
 Y Intl cntrl extl disch