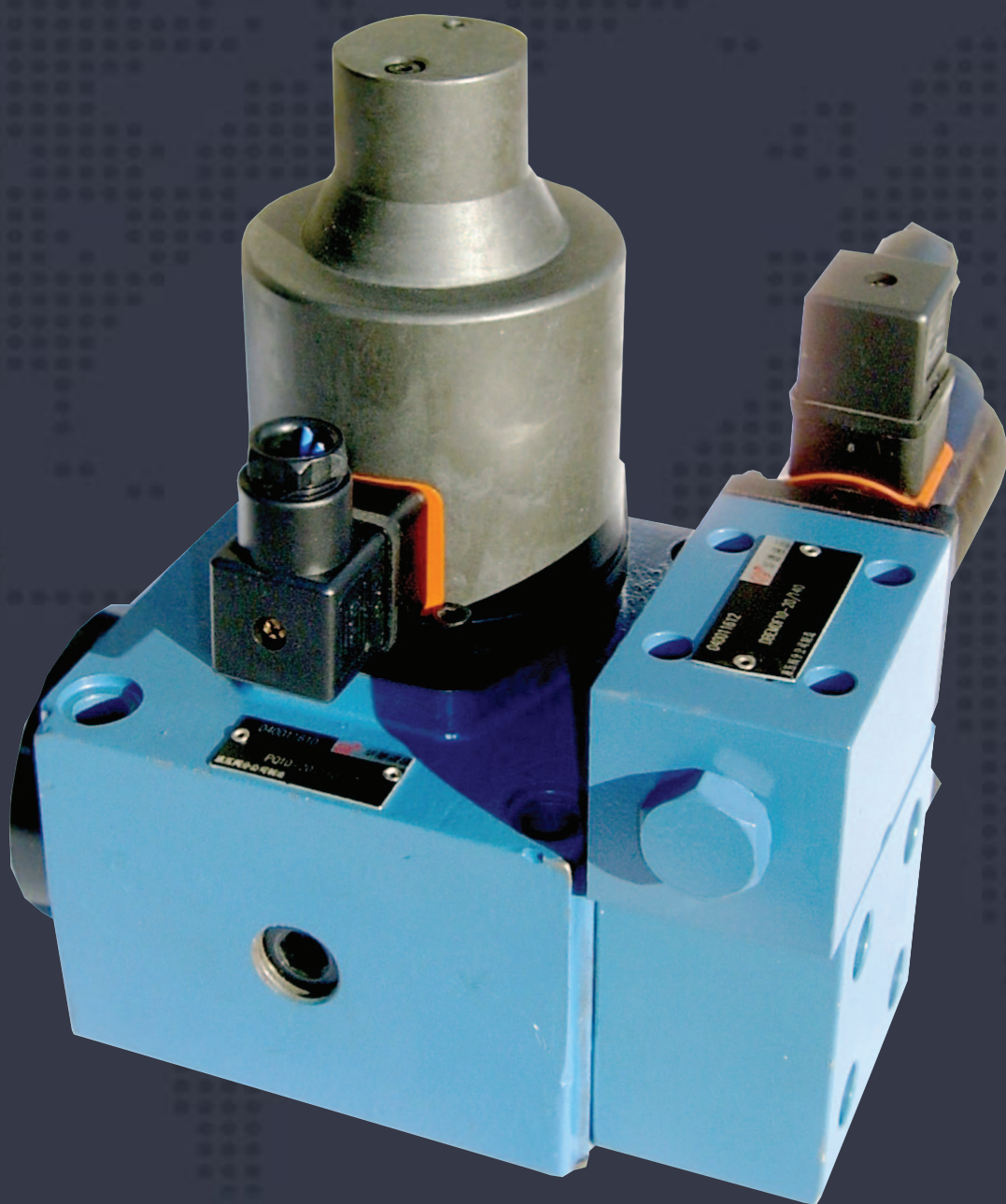




Catálogo de Productos

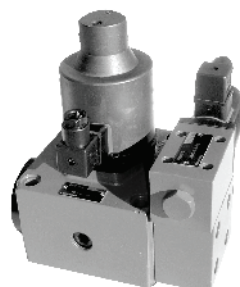


Proportional Electro-Hydraulic Relief and Flow Control Valves, Type
PQ10-20/140-125

BEIJING HUADE HYDRAULIC INDUSTRIAL GROUP CO.,LTD.	Proportional Electro-Hydraulic Relief and Flow Control Valves, Type PQ10-20/140-125			RE 24750/06.2004
	Size 10	up to 14 MPa	up to 125 L/min	Replaces:

Features:

- For subplate mounting
- Protected by high voltage
- Output flows scale by input elec-messages
- System Pressure could achieve the changes to scale

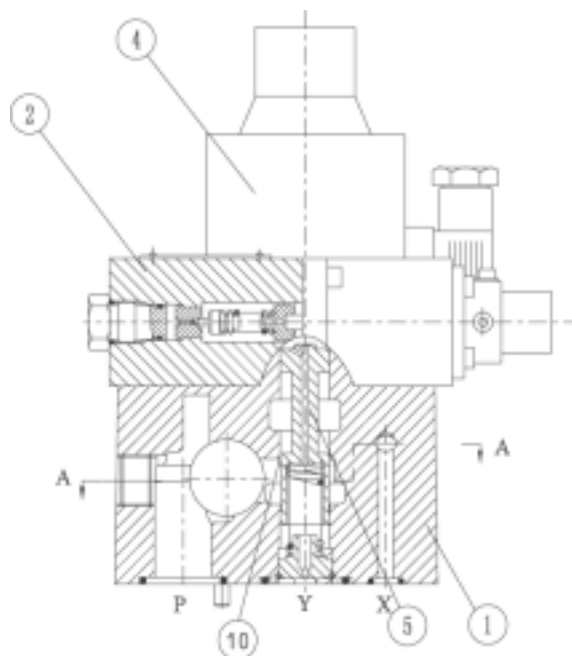


Function, section;Symbol

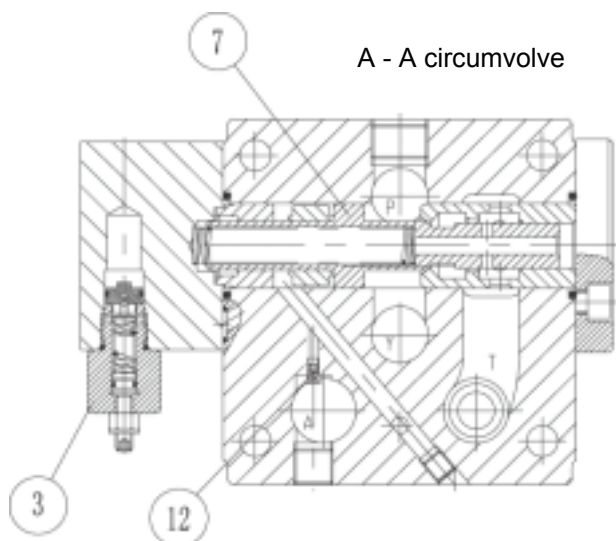
This pressure and flow control valve is an energy-saving valve that can adjust the pressure and flow of system proportional to electrical sign.

Since the valves controls the pump pressure by following the load pressure while keeping the differential pressure minimized, it serves as a low power-consumption energy-saving, meter-in, controlled flow control valve.

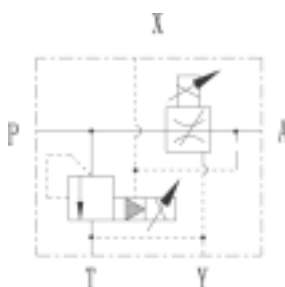
Further, since a temperature compensation function is incorporated, this valve provides consistent flow control without respect to the fluid temperature.



A - A circumscribe



Symbol:



Ordering details

PQ	10	—	20	B	/	140	125		*
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Proportional Electro-Hydraulic pressure and Flow Control Valves

Nominal size 10 = 10

20 = Series 20 to 29
(20 to 29: unchanged installation and connection dimensions)

Technology of Beijing Huade Hydraulic =B

Further details in clear text

No code = NBR seals
V = FPM seals

125 = Max. Flow 125 L/min

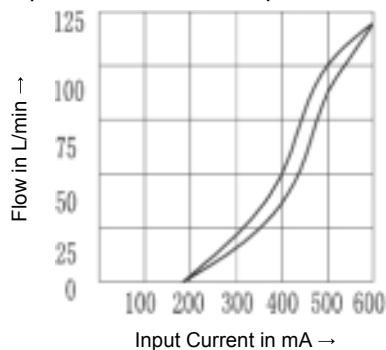
140 = Pressure stage 140

Technical data (for applications outside these parameters, please consult us!)

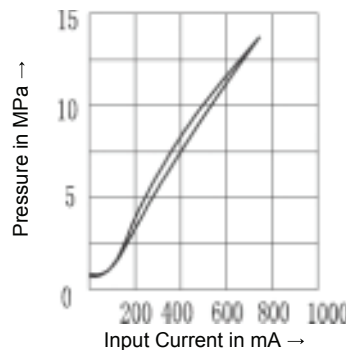
Pressure fluid		Mineral oil(for NBR seal), Phosphate ester (for FPM seal)
Pressure fluid temperature range (°C)		- 30 to + 80 (with NBR seals) - 20 to + 80 (with FKM seals)
Viscosity range (mm²/s)		2.8 to 500
Degree of contamination		Maximum permissible degree of contamination of the pressure fluid is to NAS 1638 class 9. We, therefore, recommend a filter with a minimum retention rate of $\beta_{10} \geq 75$.
Max. operating pressure (MPa)		to 14
Max. flow (L/min)		to 125
Pressure fluid flow range (L/min)		1 ~ 125
Flow Controls	Rated Current (L/min)	680
	Coil Resisistance (Ω)	43.5
	Differential Pressure (MPa)	0.6
	Hysteresis	7%
	Repeatably	1%
Pressure Controls	Pressure Adjust Range (MPa)	0.8 ~ 14
	Rated Current	710
	Coil Resisistance (Ω)	10
	Hysteresis	3%
	Repeatably	1%
Weight (Kg)		16

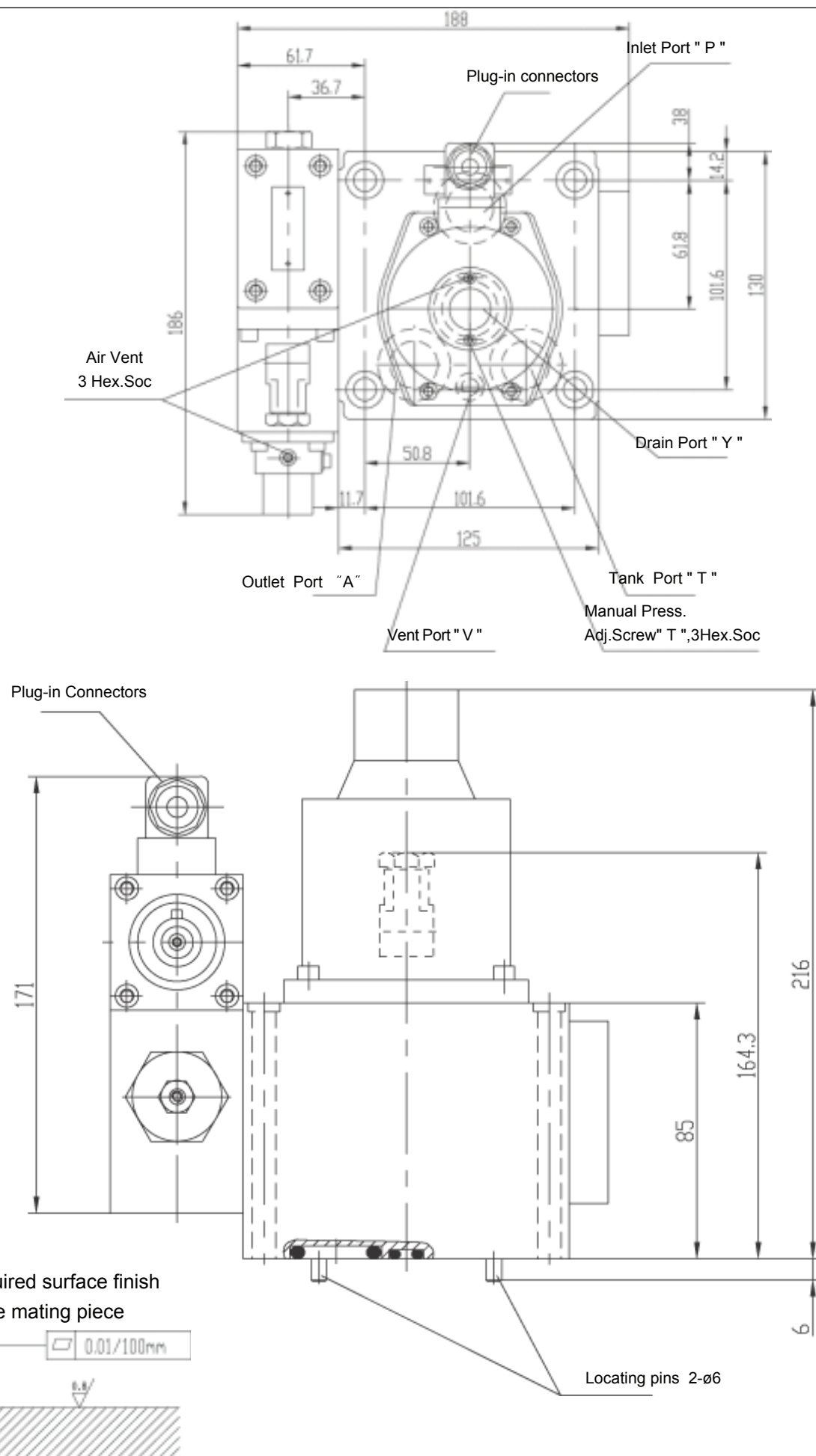
Operating Curves (measured at $v = 41 \times 10^{-6} \text{m}^2/\text{S}$ $t = 50^\circ\text{C}$)

Relationship of the flow to the input current



Relationship of the pressure to the input current

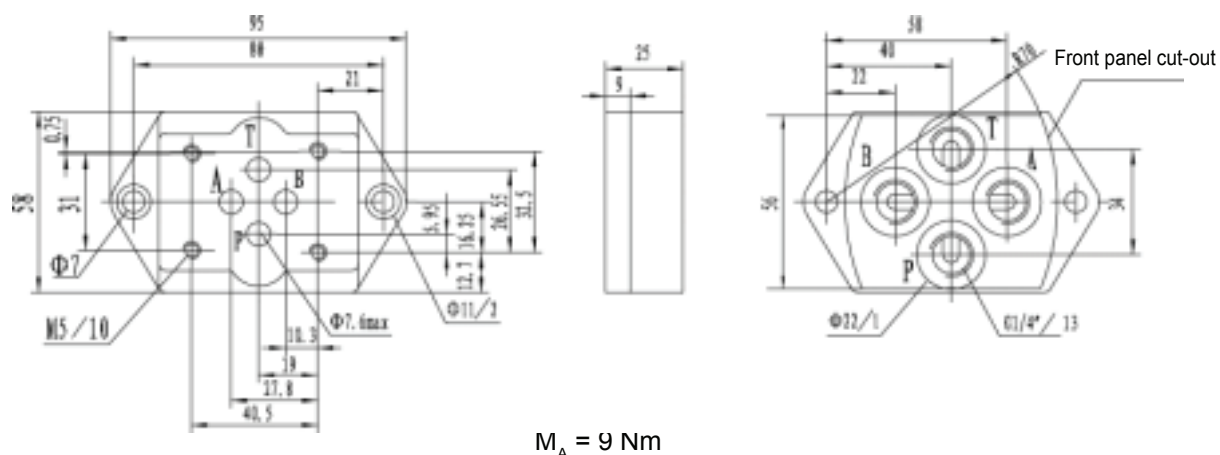




Subplates

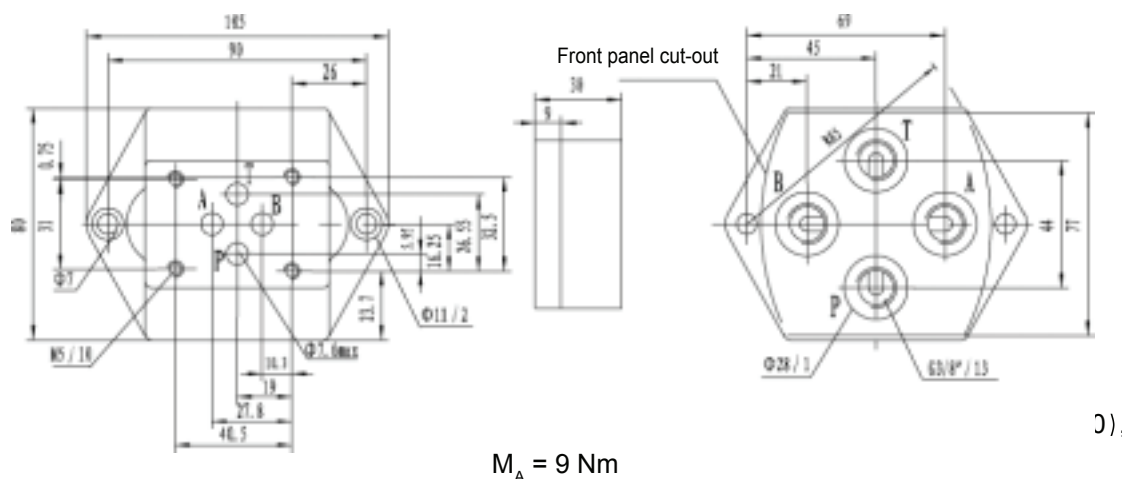
G341/01 (G1/4") G341/02 (M14x1.5) Weight $\approx 0.6\text{kg}$

(Dimensions in mm)



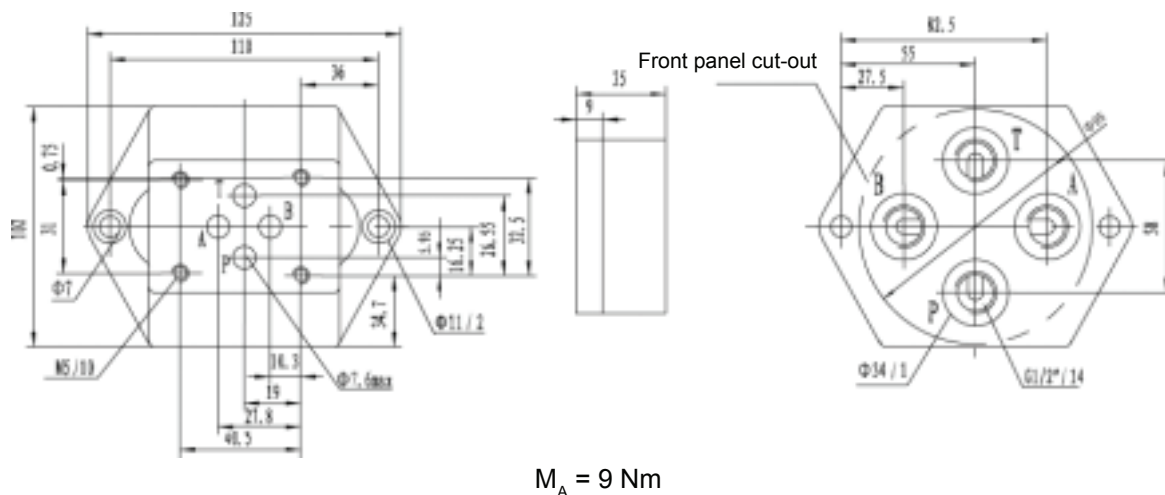
G342/01 (G3/8") G342/02 (M18x1.5) Weight $\approx 1.1\text{kg}$

(Dimensions in mm)

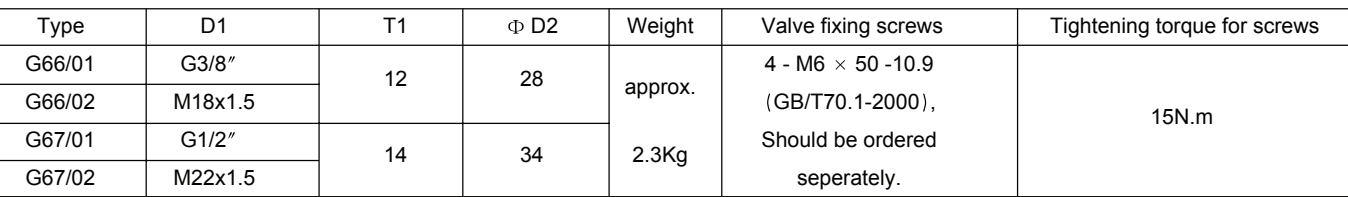


G502/01 (G1/2") G502/02 (M22x1.5) Weight $\approx 1.9\text{kg}$

(Dimensions in mm)



G66/01	G66/02	G67/01	G67/02	(Dimensions in mm)
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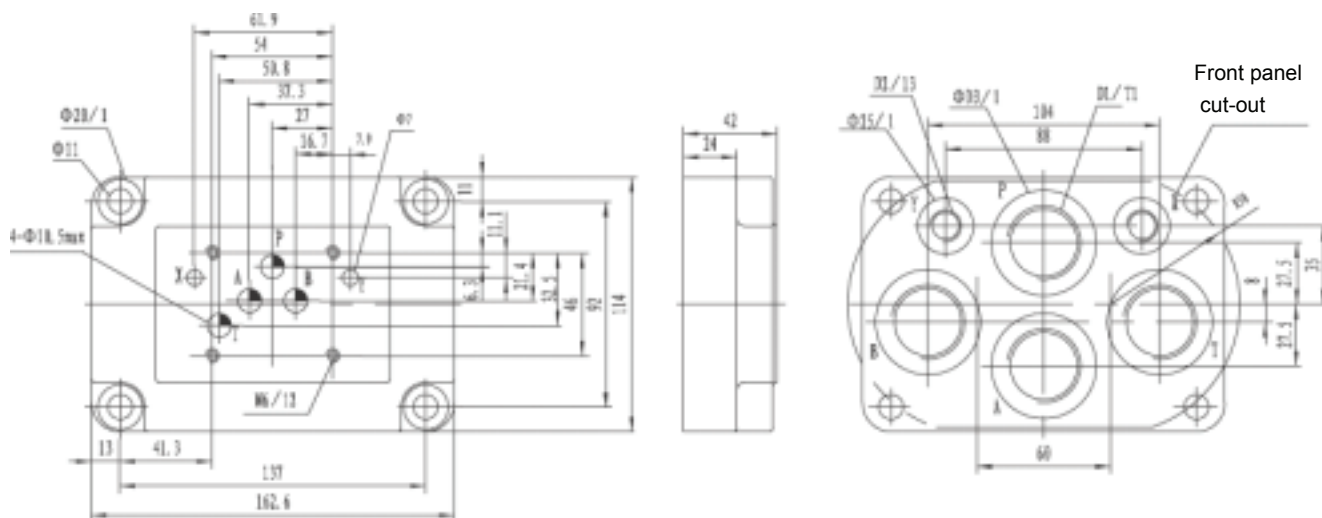


Type	D1	T1	Φ D2	Weight	Valve fixing screws	Tightening torque for screws
G534/01	G3/4"	17	42	approx.	4 - M6 × 50-10.9 (GB/T70.1-2000),	15N.m
G534/02	M27x2			2.5Kg	Should be ordered seperately.	

Subplates

G535/01 G535/02 G536/01 G536/02

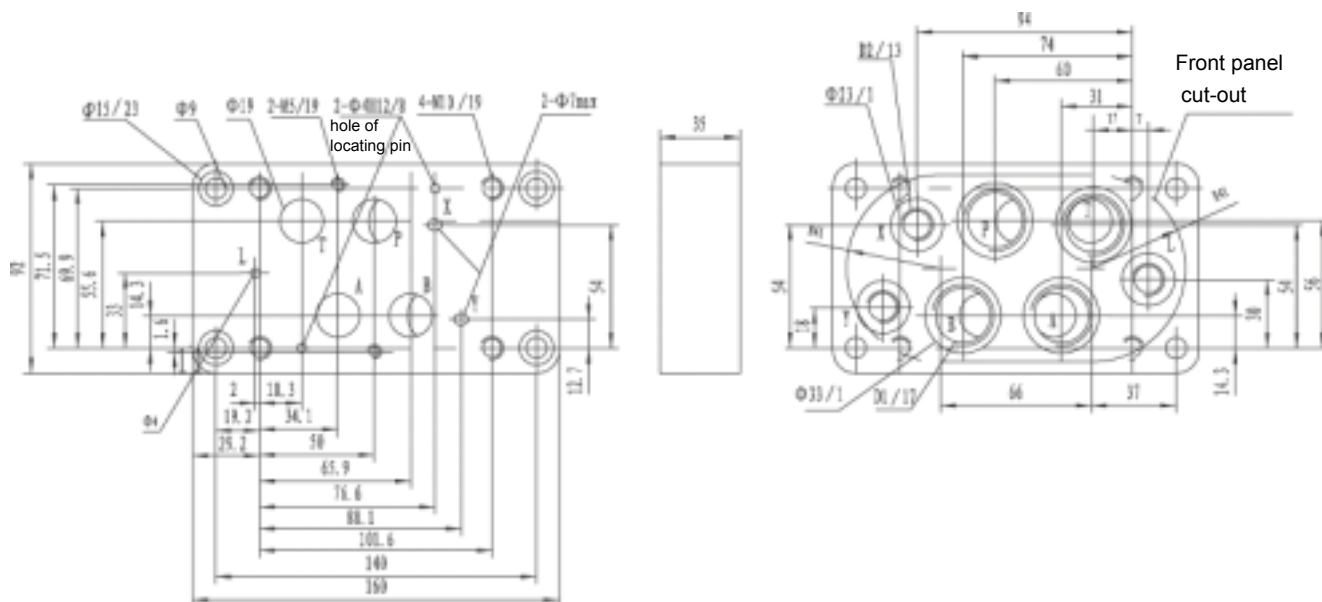
(Dimensions in mm)



Type	D1	T1	D2	φ D3	Weight	Valve fixing screws	Tightening torque for screws
G535/01	G3/4"	16	G1/4"	42	approx. 3.6Kg	4 - M6 × 45 -10.9 (GB/T70.1-2000) Should be ordered seperately.	15N.m
G535/02	M27x2		M14x1.5				
G536/01	G1"	18	G1/4"	47			
G536/02	M33x2		M14x1.5				

G172/01 G172/02

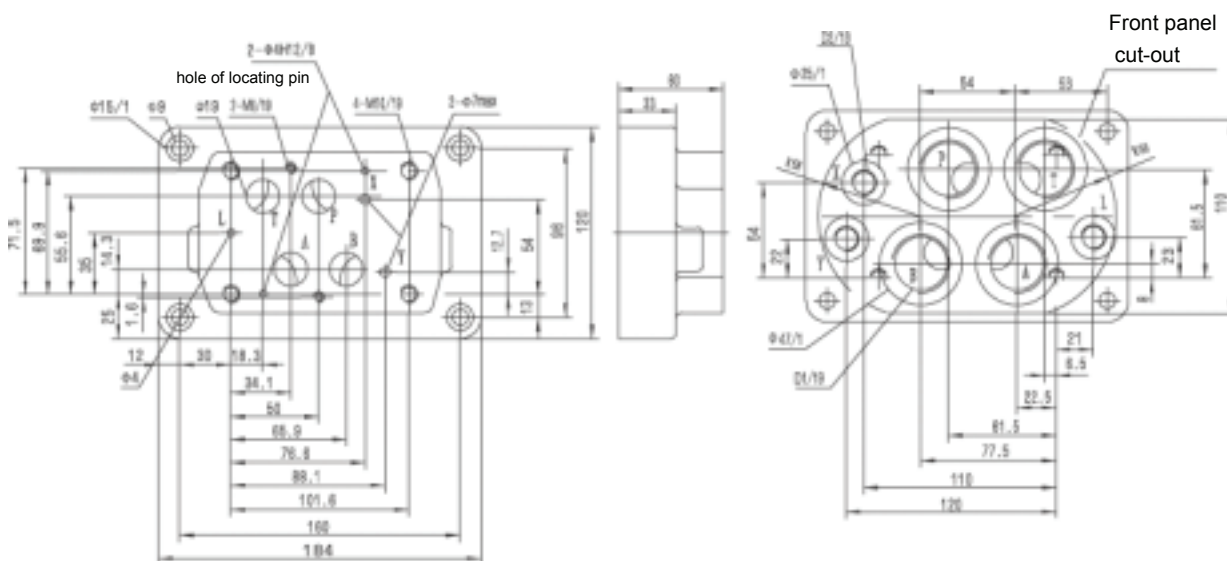
(Dimensions in mm)



Type	D1	D2	Weight	Valve fixing screws	Tightening torque for screws
G172/01	G3/4"	G1/4"	approx.	4 - M10 × 60 -10.9 (GB/T70.1-2000), Should be ordered separately.	62N.m
G172/02	M27x2	M14x1.5	2.8kg	2 - M6 × 60 --10.9 (GB/T70.1-2000), Should be ordered separately.	12.5N.m

G174/01 G174/02

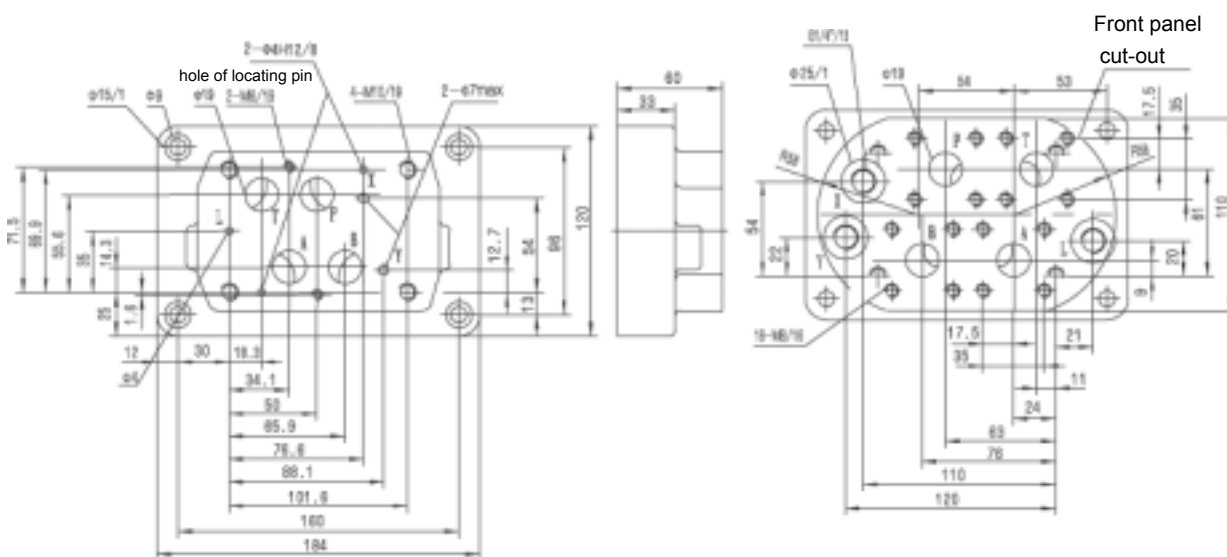
(Dimensions in mm)



Type	D1	D2	Weight	Valve fixing screws	Tightening torque for screws
G174/01	G1"	G1/4"	approx.	4 - M10 × 60-10.9 (GB/T70.1-2000), Should be ordered separately.	62N.m
G174/02	M33x2	M14x1.5	5.5kg	2 - M6 × 60-10.9 (GB/T70.1-2000), Should be ordered separately.	12.5N.m

G174/08

(Dimensions in mm)

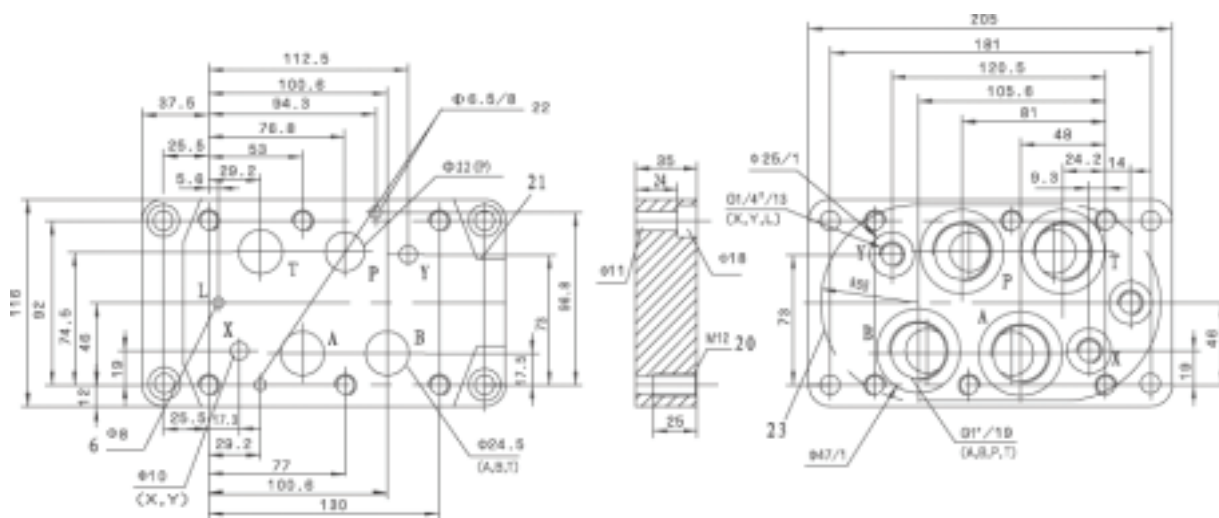


Type	Pressure	Type	Weight	Valve fixing screws	Tightening torque for screws
G174/08	25MPa	009 271	approx.	4 - M10 × 60-10.9 (GB/T70.1-2000),Should be ordered seperately.	62N.m
	40MPa	009 272	5.5kg	2 - M6 × 60-10.9 (GB/T70.1-2000),Should be ordered seperately.	12.5N.m

Subplates

G151/01(G1'')G151/02(M33x2):G153/01(G1'') G153/02(M33x2)

(Dimensions in mm)



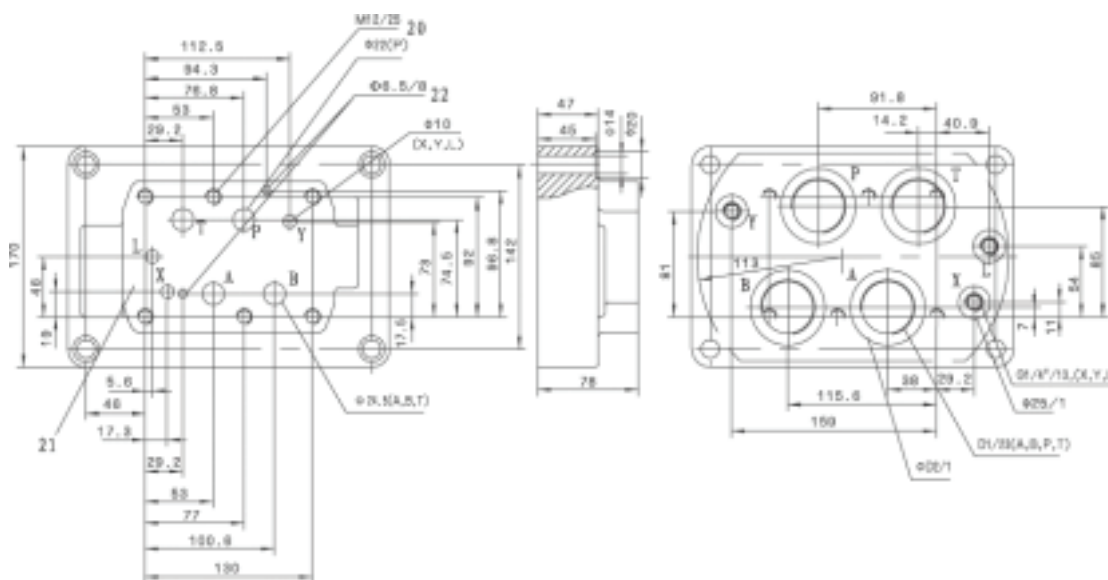
L of ϕ 8 only used on G153/01

Size	Type	Weight	Valve fixing screws	Tightening torque for screws
NG25	G151/01	5kg	6 - M12x60-10.9 (GB/T70.1-2000),	105Nm
	G151/02			
	G153/01			
	G153/02			

1) Only used on valves which are pressure-centred

G154/01(G11/4");G154/02(M42x2):G156/01 G156/02(M48x2)

(Dimensions in mm)



L only used on valves which are pressure-centred

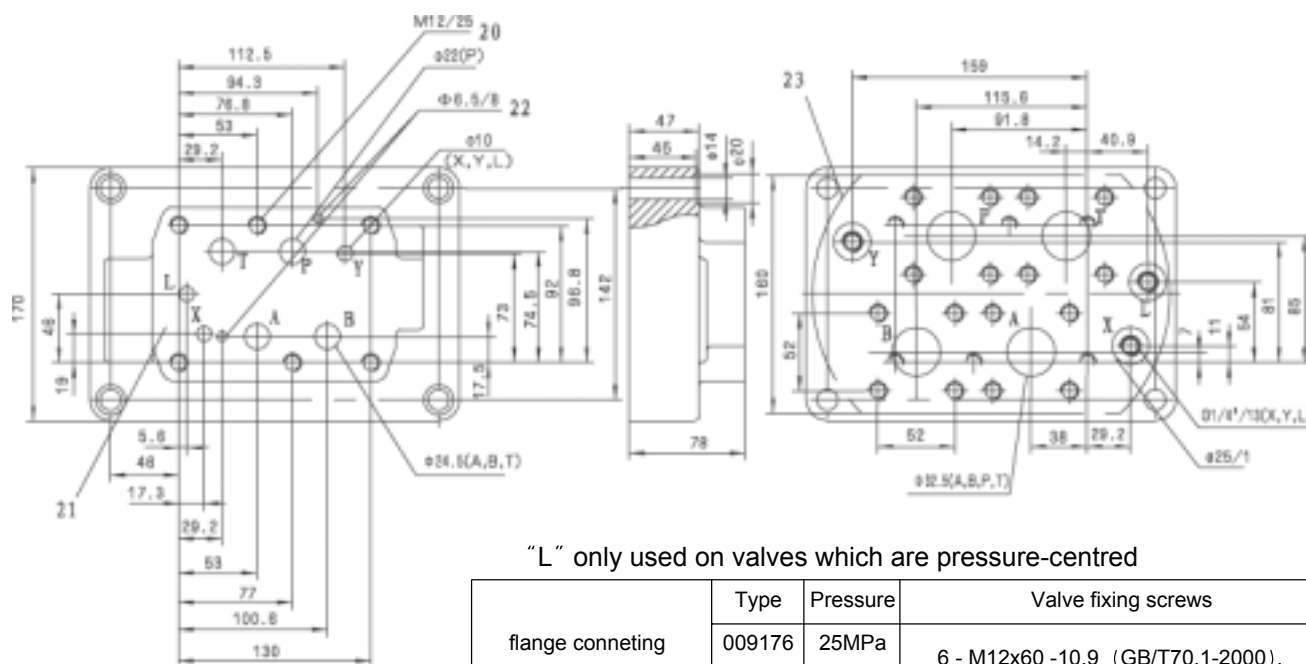
Size	Type	Weight	D1	D2	Valve fixing screws	Tightening torque for screws
NG25	G154/01	5kg	G1 1/4"	58	6 - M12x60 -10.9 (GB/T70.1-2000)	105Nm
	G154/02		M42x2			
	G156/01		G1 1/2"	65		
	G156/02		M48x2			

20 Valve fixing screws 21 mating piece of valve 22 locating pin 23 Front panel cut-out

Subplates

G154/08 flange connection

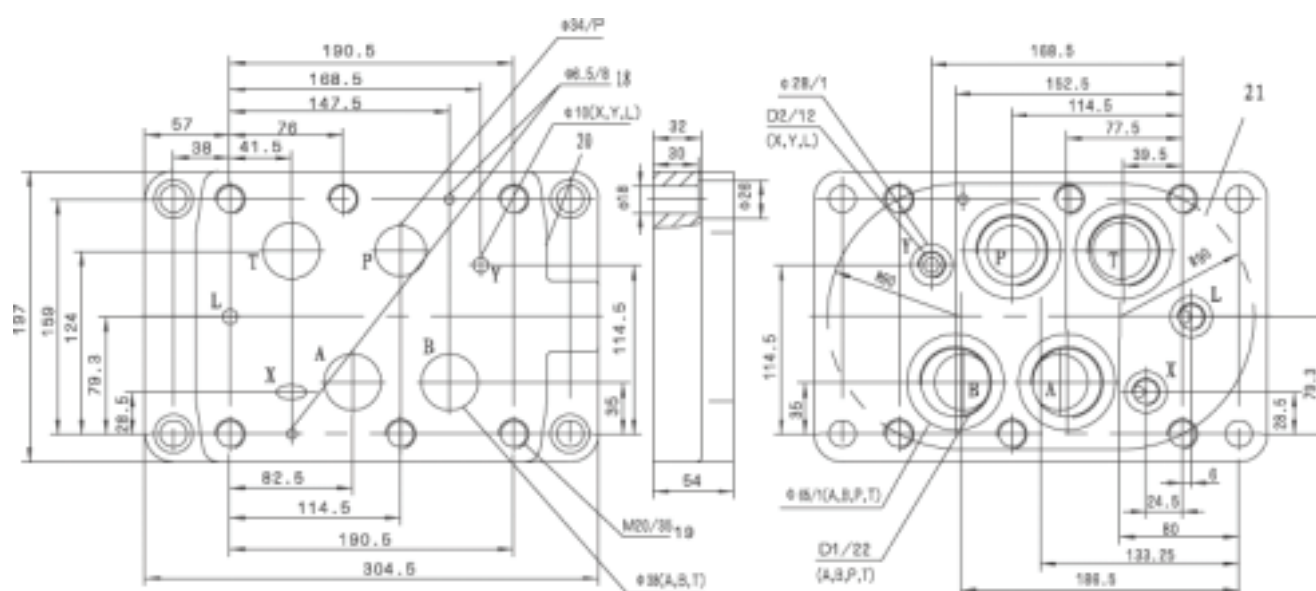
(Dimensions in mm)



20 Valve fixing screws 21 mating piece of valve 22 locating pin 23 Front panel cut-out

G157/01(G1 1/2");G157/02(M48 × 2)

(Dimensions in mm)

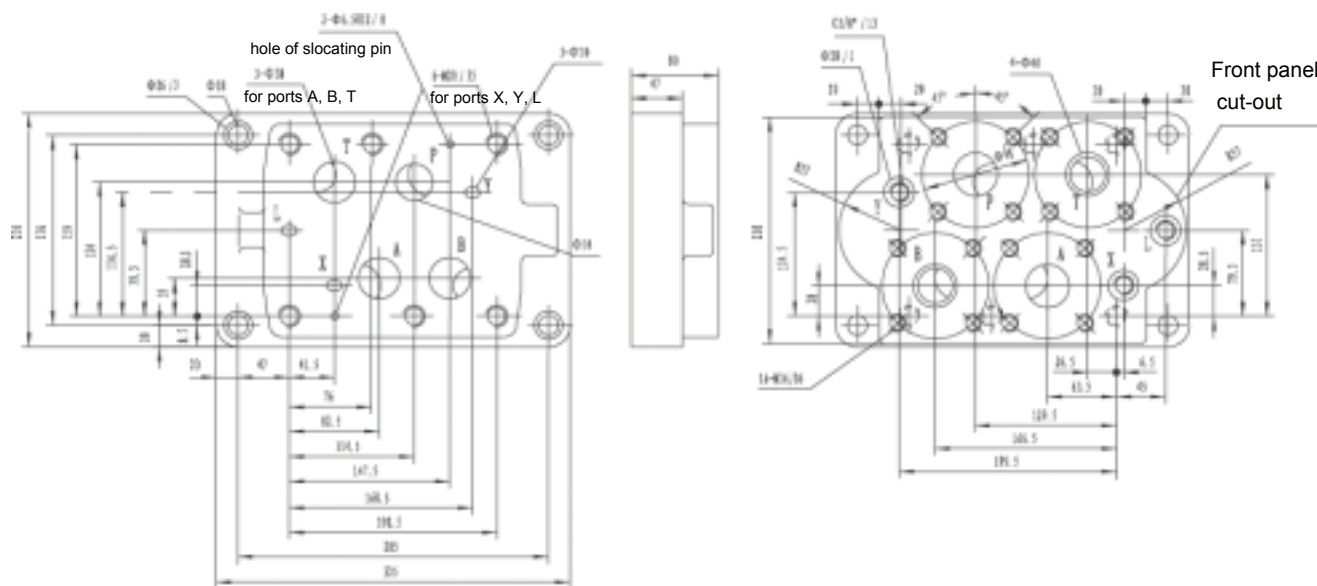


18 locating pin 19 Valve fixing screws 20 mating piece of valve 21 Front panel cut-out

Subplates

G158/10 flange connection

(Dimensions in mm)



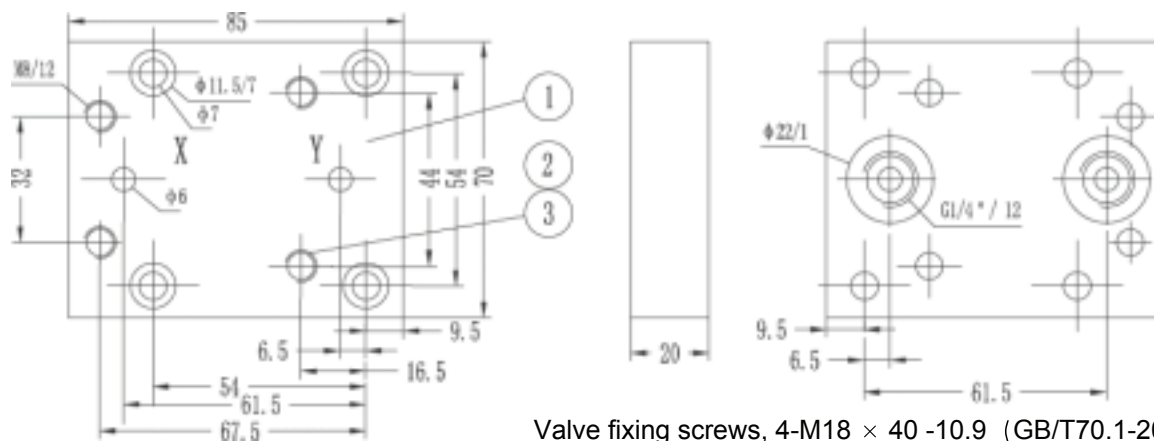
“L” only used on valves which are pressure-centred

Type	Pressure	Type	Weight	Valve fixing screws	Tightening torque for screws
G158/10	165MPa	303 901	approx. 30.5kg	6 - M20 × 80 -10.9 (GB/T70.1-2000), Should be ordered seperately.	580N.m
	to 25MPa	303 902			
	to 40MPa	303 903			

Subplates

G51/01 (G1/4 ") G51/02 (M14 × 1.5) Weight: 1kg

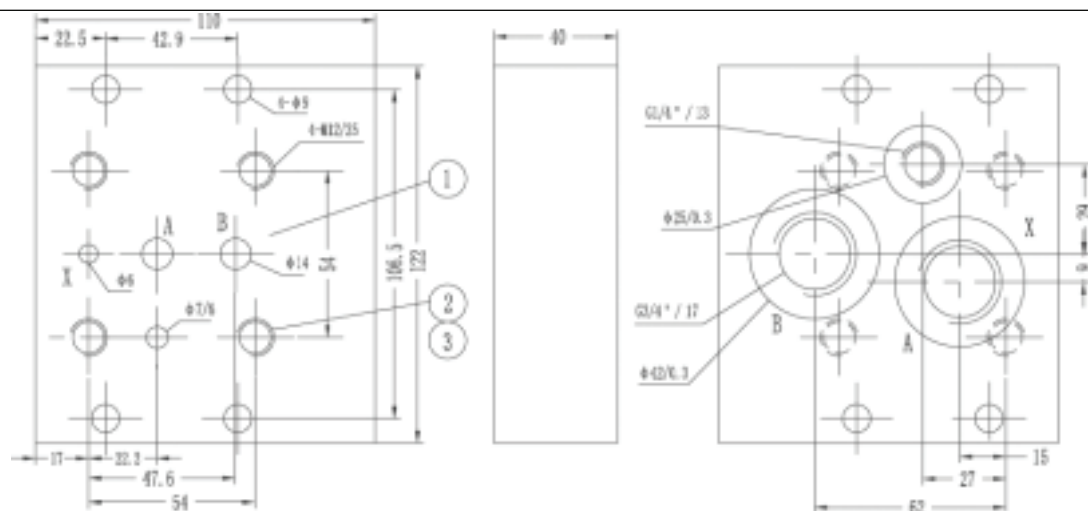
(Dimensions in mm)



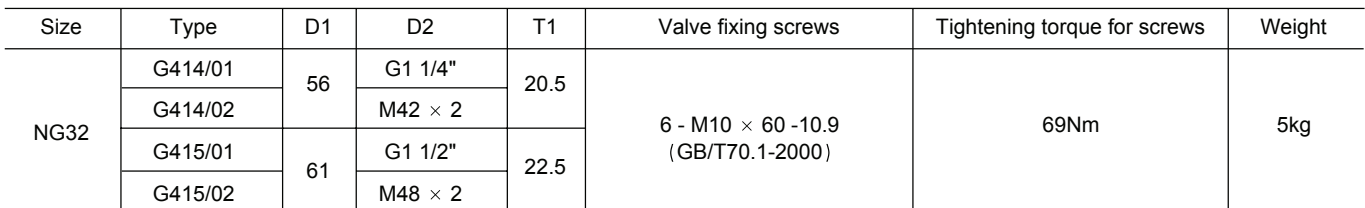
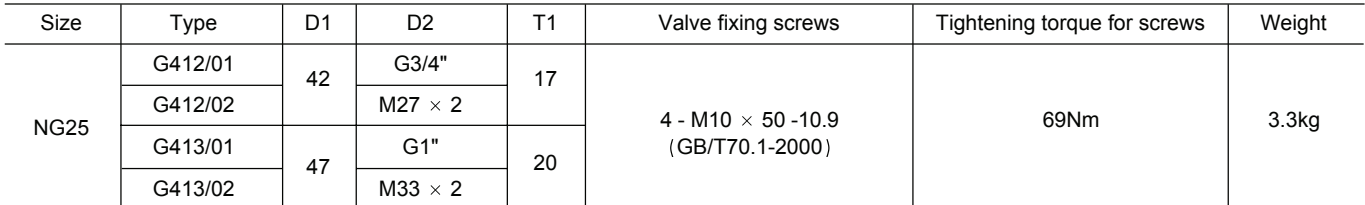
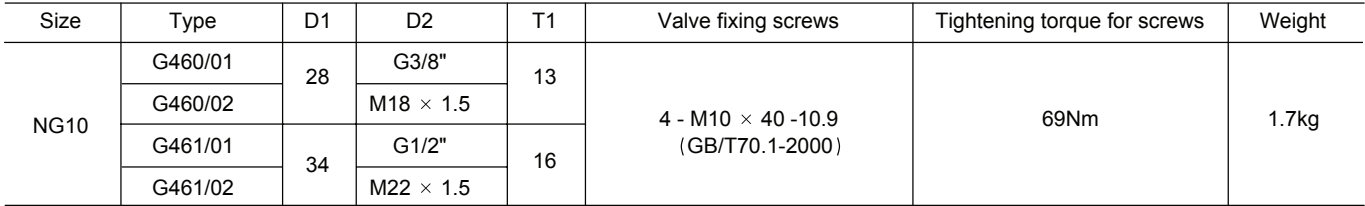
Valve fixing screws, 4-M18 × 40 -10.9 (GB/T70.1-2000)

G565/01 (G3/4 ") G565/02 (M27 × 2) Weight: 1kg

(Dimensions in mm)

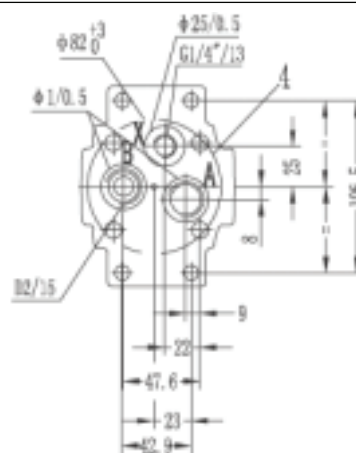
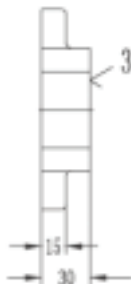
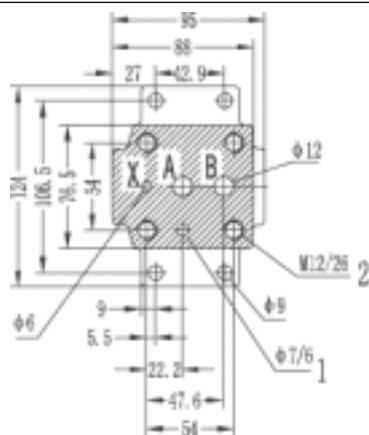


Valve fixing screws, 4-M12 × 50-10.9(GB/T70.1-2000)

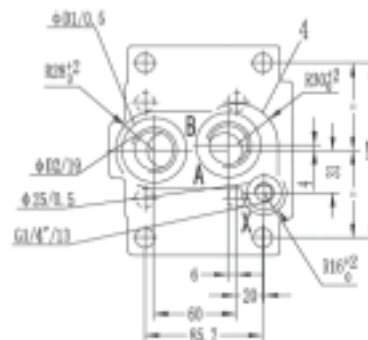
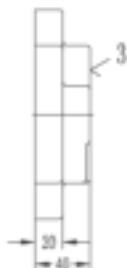
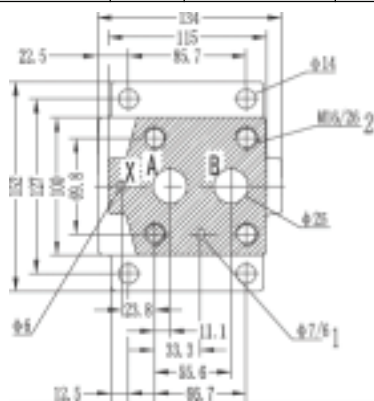


Huade América 13

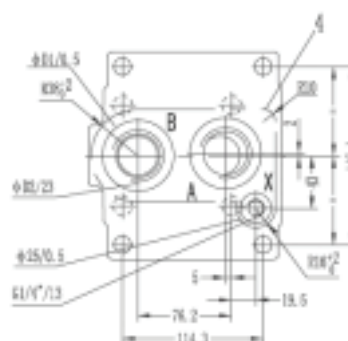
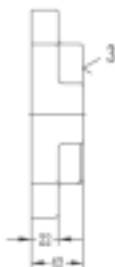
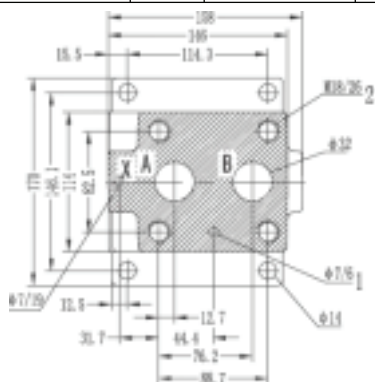
Subplates



Size	Type	D1	D2	T1	Valve fixing screws	Tightening torque for screws	Weight
NC10	G545/01	28	G3/8"	13	4-M12 × 50 -10.9 (GB/T70.1-2000)	120Nm	1.5kg
	G545/02		M18 × 1.5				
	G546/01	34	G1/2"	16			
	G546/02		M22 × 1.5				



Size	Type	D1	D2	T1	Valve fixing screws	Tightening torque for screws	Weight
NC25	G408/01	42	G3/4"	17	4-M16 × 50 -10.9 (GB/T70.1-2000)	295Nm	3.0kg
	G408/02		M27 × 2				
	G409/01	47	G1"	20			
	G409/02		M33 × 2				



Size	Type	D1	D2	T1	Valve fixing screws	Tightening torque for screws	Weight
NC32	G410/01	58	G1 1/4"	20.5	4-M18 × 50 -10.9 (GB/T70.1-2000)	405Nm	5.0kg
	G410/02		M42 × 2				
	G411/01	65	G1 1/2"	22.5			
	G411/02		M48 × 2				

1 mating piece of valve

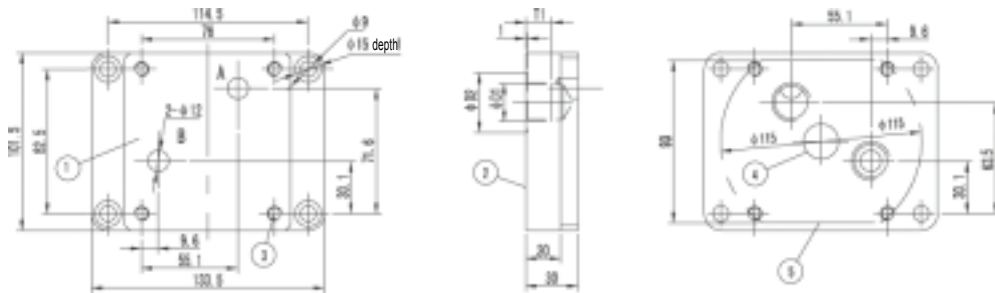
2 Valve fixing screws

3 locating pin

4 Front panel cut-out

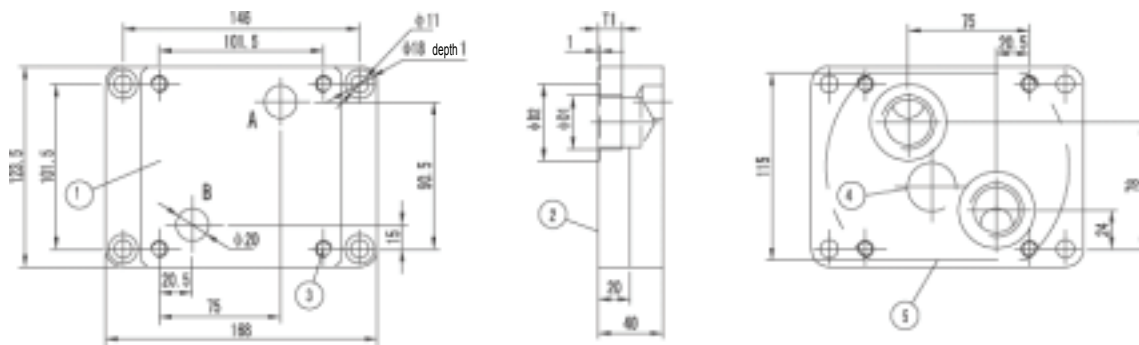
Subplates

G279/01(G1/2) G279/02(M22 × 1.5) G280/01 (G3/4) G280/02(M27 × 2) (Dimensions in mm)



Size	Type	Weight	D1	D2	T1	T2	Valve fixing screws	Tightening torque
NC10	G279/01	2.3kg	G1/2"	34	15	17	4-M8 × 50 -10.9 (GB/T70.1-2000)	37N.m
	G279/02		M22 × 1.5					
	G280/01		G3/4"	42	17	20		
	G280/02		M27 × 1.5					

G281/01(G1/2) G281/02(M23 × 2) G282/01(G1/4) G282/02(M42 × 1.5) (Dimensions in mm)



Size	Type	Weight	D1	D2	T1		Valve fixing screws	Tightening torque
NC16	G281/01	4kg	G1"	47	19		4-M10 × 80 -10.9 (GB/T70.1-2000)	75N.m
	G281/02		M33 × 2					
	G282/01		G1 1/4"	56	21			
	G282/02		M42 × 1.5					

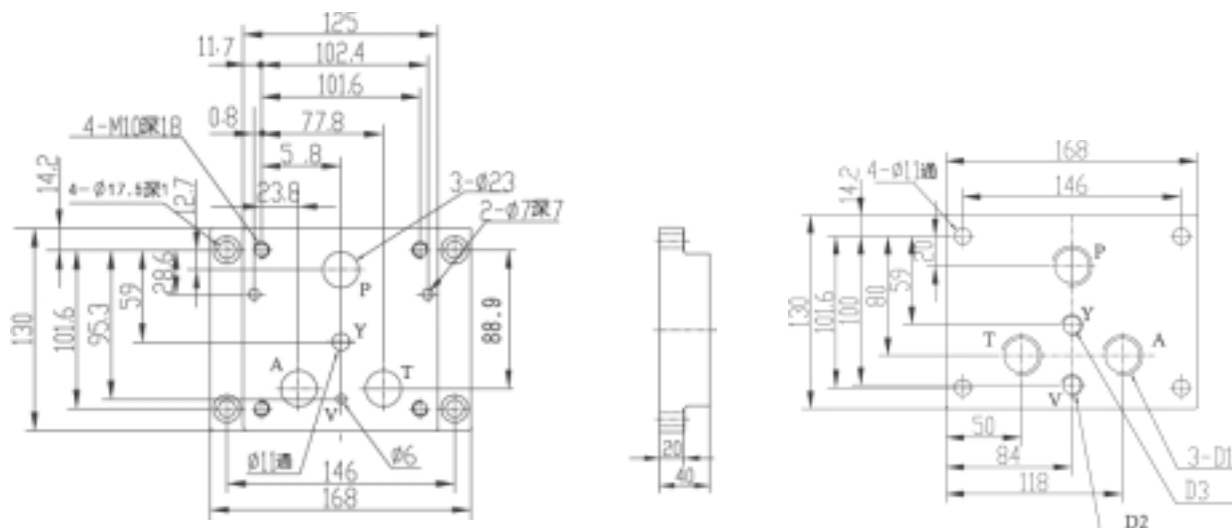
1, mating piece of valve 2, underside 3, Valve fixing screws 4, ϕ 20 for size 10 ϕ 30 for size 16 keep free from drillings used for orifice support 5, Valve panel cut-out

Subplates

If have special request for dimensions of ports, please consult us when ordering

G701/01(G3/4") G701/02(M27 × 2) G702/01 (G1") G702/02(M33 × 2)

(Dimensions in mm)



Type	D1	D2	D3	Weight
G701/01	G3/4"	G1/4"	G1/4"	6Kg
G701/02	M27 x 2	M14 x 1.5	M14 x 1.5	
G702/01	G1"	G1/4"	G1/4"	
G702/02	M33 x 2	M14 x 1.5	M14 x 1.5	

ANNOTATIONS :

HUADE AMÉRICA

CEP : 03162-020

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