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Professional Efficient Sincerity

GIDREX®

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Каталог 2018
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GIDREX

Промышленная и Мобильная Гидравлика

GIDREX®
Гидрекс-Украина

Введение

ООО "Гидрекс-Украина" является поставщиком промышленной и мобильной гидравлики таких производителей как DUPLOMATIC, BOSCH REXROTH, KAWASAKI, SAUER-DANFOSS, SALAMI, KAYABA, VICKERS, EATON, CHAR-LYNN, CATERPILLAR, LIEBHERR, LINDE, DENISON, PONAR, ATOS, OMT, MP FILTRI, M+S HYDRAULIC, CAPRONI, INTERNORMEN.

Для системы международной торговли было разработано производство гидравлических клапанов и гидравлических систем под торговой маркой "GIDREX" на базе европейских заводов производителей гидравлического оборудования.

Производственные площади около 12000 м2, включая 8 000 м2 зданий. На этих площадях более 100 крупных единиц производственного оборудования, таких как токарные станки с ЧПУ, обрабатывающие центры, высокоточные шлифовальные машины и высокоточные хонинговальные машины и т. д. Для разработки высокопорных гидравлических клапанов высокого давления и высокого расхода и обеспечения гарантии качества используются гидравлические испытательные стенды, интегрирующие системы сбора данных, которые могут точно тестировать динамические, статические характеристики и усталостные характеристики видов промышленных и механических гидравлических клапанов (максимальное рабочее давление 350 бар, максимальный расход 600 л / мин).

Команда специалистов использует современное программное обеспечение для моделирования жидкостей AMESim. FLUENT. Matlab и программное обеспечение для проектирования моделей 3D Solidworks, которое может обеспечить высокую эффективность, высокую надежность, высокую точность исследований и разработок produts.

Руководство внедрило модель администрирования ERP и получило сертификацию системы менеджмента качества ISO9001: 2008 и сертификата CE Mark. Теперь наши промышленные гидравлические клапаны и мобильные гидравлические клапаны не только популярны в Европе и Америке, но и на территории СНГ. Создание лучшего бренда в гидравлическом поле является целью гидравлики GIDREX. Мы тепло приветствуем клиентов, приезжающих в нашу компанию для делового сотрудничества.

Так же поставляем следующее:

- гидравлические насосы, моторы, цилиндры;
- распределители, клапана, дроссели, делители потока, гидроаккумуляторы;
- контроллеры, двигатели постоянного и переменного токов;
- маслостанции и гидроагрегаты;
- фильтры и фильтрующие станции, масла;
- диагностическое оборудование и широкий спектр датчиков.

Наша компания обеспечивает клиентов гарантийным сервисным обслуживанием всего предлагаемого оборудования и наличием всех запасных частей на складе. В нашем распоряжение самое современное диагностическое оборудование, лаборатория по проверке чистоты гидравлического масла, установка принудительной фильтрации гидравлических систем. Благодаря прямым отношениям со многими заводами-изготовителями и четко налаженной системе логистики, мы смогли создать уникальную и профессиональную службу сервиса. Компания завоевала доверие и расположение многих клиентов и проявила себя в качестве надежного и стабильного партнера. Мы высоко ценим партнерские отношения с нашими клиентами и делаем все возможное для их дальнейшего укрепления и развития.

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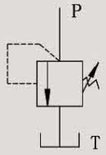
PBD

PBD DIRECT OPERATED PRESSURE RELIEF VALVES

SYMBOL



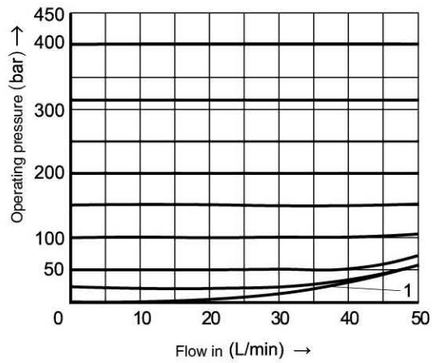
PBD series relief valves are direct operated poppet type used to limit pressure in a hydraulic system. The design can be divided into poppet (Max.40Mpa) and ball type. There are six pressure adjustment ranges available 2.5;5;10;20;31.5;40Mpa. It has characteristics of compact structure,high performance, reliable work, low noise and long service life. These series are widely applied to many lower flow systems, can be also used as relief valve and remote control valve, etc.

Technical data

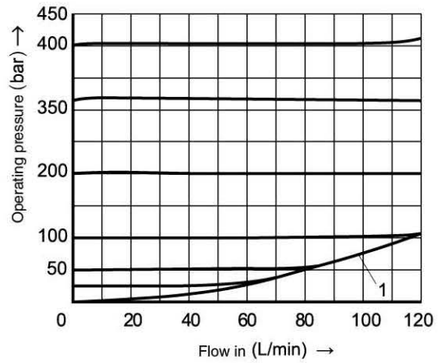
Size		6	8	10	15	20	25	30
Operating pressure(Mpa)		31.5						
Max .flow rate(L/min)		35	60	80	150	200	250	300
Fluid temperature(℃)		-20 ~ 70						
Filtration accuracy(μ m)		25						
Weight(KGS)	PBD K	0.4		0.5		0.9		2.1
	PBD G	1.6	3.6	3.6	6.9	6.9	15.2	15.2
	PBD P	1.7		3.7		7.1		15.7
Valve body (Material) Surface treatment		Steel Body Surface Black Oxide						
Oil cleanliness		NAS1638 class 9 and ISO4406 class 20/18/15						

Characteristic curves (measured with HLP46, Voil=40℃ ± 5℃)

Size 6



Size 8 & 10



1 = Min adjustable pressure

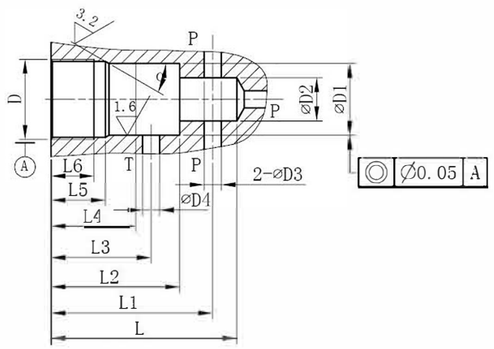
Size 15 & 20

Size 25 & 30

⚠ Attention!

- The curves are available when output pressure =0 within the flow ranges, and the pressure differential of housing is not considered when measures.
- The curves are only available for the said environment and temperature conditions,and the effect of boundary variation conditions for characteristic curves must be considered.
- The curves are ralated to setting pressure level (like 200bar.).The increased pressure data will be higher when relief flow rate added.

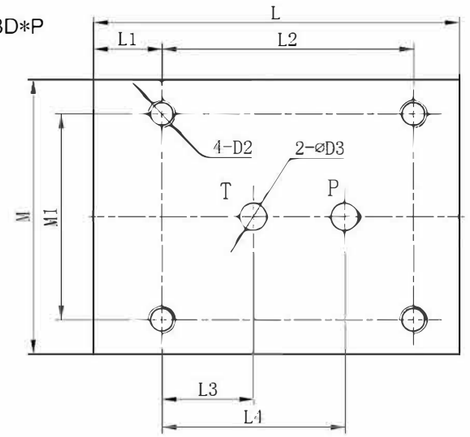
PBD*K Dimensions for cartridge



Size	D	D1	D2	D3	D4	L	L1	L2	L3	L4	L5	L6	α
6	M28x1.5	25H8	15	6	6	65	56.5 ± 1	45	35	30	19	15	15°
10	M35x1.5	32H8	18.5	10	10	80	67.5 ± 1	52	41	35	23	18	15°
20	M45x1.5	40H8	24	20	20	110	91.5 ± 1	70	54	45	27	21	20°
30	M60x2	55H8	38.75	30	30	140	113.5 ± 1	84	60	45	29	23	20°

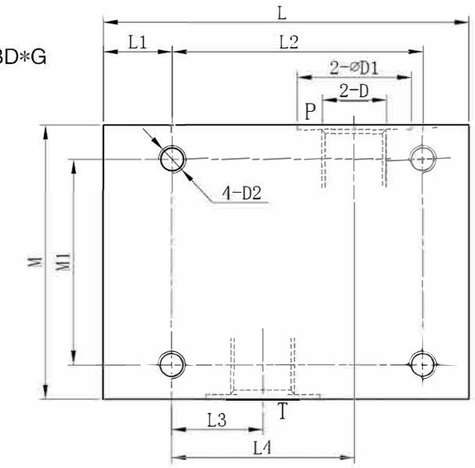
Installation dimensions

PBD*P



Size	L	L1	L2	L3	L4	M	M1	D2	D3
6	80	15	55	20	40	60	45	M6/15	6
10	100	20	70	21	45	80	60	M8/15	10
20	135	20	100	34	65	100	70	M8/22	20
30	180	25	130	35	85	130	100	M10/22	30

PBD*G



Size	D		L	L1	L2	L3	L4	M	M1	D1	D2
	Inch	Metric									
6	G 1/4"	M14 × 1.5	80	15	55	20	40	60	45	25	M6/15
(8)10	(G 3/8") G1/2"	(M18X1.5) M22X1.5	100	20	70	21	49	80	60	(28) 34	M8/15
(15)20	(G 3/4") G1"	(M27X2) M33X2	135	20	100	34	65	100	70	(42) 47	M8/22
(25)30	(G1 1/4") G1 1/2"	(M42X2) M48X2	180	25	130	35	85	130	100	(56) 61	M10/22

PBD | S | 6 | K | 10 | 10 | 2 | V

- Direct operated
- S=Adjustable screw and protective cap
  H=Handwheel
- Size 6(8)10(15)20(25)30
- K=Plug-in mounting
  G=Threaded connection
  P=Subplate mounting
- Series No.10 series(Pressure class2.5 ~ 40 MPa)
- Pressure range(MPa):2.5;5;10;20;31.5;40
- No code = inch thread
  2 = metric
- No code=NBR seals for petroleum oils
  V=FPM seals for phosphate ester

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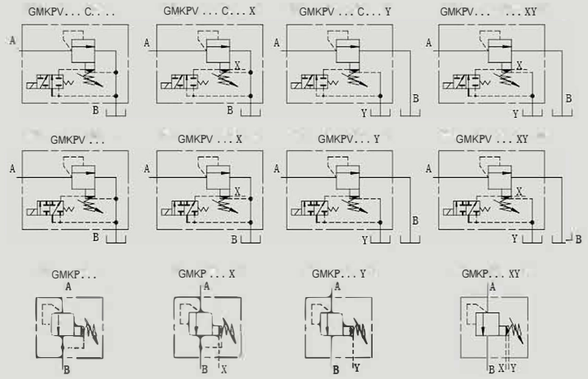
GMKP / GMKPV

GMKP / GMKPV PILOT OPERATED PRESSURE RELIEF VALVES

SYMBOL



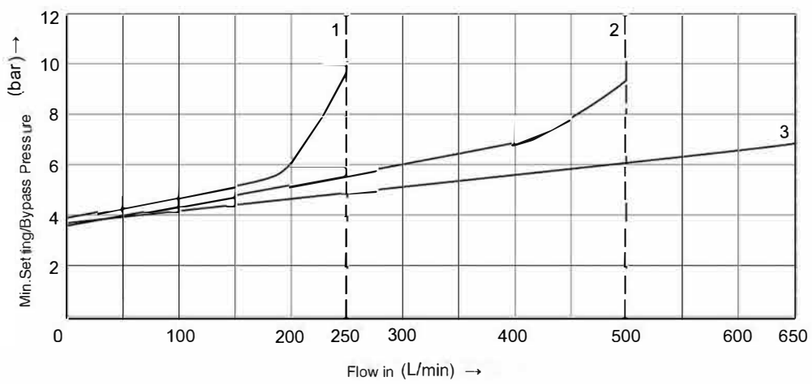
GMKP is pilot operated pressure relief valve, GMKPV is a pilot operated solenoid relief valve available to unload system pressure.
The performance of 6X series is superior than 60 series, the 6X series can be used to control the pressure of hydraulic systems smoothly in a wide range. This type is suitable for a hydraulic system which demands high flow rate.

Technical data

Size		10		20		30	
Series No		60	6X	60	6X	60	6X
Operating pressure(Mpa)		31.5	35	31.5	35	31.5	35
Max .flow rate(L/min)		200	250	400	500	600	650
Fluid temperature(℃)		–20 ~ 70					
Filtration accuracy(μ m)		25					
Weight(KGS)	GMKP	3.2		4.2		5.2	
	GMKPV	4.7		5.5		6.8	
Valve body (Material) Surface treatment		casting phosphating surface					
Oil cleanliness		NAS1638 class 9 and ISO4406 class 20/18/15					

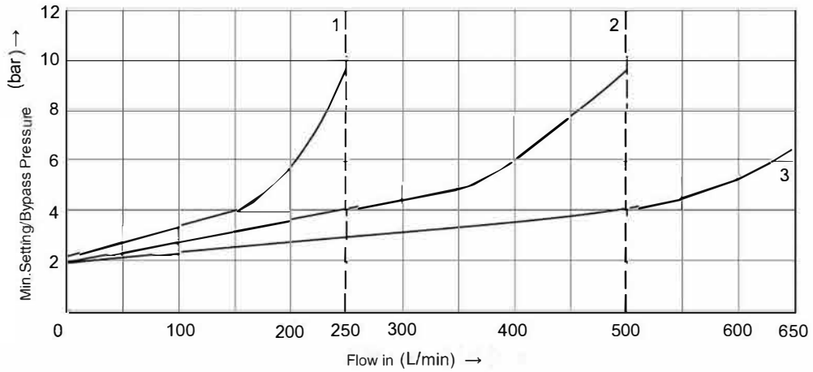
Characteristic curves (measured with HLP46， Voil=40℃ ± 5℃)

Characteristic of Min.Setting Pressure.bypass pressure and flow
Standard



1.Size 10
2.Size 20
3.Size 30

Charaterastics of Min.Setting Pressure.bypass presure and flow
Type "U"

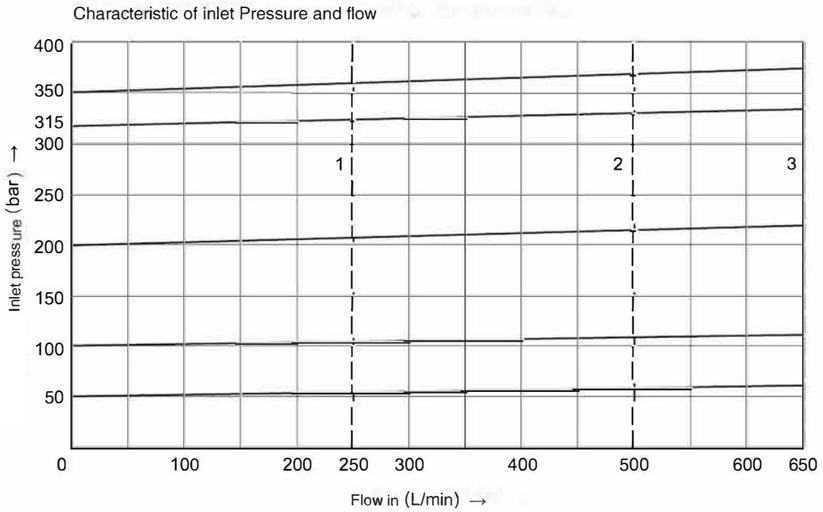


1. Size 10
2. Size 20
3. Size 30

☞ Attention!
The curves is measured without pressure when control oil back to the tank.
Refers to the back into housing of the control oil,the pressure of "T" port has increased against the input pressure.

The curves are available when the output pressure Pt=0 within the flow ranges.

Characteristic curves (measured with HLP46， Voil=40℃ ± 5℃)

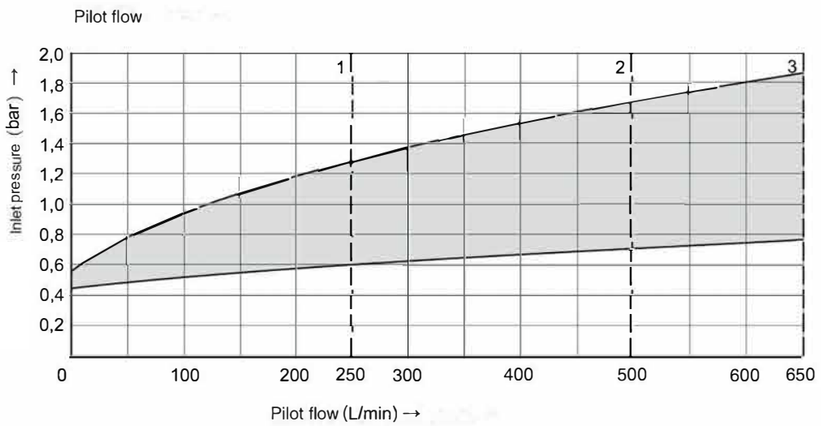


1. Size 10
2. Size 20
3. Size 30

☞ Attention!

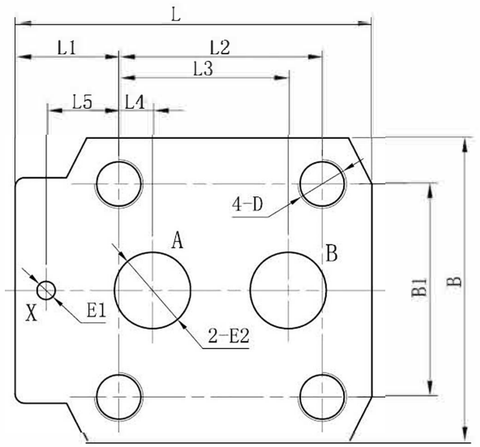
The curves is measured without pressure when control oil back to the tank. Refers to the back into housing of the control oil,the pressure of "T" port has increased against the input pressure.

Characteristic curves (measured with HLP46， Voil=40℃ ± 5℃)

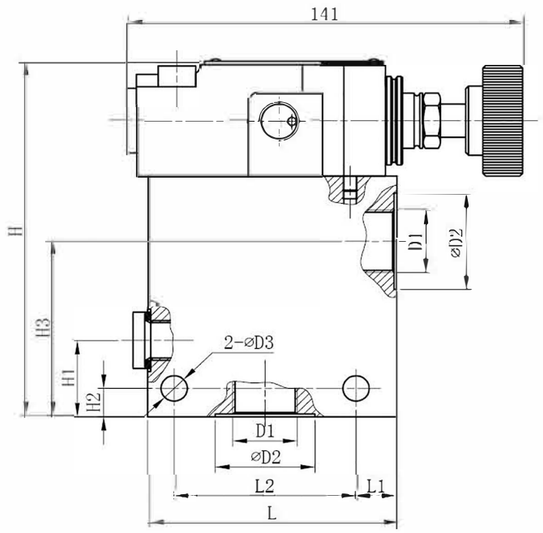


1. Size 10
2. Size 20
3. Size 30

Subplate mounting



Threaded connections



Subplate mounting

Model	L	L1	L2	L3	L4	L5	B	B1	D	E1	E2
...10 M	90	23.5	54	47.6	22.2	0	78	54	M12/26	Φ6	Φ12
...20 M	117	34	66.7	55.6	11.1	23.8	100	69.8	M16/26	Φ6	Φ25
...30 M	148	41.5	88.7	76.2	12.7	31.7	115	82.5	M18/26	Φ7	Φ32

Threaded connections

型号Model	D1		D2	D3	L	L1	L2	H	H1	H2	H3
	Metric	Inch									
...8 T	M18 × 1.5	G 3/8"	28	9	85	14	62	125	27	10	62
...10 T	M22 × 1.5	G 1/2"	34	9	85	14	62	125	27	10	62
...15 T	M27 × 2	G 3/4"	42	9	85	14	62	125	27	10	62
...20 T	M33 × 2	G 1"	47	9	85	14	62	125	27	10	57
...25 T	M42 × 2	G 1 1/4"	56	9	100	18	72	138	40	13	66
...30 T	M48 × 2	G 1 1/2"	61	9	100	18	72	138	40	13	66

GMKP	V	10		M		315	24

Model

No code=Without directional valve
V =With directional valve

Subplate mounting:10;20;30
Threaded connection:8;10;15;20;25;30

C = Normally closed
No code = Normally open

M = subplate mounting
T = Threaded connection

No code = Internally pilot, internally drained
X = Externall pilot, internally drained
Y = Internally pilot, externally drained
XY = Externall pilot, externally drained

See the table for pressure range

No code = 24VDC
110 = 110 VAC; 220 = 220 VAC

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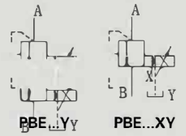
PBE/PBEK

PBE / PBEK PROPORTIONAL PRESSURE RELIEF VALVES

SYMBOL



PBE type valve is a pilot operated pressure relief valve with poppet structure, which can change the system pressure continuously by electrical input signal, the pressure limit can be preset by proportional solenoid and may be relative with current. PBEK relief valve in the PBE-based, install a spring loaded pressure relief valve to provide maximum pressure protection.

Installation dimensions refer to page 9

PBE	K	T	10	60	31.5	Y	2	V	*

For further detailed

No code=NBR seals for petroleum oils
V=FPM seals for phosphate ester

No code=Inch thread; 2=Metric

Y=Internally piloted/externally drained
XY=externally piloted/externally drained

5=5MPa
10=10MPa
20=20MPa
31.5=31.5MPa

NO code=Without max pressure protection
K=With max pressure protection

No code=pilot operated pressure relief valve
C=Pilot valve with main spool assembly (NG30)
C=Pilot valve without main spool
T=Pilot operated valve as remote control valve

Size:10;20;30

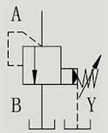
Series number 60

PB...K

PB...K SERIES PLUG-IN PRESSURE RELIEF VALVES

SYMBOL

PB···K/···Y



PB20K···/···XY

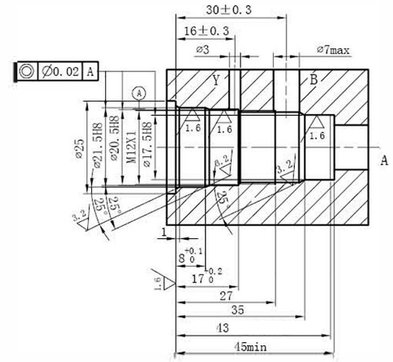
PB ..K series are pilot operatedrelief valves usedto limit pressure in a hydraulic system.

Technical data

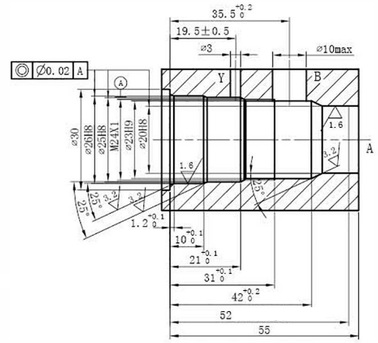
Size	6	10	20
Operating pressure (Mpa)	31.5		
Set pressure (Mpa)	5，10，20，31.5/Up to 5，10，20，31，5		
Max .flow rate (l/min)	60	100	300
Fluid temperature('t)	–20 ~ 70		
Filtration accuracy(μ m)	25		
Weight (KGS)	0.22	0.3	0.35
Valve body（Material）Surface treatment	Steel Body Surface Black Oxide		
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15		

Installation dimensions

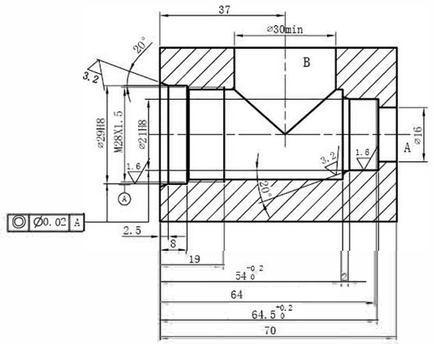
PB6K…/…Y



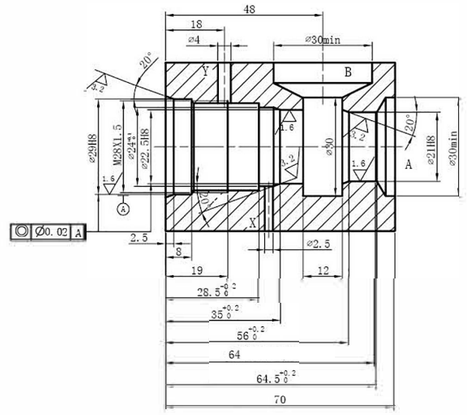
PB10K…/…Y



PB20K…/…Y



PB20K…/…X Y



PB	10	K	1	–	40	/	100	Y	V	*

Model

Size:6;10;20

K=Plug-in for manifold mounting

1=Rotary handle
2=Adjustable screw with protective cap

40=40series are suitable for 6,10;
10=10series are suitable for 20

50=5 MPa 100=10 MPa 200=20 MPa 315=31.5 Mpa

Y = Internally pilot, externally drained
XY = Externall pilot, externally drained
(Only for PB20K)

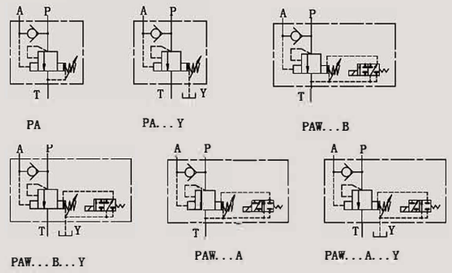
No code=NBR seals for petroleum oils
V=FPM seals for phosphate ester

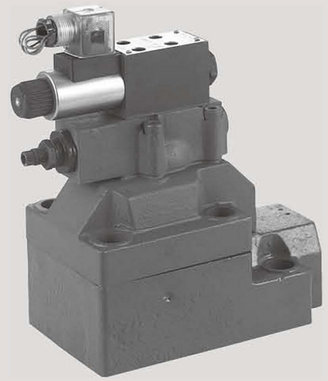
For further details

PA/PAW

PA / PAW SERIES PILOT OPERATED UNLOADING VALVES

SYMBOL





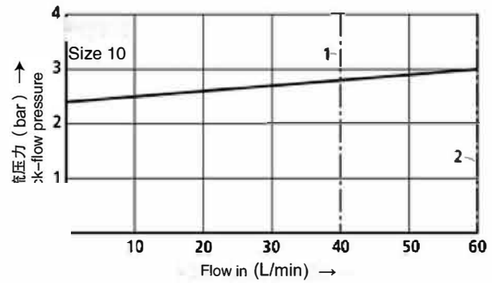
PA / PAW series are pilot operated pressure unloading valves. This series are used to unload the oil pumps' pressure in a hydraulic system with accumulator. The valve allows high-pressure pump to operate and low-pressure pump to unload pressure.

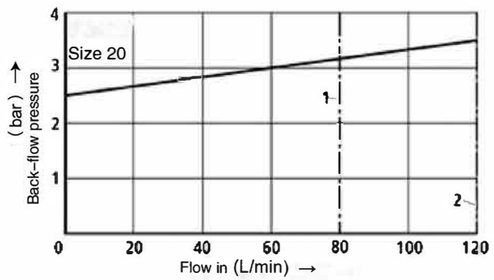
Technical data

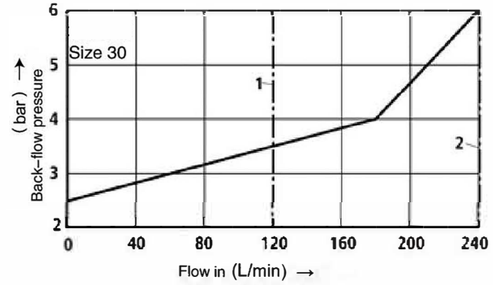
Size	10	20	30
Operating pressure(Mpa)	31.5		
Max .flow rate(L/min)	40	100	250
Valve body (Material) Surface treatment	casting surface blue paint		
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15		

Characteristic curves (measured with HLP46, Voil=40℃ ± 5℃)

q_{vp}(P → A) Back-flow pressure and Pump flow





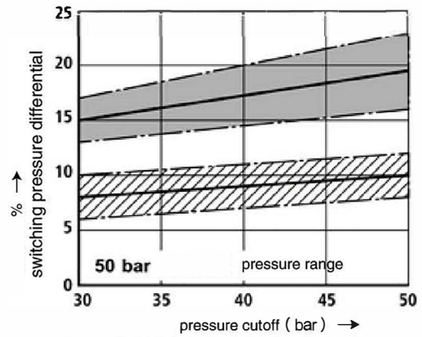


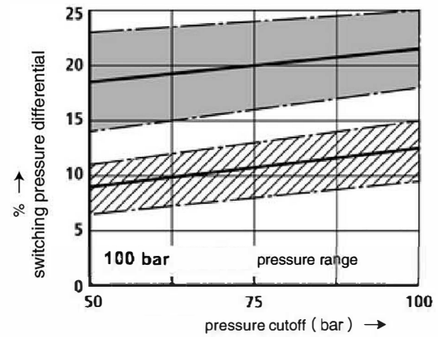
1 $q_{v\,p_{max}}$ for type 10%

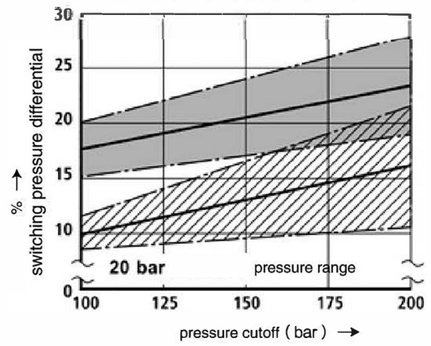
2 $q_{v\,p_{max}}$ for type 17%

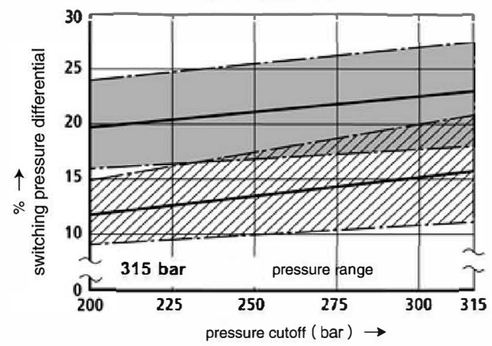
All these curves are available when output pressure (T) =0 with the flow ranges.

Characteristic of switching pressure differential and pressure cutoff (P→A)





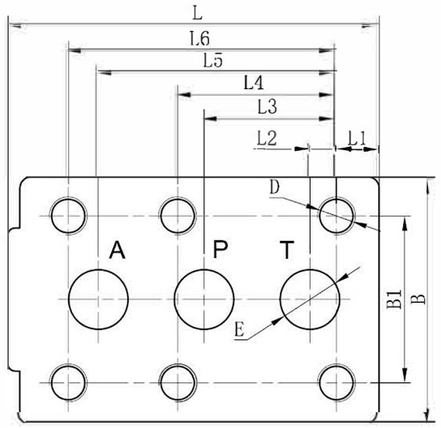




= Type 10% variation range

= Type 17% variation range

Subplate Installation dimensions



Size	L	L1	L2	L3	L4	L5	L6	B	B1	D	E	PA/ Weight(KGS)	PAW/ Weight(KGS)
10	94	16.6	7.1	35.7	42.9	62.7	/	84	66.7	4–M10/20	3–Φ10	3.8	5.3
20	158	14.3	11.1	55.6	66.7	100	112.7	103	66.9	6–M16/25	3–Φ25	7.9	9.4
30	199	14.8	12.7	76.2	88.9	127	139.7	118.5	82.5	6–M18/25	3–Φ32	12.3	13.8

PA | W | 10 | A | 1 | 60 | 80 | Y | DC24 | N | Z5L | V | *

- Model
- No code=Without directional valve; W=With directional valve
- Size=10;20;30
- A=Normally closed;B=Normally open
- 1=Adjustable knob; 2=Hexagonal nut and protective cap
- Series Number: 80=2–8MPa; 160=8–16MPa; 315=16–31.5MPa
- No code=Internally piloted,internally drained; Y=Internally piloted;externally drained
- AC220=AC 220V;DC24=DC 24V
- No code=Without manual override; N=With manual override
- Z5L=Large quadrate plug with light
- No code=NBR seals for petroleum oils; V=FPM seals for phosphate ester
- For further details

PR

PR
PILOT OPERATED PRESSURED REDUCING VALVES

SYMBOL

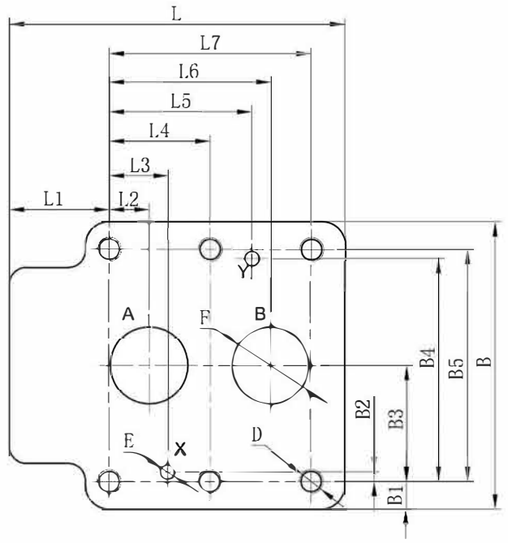
PR are pilot operated pressure reducing valves, which can be used to reduce and maintain pressure in a certain circuit. Although, 6X series and 60 series with same connection and pressure control, the capability of 6X series is better than 60 series. The 6X have more smoothly adjustable performance, it not only reaches the output pressure at low level under high flow rate, but also with the characteristics of high flow and widely pressure adjustable ranges.

Technical data

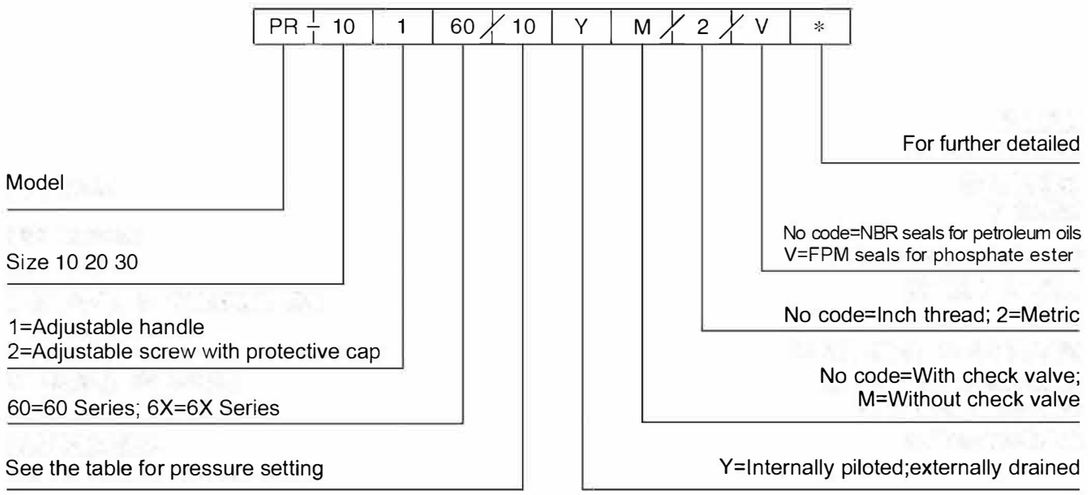
Size	Subplate mounting	Pressure range(Mpa)					Weight(KGS)
10	10	5	10	20	31.5	35	4
20	20	5	10	20	31.5	35	5.5
30	30	5	10	20	31.5	35	8.2
Valve body (Material) Surface treatment		casting surface blue paint					
Oil cleanliness		NAS1638 class 9 and ISO4406 class 20/18/15					

Size/Series	10/6X	20/6X	30/6X
Flow rate(L/min)	150	300	400
Operating pressure(Mpa)	To 35		
Input pressure(Mpa)	To 35		
Output pressure(Mpa)	1– To 35		
Back pressure Y port(Mpa)	(Only used for without check valves)		
Fluid temperature(℃)	-20 - 70		
Filtration accuracy(μ m)	25		

Subplate Installation dimensions



Model	L	L1	L2	L3	L4	L5	L6	L7	B	B1	B2	B3	B4	B5	D	E	F
PR 10	96	34.5	7.2	21.5	/	21.5	35.8	42.9	85	9.15	7.9	33.35	58.8	66.7	4–M10/24	2–Φ6	2–Φ13
PR 20	112	37	11.1	20.6	/	39.7	49.2	60.3	102	11.3	6.4	39.7	73	79.4	4–M10/24	2–Φ6	2–Φ22
PR 30	140	31.3	16.7	24.6	42.1	59.5	67.5	84.2	120	11.6	3.8	48.4	92.8	96.8	6–M10/24	2–Φ6	2–Φ32

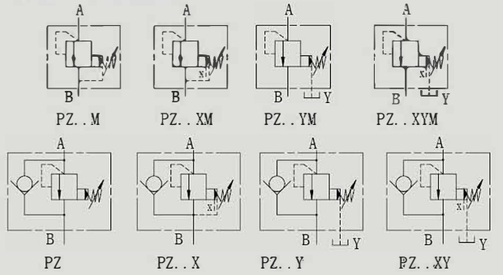


GIDREX®
Гидрекс-Украина

PZ

PZ
PILOT-OPERATED SEQUENCE VALVES

SYMBOL

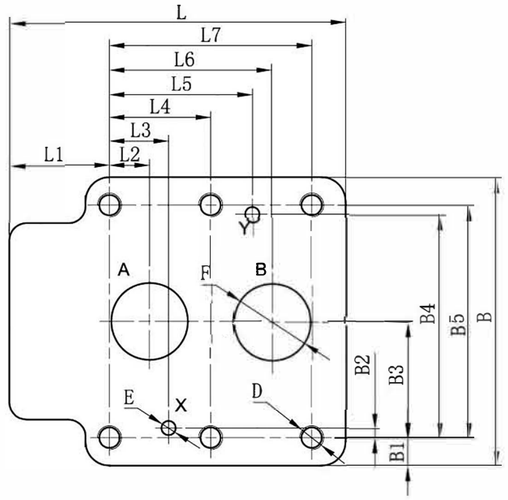


PZ type pilot-operated sequence valve is used tolcontrol the sequencing, braking, unloading or other functions. The valve has two connection types and four kinds of control methods of pilot oil, therefore, it has different functions by changing the control method of pilot oil. The 6X series PZ type valve has higher performance than 60 series, with smoothly adjustable performance, widely adjustable range, high flow tare.

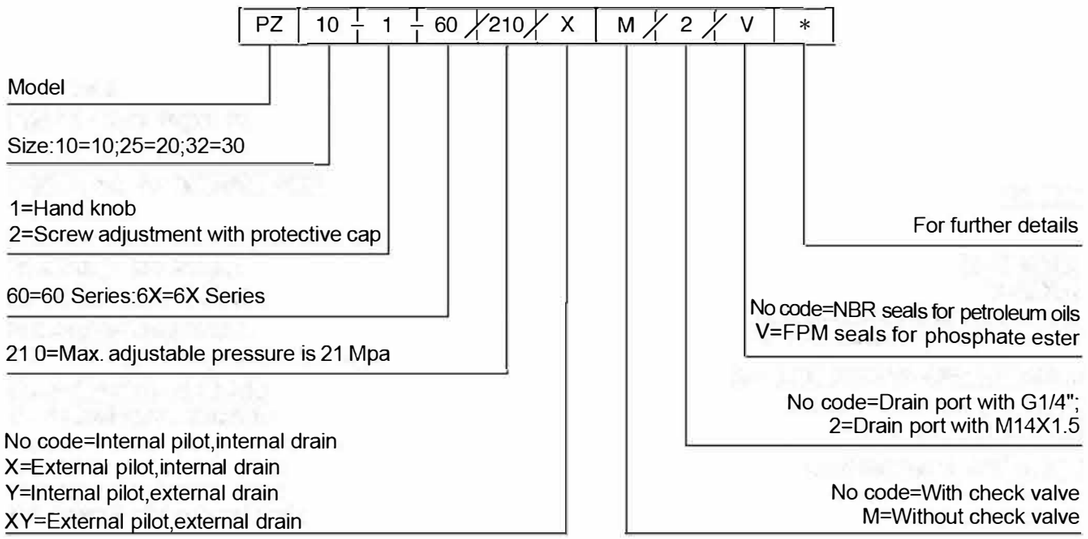
Technical data

Size	10	20	30
Operating pressure(Mpa)	31.5		
Max .flow rate(L/min)	150	300	450
Valve body (Material) Surface treatment	casting surface blue paint		
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15		

Subplate Installation dimensions



Model	L	L1	L2	L3	L4	L5	L6	L7	B	B1	B2	B3	B4	B5	D	E	F	Weight(KGS)
PZ10	96	34.5	7.2	21.5	/	21.5	35.8	42.9	85	9.15	7.9	33.35	58.8	66.7	4–M10/24	2–Φ6	2–Φ13	4
PZ20	112	37	11.1	20.6	/	39.7	49.2	60.3	102	11.3	6.4	39.7	73	79.4	4–M10/24	2–Φ6	2–Φ22	5.7
PZ30	140	31.3	16.7	24.6	42.1	59.5	67.5	84.2	120	11.6	3.8	48.4	92.8	96.8	6–M10/24	2–Φ6	2–Φ32	8.4



GTOK

GTOK
CHECK VALVES

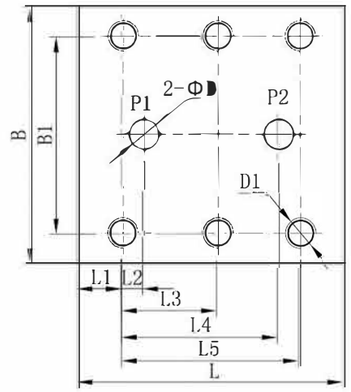
SYMBOL

DS series check valves allow free flow in one direction and block flow in the counter direction

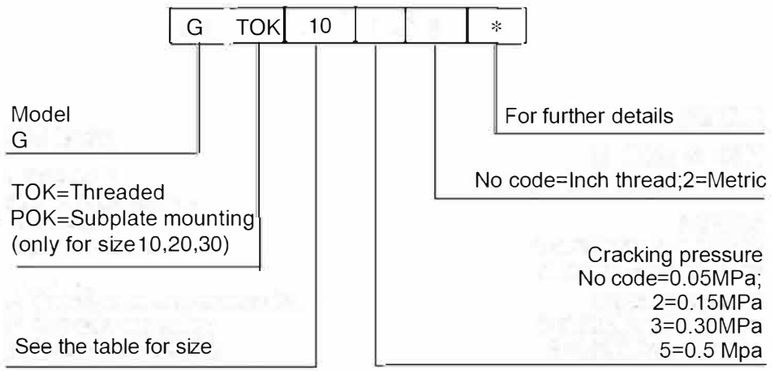
Technical data

Size		6	8	10	15	20	25	30
Threaded connection	Inch	G1/4"	G3/8"	G1/2"	G3/4"	G1"	G1 1/4"	G1 1/2"
	Metric	M14X1.5	M18X1.5	M22X1.5	M27X2	M33X2	M42X2	M48X2
Max .flow rate(L/min)		15	30	40	120	200	300	400
Max .operating pressure(Mpa)		31.5						
Distance across flats(mm)		19	24	30	36	46	60	63
Length(mm)		58	58	72	85	98	120	132
Weight(KGS)		0.1	0.2	0.3	0.5	1	2.1	2.5
Valve body (Material) Surface treatment		Steel Body Surface Black Oxide						
Oil cleanliness		NAS1638 class 9 and ISO4406 class 20/18/15						

Subplate dimensions



Size	B	B1	L	L1	L2	L3	L4	L5	D	D1
10	87	66.7	90	23.5	7.2	—	35.8	42.9	11	4–M10/20
20	110	79.4	120	23.4	11.1	—	49.2	60.3	22	4–M10/20
30	128	96.8	148	27.8	16.7	42.1	67.5	84.2	28	6–M10/20



RVP

RVP
CHECK VALVES

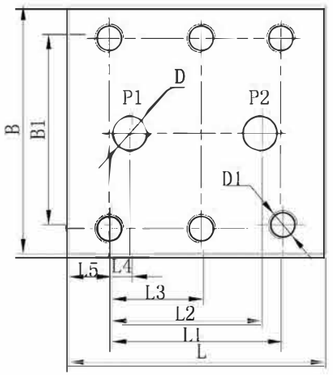
SYMBOL

RVP series check valves allow free flow in one direction and block flow in the counter direction .The valve connection is subplate mounting.

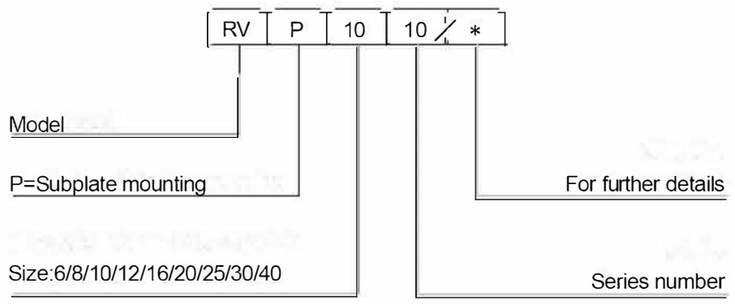
Technical data

Size	6	8	10	12	16	20	25	30	40
Rated flow(L/min)	15	30	50	80	100	200	300	380	460
Operating pressure(Mpa)	31.5								
Cracking pressure(Mpa)	0.05								
Weight(KGS)	0.2	0.4	0.7	1.1	2.2	3.3	6.3	11	17.9
Valve body (Material) Surface treatment	Steel Body Surface Black Oxide								
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15								

Subplate dimensions

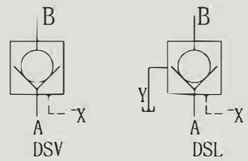


Size	B	B1	L	L1	L2	L3	L4	L5	D	D1
RVP6	41.5	28.5	41.5	19	17.6	—	1.6	6.4	2–Φ5	4–M6
RVP8	46	33.5	63.5	35	30	—	4.5	14.2	2–Φ7	4–M6
RVP10	51	38	70	33.5	29.5	—	4	18	2–Φ10	4–M6
RVP12	57.5	44.5	80	38	34	—	4	21	2–Φ13	4–M6
RVP16	70	54	104	76	65.4	38	11.4	14	2–Φ17	6–M8
RVP20	76.5	60	127	95	76	47.5	19	16	2–Φ 22	6–M8
RVP25	100	76	165	120	100.1	60	20.6	15	2–Φ28.5	6–M10
RVP30	115	92	186	143	118.8	71.5	23.8	15	2–Φ35	6–M12
RVP40	140	111	192	133.5	114.5	67	25.5	16	2–Φ47.5	6–M12



DSV./ DSL
PILOT OPERATED CHECK VALVES

SYMBOL

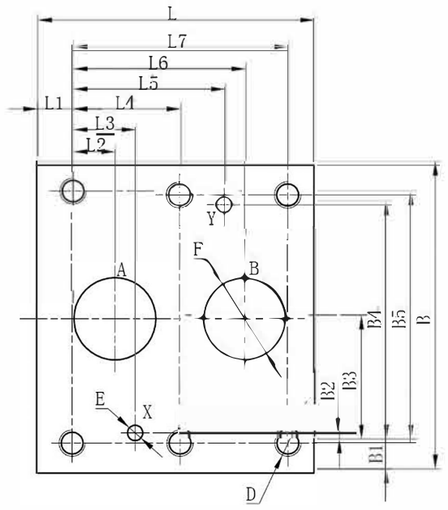


DSV/DSL pilot operated check valves allow free flow in one direction and block flow in the counter direction to maintain pressure. The oil is allowed to flow in the counter direction when the X port is connected.
DSV is designed for internally drained. DSL is designed for externally drained.

Technical data

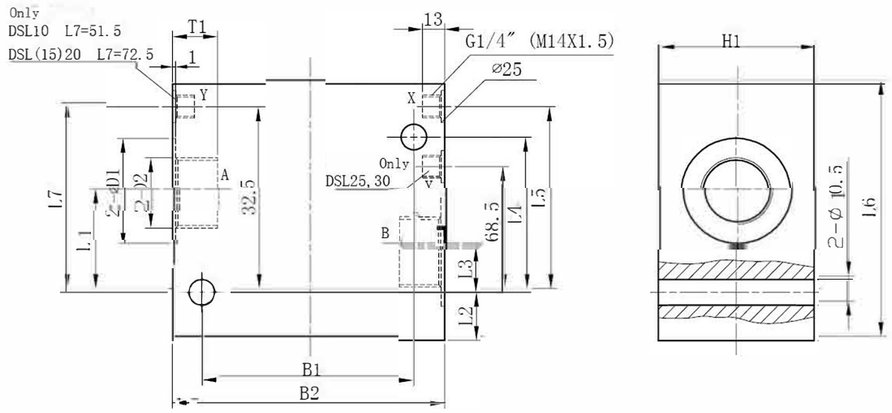
Size	DSV10	DSL10	DSV20	DSL20	DSV30	DSL30
Port X pilot volume(cm³)	2.2		8.7		17.5	
Port Y volume(cm³)	—	1.9	—	7.7	—	15.8
Direction of flow	Free flow from A to B; B to A when Piloted open					
Operating pressure(Mpa)	31.5					
Pilot control pressure range(MPa)	0.5–31.5					
Max .flow rate(L/min)	80		150		300	
Weight(KGS)	2.5	2.3	4.3	4.6	8.5	9.2
Valve body (Material) Surface treatment	Steel Body Surface Black Oxide					
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15					

Subplate mounting dimensions

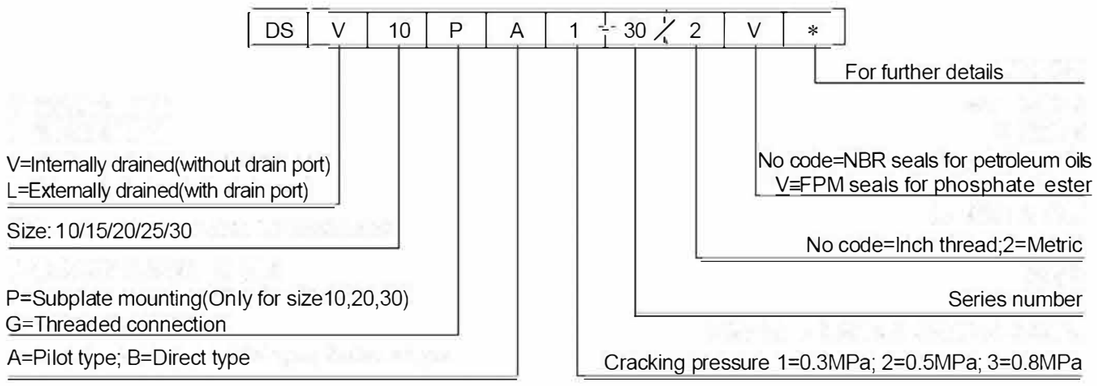


size	L	L1	L2	L3	L4	L5	L6	L7	B	B1	B2	B3	B4	B5	D	E	F
10	80	18.5	7.2	21.5	—	21.5	35.8	42.9	85	9.15	7.9	33.35	58.8	66.7	4–M10/24	2–Φ6	2–Φ13
20	95	17.5	11.1	20.6	—	39.7	49.2	60.3	102	11.3	6.4	39.7	73	79.4	4–M10/24	2–Φ6	2–Φ25
30	115	15.5	16.7	24.5	42.1	59.5	67.5	84.2	120	11.6	3.8	48.4	92.8	96.8	6–M10/24	2–Φ6	2–Φ32

Threaded connection dimensions



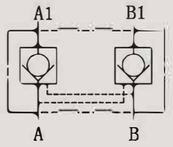
Model	size	B1	B2	D1	D2	T1	H1	L1	L2	L3	L4	L5	L6
DSV	10	66.5	85	34	G 1/2" M22X1.5	14	42	27.5	18.5	10.5	33.5	49	80
	15	79.5	100	42	G 3/4" M27X2	16	57	36.7	17.3	13.3	50.5	67.5	95
	20	79.5	100	47	G1" M33X2	18	57	36.7	17.3	13.3	50.5	67.5	95
	25	97	120	56	G 1 1/4" M42X2	20	75	54.5	15.5	20.5	73.5	89.5	115
	30	97	120	61	G1 1/2" M48X2	22	75	54.5	15.5	20.5	73.5	89.5	115
DSL	10	66.5	85	34	G 1/2" M22X1.5	14	42	22.5	18.5	10.5	33.5	49	80
	15	79.5	100	42	G 3/4" M27X2	16	57	30.5	17.5	13	50.5	72.5	100
	20	79.5	100	47	G1" M33X2	18	57	30.5	17.5	13	50.5	72.5	100
	25	97	120	56	G 1 1/4" M42X2	20	75	54.5	15.5	20.5	84	99.5	125
	30	97	120	61	G1 1/2" M48X2	22	75	54.5	15.5	20.5	84	99.5	125



YS

YS
DOUBLE-DIRECTION HYDRAULIC LOCK

SYMBOL

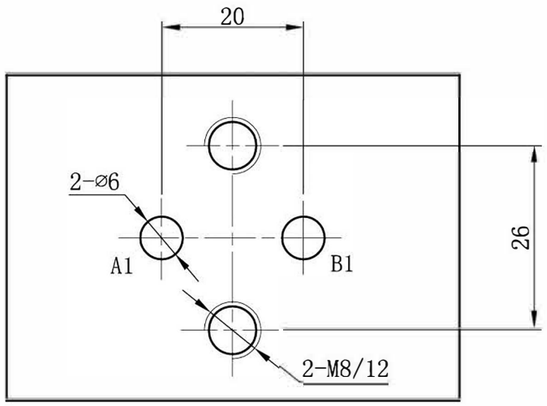


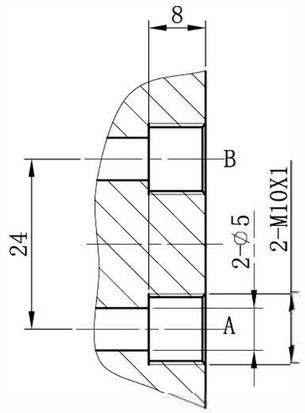
YS series double-direction lock is used to close two oil ports for pressure maintaining.The valve features: long time no leakage,good pressure maintaining

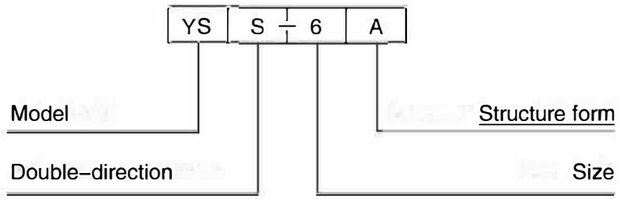
Technical data

Nominal pressure(MPa)	31.5
Flow rate(L/min)	25
Valve body (Material) Surface treatment	Steel Body Surface Black Oxide
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15

Subplate Installation Dimensions

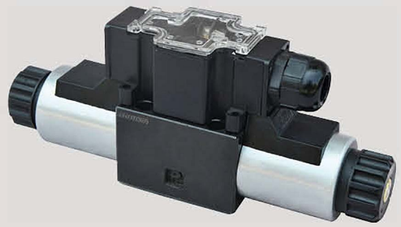


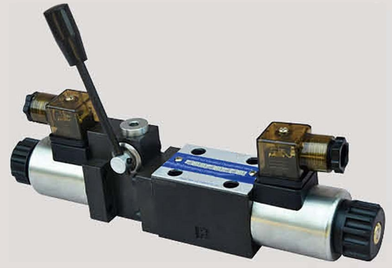




GDVE - 06

GDVE - 06
SOLENOID OPERATED DIRECTIONAL CONTROL VALVES



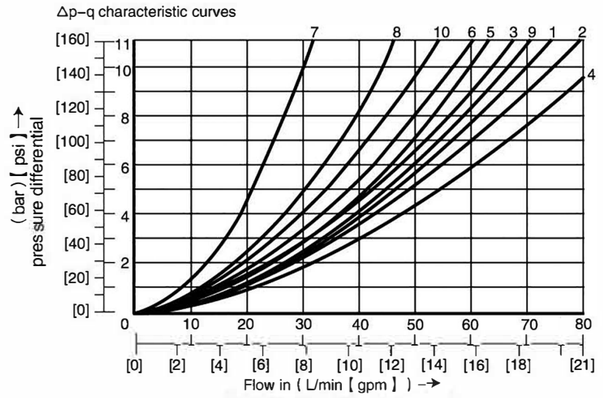


GDVE-O6 series directional control valves are solenoid operated directional spool valves ,these valves are used to the start ,stop and direct flow.

Technical data

Size		6
Max.flow rate(L/min)		60
Operating pressure(MPa)		A、B、P oil port 31 .5
		T oil port 16
Without Handle/With Handle Weight(KGS)	1 COIL	1.6/2.2
	2 COIL	2.2/2.8
Valve body (Material) Surface treatment		asting phosphating surface

Characteristic curves (measured with HLP46， Voil=40℃ ± 5℃[104°F ± 9°F])



7 Spool symbol "3C29" in spool position B→A
8 Spool symbol "3C6" in central position
9 Spool symbol "3C3" in central position P→T

Spool symbol	Flow direction			
	P – A	P – B	A – T	B – T
2B8; 2B8L	3	3	–	–
2B3	1	1	3	1
2B2, 2B2L	5	5	3	3
3C2	3	3	1	1
3C5	1	3	1	1
3C6	10	10	9	9
3C3	2	4	2	2
3C4	1	1	2	1
3C12	3	3	4	9
3C9	2	4	3	3
3C25	3	1	1	1
3C29	5	5	4	–
V	1	2	1	1
W	1	1	2	2
3C10	3	3	9	4
G	6	6	9	9

Spool symbols

2B2		2B2L		3C2	2B2B	2B2BL	
2B3		2B3L		3C3	2B3B	2B3BL	
2B8		2B8L		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	

С пружинным возвратом

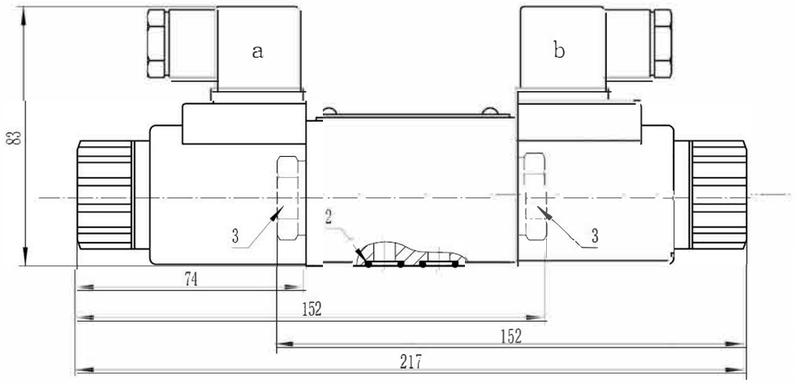
С фиксацией

2D2	
2D3	
2D8	

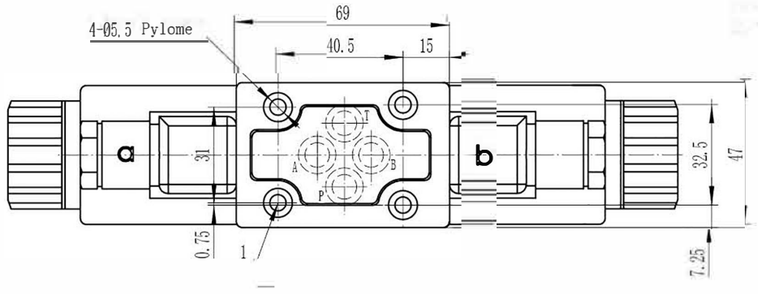
Без возврата и фиксации

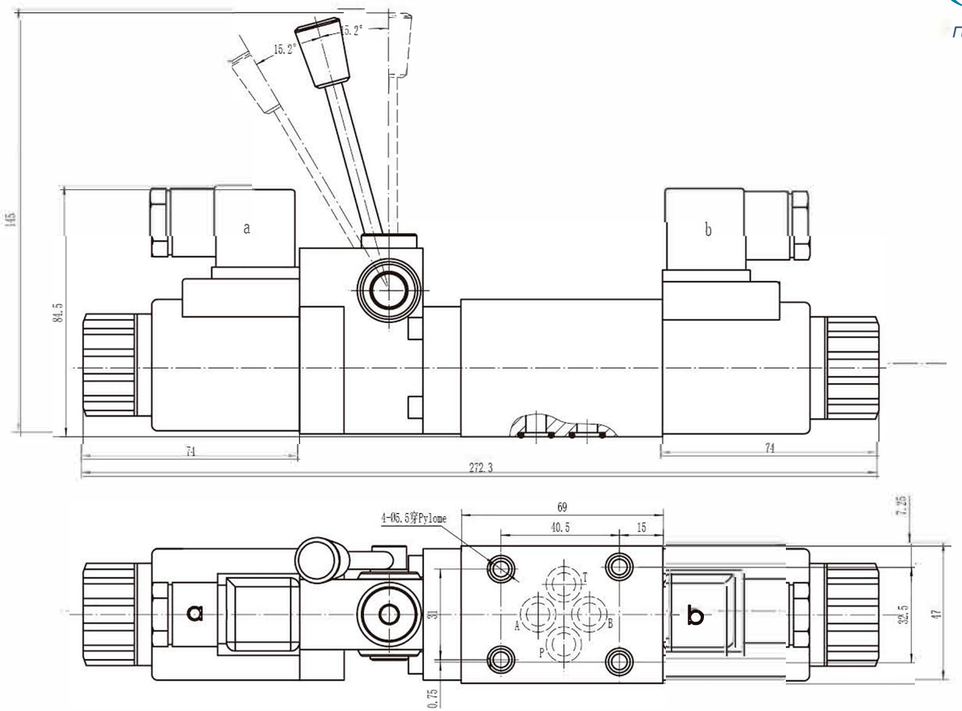
2N2	
2N3	
2N8	

GDV E-06 Subplate Installation Dimensions

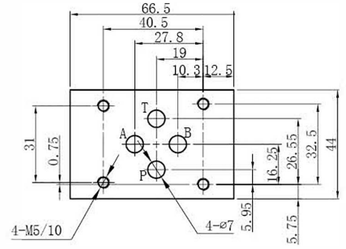


1.Valve’ s set screw
4 of M5 × 45 GB/T70.1−12.9
Tightening torque Ma=8.9Nm.
2.O−ring ϕ 12.3 × 1.9
3.Plug screw for valves with one solenoid.





GDV E-06 Subplate Installation Dimensions



Код для заказа

GDVE – X – X - X - X - X

Электромагнитное управление

Типоразмер
06 - Ду06

Схема управления, см. табл.

Рабочее напряжение
12 DC12V
24 DC24V
48 DC48V
110 AC110V
220 AC220V

без кода - без ручного дублирования
M - ручное дубрирование

GDVE - 10

GDVE - 10 SOLENOID OPERATED DIRECTIONAL CONTROL VALVES

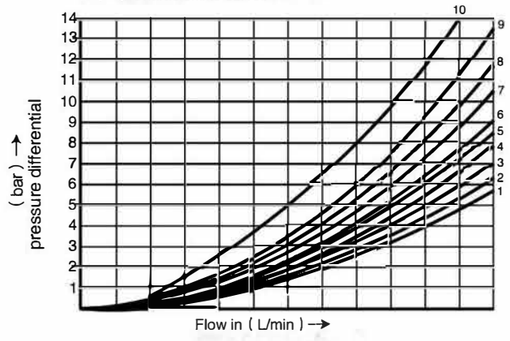
GDVE - 10 series directional control valves are solenoid operated directional spool valves,these valves are used to the start ,stop and direct flow.

Technical data

Size		10
Max.flow rate(L/min)		120
Operating pressure(MPa)		A、B、P oil port 31 .5
		T oil port 16
Weight(KGS)	1 coil	4.6
	2 coil	6.4
valve body (Material) Surface treatment		casting phosphating surface
Oil cleanliness		NAS1638 class 9 and ISO4406 class 20/18/15

Characteristic curves (measured with HLP46， Voil=40℃ ± 5℃)

△ p–q_v Characteristic curves

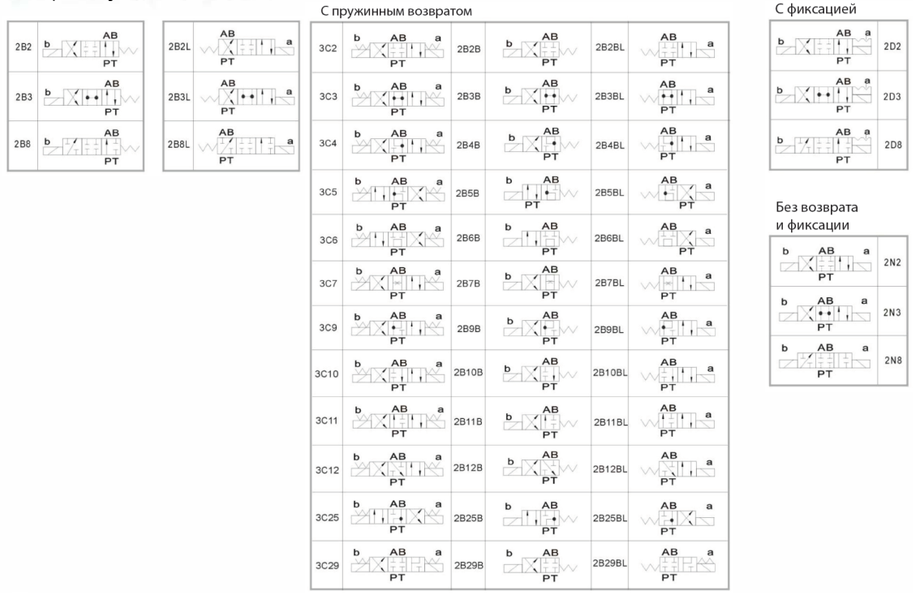


Spool symbol	Flow direction P – A	P – B	A – T	B – T
2B8; 2B8L	3	3	–	–
2B3	3	3	4	5
2B2; 2B2L	5	5	6	6
3C2	1	1	4	4
3C5	2	3	7	4
3C6	3	3	6	7
3C3	1	1	6	7
3C4	1	1	3	3
3C12	2	2	3	5
3C9	1	1	4	5
3C25	4	2	5	7
Q	1	2	1	3
3C29	3	6	4	–
T	3	3	6	7
U,V	2	2	3	3
W	2	2	4	5

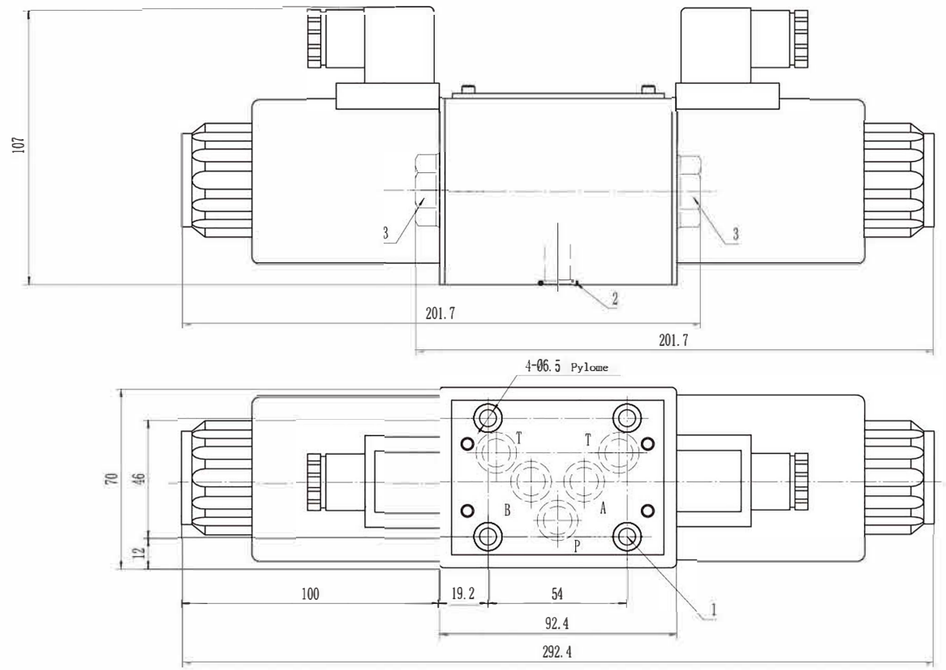
on-positon	P–A	B–A	A–T	P–T
3C29	–	9	–	–

	P – A	P – B	B – T	A – T	P – T
3C5	4	–	–	9	9
9	–	5	8	–	10
3C6			–	–	9
3C3			–	–	3

Spool symbols

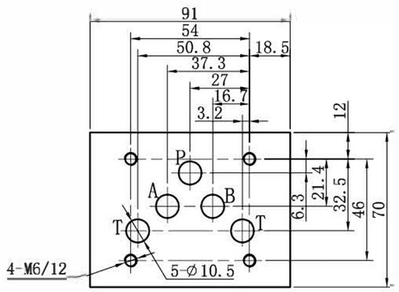


GDVE-10 Subplate Installation Dimensions



1.Valve’s set screw:
4 of M6 × 40 GB/T70.1–12.9
Tightening torque Ma=15.5Nm.
2.O–ring ϕ 16 × 1.9
3.Plug screw for valves with one solenoid.

GDVE-10 Subplate Installation Dimensions



Код для заказа

GDVE – X – X – X

Электромагнитное управление

Типоразмер
10 - Ду **10**

Схема управления, см. табл.

Рабочее напряжение
12 DC12V
24 DC24V
48 DC48V
110 AC110V
220 AC220V

GDVEH

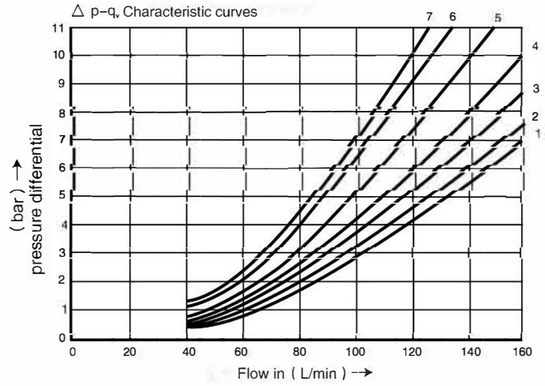
GDVEH
SOLENOID PILOT OPERATED DIRECTIONAL VALVES

GDVEH series are solenoid pilot operated spool type valves . This series are used to control the start ,stop and direction of flow.

Technical data

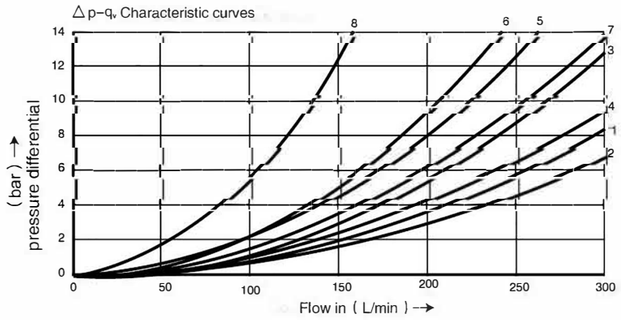
Size		10	16	25	32
Max operating pressure P.A.B(MPa)		31.5	35	35	35
T Port (MPa)	Externally drained	31.5	25	25	25
	Internally drained	(AC)–10	(AC)–10	(AC)–10	(AC)–10
		(DC)–16	(DC)–16	(DC)–16	(DC)–16
Y Port (MPa)	Externally drained	(AC)–10	(AC)–10	(AC)–10	(AC)–10
		(DC)–16	(DC)–16	(DC)–16	(DC)–16
Min. Pilot pressure(MPa)		0.45–1	0.45–1.3	0.45–1	0.45–1
Max. flow rate(L/min)		160	300	650	1100
Weight(KGS)		6.7	9.5	18	38.5
Valve body (Material) Surface treatment		casting phosphating surface			
Oil cleanliness		NAS1638 class 9 and ISO4406 class 20/18/15			

Characteristic curves: Type GDVEH-10 ... (measured with HLP46, Voil=40℃ ± 5℃)



Spool symbol	Spool position P–A	P–B	A–T	B–T	Spool symbol	Central position A–T	B–T	P–T
3C2.2B2.2B2L	2	2	4	5				
3C5	1	4	1	4		3	–	6
3C6	4	2	2	6		–	–	7
3C3, 2B3	4	4	1	4		1	3	5
3C4	1	2	1	3				
3C12	2	3	1	4		3	–	–
3C9	4	4	3	4				
3C25	4	1	3	4		–	7	5
Q,V,W,Z	2	2	3	5				
3C29	2	2	3	–				
U	3	3	3	4		–	4	–

Characteristic curves: Type GDVEH-16 ... (measured with HLP46, Voil=40℃ ± 5℃)



Spool symbol	Spool position P–A	P–B	A–T	B–T	P–T
3C2, 2B2, 2B2L	1	1	1	3	–
3C5	2	2	3	3	–
3C6	5	1	3	7	6
3C3, 2B3	2	2	3	3	–
3C4, 3C12	1	1	3	3	–

Spool symbol	Spool position P–A	P–B	A–T	B–T	P–T
3C9	2	2	4	3	–
3C29	2	2	4	–	–
U	1	1	4	7	–
S	4	4	4	–	8

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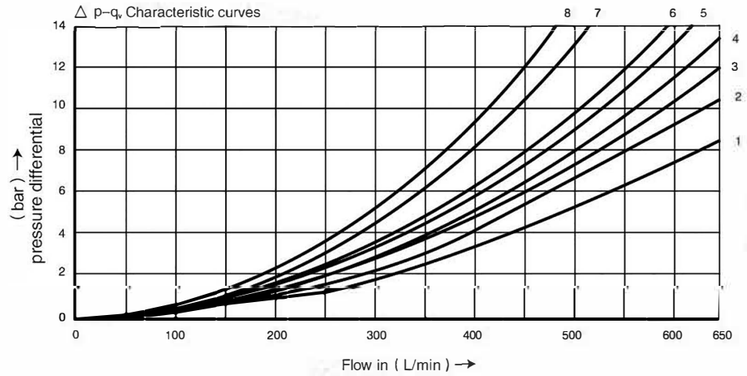
Characteristic curves: Type GDVEH-25 ... (measured with HLP46, Voil=40℃ ± 5℃)



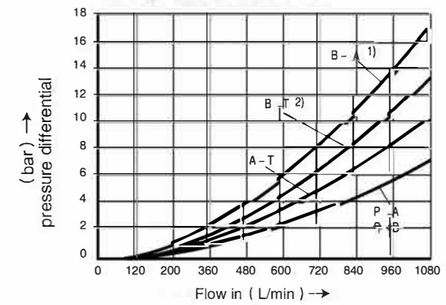
Spool symbol	Spool position P–A	P–B	A–T	B–T
3C2	1	1	**1**	3
3C5	1	4	3	3
3C6	3	1	2	4
3C3	4	4	3	4
3C4	2	2	3	5

Spool symbol	Spool position P–A	P–B	A–T	B–T
3C12	2	2	3	3
3C9	4	4	1	4
3C25	4	**1**	1	5
3C29	2	1	1	–

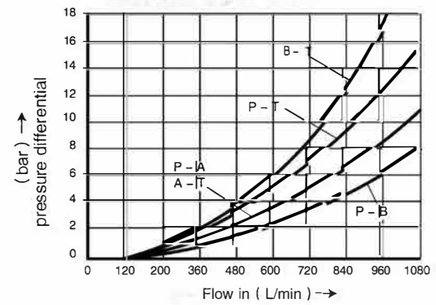
Spool symbol	Spool position P–A	P–B	A–T	B–T
U	4	1	1	6
V	2	4	3	6
W	1	1	1	3
T	3	1	2	4

Characteristic curves: Type GDVEH-32 ... (measured with HLP46, Voil=40℃ ± 5℃)

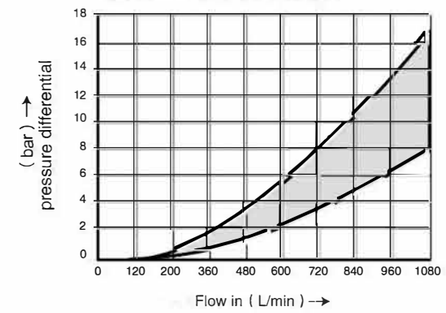
△ p–q, Characteristic curves–Spool 3C2



△ p–q, Characteristic curves–Spool 3C6



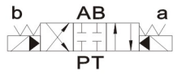
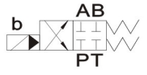
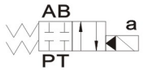
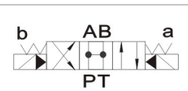
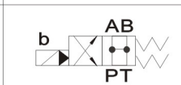
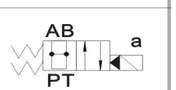
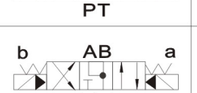
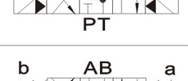
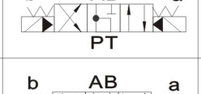
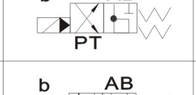
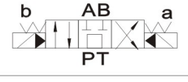
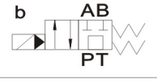
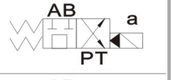
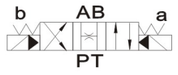
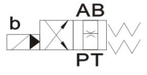
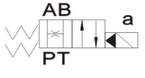
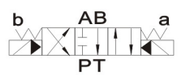
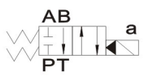
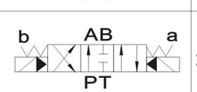
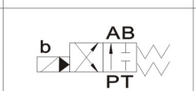
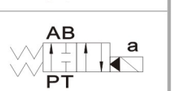
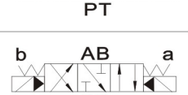
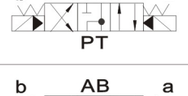
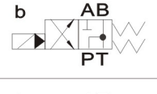
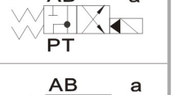
△ p–q, Characteristic curves–All spool type

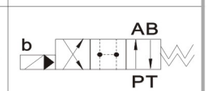


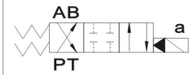
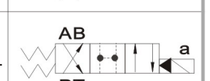
1) Only applicable for spool 3C29
2) Not applicable for spool 3C29

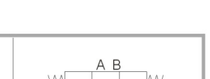
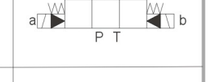
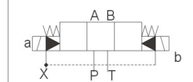
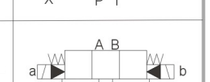
Spool symbols

Spring return

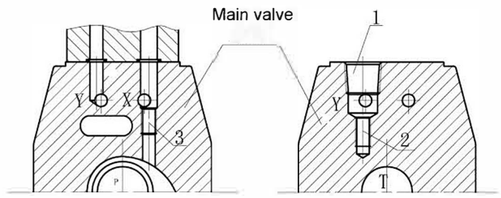
3C2		2B2B		2B2BL	
3C3		2B3B		2B3BL	
3C4		2B4B		2B4BL	
3C5		2B5B		2B5BL	
3C6		2B6B		2B6BL	
3C7		2B7B		2B7BL	
3C9		2B9B		2B9BL	
3C10		2B10B		2B10BL	
3C11		2B11B		2B11BL	
3C12		2B12B		2B12BL	
3C25		2B25B		2B25BL	
3C29		2B29B		2B29BL	

2B2	
2B3	
2B8	

2B2L	
2B3L	
2B8L	

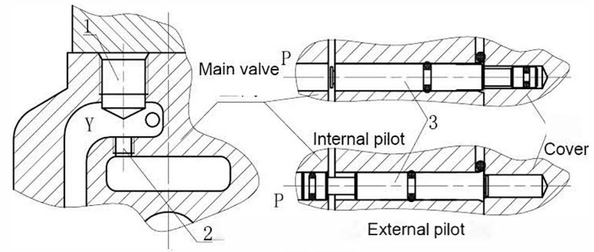
...	
X	
Y	
XY	

Pilot fluid supply



GDV H-10
explanation partial drawing

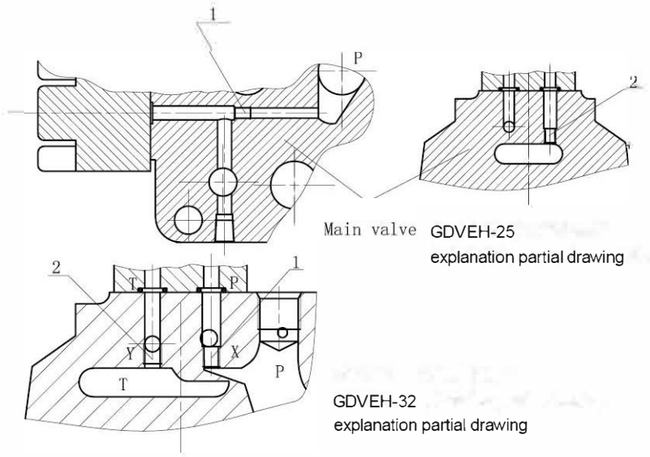
(1) Internal pilot and external pilot:
The“P”port with M6 screw 3 is external pilot,to convert valve into internal pilot, the M6 screw 3 must be removed.
(2) Internal drain and external drain:
Removing the bolt 1, to install M6 screw 2 is external drain,unscrew the M6 screew 2 is internal drain.



GDVEH-16
explanation partial drawing

(1) Internal pilot and external pilot:
Removing the sideward cover, installing the pin to allow “P” port with open position is internal pilot, to convert the pin into “P” port with plugged position is external drain.
(2) Internal drain and external drain:
Removing the bolt 1 and installing M6 screw 2 is external drain, unscrew the M6 screw 2 is internal drain.

Pilot fluid supply



3、GDVEH - 25

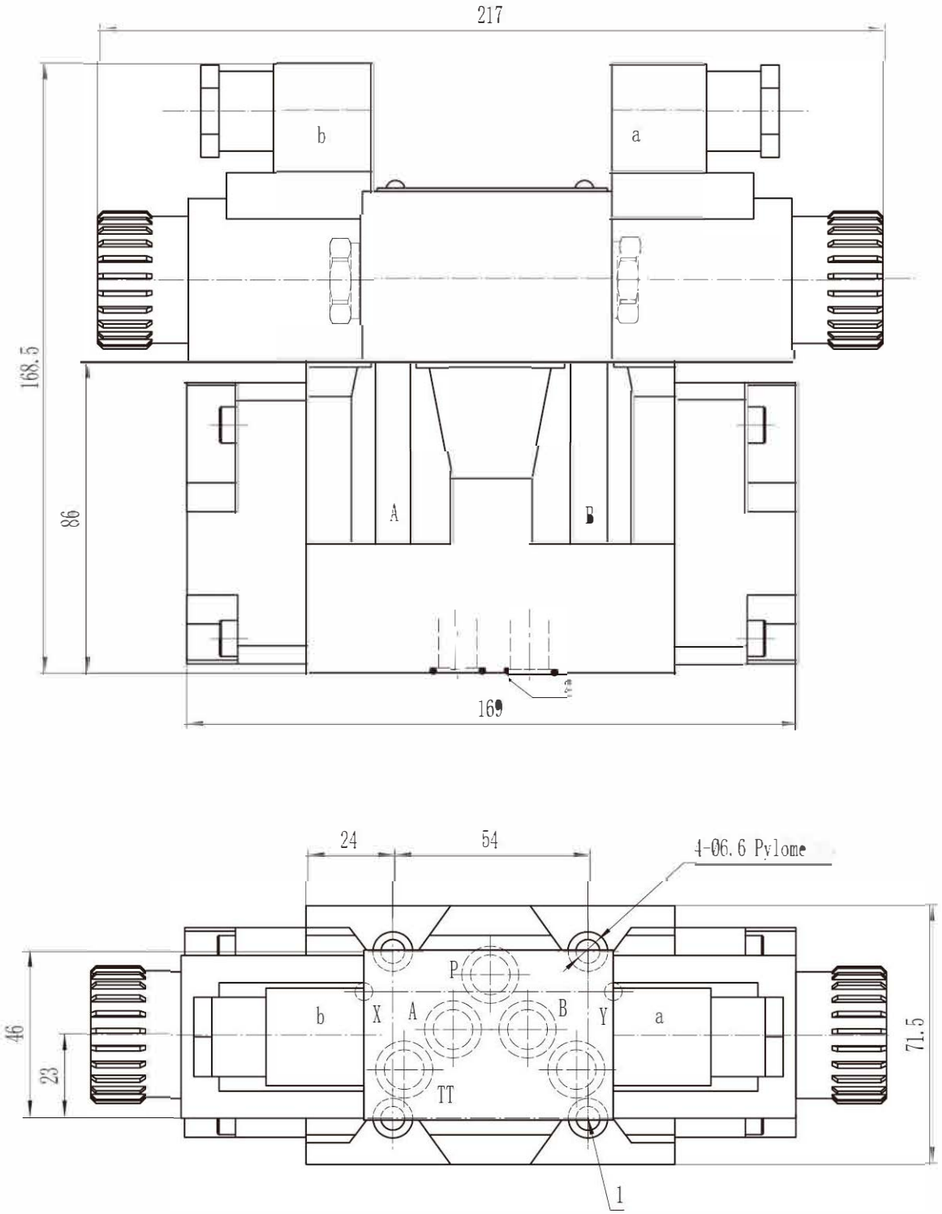
(1) Internal pilot and external pilot: Removing the sideward cover,installing M6 screw 1 is external pilot,unscrew the M6 screw 2 is internal pilot.
(2) Internal drain and external drain: Removing the M6 screw 2 in the “T”port on the top of main valve is internal drain, installing the M6 screw 2 is external drain.

4、GDVEH - 32

1、Internal pilot and external pilot:
Installing the M6 screw 1 in the“P”port on the top of main valve is external pilot; removing the M6 screw 1 is internal pilot.
2、Internal drain and external drain: Removing the M6 screw 2 in the“T”port on the top of main valve is external drain; installing the M6 screw 2 is internal drain.

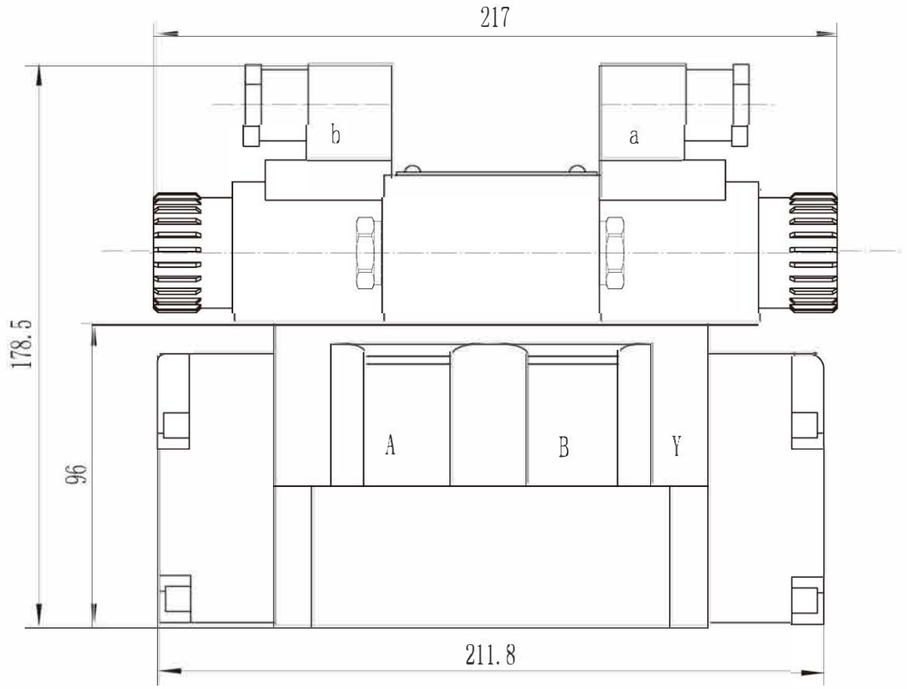
NOTE : 1 .The “X” port on the base plate must be plugged if internal pilot.
2.The “Y” port on the base plate must be plugged if internal drain.

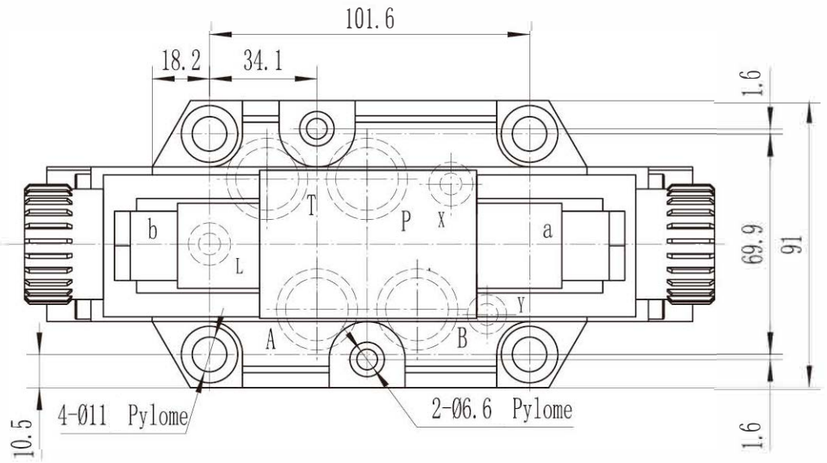
GDVEH - 10 Subplate Installation Dimensions



1.Valve’ s set screw
4 of M6×45 GB/T70.1-12.9
Tightening torque Ma=15.5Nm.
2.O-ring ϕ16×1.9

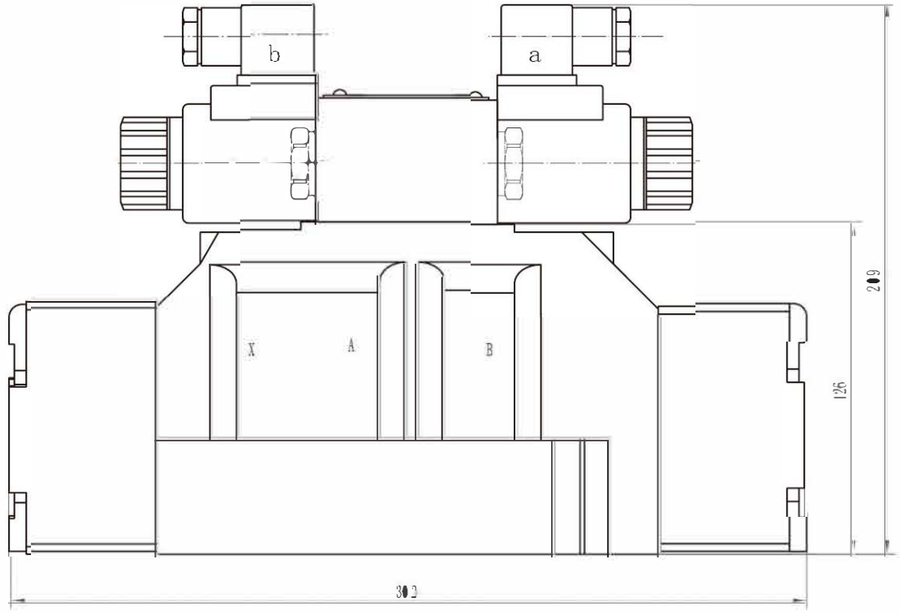
GDVEH - 16 Subplate Installation Dimensions

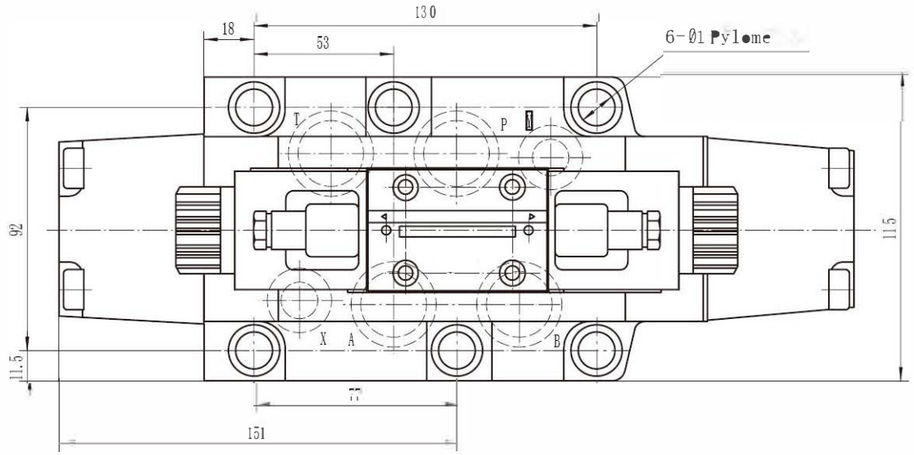




Valve' s set screw
4 of M10 x 60 GB/T70.1-12.9 Tightening torque Ma=75Nm.
2 of M6 x 60 GB/T70.1-12.9 Tightening torque Ma=15.5Nm.
O-ring for P.T.A.B Port: ϕ 26 x 2.4
O-ring for X.Y.L Port: ϕ 15 x 1.9

GDVEH - 25 Subplate Installation Dimensions

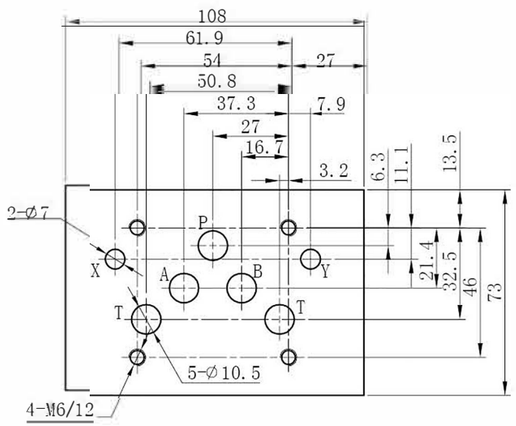




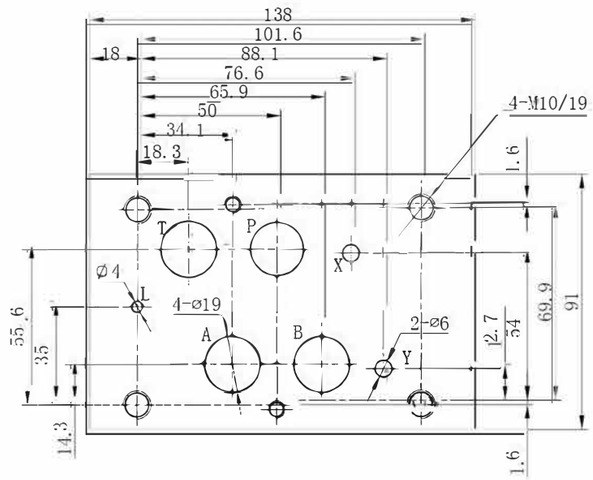
Valve' s set screw
6 of M12 x 60 GB/T70.1-12.9 Tightening torque Ma=130Nm.
O-ring for P.T.A.B Port: ϕ 34 x 3.1
O-ring for X.Y Port: ϕ 25 x 3.1

Installation dimensions

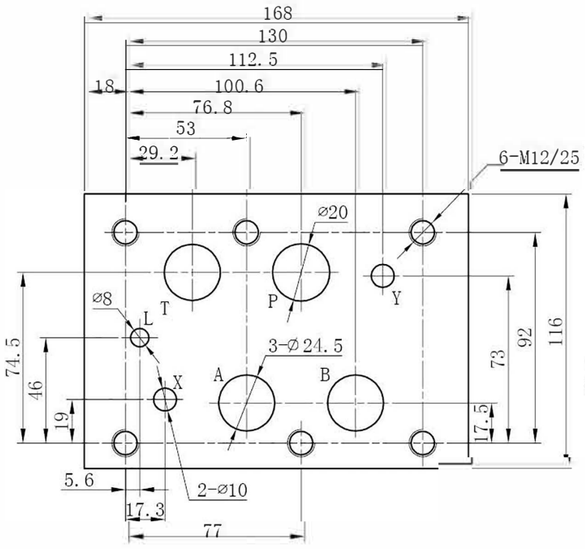
GDVEH - 10



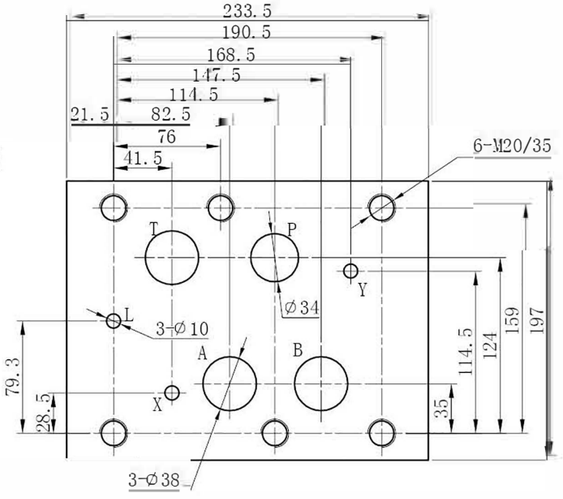
GDVEH - 16



GDVEH - 25



GDVEH - 32



GDVEH | 1 0 | | 3C2 | 24 |

MODEL

Size 10;16;25;32

No code=spring return
H=Hydraulic centration

See the function symbol of spool valve

24=DC24V; 48=DC48V;
220=AC220V; 11O=AC11OV

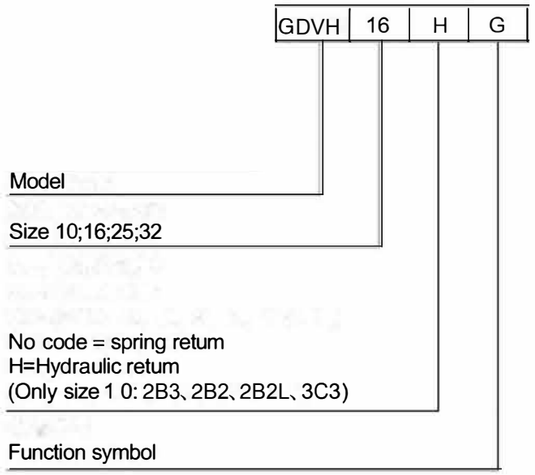
No code = Internally pilot, internally drained
Y = Internally pilot, externally drained
X = Externally pilot, internally drained
XY = Externally pilot, externally drained

GDVH

GDVH
HYDRAULIC OPERATED DIRECTIONAL VALVES

GDVH series hydraulic operated directional valves can be used to change the direction of hydraulic oil by moving the main spool when the valve receives a hydraulic signal from the pilot hydraulic oil.

Installation dimensions is the same with G , refer to page 44



GDVM

GDVM
MANUALLY OPERATED DIRECTIONAL VALVES

GDVM series manually operated directional valves are direct type directional valves ,It can control the start ,stop & direction of fluid flow. This series with detent or return spring are available.

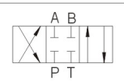
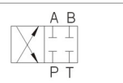
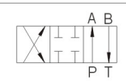
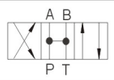
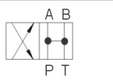
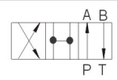
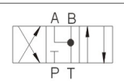
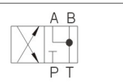
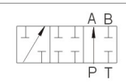
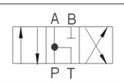
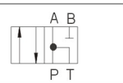
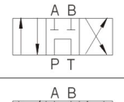
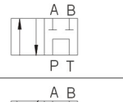
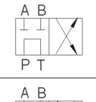
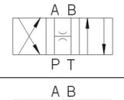
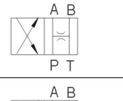
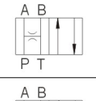
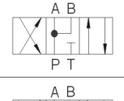
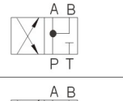
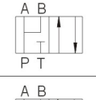
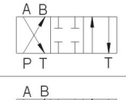
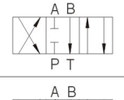
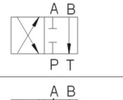
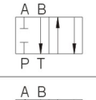
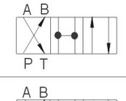
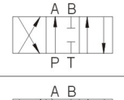
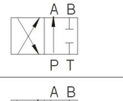
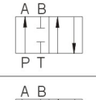
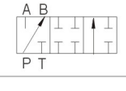
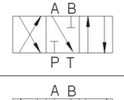
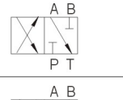
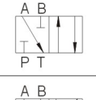
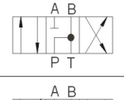
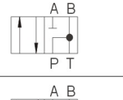
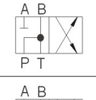
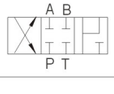
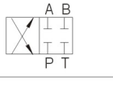
Technical data

Size	6	10	16	25	32
Series No	60	100	300	650	1100
Operating pressure(Mpa)	A、B、P oil ports 31.5T oil ports16				
Weight(KGS)	1.5	4.4	8.9	19.4	39.2
Valve body (Material) Surface treatment	casting phosphating surface				
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15				

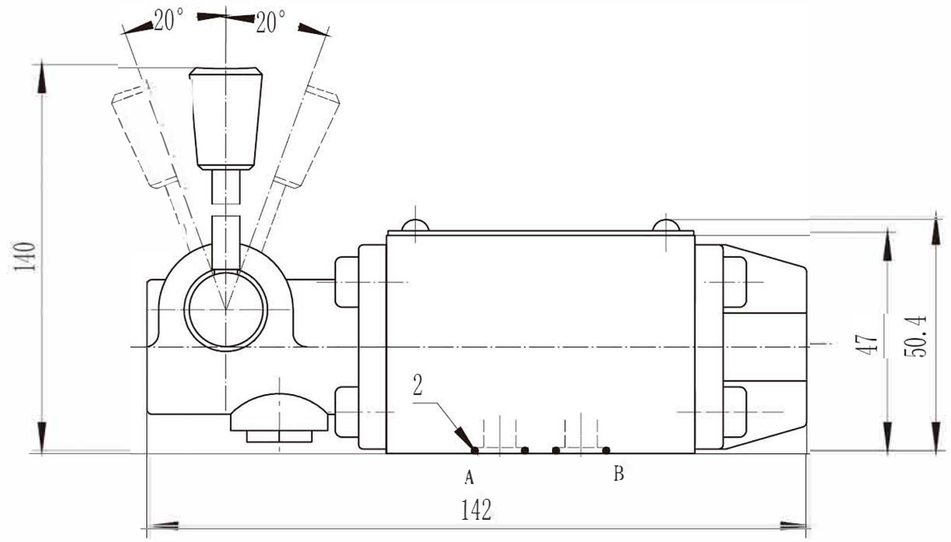
GDVM Spool symbols

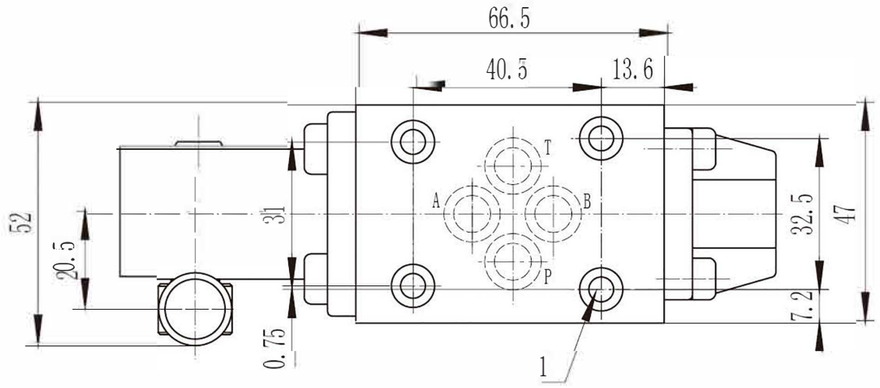
Spring return

With detent

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

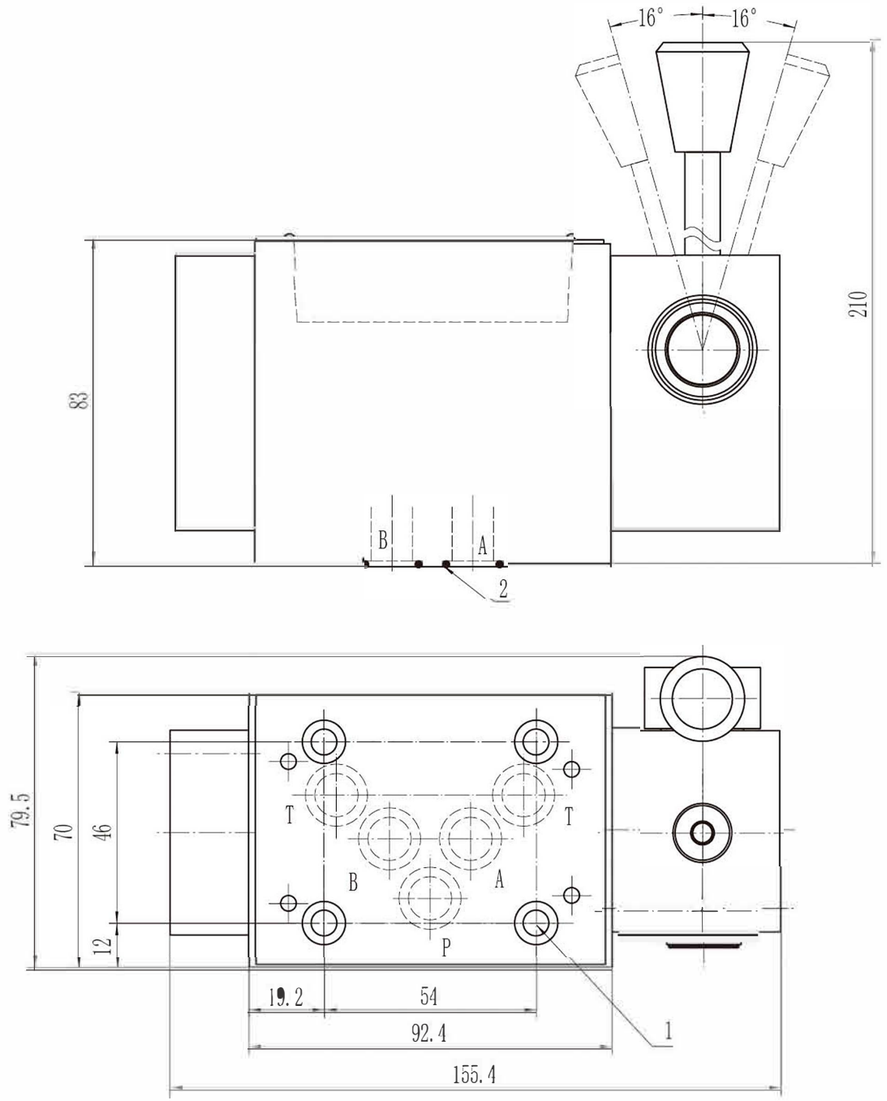
GDVM - 6 Subplate Installation Dimensions





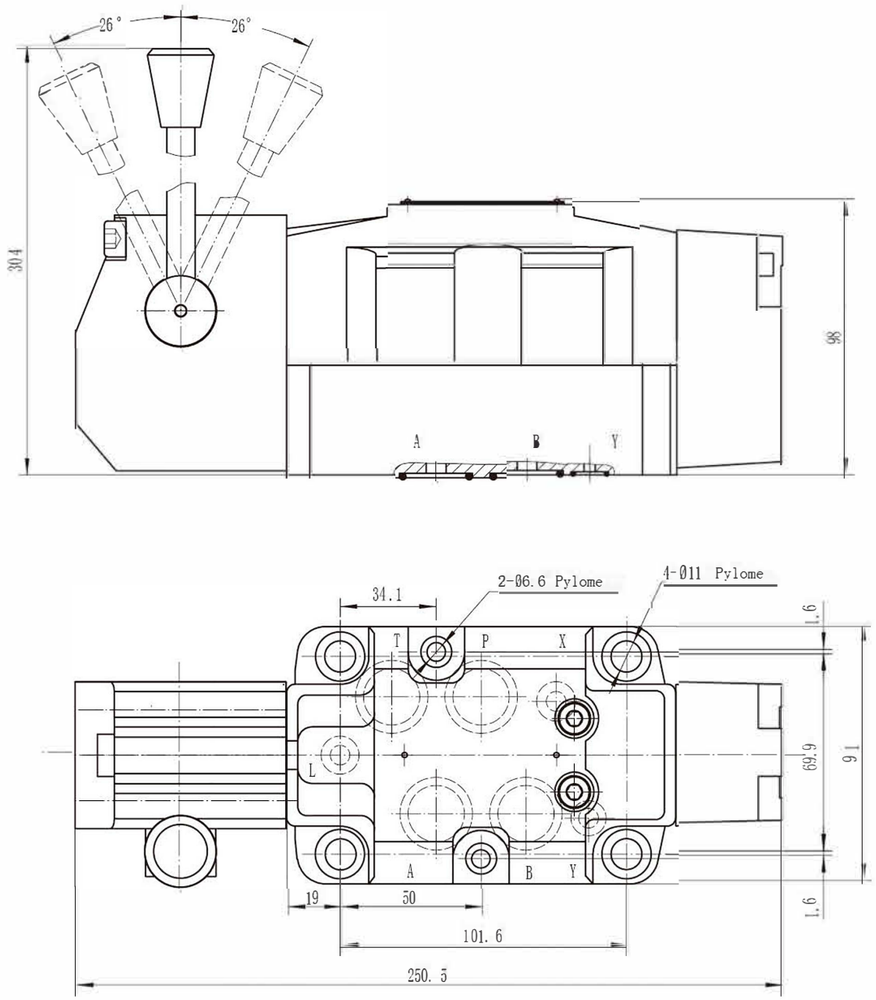
1.Valve’s set screw
4 of M5×50 GB/T70.1-12.9
Tightening torque Ma=9Nm.
2.O-ring ϕ12.3×1.9

GDVM 10 Subplate Installation Dimensions



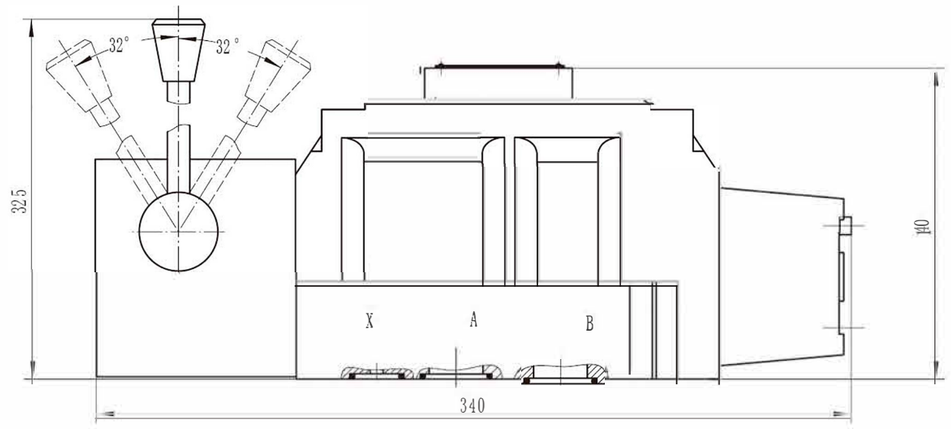
1.Valve’s set screw
4 of M6 ×50 GB/T70.1–12.9
Tightening torque Ma=15.5Nm.
2.O–ring ϕ16×1.9

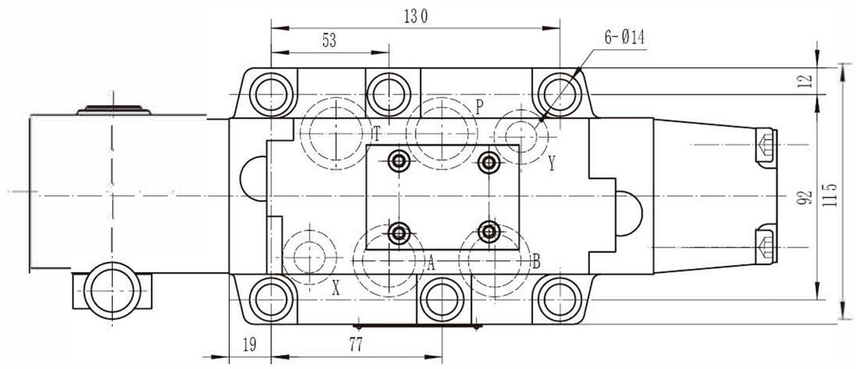
GDVM 16 Subplate Installation Dimensions



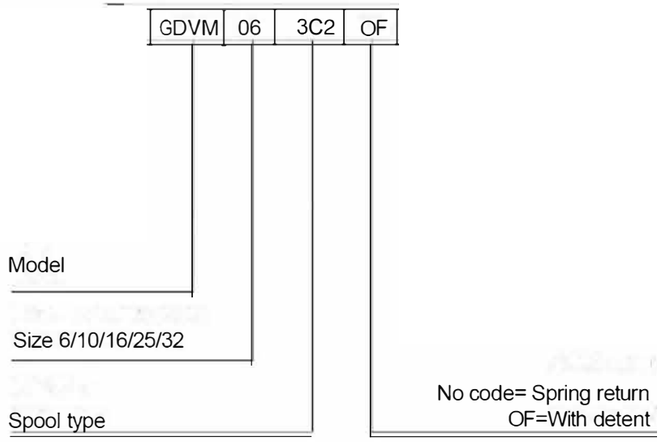
Valve’s set screw
4 of M10×60 GB/T70.1–12.9 Tightening torque Ma=75Nm.
2 of M6×60 GB/T70.1–12.9 Tightening torque Ma=15.5Nm.
O–ring for P.T.A.B Port: ϕ26×2.4
O–ring for X.Y.L Port: ϕ15×1.9

GDVM - 25 Subplate Installation Dimensions





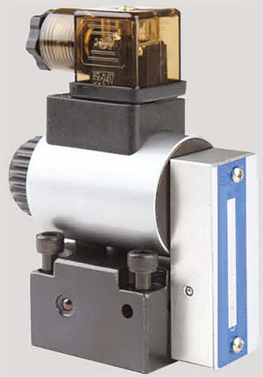
Valve’s set screw
6 of M12 × 60 GB/T70.1–12.9 Tightening torque Ma=130Nm.
O–ring for P.T.A.B Port: ϕ34 × 3.1
O–ring for X.Y Port: ϕ25 × 3.1



QDE

QDE
DIRECTIONAL BALL VALVES

SYMBOL



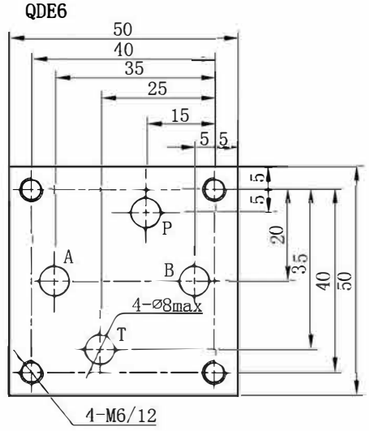
QDE series are solenoid are solenoid operated poppet valves, they are used to control the start ,stop and direction of flow.

Technical data

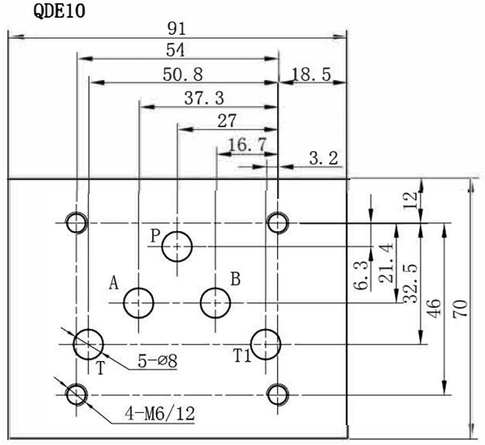
Size	6U	6C	6D	6Y	10U	10C	10D	10Y
Operating pressure(Mpa)	16	16	12	12	30	24	30	24
Rated flow(L/min)	31.5							
Weight(KGS)	1.2	1.2	1.2	1.2	2.8	2.8	2.8	2.8
Valve body (Material) Surface treatment	Steel Body Surface Black Oxide							
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15							

Subplate Installation dimensions

QDE6



QDE10



M — 3 | QDE | 6 | U | 20 | 315 | DC24 | N | Z5L | P | B0.8

Mineral hydraulic oil

3=3 actuator ports
4=4 actuator ports

Model

Size 6; 10

U=2/3 way normally open
C=2/3 way normally closed
D=2/4 way; Y=2/4 way

Series number

Operating pressure

DC24=DC24V;AC220=AC220V
DC12=DC12V;AC110=AC110V

No code=Without manual overrides
N=With manual overrides

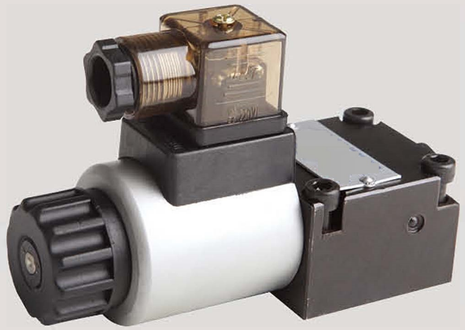
Z5L=Large quadrate plug with light

No code=Without cartridge check valves
P=With cartridge check valves

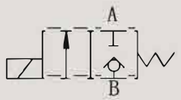
No code=Without throttle insert
B0.8=Throttle 0.8
B10=Throttle 1.0
B12=Throttle 1.2
B14=Throttle 1.4
B15= Throttle 1.5
B18=Throttle 1.8
B20=Throttle 2.0
B22=Throttle 2.2

QE

QE SOLENOID OPERATED UNLOADING BALL VALVES



SYMBOL

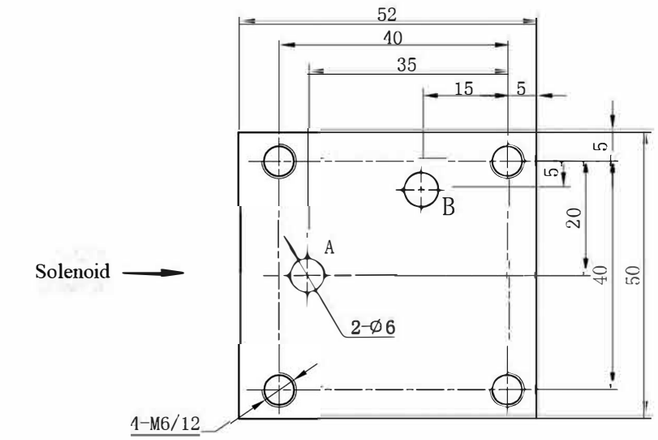


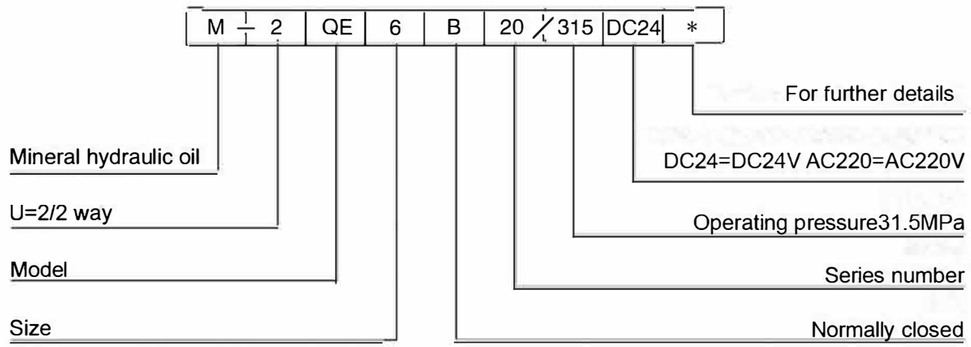
QE series solenoid operated unloading ball valve is used to control the opening and closing in pilot return lines.
It is often used for releasing the pressure in pressure-maintaining return lines

Technical data

Max. operating pressure(Mpa)	31.5
Max .flow rate(L/min)	16
Weight(KGS)	1.3
Valve body（Material） Surface treatment	Steel Body Surface Black Oxide
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15

Subplate mounting Installation dimensions

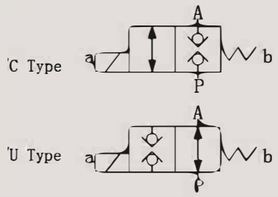


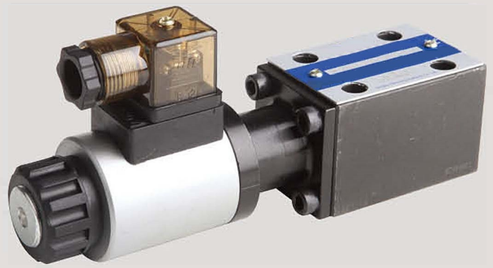


M-2SED

M-2SED
DIRECTIONAL BALL VALVES

SYMBOL



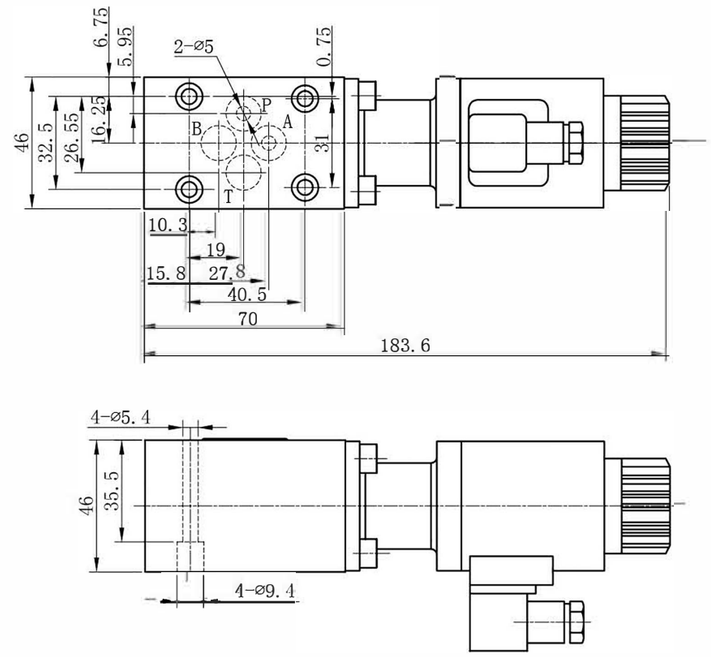


M-2SED series direction valves are solenoid directional loose valves,these valves are used to control the oil flow, stop and direct.

Technical data

Size	M-2SED
Operating pressure(Mpa)	20
Flow rate(L/min)	20
Valve body (Material) Surface treatment	casting phosphating surface
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15

Subplate Installation dimensions



M – 2 | SED | 6 | C | 10 / 20 | DC24 | N | Z5L | B0.8

2=2 actuator ports

Model

Size 6

U=2/2 way normally open
C=2/2 way normally closed

Series number

Operating pressure 20MPa

DC24=DC24V;AC220=AC220V
DC12=DC12V;AC110=AC110V

No code=Without manual overrides
N=With manual overrides

Z5L=Large quadrate plug with light

No code=Without throttle insert
B0.8=Throttle 0.8
B10=Throttle 1.0
B12=Throttle 1.2
B14=Throttle 1.4
B15=Throttle 1.5
B18=Throttle 1.8
B20=Throttle 2.0
B22=Throttle 2.2

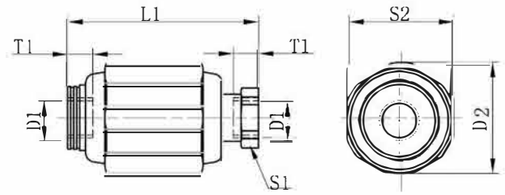
FG

FG
THROTTLE VALVES
FK
THROTTLE CHECK VALVES

SYMBOL

FG / FK series throttle/throttle check valves mounted on the oil pipe lines di-rectly.FG throttle valve is used to regulate flow by turning adjustment sleeve.FK throttle check valve is used to control flow in one direction and allow free flow in the opposite.

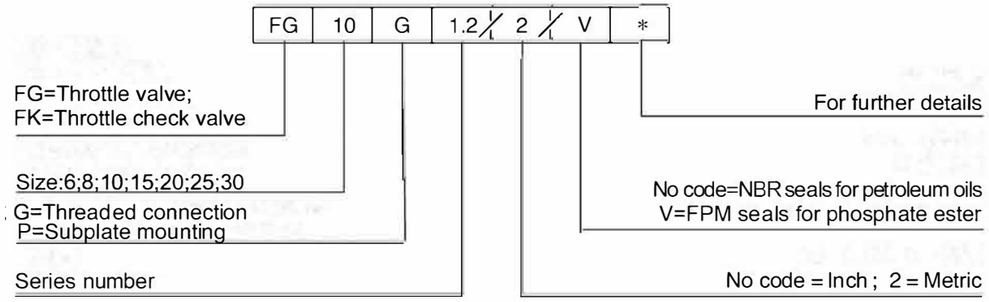
FG Drawing



Size	D1		D2	L1	S1	S2	T1
	Metric	Inch					
6	M14X1.5	G1/4"	34	65	22	32	12
8	M18X1.5	G3/8"	38	65	24	36	12
10	M22X1.5	G1/2"	48	80	30	46	14
15	M27X2	G3/4"	58	100	41	55	16
20	M33X2	G1"	72	110	46	70	18
25	M42X2	G1 1/4"	87	130	55	85	20
30	M48X2	G1 1/2"	93	150	60	90	22

Technical data

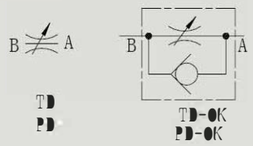
Size		6	8	10	15	20	25	30
Operating pressure(Mpa)		31.5	31.5	31.5	31.5	31.5	31.5	31.5
Flow rate(L/min)		15	30	50	125	200	300	400
Inch		G1/4"	G3/8"	G1/2"	G3/4"	G1"	G1 1/4"	G1 1/2"
Metric		M14 x 1.5	M18 x 1.5	M22 x 1.5	M27 x 2	M33 x 2	M42 x 2	M48 x 2
Cracking pressure of check valve		0.05MPa						
Weight(KGS)	FK	0.3	0.4	0.7	1.3	2.3	3.8	4.8
	FG							
Valve body (Material) Surface treatment		Steel Body Surface Black Oxide						
Oil cleanliness		NAS1638 class 9 and ISO4406 class 20/18/15						



TD / TD-OK

TD
THROTTLE VALVES
TD-OK
THROTTLE CHECK VALVES

SYMBOL

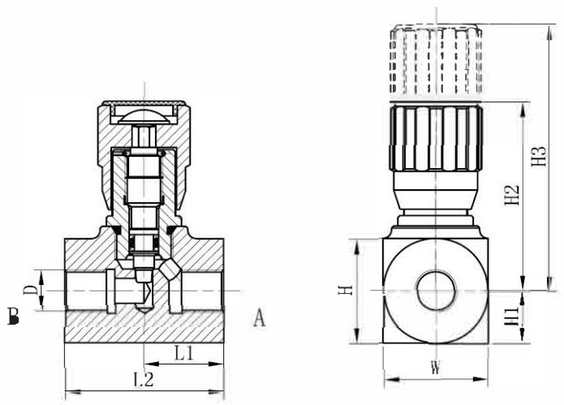


TD TD-OK series throttle check valves are used to regulate the speed of actuators simply and precisely.

Technical data

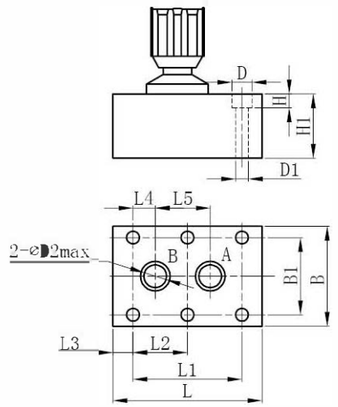
Size		6	8	10	12	16	20	25	30
Operating pressure(Mpa)		35	35	35	35	35	35	35	35
Flow rate(L/min)		16	24	35	45	60	100	150	210
Inch		G1/8"	G1/4"	G3/8"	G1/2"	G3/4"	G1"	G1 1/4"	G1 1/2"
Metric		M10 x 1	M14 x 1.5	M18 x 1.5	M22 x 1.5	M27 x 2	M33 x 2	M42 x 2	M48 x 2
Cracking pressure of check valve		0.05MPa							
Pipeline type panel connection		M12 x 1.5	M18 x 1.5	M18 x 1.5	M22 x 1.5	M22 x 1.5	M33 x 1.5	M36 x 1.5	M36 x 1.5
Weight(KGS)	TD	0.4	0.3	0.5	0.8	1.1	2.3	4.4	3.8
	TD-OK	0.4	0.3	0.5	0.8	1.1	2.3	4.4	5.3
	PD	0.25	0.7	1	1.2	2.5	4.3	8.3	11.2
	PD-OK	0.26	0.7	1	1.4	2.7	4.7	8.8	12.2
Valve body (Material) Surface treatment	TD TD-OK	STEEL BODY SURFACE Color zinc plating							
	PD PD-OK	Steel Body Surface Black Oxide							
Oil cleanliness		NAS1638 class 9 and ISO4406 class 20/18/15							

TD / TD-OK Unit Dimensions

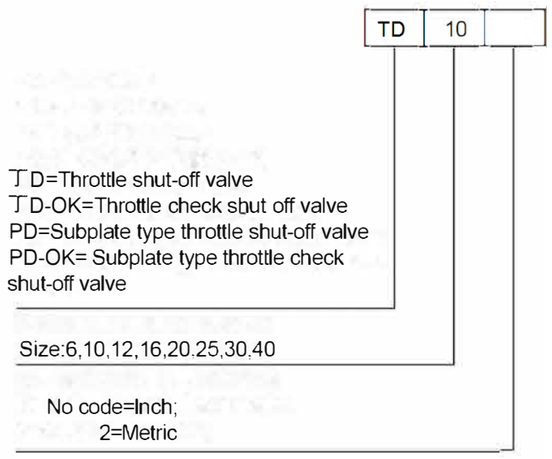


Size	D		W x H	H1	H2	H3	L1		L2	
							TD	TD-OK	TD	TD-OK
6	G1/8"	M10X1	16X16	8	50	55	19	26	38	45
8	G1/4"	M14X1.5	33X28	12.5	69.5	76.5	32.5	40	63.5	63.5
10	G3/8"	M18X1.5	35X37	15	82	89	32.5	41	65	70
12	G1/2"	M22X1.5	35X37	17.5	84	94	44	44	73	73
16	G3/4"	M27X2	45X50	22.5	91	101	44	57	88	88
20	G1"	M33X2	56X56	26	129	146	49	79	98	127
25	G1 1/4"	M42X2	63X63	30	135	152	54	91	108	143
30	G1 1/2"	M48X2	73X73	35	140	157	54	91	108	143

PD / PD-OK Installation dimensions



Model	D	D1	D2	H	H1	L	L1	L2	L3	L4	L5	B	B1
PD PD-OK - 6	4-Φ11	4-Φ6.6	5	7	20/24	41.5	19	/	6.4	1.6	16	41.5	28.5
PD PD-OK - 8	4-Φ11	4-Φ6.6	8	7	25/26	63	35	/	14.2	4.5	25.5	46	33.5
PD PD-OK - 10	4-Φ11	4-Φ6.6	10	7	28/32	70	33.5	/	18	4	25.5	51	38
PD PD-OK - 12	4-Φ11	4-Φ6.6	35X37	7	28/35	80	38	/	21	4	30	57.5	44.5
PD PD-OK - 16	6-Φ14	6-Φ9	45X50	7	54	104	76	38	14	11.4	54	70	54
PD PD-OK - 20	6-Φ14	6-Φ9	56X56	11	58.5	127	95	47.5	16	19	57	76.5	60
PD PD-OK - 25	6-Φ17	6-Φ11	63X63	13	68.5	165	120	60	15	20.6	79.5	100	76
PD PD-OK - 30	6-Φ19	6-Φ13	73X73	18	79	186	143	71.5	15	23.8	95	115	92



2MRB

2MRB
FLOW CONTROL VALVES

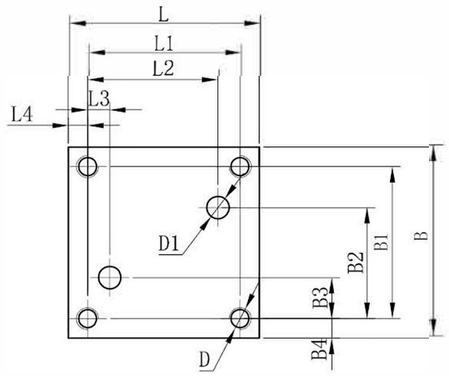
SYMBOL

2MRB series flow control valves are restrictive style flow regulators, without affected by pressure and temperature.

Technical data

Size	5							10				16		
Max.flow rate(A – B)(L/min)	0.2	0.6	1.2	3	6	10	15	10	16	25	50	60	100	160
△P Value(B–A)(Mpa)	0.05	0.05	0.06	0.09	0.18	0.36	0.67	0.2	0.25	0.35	0.6	0.28	0.43	0.73
Operating pressure(Mpa)	21							31.5				31.5		
Min.pressure loss	0.3–0.5							0.3–0.7				0.5–1.2		
Filtering to prolong service life(μm)	25（Q<5L/min);10(Q<0.5L/min）													
Weight(KGS)	1.38							3.4				7.57		
Valve body（Material） Surface treatment	casting phosphating surface													
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15													

2MRB Subplate Installation dimensions



Model	B	B1	B2	B3	B4	L	L1	L2	L3	L4	D	D1
2MRB5	60	48	35	13	6	60	48	41	7	6	4–M5/12	2–Φ6
2MRB10	101.5	82.5	71.6	30.1	9.5	95	76	55.1	9.6	8.5	4–M8/13	2–Φ12
2MRB16	123.5	101.5	90.5	15	11	123.5	101.5	75	20.5	11	4–M10/25	2–Φ20

2MRB	5	30	15	B	V	*

Model

Size:5;10;16

Series number
30=Size5;20=Size10;50=Size16;

See the form table for flow rate (direction A–B)

L/Q/No code=Without pressur
B=With pressure compensating locator

No code=NBR seals for petroleum oils
V=FPM seals for phosphate ester

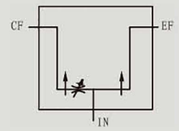
For further details

GIDREX®
Гидрекс-Украина

FC–51

FC-51
FLOW CONTROL VALVES

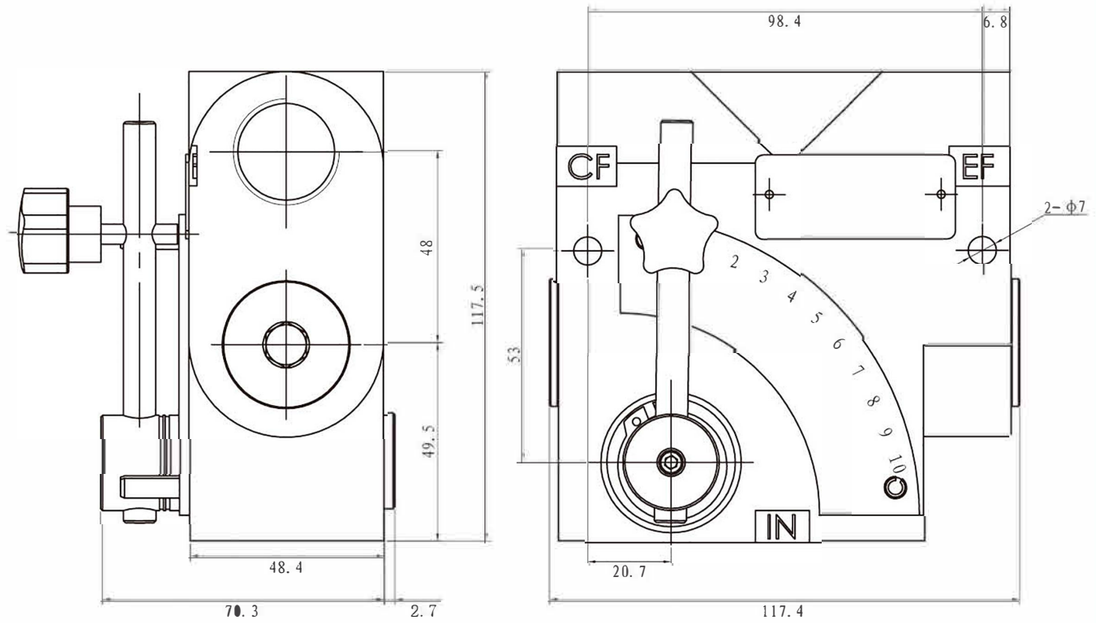
SYMBOL



Technical data

Operating pressure(MPa)	20.7
Max flow rate (L/min)	114
IN、CF、EF	G3/4

External Dimensions and Fittings

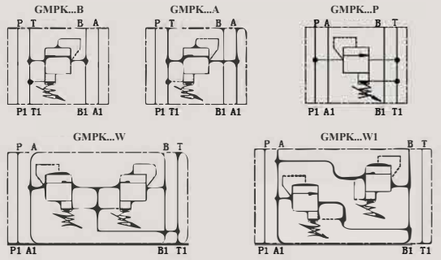


GIDREX®
Гидрекс-Украина

GMPK

GMPK
MODULAR RELIEF VALVES

SYMBOL

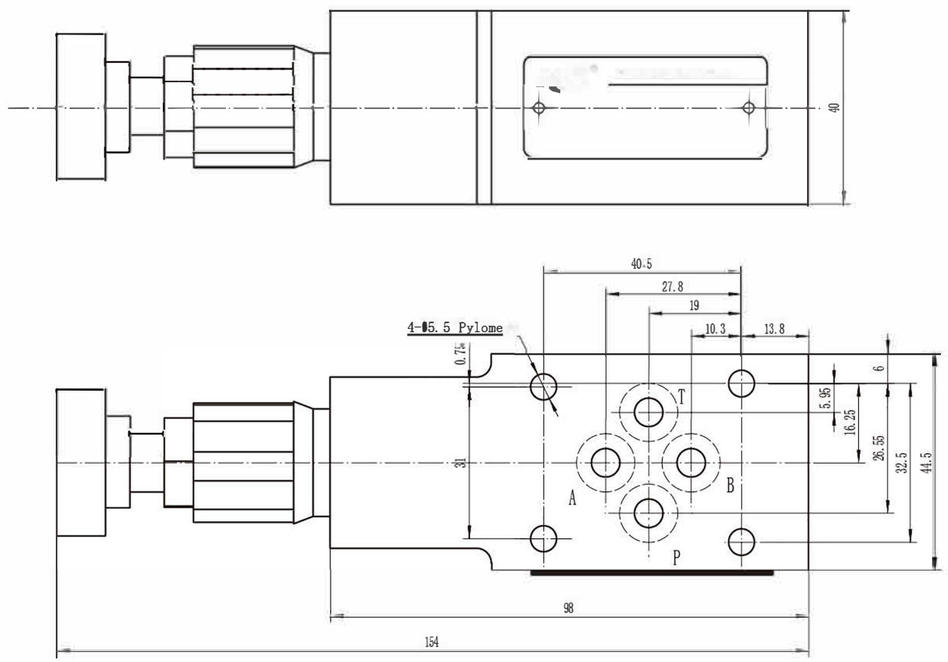


Pressure relief valves of GMPK series are pilot operated style modular valves.

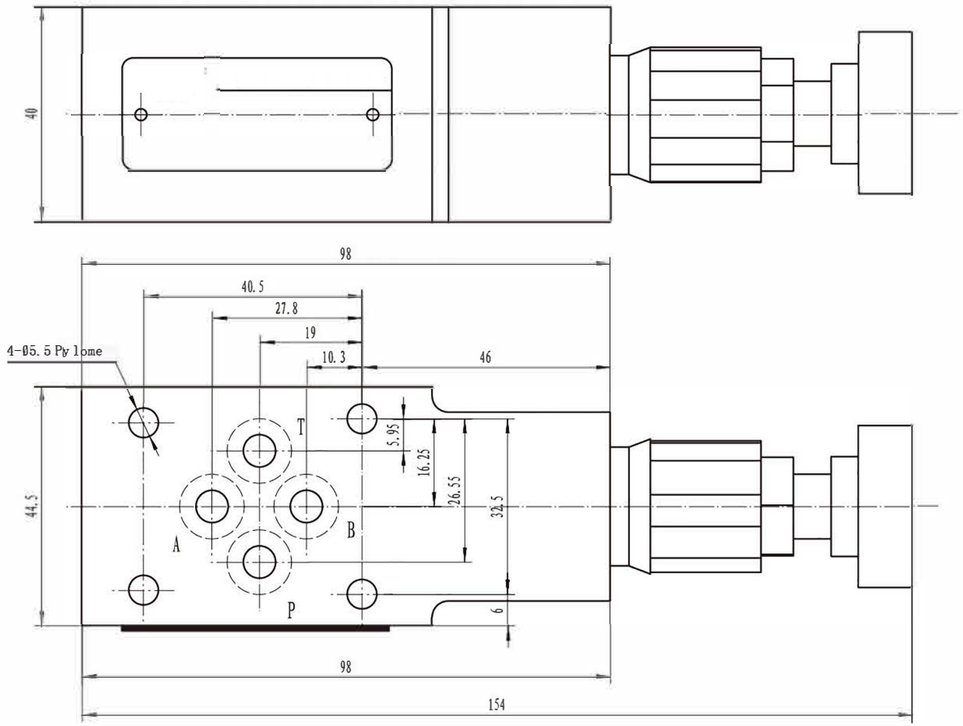
Technical data

Size		6	10	16	22
Operating pressure (MPa)		31.5	31.5	31.5	31.5
Flow rate (L/min)		60	100	200	400
Oil temperature range(℃)		-20 ~ 70	-20 ~ 70	-20 ~ 70	-20 ~ 70
Weight(KGS)	GMPK	1.3	2.6	9.4	9.2
	GMPK...W	1.9	3.1	11.8	10.3
Valve body (Material) Surface treatment		casting phosphating surface			
Oil cleanliness		NAS1638 class 9 and ISO4406 class 20/18/15			

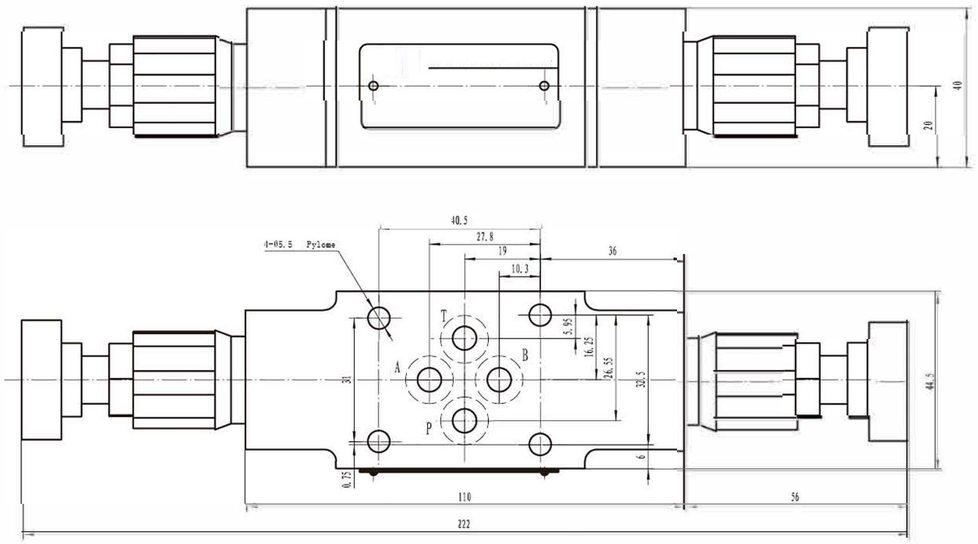
GMPK..06..A External Dimensions and Fittings



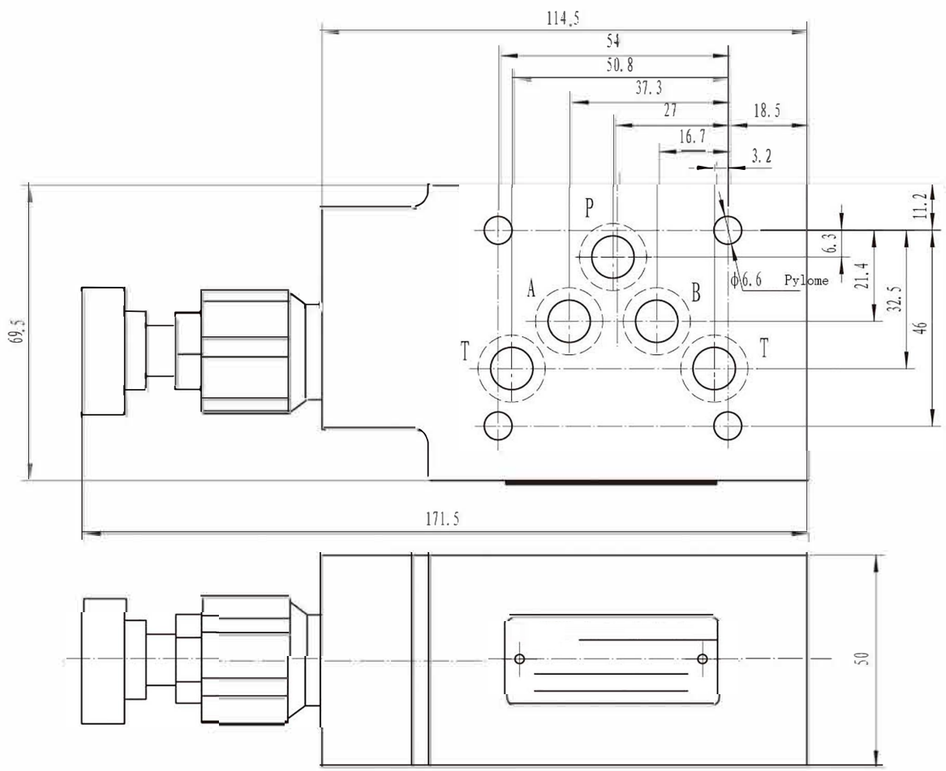
GMPK..06..B P External Dimensions and Fittings



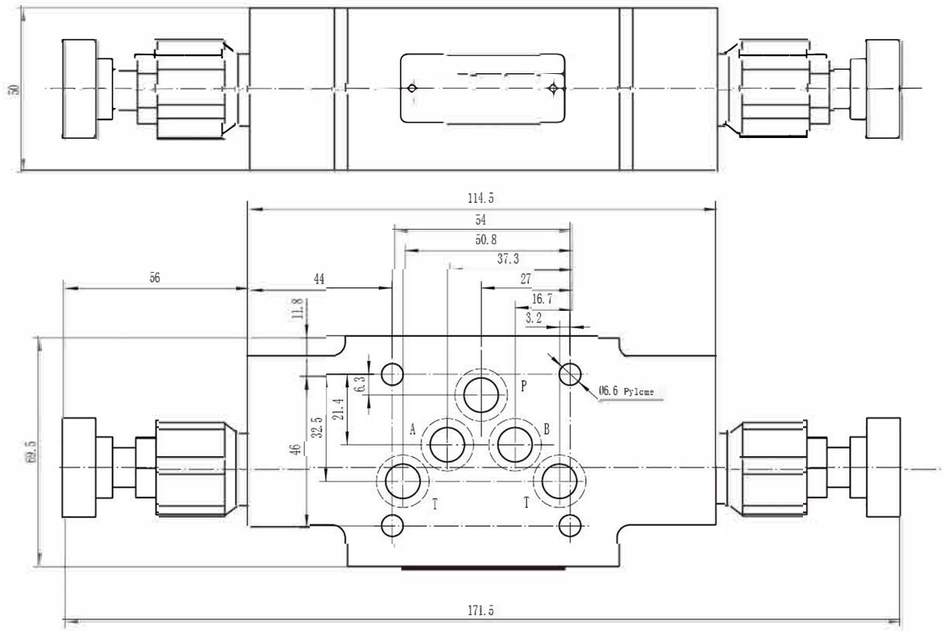
GMPK..06..W External Dimensions and Fittings



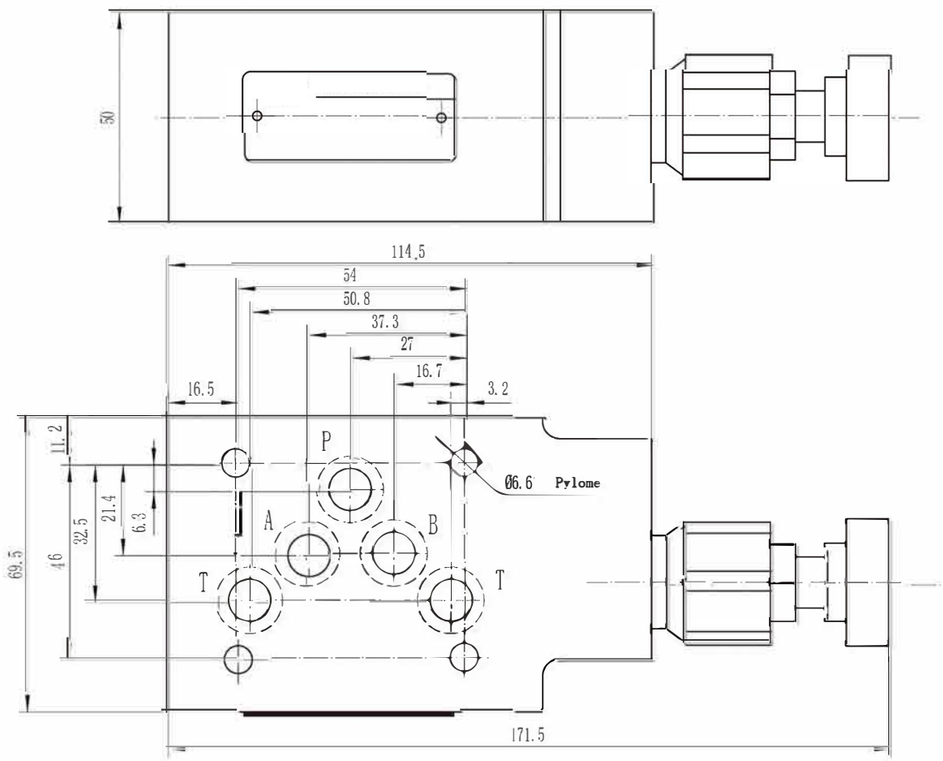
GMPK..10.. External Dimensions and Fittings



GMPK..10..W External Dimensions and Fittings



GMPK..10..B P External Dimensions and Fittings



GMPK	6	P	315

Model

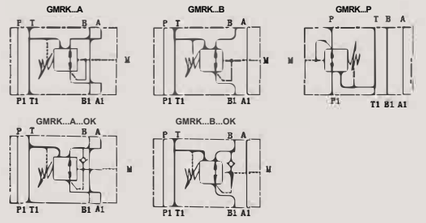
Size:6; 1 0;16;22

Relief from
A: A→T
B: B→T
P: P→T
W: A→ T B→ T
W1:A→B B→A

Pressure range
50:5Mpa
100:10Mpa
200:20Mpa
315:31.5Mpa

GMRK
DIRECT MODULAR REDUCING VALVES

SYMBOL

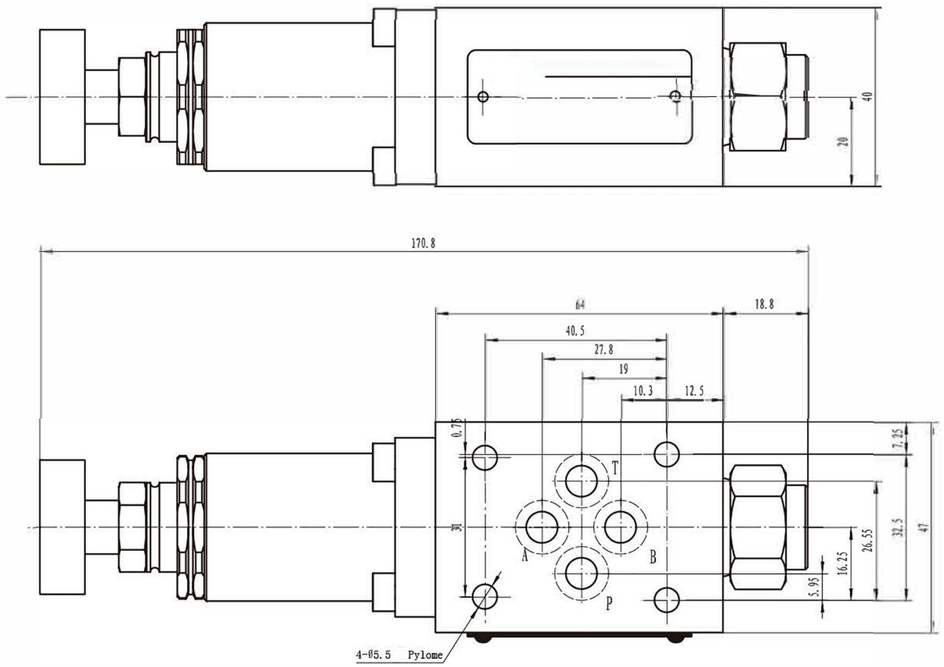


GMRK series are 3-way direct operated pressure reducing valves, which are used to reduce the pressure in a certain circuit lower than of the main circuit.

Technical data

Size	6	10
Operating pressure(Mpa)	31.5	31.5
Second working pressure(Mpa)	21	21
Back pressure(MPa)	6	6
Flow rate(L/min)	30	60
Fluid temperature(℃)	-20 ~ 80	-20 ~ 80
Weight(KGS)	1.3	2.8
Valve body（Material） Surface treatment	casting phosphating surface	
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15	

GMRK-06 External Dimensions and Fittings



GMRK	06	A	25	

Model

Size 6;10

Pilot oil port
A=A oil port
B=B oil port
P=P oil port

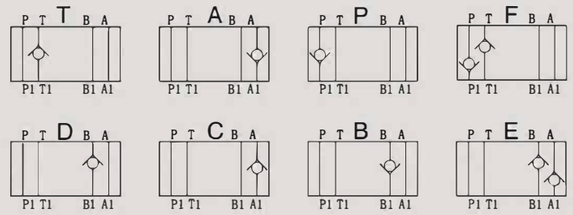
Pressure range
25 = 2.5Mpa
75 = 7.5Mpa
150 = 15Mpa
210 = 21Mpa

No code=Without check valve
OK=With check valve

GMOK

GMOK
MODULAR CHECK VALVES

SYMBOL



GMOK series are direct operated check valves.

Technical data

Size	6	10
Operating pressure(Mpa)	31.5	31.5
Flow rate(L/min)	40	100
Oil temperature range (℃)	-20 ~ 70	-20 ~ 70
Weight(KGS)	0.9	2.3
Valve body (Material) Surface treatment	casting phosphating surface	
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15	

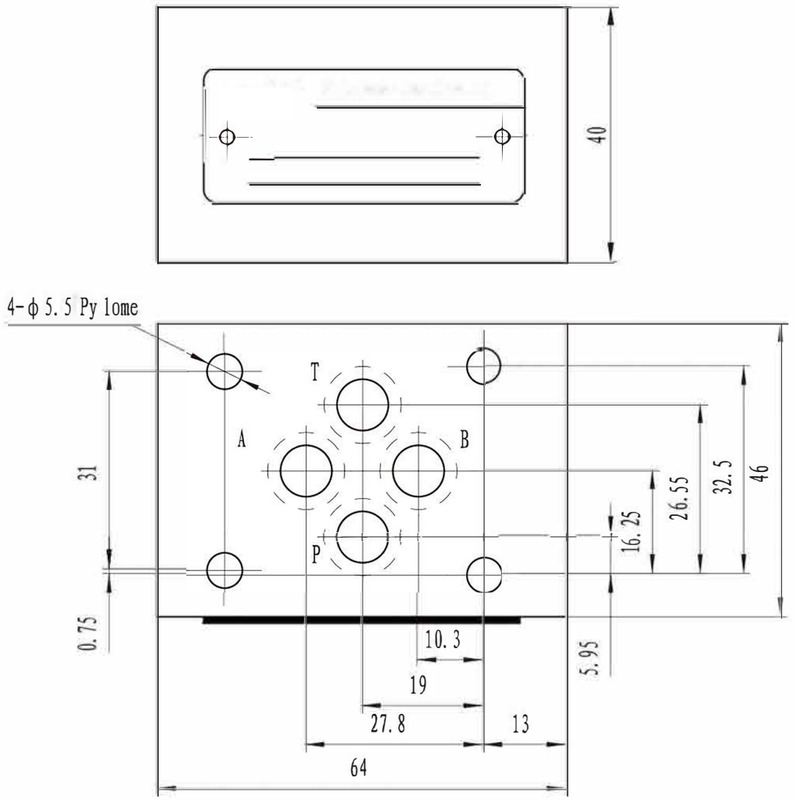
GMOK	6	*

Model

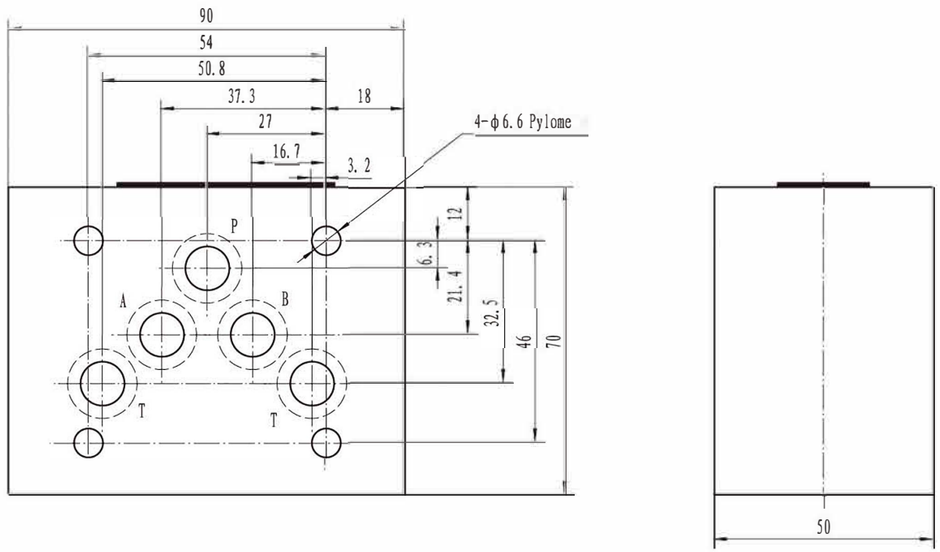
Size:6;10

See the symbol for flow type

GMOK-06 External Dimensions and Fittings



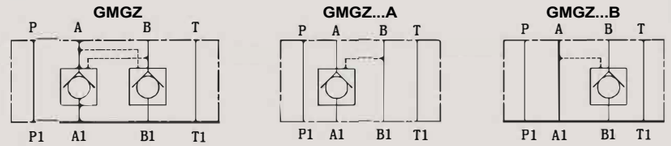
GMOK-10 External Dimensions and Fittings



GMGZ

GMGZ
PILOT CONTROLLED MODULAR CHECK VALVES

SYMBOL

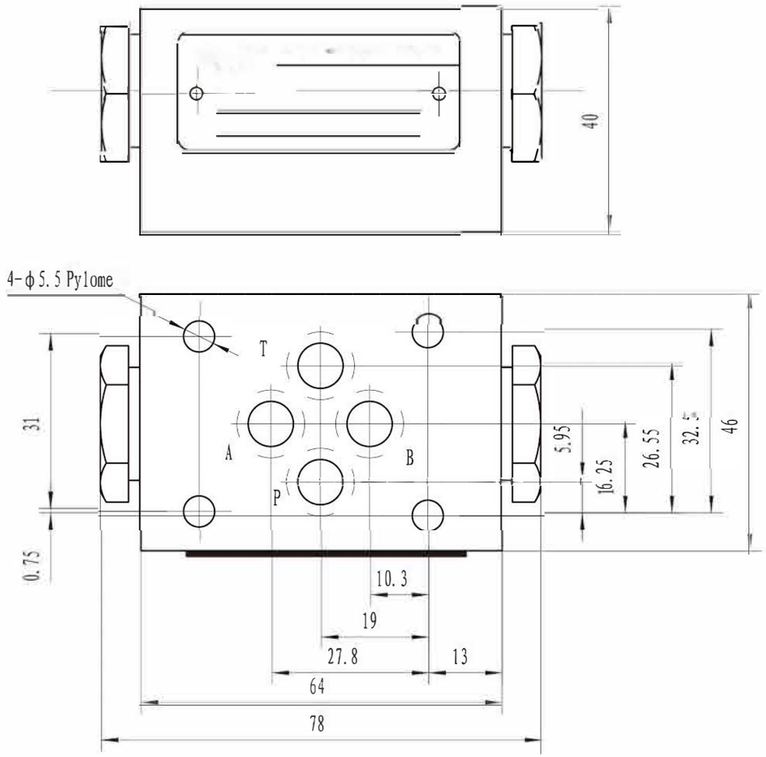


GMGZ series are pilot operated style sandwich valves. These valves used to close one or two actuator ports.

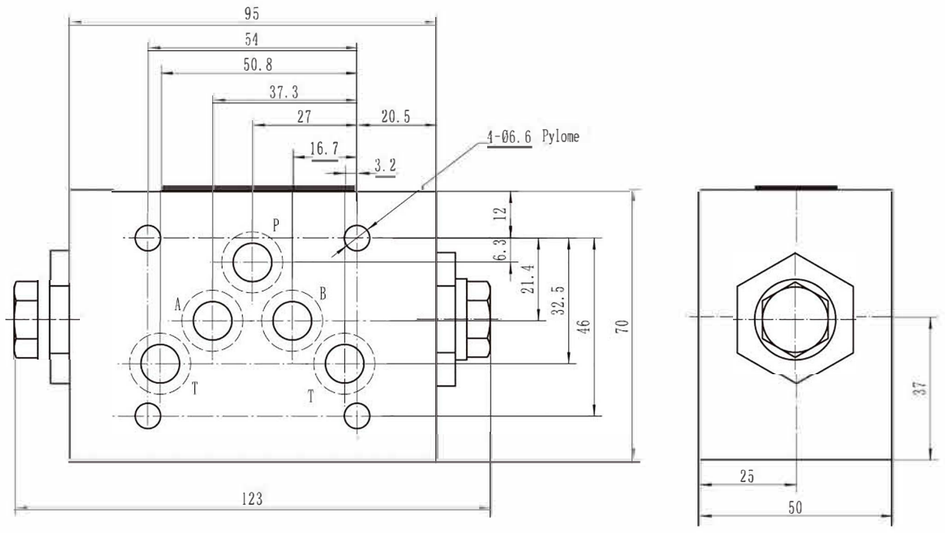
Technical data

Size	6	10	16	25
Operating pressure (MPa)	31.5	31.5	31.5	31.5
Flow rate (L/min)	50	80	200	300
Fluid temperature range (℃)	-30 ~ 80℃	-30 ~ 80℃	-30 ~ 80℃	-30 ~ 80℃
Weight(KGS)	1	2.2	6.8	12.8
Valve body (Material) Surface treatment	casting phosphating surface			
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15			

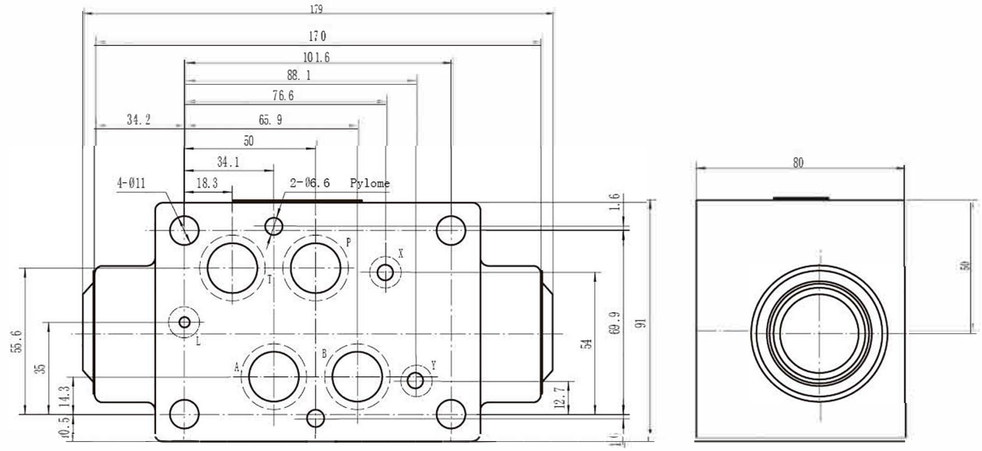
GMGZ-06 External Dimensions and Fittings

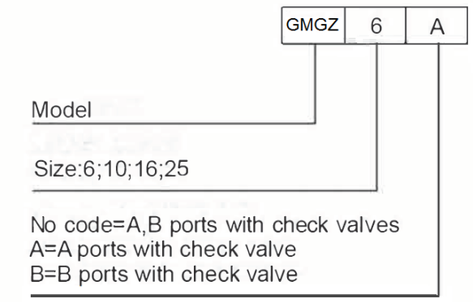


GMGZ-10 External Dimensions and Fittings



GMGZ-16 External Dimensions and Fittings

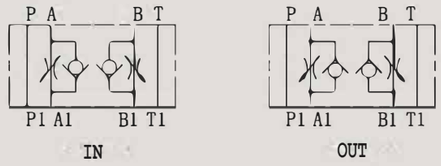


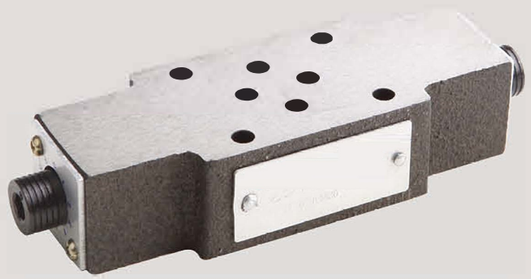


GMD-OK

GMD-OK
DOUBLE THROTTLE CHECK VALVES

SYMBOL



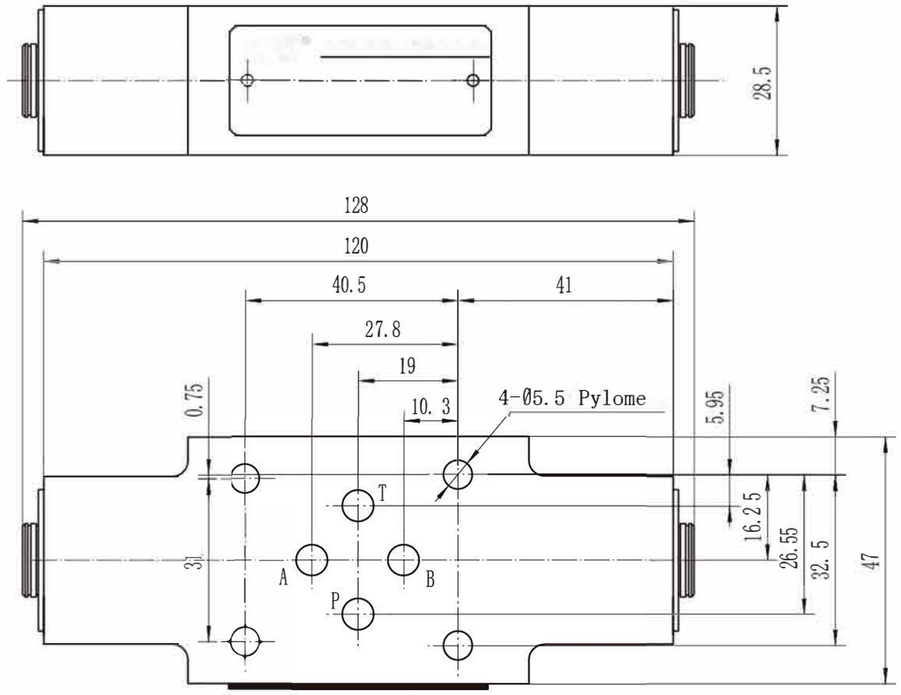


GMGZ series double throttle/check valves are used to restrict flow in one direction while allowing free-flow in the opposite direction as check valves.

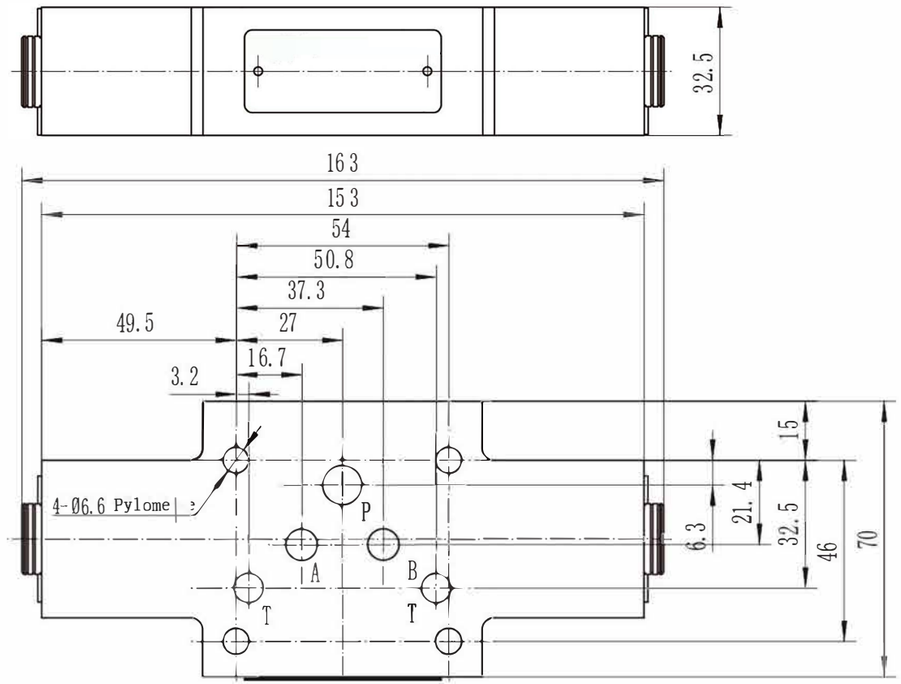
Technical data

Size	6	10	16	25
Operating pressure (MPa)	31.5	31.5	31.5	31.5
Flow rate (L/min)	80	160	250	350
Fluid temperature range (℃)	-30 ~ 80℃	-30 ~ 80℃	-30 ~ 80℃	-30 ~ 80℃
Weight(KGS)	1	2.2	4.7	8
Valve body (Material) Surface treatment	casting phosphating surface			
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15			

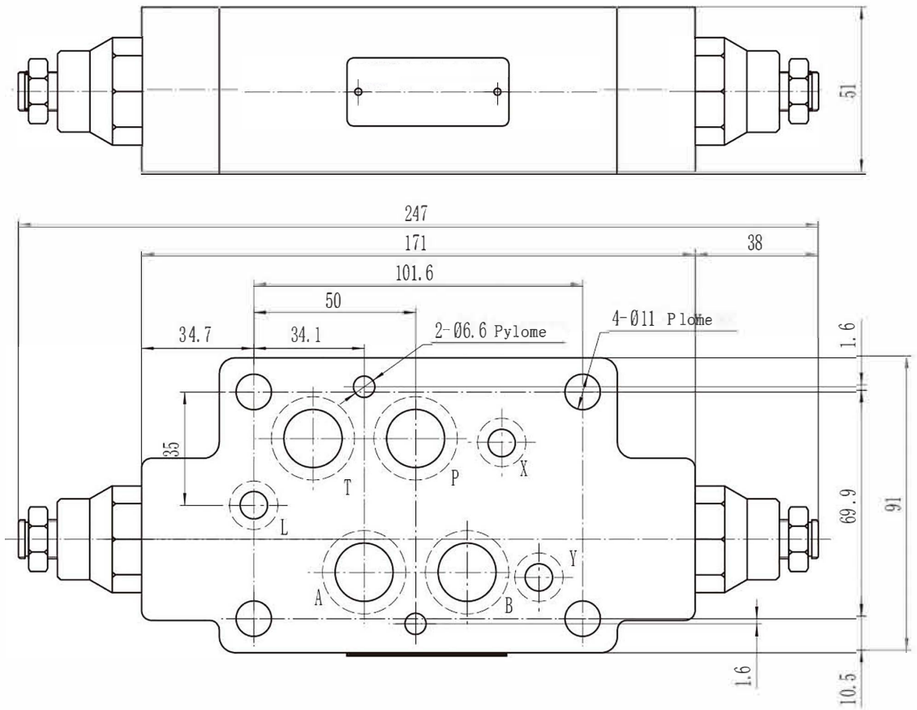
GMD-OK-06 External Dimensions and Fittings

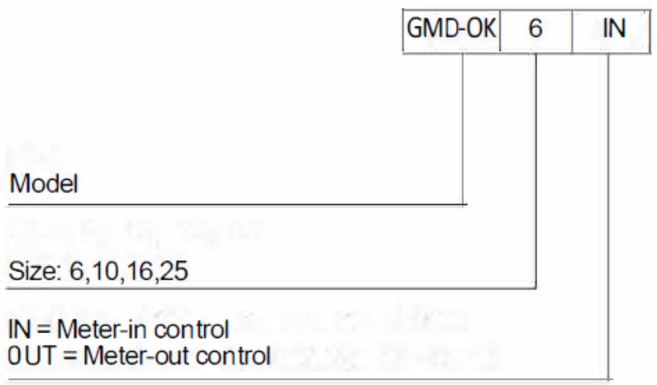


GM-OK-10 External Dimensions and Fittings



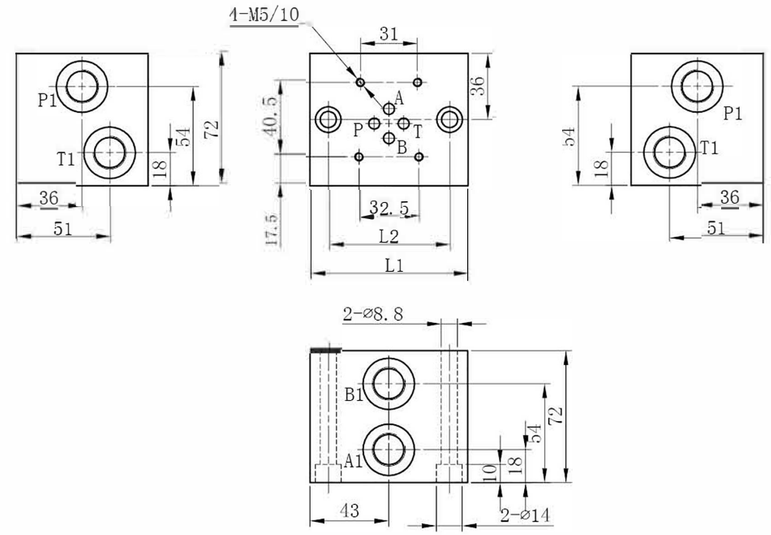
GMD-0K-16 External Dimensions and Fittings





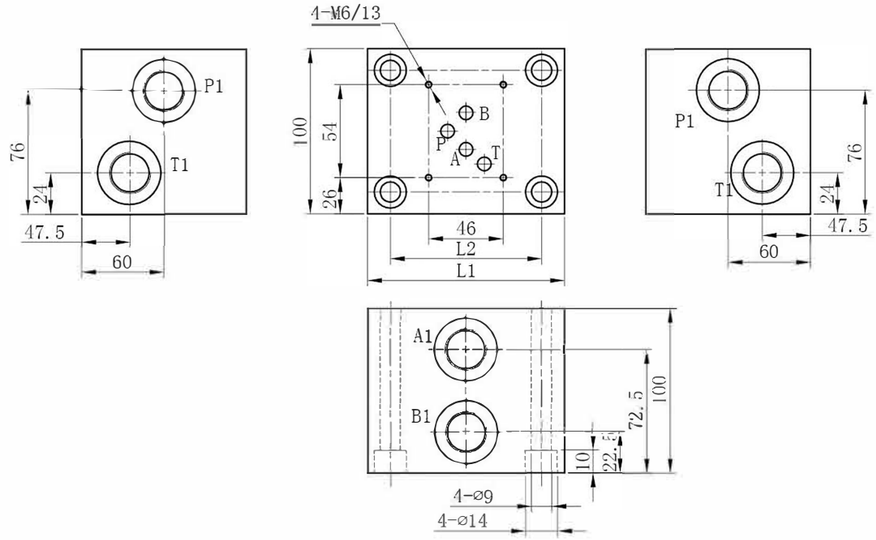
SUBPLATE

GSP-06 Installation Dimensions



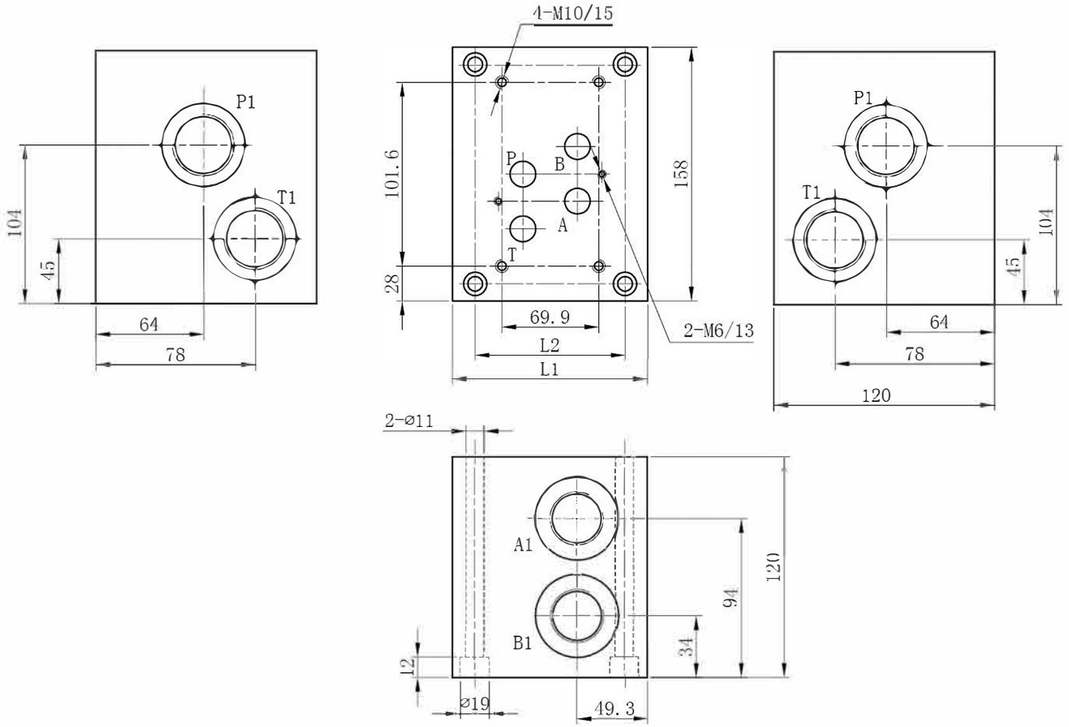
Model	L1	L2	A.B	P.T
			Metric	Inch
GSP-06-1	86	66	M18X1.5	G3/8"
GSP-06-2	136	116	M18X1.5	G3/8"
GSP-06-3	186	166	M18X1.5	G3/8"
GSP-06-4	236	216	M18X1.5	G3/8"
GSP-06-5	286	266	M18X1.5	G3/8"
GSP-06-6	336	316	M18X1.5	G3/8"
GSP-06-7	386	366	M18X1.5	G3/8"
GSP-06-8	436	416	M18X1.5	G3/8"
GSP-06-9	486	466	M18X1.5	G3/8"
GSP-06-10	536	516	M18X1.5	G3/8"

GSP-10 Installation Dimensions



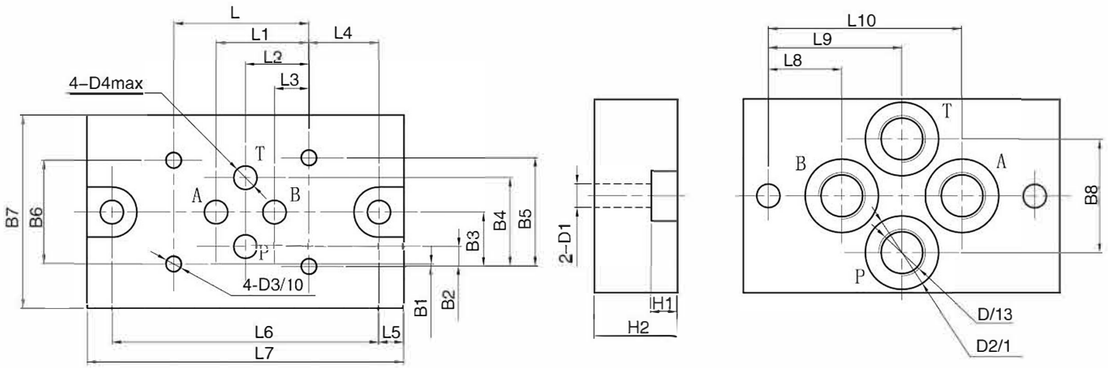
Model	L1	L2	A.B		P.T	
			Metric	Inch	Metric	Inch
GSP-10-1	110	90	M22X1.5	G1/2"	M27X2	G3/4"
GSP-10-2	185	195	M22X1.5	G1/2"	M27X2	G3/4"
GSP-10-3	260	240	M22X1.5	G1/2"	M27X2	G3/4"
GSP-10-4	335	315	M22X1.5	G1/2"	M27X2	G3/4"
GSP-10-5	410	390	M22X1.5	G1/2"	M27X2	G3/4"
GSP-10-6	485	465	M22X1.5	G1/2"	M27X2	G3/4"
GSP-10-7	560	540	M22X1.5	G1/2"	M27X2	G3/4"
GSP-10-8	635	615	M22X1.5	G1/2"	M27X2	G3/4"

GSP-16 Installation Dimensions



Model	L1	L2	A.B		P.T	
			Metric	Inch	Metric	Inch
GSP-16-1	140	116	M33X2	G1"	M42X2	G1 1/2"
GSP-16-2	240	216	M33X2	G1"	M42X2	G1 1/2"
GSP-16-3	340	316	M33X2	G1"	M42X2	G1 1/2"
GSP-16-4	440	416	M33X2	G1"	M42X2	G1 1/2"
GSP-16-5	540	516	M33X2	G1"	M42X2	G1 1/2"
GSP-16-6	640	616	M33X2	G1"	M42X2	G1 1/2"

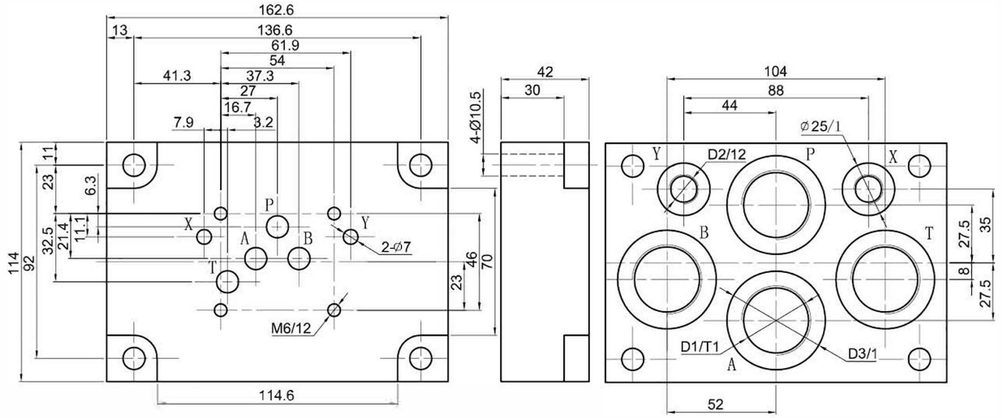
Size 6



Model	L	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	B1	B2
G34 10/01	40.5	27.8	19	10.3	21	7.5	80	95	22	40	58	0.75	5.95
G34 10/02	40.5	27.8	19	10.3	21	7.5	80	95	22	40	58	0.75	5.95
G34 42/01	40.5	27.8	19	10.3	26	7.5	90	105	21	45	69	0.75	5.95
G34 42/02	40.5	27.8	19	10.3	26	7.5	90	105	21	45	69	0.75	5.95
G50 02/01	40.5	27.8	19	10.3	36	7.5	110	125	27.5	55	82.5	0.75	5.95
G50 02/02	40.5	27.8	19	10.3	36	7.5	110	125	27.5	55	82.5	0.75	5.95

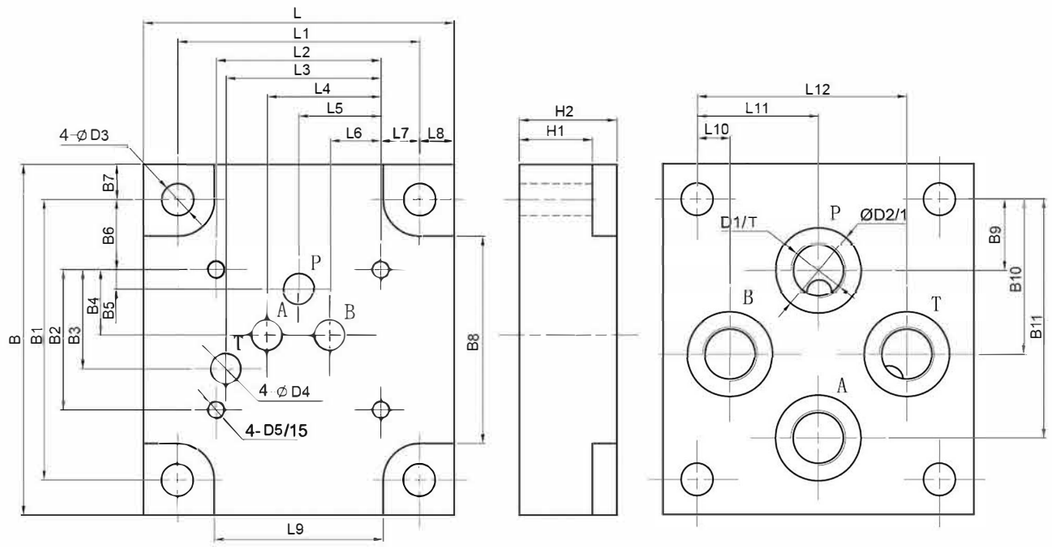
Model	B3	B4	B5	B6	B7	B8	H1	H2	D	D1	D2	D3	D4
G34 10/01	16.25	26.55	32.5	31	58	34	8	25	G1/4	ϕ7	ϕ22	M5	ϕ7.6
G34 10/02	16.25	26.55	32.5	31	58	34	8	25	M14X1.5	ϕ7	ϕ22	M5	ϕ7.6
G34 42/01	16.25	26.55	32.5	31	80	44	8	29	G3/8	ϕ7	ϕ28	M5	ϕ7.6
G34 42/02	16.25	26.55	32.5	31	80	44	8	29	M18X1.5	ϕ7	ϕ28	M5	ϕ7.6
G50 02/01	16.25	26.55	32.5	31	102	58	8	34	G1/2	ϕ7	ϕ34	M5	ϕ7.6
G50 02/02	16.25	26.55	32.5	31	102	58	8	34	M22X1.5	ϕ7	ϕ34	M5	ϕ7.6

Size 10



Model	D1	D2	ΦD3	T1
G535/01	G3/4	G1/4	42	16
G535/02	M27X2	M14X1.5	42	16
G536/01	G1	G1/4	47	18
G536/02	M33X2	M14X1.5	47	18

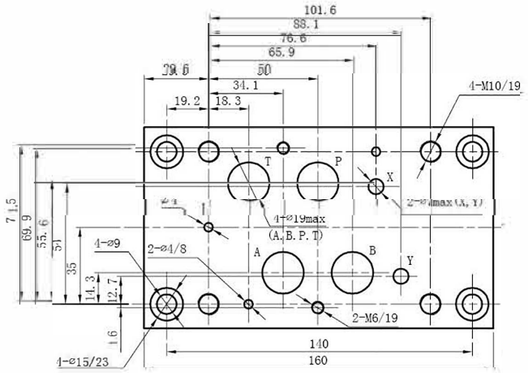
Size 10

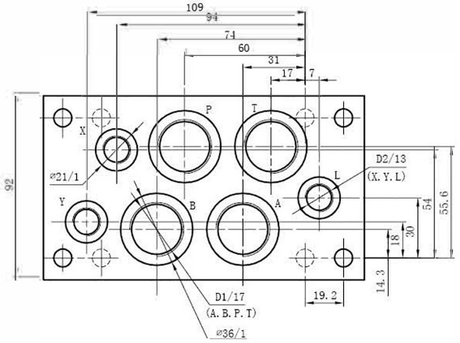


Model	L	L1	L2	L3	L5	L6	L7	L8	L9	L9	L10	L11	L12	B	B1	B2	B3
G292/01	102	79.4	54	50.8	37.3	27	16.7	12.7	11.3	55.4	10.7	39.7	68.7	115	92	46	32.5
G308/01	102	79.4	54	50.8	37.3	27	16.7	12.7	11.3	55.4	10.7	39.7	68.7	115	92	46	32.5
G377/01	102	79.4	54	50.8	37.3	27	16.7	12.7	11.3	55.4	10.7	39.7	68.7	115	92	46	32.5
G378/01	102	79.4	54	50.8	37.3	27	16.7	12.7	11.3	55.4	10.7	39.7	68.7	115	92	46	32.5
G534/01	120	79.4	54	50.8	37.3	27	16.7	12.7	20.3	—	3.2	39.7	76.2	115	92	46	32.5
G66/01	102	79.4	54	50.8	37.3	27	16.7	12.7	11.3	55.4	10.7	39.7	68.7	115	92	46	32.5
G67/01	102	79.4	54	50.8	37.3	27	16.7	12.7	11.3	55.4	10.7	39.7	68.7	115	92	46	32.5
G66/02	102	79.4	54	50.8	37.3	27	16.7	12.7	11.3	55.4	10.7	39.7	68.7	115	92	46	32.5
G67/02	102	79.4	54	50.8	37.3	27	16.7	12.7	11.3	55.4	10.7	39.7	68.7	115	92	46	32.5

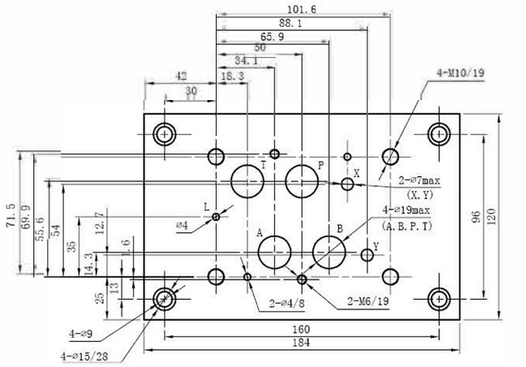
Model	B4	B5	B6	B7	B8	B9	B10	B11	H1	H2	D1	D2	D3	D4	D5	T
G292/01	21.4	6.3	23	11.5	68	23.5	51	78.5	24	32	G1/2	34	10.5	10.5	M6	12
G308/01	21.4	6.3	23	11.5	68	23.5	51	78.5	24	32	G3/8	28	10.5	10.5	M6	12
G377/01	21.4	6.3	23	11.5	68	23.5	51	78.5	24	32	G3/8	28	10.5	10.5	M6	12
G378/01	21.4	6.3	23	11.5	68	23.5	51	78.5	24	32	G1/2	34	10.5	10.5	M6	12
G534/01	21.4	6.3	23	11.5	—	12	46	80	27	39	G3/4	42	10.5	10.5	M6	16
G66/01	21.4	6.3	23	11.5	68	23.5	51	78.5	24	32	G3/8	28	10.5	10.5	M6	12
G67/01	21.4	6.3	23	11.5	68	23.5	51	78.5	24	32	G1/2	34	10.5	10.5	M6	14
G66/02	21.4	6.3	23	11.5	68	23.5	51	78.5	24	32	M18X1.5	28	10.5	10.5	M6	12
G67/02	21.4	6.3	23	11.5	68	23.5	51	78.5	24	32	M22X1.5	34	10.5	10.5	M6	14

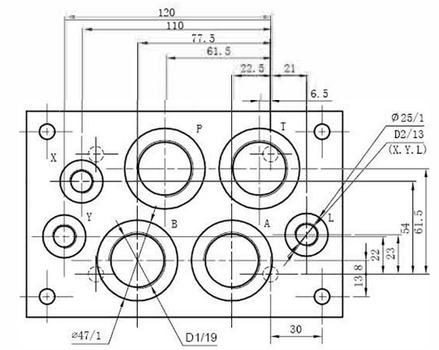
Size 16



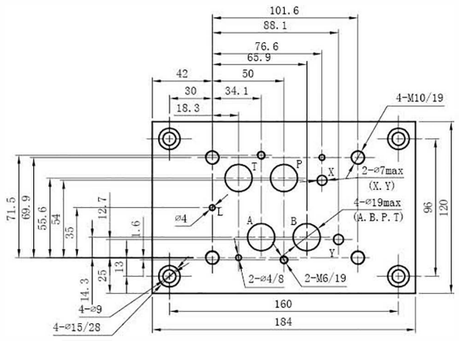


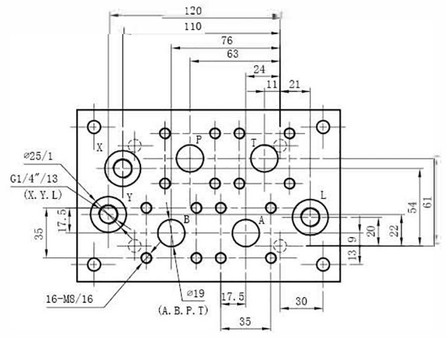
Model	D1	D2
G172/01	G3/4	G1/4
G172/02	M27X2	M14X1.5





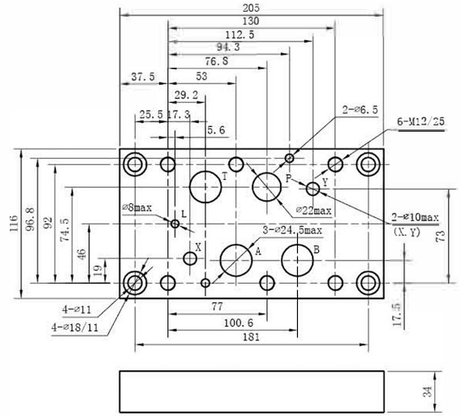
Model	D1	D2
G174/01	G1	G1/4
G174/02	M33X2	M14X1.5

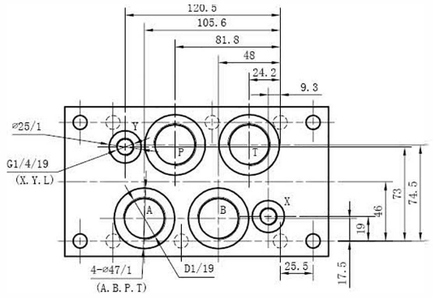




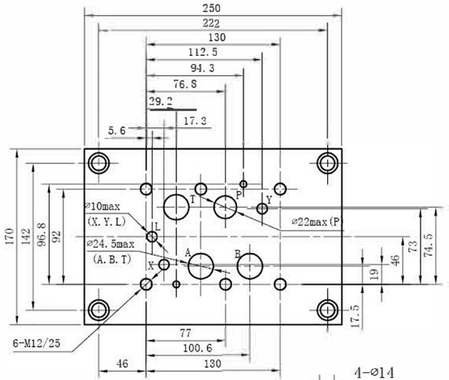
Model	Connecting	25MPa	Part	009 271	Weight(Kgs)
G174/08	flange	40MPa	number	009 272	5.5

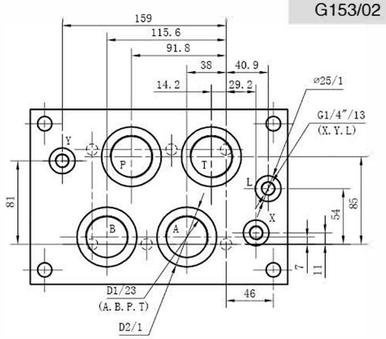
Size 25



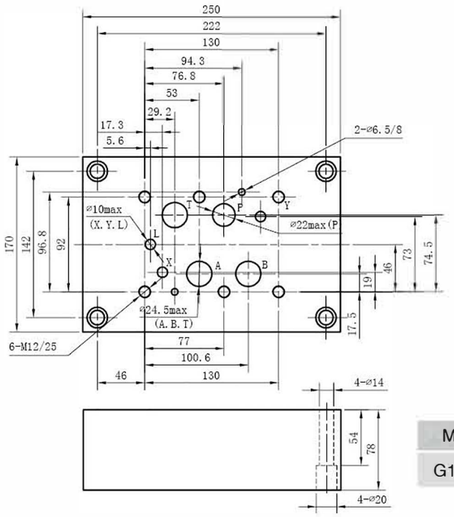


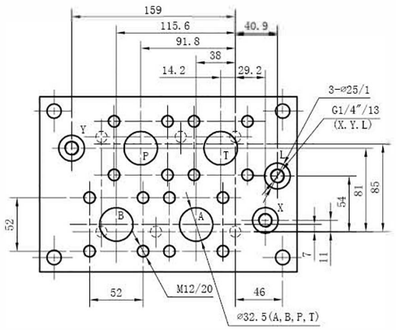
Model	D1
G151/01	G1
G153/01	G1
G151/02	M33X2
G153/02	M33X2





Model	D1	D2
G154	G11/4	58
G156	G11/2	65
G154	M42X2	58
G156	M48X2	65

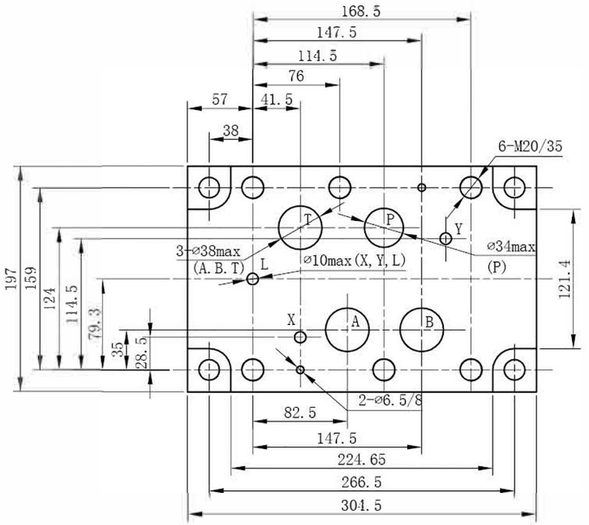


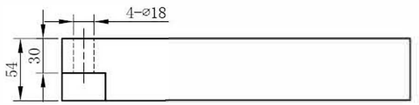


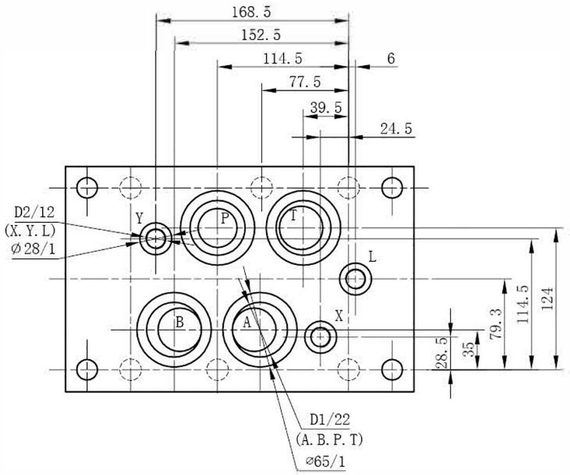
Model	Weight(Kgs)
G154/08	20

Connecting flange	D1
25MPa	009 176
40MPa	009 177

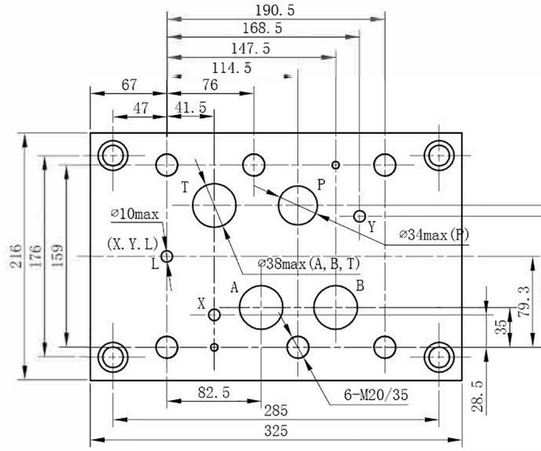
Size 32

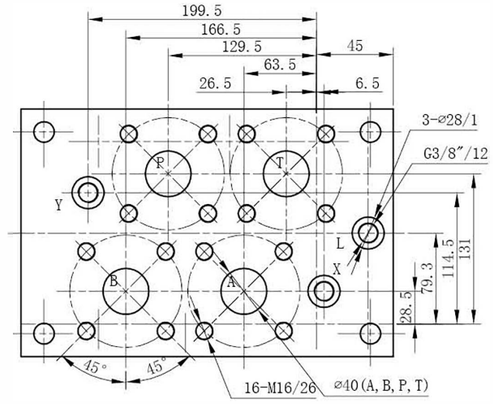


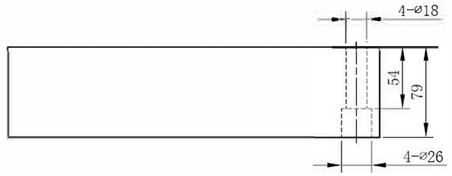




Model	D1	D2
G157/01	G1	G3/8
G157/02	M48X2	M18X1.5







Subplate G158/10 for connecting flange

Working pressure	Part number
16MPa	303 901
32MPa	303 921
40MPa	303 931

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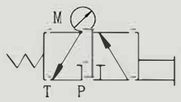
GIM

GIM
PRESSURE GAUGE SHUTTER

SYMBOL

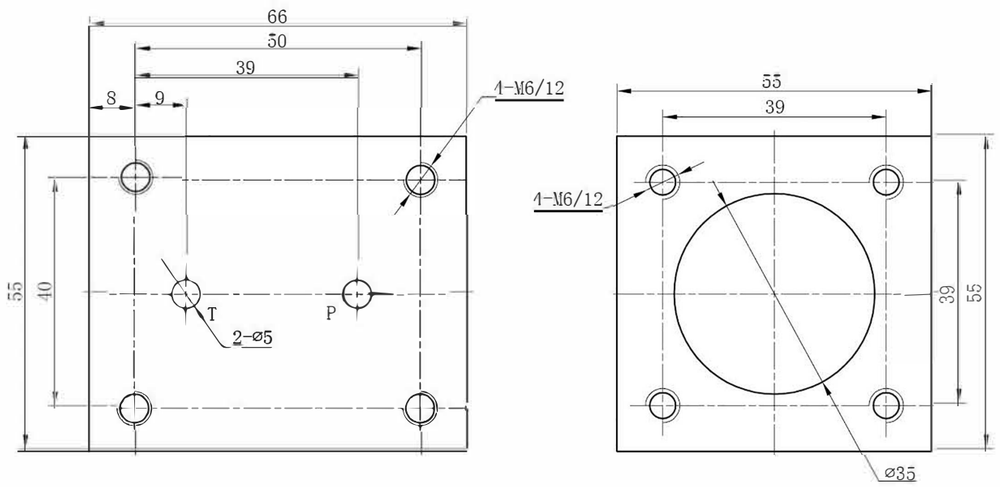


GIM series valve is a three-way slide valve operated manually, This series are used for checking a working pressure in hydraulic systems occasionally.

Technical data

Operating pressure(Mpa)	30 / To 30
Pressure Gauge Indicating(Mpa)	6.3；10；16；25；40
Fluid temperature(℃)	–20～80
Weight(KGS)	1.4
Valve body（Material） Surface treatment	casting phosphating surface
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15

Subplate Installation dimensions



GIM | P

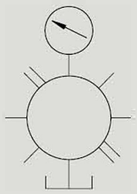
Model

T=Thread connection M14X1.5;G1/4;
P= Subplate connection

GIM-6

GIM-6 PRESSURE GAUGE SWITCH WITH 6 POINTS

SYMBOL

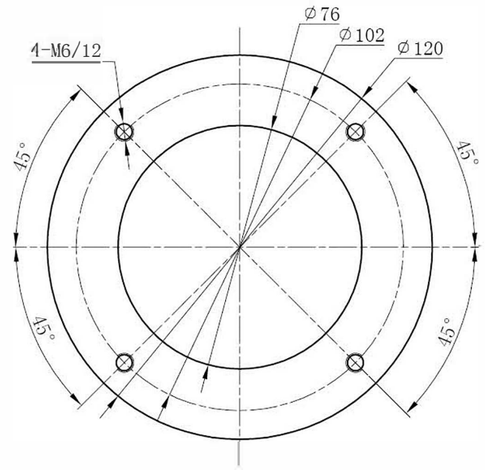


GIM-6 series pressure gauge switch is a turned type switch.Only one can show the pressure in six oil lines by turning the valve bush.

Technical data

Max.working pressure allowed (Mpa)	31.5
Max. back pressure allowed in return oil ports(Mpa)	1
pressure gauge indicating range (MPa)	2.5, 6, 10, 16, 25, 40
Union joint thread size	G1/4",Z1/4",M14X1.5
pressure gauge connection thread	G1/4",Z1/4",M14X1.5
Fluid temperature range (℃)	–20 ~ 80
Weight(KGS)	2.2
Valve body (Material) Surface treatment	Steel Body Surface Black Oxide
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15

Installation dimensions



GIM | 6 | T | 350 |

- Switch with the pressure gauge
- 6 ports to measure the pressure
- T=Thread connection P=Subplate connection
- Indicating range of Pressure
- NO code=columnar pipe thread 2=Metric thread 5=Conical pipe thread

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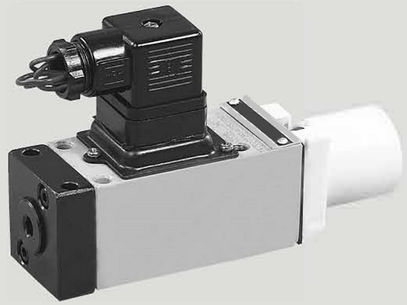
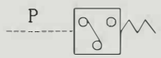
GRD

GRD
PRESSURE SWITCH



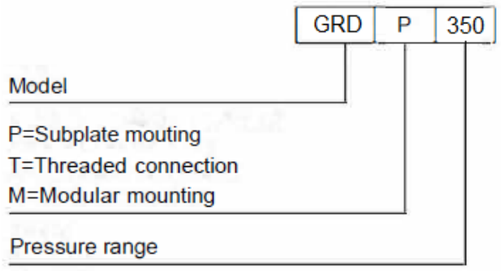
SYMBOL



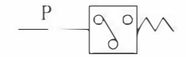
The function and usage of GRD series pressure switch are equivalent to AED1 series pressure switch.

Technical data

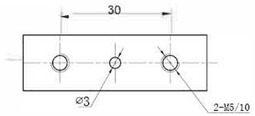
Operating Pressure range(Mpa)		5；10；35
Switching frequency(Time/min)		120
Fluid temperature range(℃)		-20 ~ 80
Weight(KGS)	GRD-T	0.7
	GRD-M	0.9
Valve body (Material) Surface treatment		Steel Body Surface Black Oxide
Oil cleanliness		NAS1638 class 9 and ISO4406 class 20/18/15



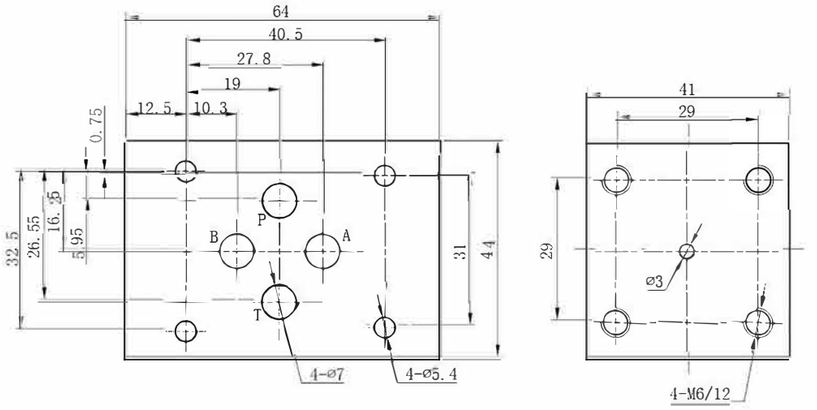
For function and usage see the AED1 series piston pressure switch



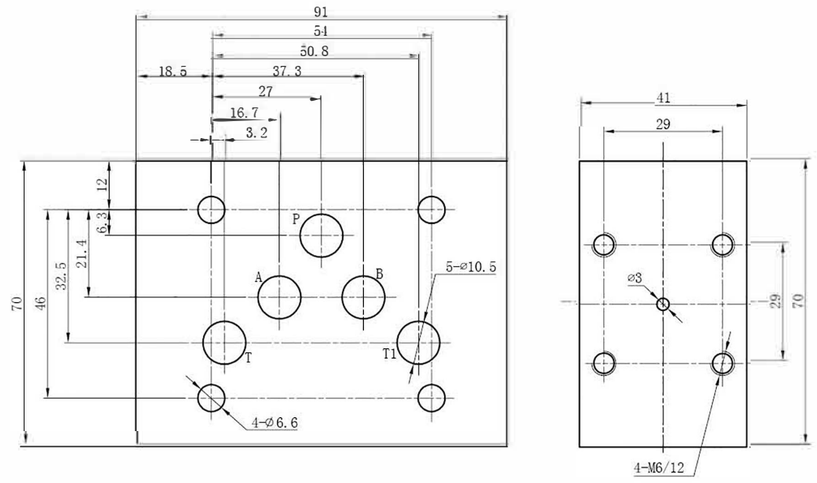
Installation Dimensions



GRD-M Size 6 subplate



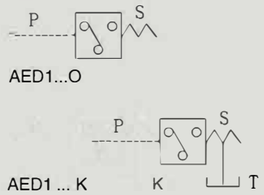
GRD-M Size 10 subplate

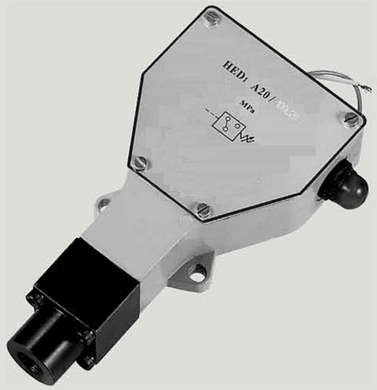


AED1

AED1
PISTON PRESSURE SWITCH

SYMBOL

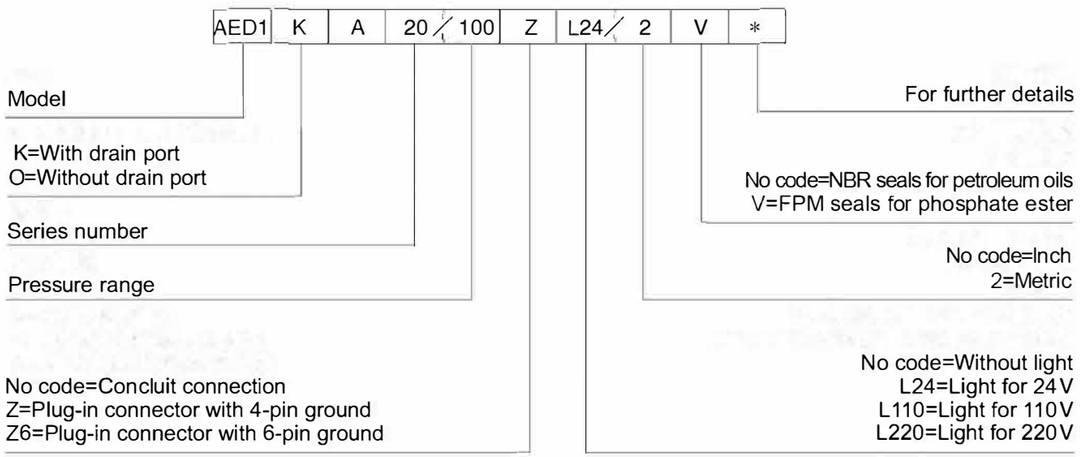




AED1 series piston pressure switches with normally closed contacts, are used to activate an electrical contact at an adjustable pressure setting.

Technical data

Model		AED1 K		AED1 O	
Operating Pressure range (Mpa)		10,35,50		5,10,35	
Drain port pressure (Mpa)		0.2		—	
Switching frequency (Time/min)		To 300		To 50 Up To100	
Installation dimensions		M14X1.5	G1/4	M14X1.5	G1/4
Weight(KGS)	AED1OA	0.9			
	AED1KA	0.8			
Valve body (Material) Surface treatment		Steel Body Surface Black Oxide			
Oil cleanliness		NAS1638 class 9 and ISO4406 class 20/18/15			



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GRD-L

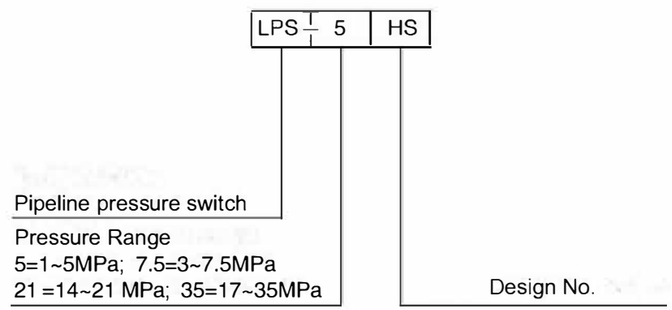
GRD-L
PRESSURE SWITCH

SYMBOL

GRD-L series piston pressure switches are adopted micro-switch to control the start or stop of hydraulic components, it has characteristic of large pressure control range ,easy operation and installation.

Technical data

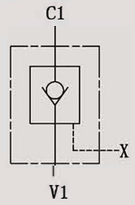
Model	LPS
Operating Pressure(Mpa)	0.5–31.5
Connection threaded	Z1/4
Max.operating pressure(V)	240
Switching frequency(Time/min)	To 300
Weight(KGS)	0.8
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15



GTOK-U

GTOK-U
PILOT OPERATED CHECK VALVES

SYMBOL

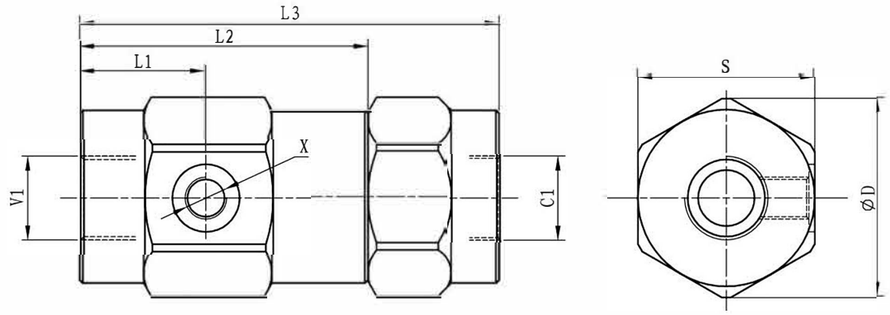


Flow is allowed to pass from V1 to C1 when pressure at V1 rises above the spring bias pressure and the poppet is pushed from its seat. The valve is normally closed (checked) from C1 to V1; when sufficient pilot pressure is present at X port, the pilot piston acts to push the poppet from its seat and flow is allowed from C1 to V1. Precision machining and hardening processes allow virtually leak-free performance in the checked condition.

Technical data

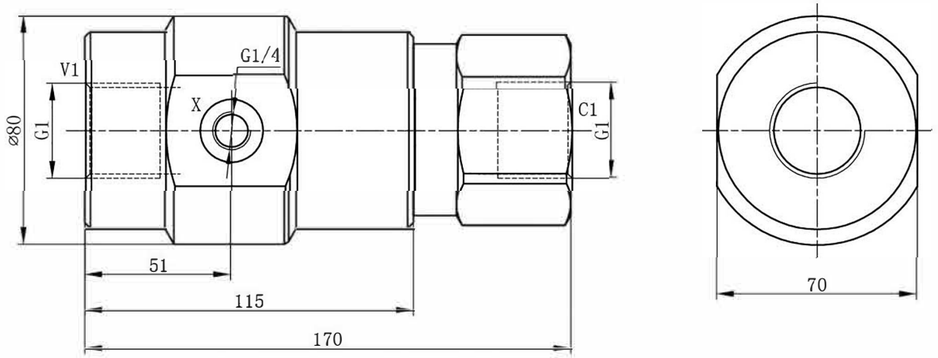
Model	GTOK-U-1/4	GTOK-U-3/8	GTOK-U-1/2	GTOK-U-3/4	GTOK-U-1
Max Flow rate (L/min)	20	35	50	100	150
Max operating pressure (MPa)	31.5				
Pilot ratio	4.7:1	4.4:1	4.6:1	3.8:1	3.2:1
Valve body (Material) Surface treatment	(Steel body) Surface clear zinc plating				
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15				

GTOK–U Installation Dimensions



Model	L1	L2	L3	V1 C1	X	S	ϕ D
GTOK-U–1/4	29	78	101.5	G1/4"	G1/4"	40	44
GTOK-U–3/8	31.5	82	106	G3/8"	G1/4"	41	45
GTOK-U–1/2	36	85	120	G1/2"	G1/4"	42	47
GTOK-U–3/4	39	90	131	G3/4"	G1/4"	55	62

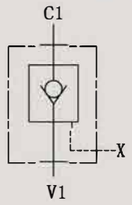
GTOK–U–1 Installation Dimensions



HKV

HKV
PILOT OPERATED CHECK VALVE

SYMBOL

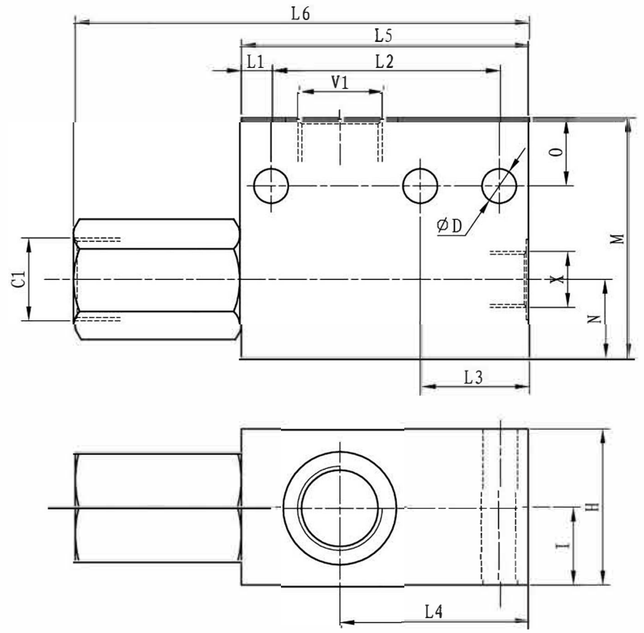


Flow is allowed to pass from V1 to C1 when pressure at V1 rises above the spring bias pressure and the poppet is pushed from its seat. The valve is normally closed(checked) from C1 to V1; when sufficient pilot pressure is present at X the pilot piston acts to push the poppet from its seat and flow is allowed from C1 to V1. Precision machining and hardening processes allow virtually leak-free performance in the checked condition.

Technical data

Model	HKV–1/4–15	HKV–3/8–35	HKV–1/2–50
Max Flow rate (L/min)	15	35	50
Max operating pressure (MPa)	31.5		
Pilot ratio	4:1	5.2:1	4:1
Valve body (Material) Surface treatment	(Steel body) Surface clear zinc plating		
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15		

HKV Installation Dimensions

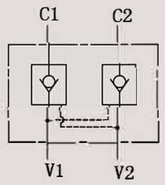


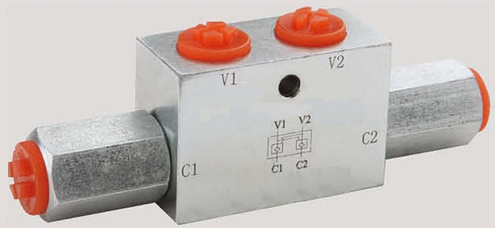
Model	L1	L2	L3	L4	L5	L6	O	N	M	I	H	ϕD	V1 C1	X
HKV–1/4–15	–	–	21	36	54	87	8	15	45	15	30	6.5	G1/4"	G1/4"
HKV–3/8–35	–	–	22	37	54	82	9	13	40	15	30	6.3	G3/8"	G1/4"
HKV–1/2–50	7.75	56.5	–	47	72	113.5	17	20	60	19.5	39	8.5	G1/2"	G1/4"

GTGZ

GTGZ
DOUBLE-DIRECTION HYDRAULIC LOCK

SYMBOL



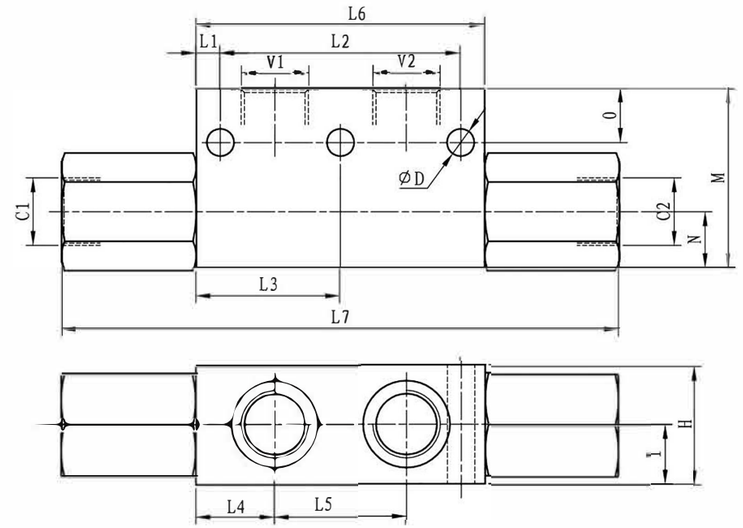


Flow is allowed to pass in one direction (V1 to C1 or V2 to C2), then the valve remains closed (checked) in both reverse directions (C1 to V1 or C2 to V2) in order to hold and lock in position the cylinder or other actuators; reverse flow is possible only when sufficient pilot pressure is applied at V2 or V1 ,which act as cross connected pilot ports, and the pilot piston lifts the poppet from its seat overcoming cylinder port pressure.

Technical data

Model	GTGZ-1/4	GTGZ-3/8	GTGZ-1/2	GTGZ-3/4
Max Flow rate (L/min)	15	35	50	100
Max operating pressure (MPa)	31.5			
Pilot ratio	4:1	5.2:1	4.3:1	3.9:1
Valve body (Material) Surface treatment	(Steel body) Surface clear zinc plating			
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15			

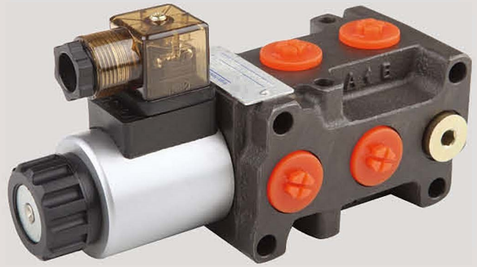
GTGZ Installation Dimensions



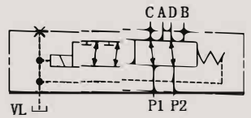
Model	L1	L2	L3	L4	L5	L6	L7	O	N	M	I	H	ϕD	V1 C1 V2 C2
GTGZ-1/4	–	–	32.2	17.5	29	63	130	8	14.5	43	14.5	29	6.4	G1/4"
GTGZ-3/8	–	–	32	17	30	64	120	9	13	40	15	30	6	G3/8"
GTGZ-1/2	7.5	75	–	24.5	41	90	174	17	17.5	56	18.5	37	8.5	G1/2"
GTGZ-3/4	8	104	–	30	60	120	213	16	25	70	25	50	9	G3/4"

MOP.06.6

MOP.06.6
FLOW DIVERTERS

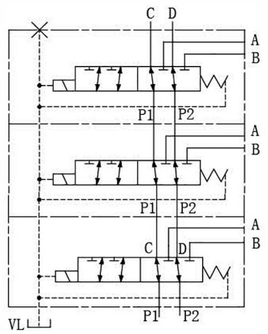


SYMBOL



The stackable circuit selector valves, type MOP.06.6,allows one single drive of 6 users with 5 elements connected in series. As they are moved from high performances solenoids they don't need the external drainage .
This valves can manage high hydraulic powers with a minimal pressure drop.

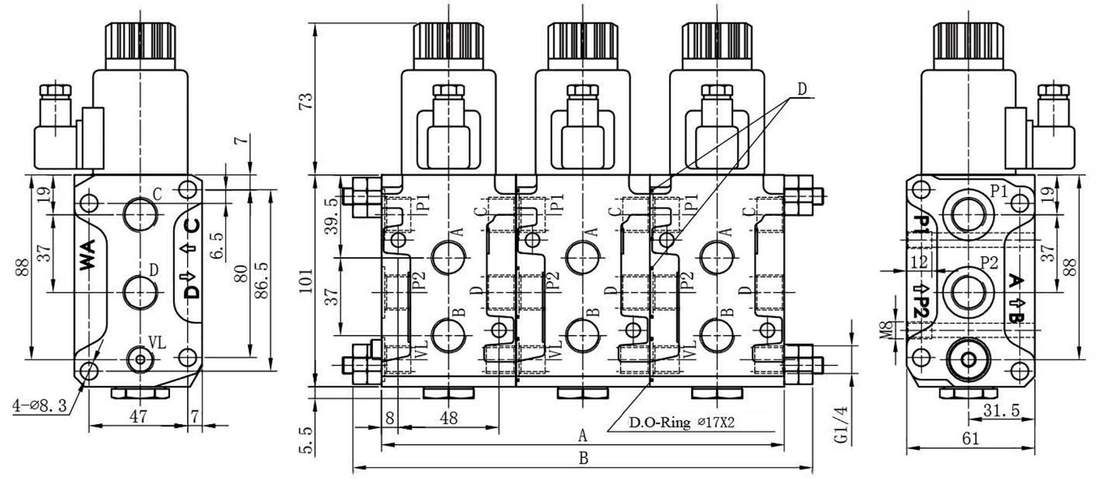
MULTSTATION CONNECTION



Technical data

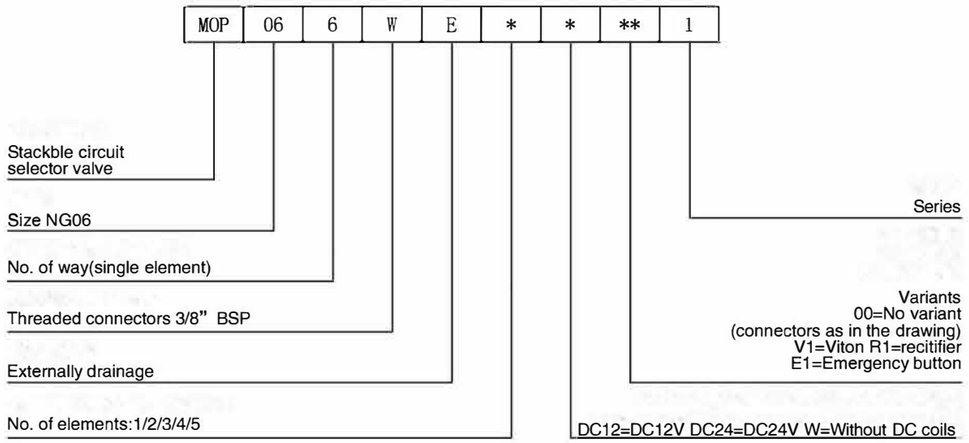
Model	MOP.06.6
Max Flow rate (L/min)	50
Max operating pressure (MPa)	25
Valve body (Material) Surface treatment	(casting) phosphating surface
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15

Installation Dimensions



D.O-Ring:
M18X1.5 / G3/8 = Φ21X2
M22X1.5 / G1/2 = Φ23.5X2

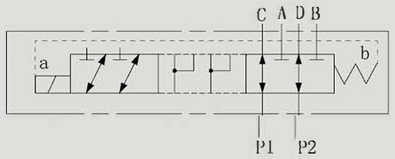
elements	way	A	B
No . of		Lengths (mm)	
1	6	64	86
2	8	128	138
3	10	192	214
4	12	256	278
5	14	320	342



ZVH6

ZVH6
FLOW DIVERTERS

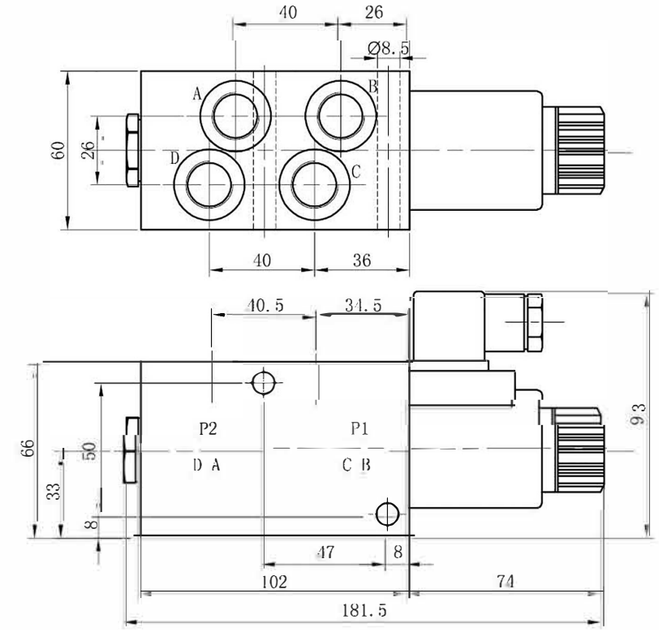
SYMBOL

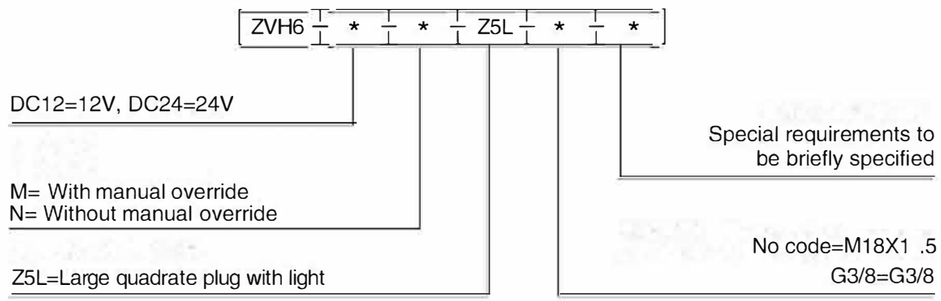


Technical data

Model	ZVH6
Max Flow rate (L/min)	50
Max operating pressure (MPa)	21
Valve body (Material) Surface treatment	(casting) phosphating surface
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15

Installation Dimensions

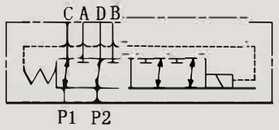


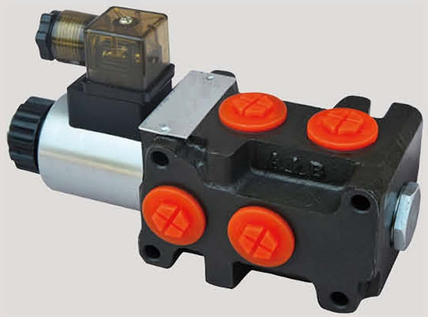


KVH6

KVH6
FLOW DIVERTERS

SYMBOL

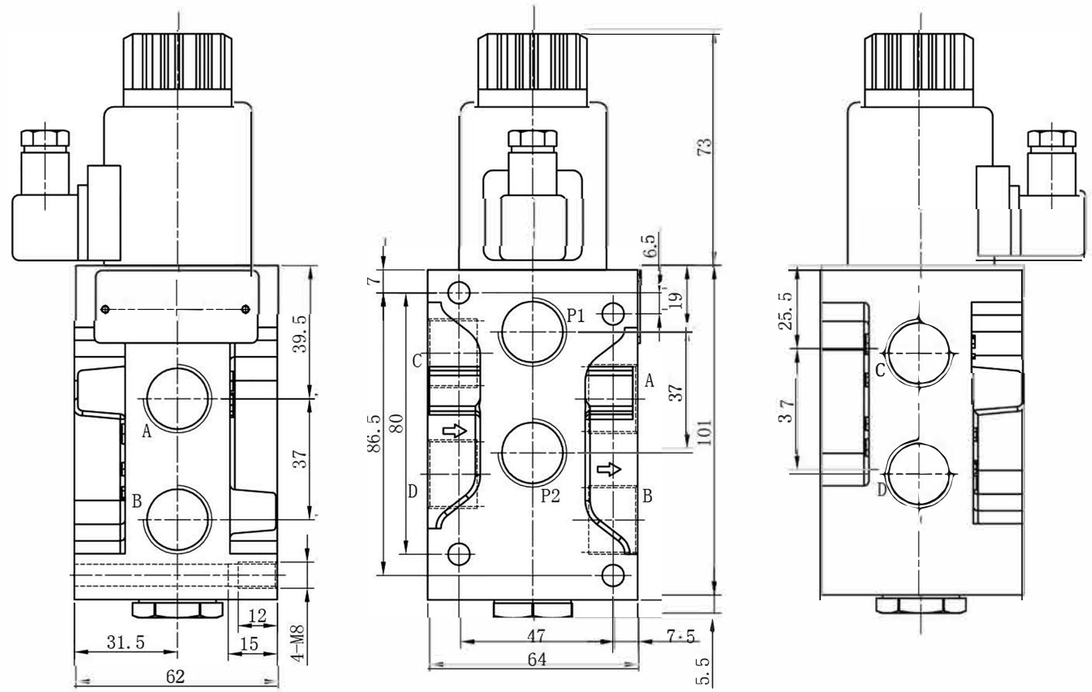


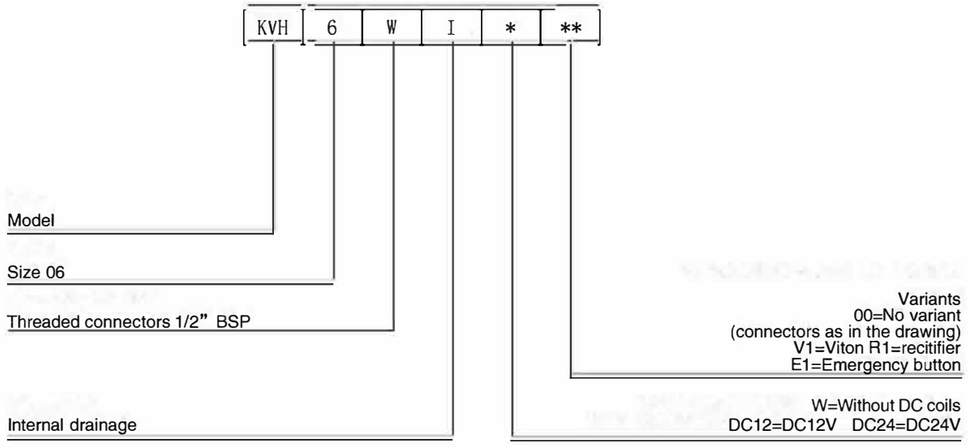


Technical data

Model	KVH6
Max Flow rate (L/min)	50
Max operating pressure (MPa)	25
Valve body (Material) Surface treatment	(casting) phosphating surface
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15

Installation Dimensions

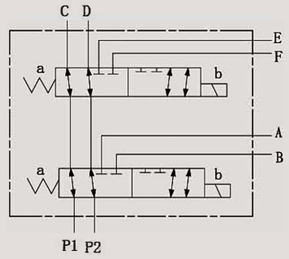


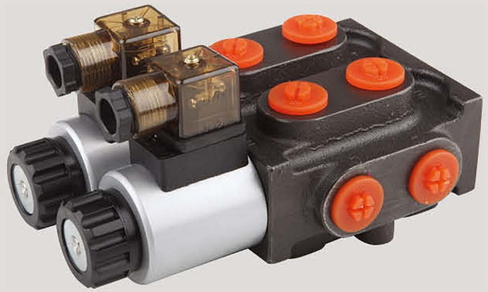


2KVH

2KVH
FLOW DIVERTERS

SYMBOL

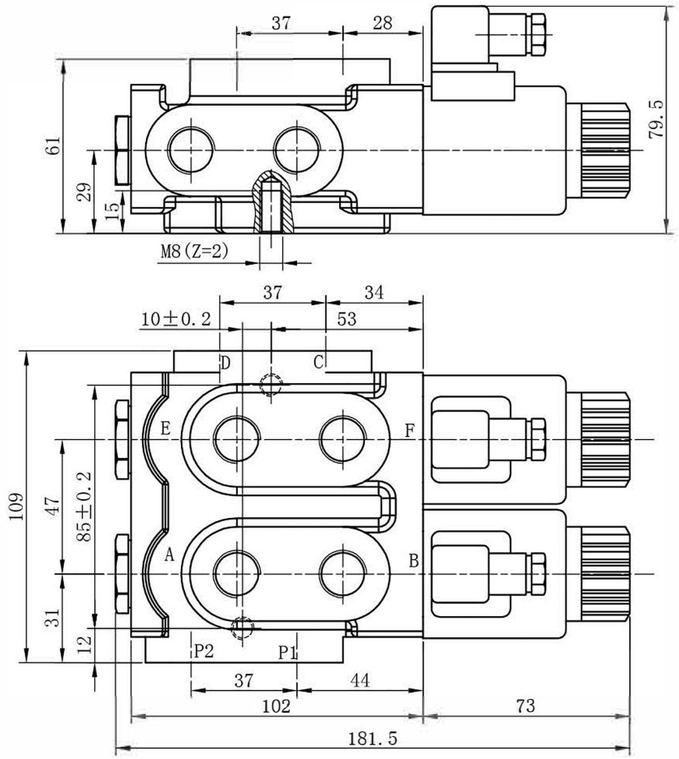


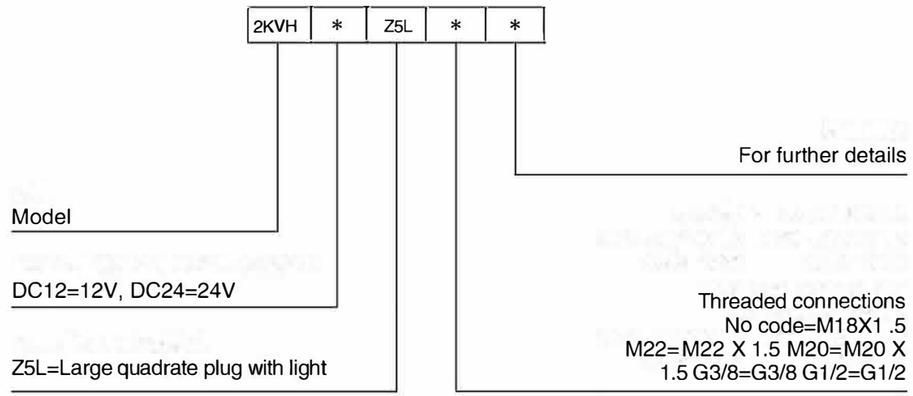


Technical data

Model	2KVH
Max Flow rate (L/min)	50
Max operating pressure (MPa)	25
Valve body (Material) Surface treatment	(casting) phosphating surface
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15

Installation Dimensions

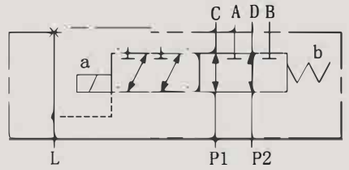


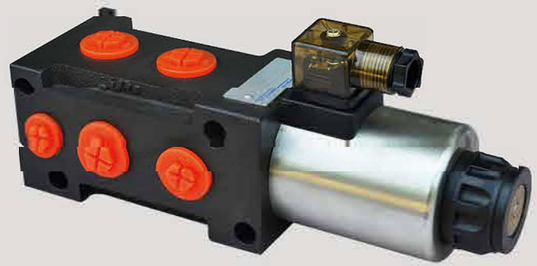


GDP

GDP
FLOW DIVERTERS

SYMBOL

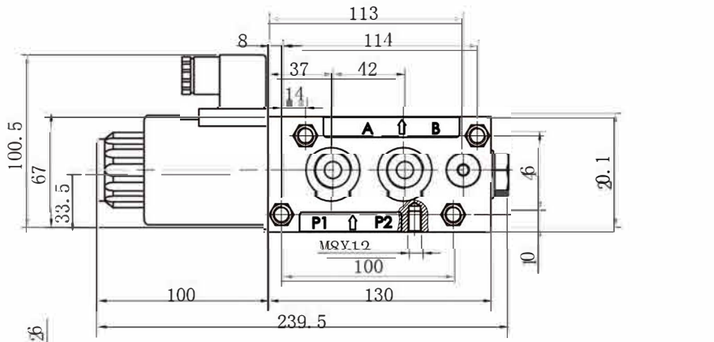


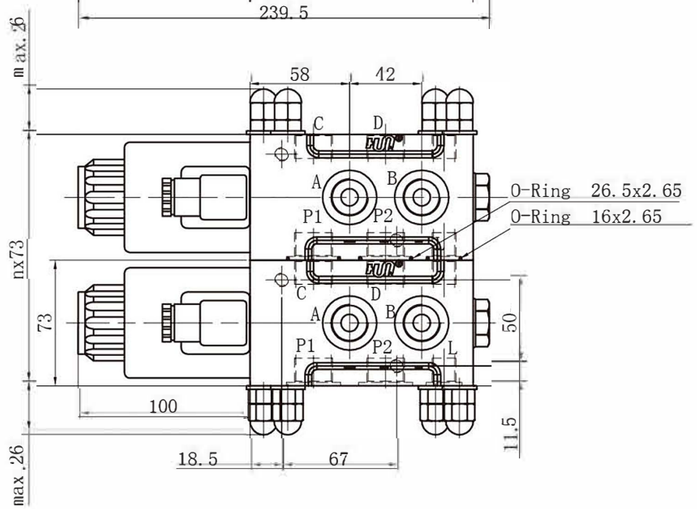


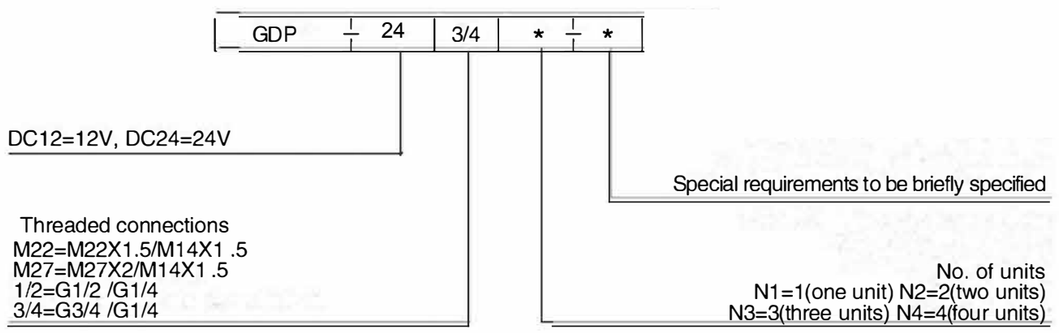
Technical data

Model	SVK10
Max Flow rate (L/min)	80
Max operating pressure (MPa)	25
Valve body (Material) Surface treatment	(casting) phosphating surface
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15

Installation Dimensions



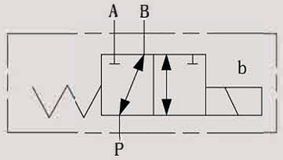


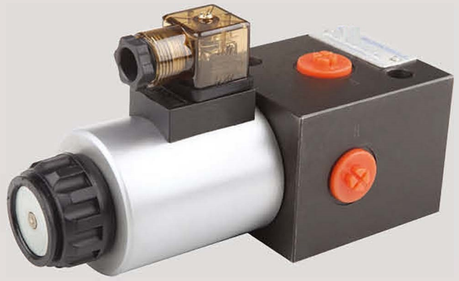


HVC–3/2–10

HVC-3/2-10
DIRECTIONAL VALVES LINE MOUNTING

SYMBOL

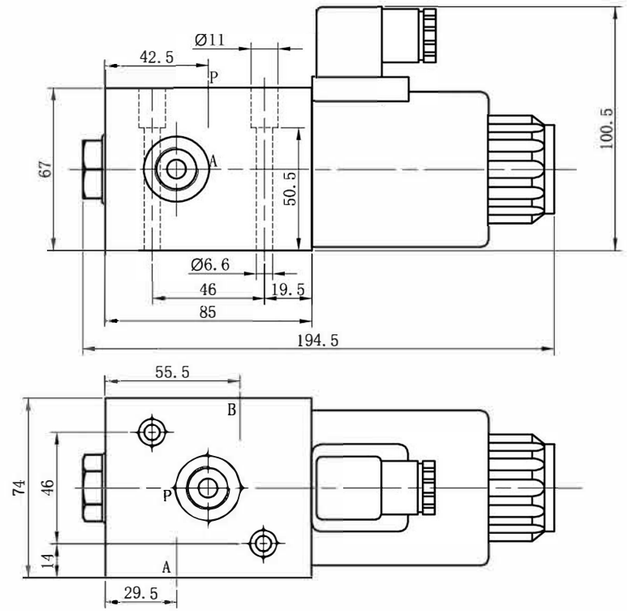


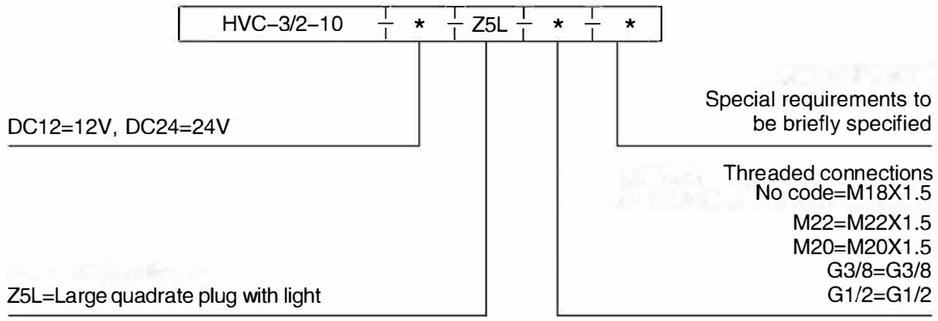


Technical data

Model	HVC–3/2–10
Max Flow rate (L/min)	80
Max operating pressure (MPa)	21
Valve body (Material) Surface treatment	(casting) phosphating surface
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15

Installation Dimensions

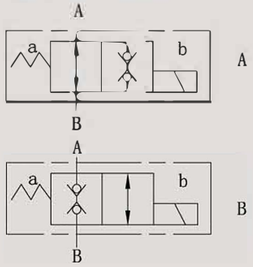


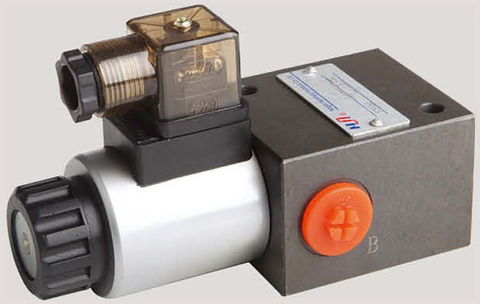


SYQ6

SYQ6 LEAK-FREE DIRECTIONAL VALVES

SYMBOL

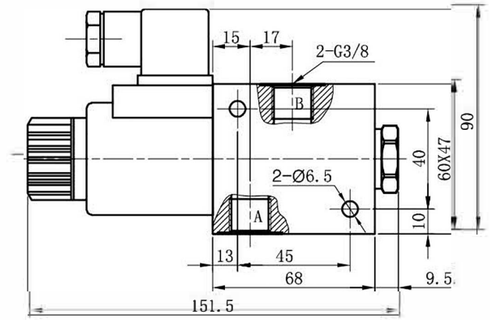




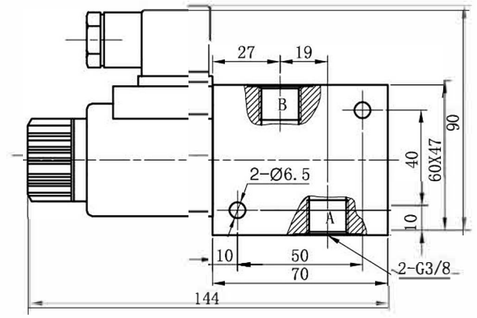
Technical data

Model	SYQ6
Max Flow rate (L/min)	30
Max operating pressure (MPa)	21
Valve body (Material) Surface treatment	(casting) phosphating surface
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15

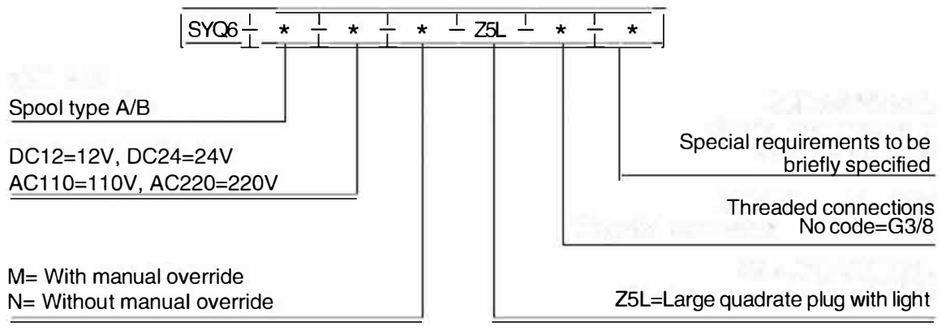
Installation Dimensions



SYQ6-A



SYQ6-B

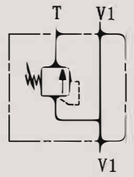


GIDREX®
Гидрекс-Украина

GTPK

GTPK
DIRECT OPERATED PRESSURE RELIEF VALVES

SYMBOL

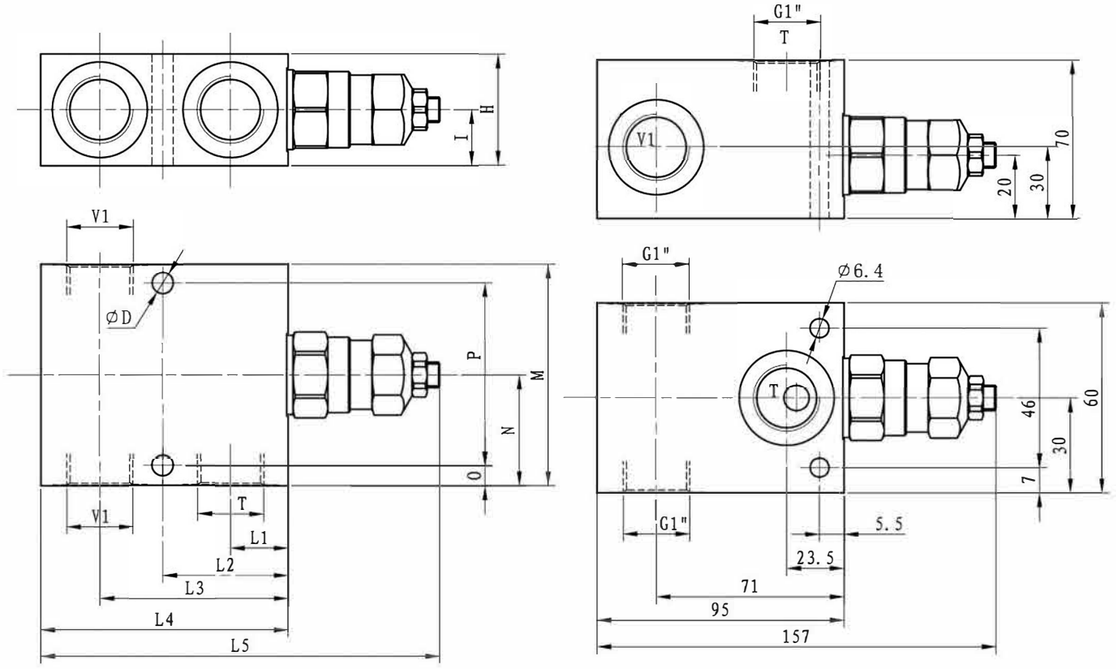


GTPK Series relief valves, with remote control port, are direct operated poppet type used to limit pressure in a hydraulic system. It has characteristics of compact structure, high performance, reliable work, low noise, and long service life. These series are widely applied to many lower flow systems.

Technical data

Model	GTPK-1/4	GTPK-3/8	GTPK-1/2	GTPK-3/4	GTPK-1
Max Flow rate (L/min)	25	50	80	120	220
Max operating pressure (MPa)	31.5				
Valve body (Material) Surface treatment	(Steel body) Surface clear zinc plating				
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15				

Installation Dimensions

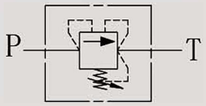


Model	L1	L2	L3	L4	L5	O	P	N	M	I	H	ϕD	V1 T
GTPK-1/4	14	30	46	60	90	6	48	30	60	15	30	6.8	G1/4"
GTPK-3/8	18	35	52	70	115	6.25	48	32	60.5	17.75	35.5	6.6	G3/8"
GTPK-1/2	18	39.5	58	78	127	6	58	35	70	17.5	35	6.6	G1/2"
GTPK-3/4	20	45	70	90	149	8	54	40	70	20	40	8.6	G3/4'

VMP/B/L

VMP/B/L
PRESSURE RELIEF VALVES WITH PRESSURE COMPENSATION

SYMBOL

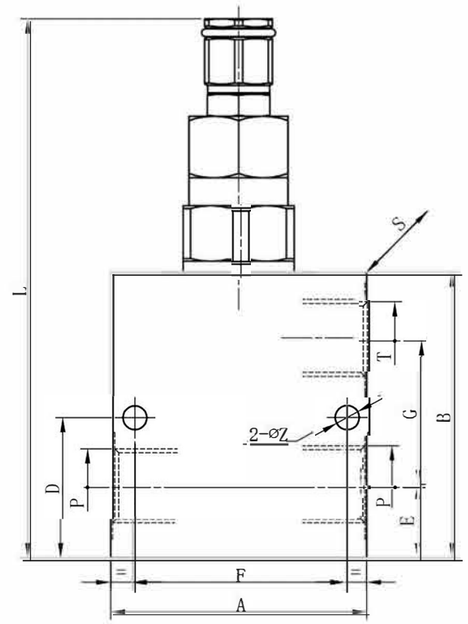


VMP/B/L relief valves are direct operated poppet type with pressure compensation,they can supply overload protection for hydraulic systems.

Technical data

Model	VMP/B/L 5–38	VMP/B/L 5–12	VMP/B/L 10–12	VMP/B/L 10–34	VMP/B/L 20–34	VMP/B/L 20–100
Max Flow rate (L/min)	35	35	60	60	100	100
Max operating pressure (MPa)	31.5					
Valve body (Material) Surface treatment	(Steel body) Surface clear zinc plating					
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15					

Installation Dimensions

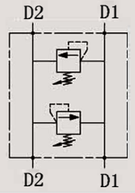


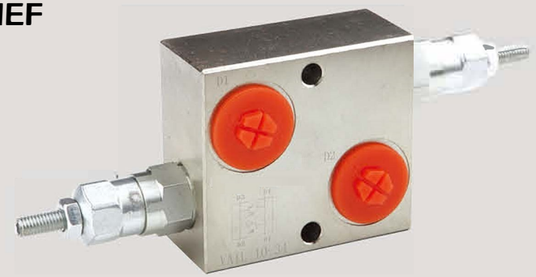
Model	P T	A	B	S	D	E	F	G	Z
VMP/B/L 5–38	G3/8"	60	70	35	35	18	48	34	6.5
VMP/B/L 5–12	G1/2"	60	70	35	35	18	48	34	6.5
VMP/B/L 10–12	G1/2"	70	78	35	39	20	58	40	6.5
VMP/B/L 10–34	G3/4"	70	90	40	45	20	54	50	8.5
VMP/B/L 20–34	G3/4"	70	100	50	50	22	54	52	8.5
VMP/B/L 20–100	G1"	85	120	60	63	30	65	65	8.5

VAIL

VAIL
DOUBLE LINE PRESSURE RELIEF VALVES DIRECT ACTING

SYMBOL



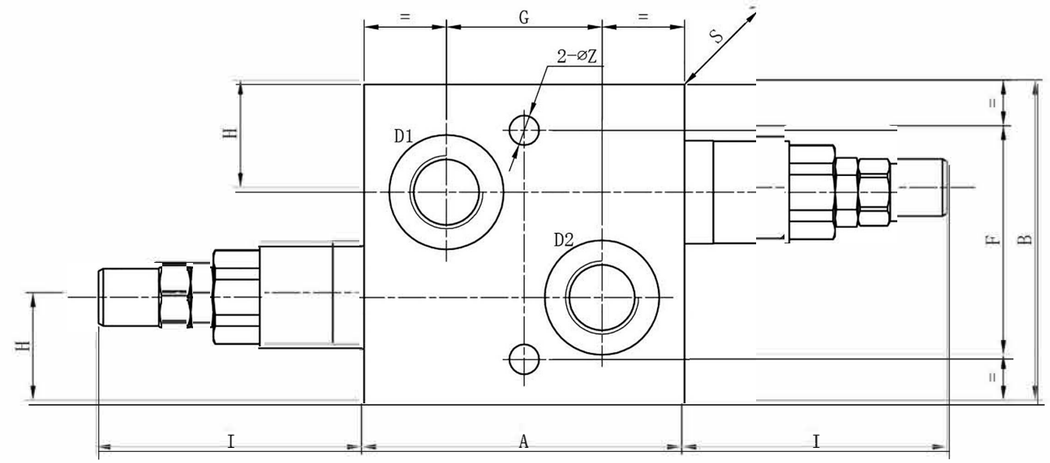


VAIL double pressure relief valves are direct operated poppet type,it can supply overload protection for hydraulic systems.

Technical data

Model	VAIL 5–38	VAIL 5–12	VAIL 10–12	VAIL 10–34	VAIL 20–34	VAIL 20–100
Max Flow rate (L/min)	25	35	50	70	100	120
(Mpa) Max operating pressure (MPa)	31.5					
Valve body (Material) Surface treatment	(Steel body) Surface clear zinc plating					
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15					

Installation Dimensions

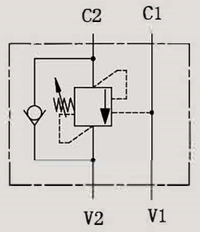


Model	D1 D2	A	B	S	F	G	H	I	Z
VAIL 5–38	G3/8"	70	70	35	50	34	23.5	60	6.5
VAIL 5–12	G1/2"	75	70	35	50	39	23.5	60	6.5
VAIL 10–12	G1/2"	90	82	40	65	50	25	66	6.5
VAIL 10–34	G3/4"	90	82	40	65	50	25	66	8.5
VAIL 20–34	G3/4"	100	95	50	75	56	30.5	72	8.5
VAIL 20–100	G1"	120	95	50	75	56	30.5	72	8.5

HOV

HOV
COUNTERBALANCE VALVES FOR OPEN CENTRE

SYMBOL

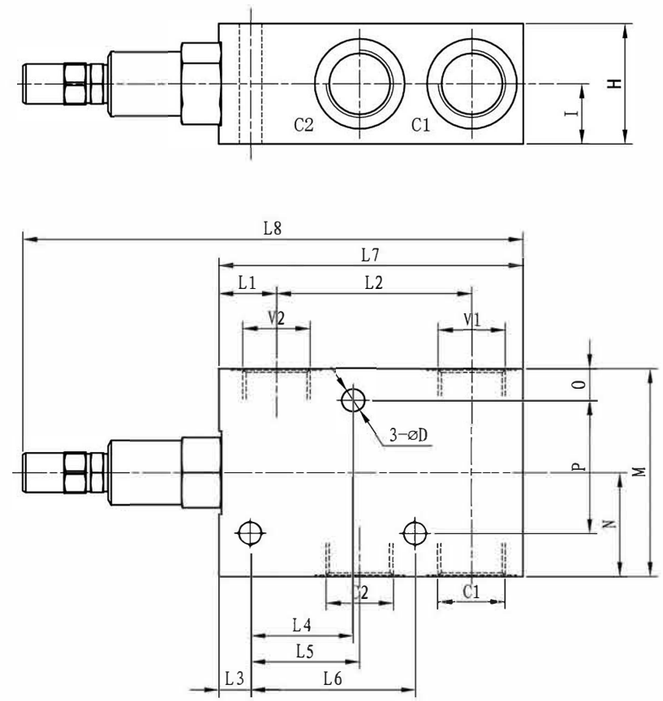


When pressure at V2 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from V2 to C2. When load pressure at C2 rises above the pressure setting, the direct operated, differential area, relief function is activated and flow is relieved from C2 to V2. With pilot pressure at V1-C1, the pressure setting is reduced in proportion to the stated ratio of the valve, until opening and allowing flow from C2 to V2. The spring chamber is drained to V2,and any back-pressure at V2 is additive to the pressure setting in all functions.

Technical data

Model	HOV-3/8-50	HOV-1/2-80	HOV-3/4-120
Max Flow rate (L/min)	50	80	120
Max operating pressure (MPa)	31.5		
Pilot ratio	4.3:1	4.3:1	6.8:1
Valve body (Material) Surface treatment	((Steel body) Surface clear zinc plating		
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15		

Installation Dimensions

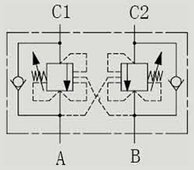


Model	L1	L2	L3	L4	L5	L6	L7	L8	O	P	N	M	I	H	ϕD	V1 C1 V2 C2
HOV-3/8-50	18	61	10	32	34	48	95	145.5	5.5	41	28	56	15	30	7	G3/8"
HOV-1/2-80	18	61	10	32	34	51.5	95	147.5	10	41.5	32.5	65	18.75	32.5	7	G1/2"
HOV-3/4-120	30	84	10	–	30.5	70	130	192.5	10	70	45	90	22.5	45	10.5	G3/4"

HOW

HOW
DUAL COUNTERBALANCE VALVES FOR OPEN CENTRE

SYMBOL

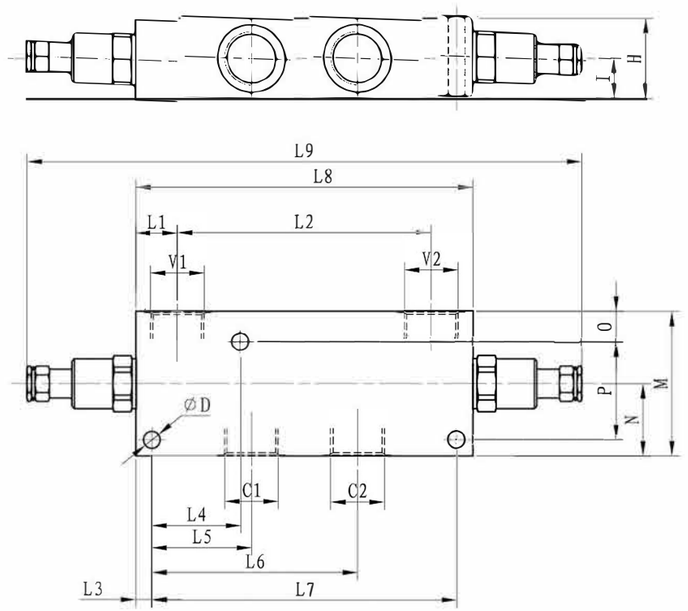


It provides static and dynamic control of load by regulating the flow IN and OUT of the actuator, through ports C1 and C2.This valve module includes 2 sections, each one composed by a check and a relief valve pilot assisted by pressure in the opposite line: the check section allows free flow into the actuator, then holds the load against reverse movement; with pilot pressure applied at the line across, the pressure setting of the relief is reduced in proportion to the stated ratio until opening and allowing controlled reverse flow. Back-pressure at V1 or V2 is additive to the pressure setting in all functions.

Technical data

Model	HOW–3/8–50	HOW–1/2–80	HOW–3/4–120	HOW–1–160
Flow Range (l/min)	50	80	120	160
Max.Peak Pressure (MPa)	31.5			
Pilot Ratio	4.3:1	4.3:1	6.8:1	3:1
Valve body (Material) Surface treatment	(Steel body) Surface clear zinc plating			
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15			

Installation Dimensions

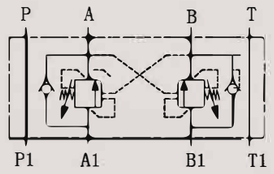


Model	L1	L2	L3	L4	L5	L6	L7	L8	L9	O	P	N	M	I	H	ϕ D	V1 C1 V2 C2
HOW–3/8–50	18	94	10	32	34	76	110	130	229	6	40	28	56	15	30	7	G3/8"
HOW–1/2–80	18	94	9.5	32.3	34.5	76.5	106.5	130	237	9.7	41.3	33	65	19	38	6.6	G1/2"
HOW–3/4–120	23	109	10	–	32.5	102.5	135	155	280	10	70	45	90	22.5	45	10.5	G3/4"
HOW–1–160	26	158	10	–	62	128	190	210	345.5	10	70	45	90	25	50	10.5	G1"

OCBW

OCBW
FLANGEABLE DUAL COUNTERBALANCE VALVE FOR OPEN CENTRE

SYMBOL

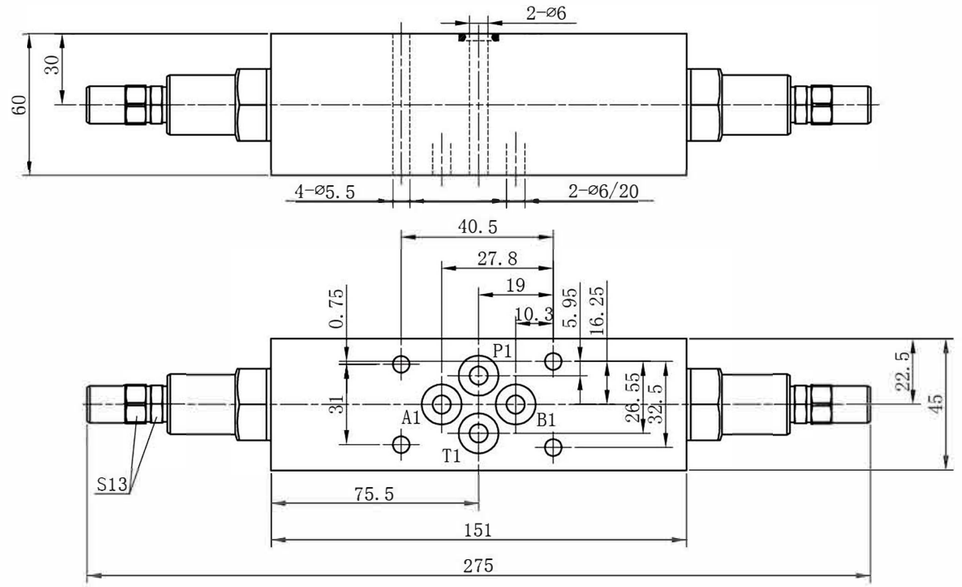


Flangeable dual counterbanlance valve. Free flow A towards A 1 and B towards B1, perfect seal A 1 towards A and B1 towards B through adjustable check valves and operated pilot valve. Flanging: ISO CETOP 3 Recommended for open centre controls.

Technical data

Model	OCBW–43
Pilot Ratio	4.3:1
Adjustance Pressure Range (MPa)	10–35
Standard Setting(MPa)	35
Flow Range (l/min)	5–45
Max.Peak Pressure (MPa)	35
Valve body (Material) Surface treatment	(Steel body) Surface clear zinc plating
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15

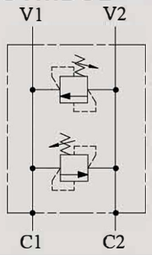
Installation Dimensions



HSDI–OMP

HSDI-OMP
DUAL CROSS OVER RELIEF, FLANGEABLE TO MOTOR

SYMBOL

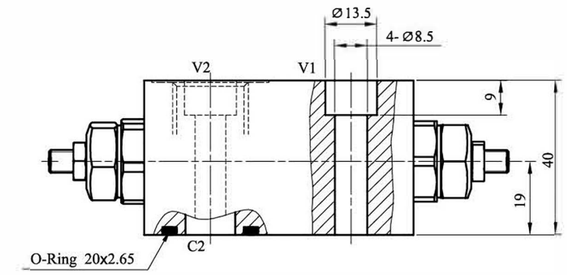


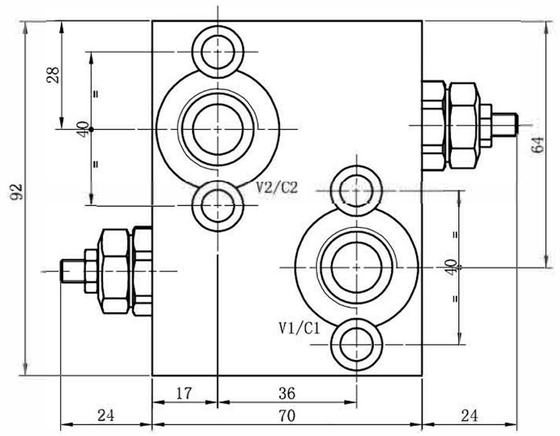
HSDI-OMP flangeable on SAUER-DANFOSS orbital motors OMP-OMR series.

Technical Data

Model	HSDI–OMP
Max operating pressure (MPa)	31.5
Max flow rate (L/min)	30
Valve body（Material） Surface treatment	（Steel body）Surface clear zinc plating
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15

Installation Dimensions



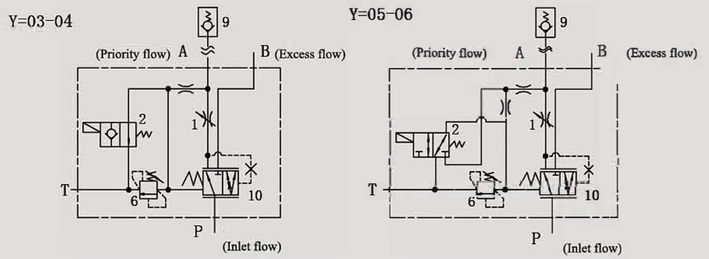


Springs	Port Size	
Adj.press. range MPa(psi)	V1–V2	G1/2"
5–22(725–3000)	C1–C2	Φ13

PFC

PFC
PRIORITY FLOW CONTROL VALVE

SYMBOL

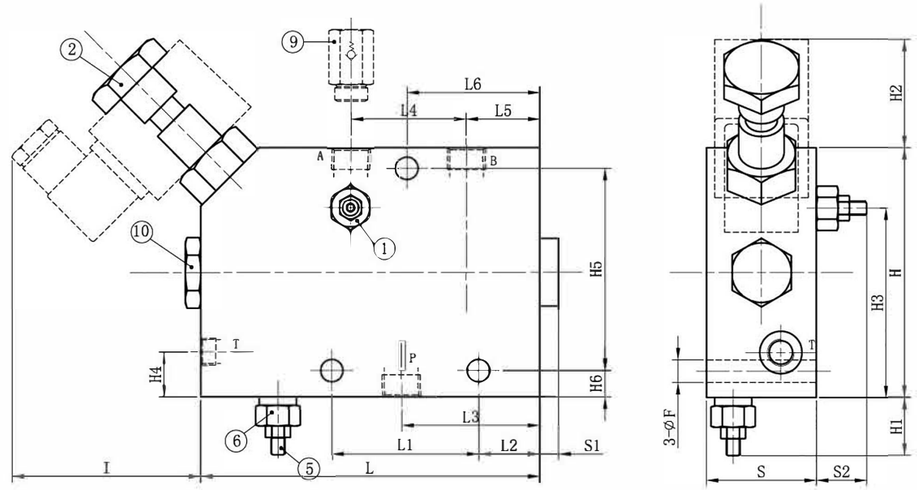


PFC priority flow control valve can supply a priority pressure compensated flow on demand (normally controlled by a switch), and it incorporate a pressure relief control for the priority outlet.
It's fitted to existing hydraulic systems to power additional hydraulic tools or attachments with a constant pressure compensated flow(ex:hydraulic hammers)

Technical data

Max. Operating pressure	35 MPa (5000 psi)
Max. Priority line pressure	limited by relief valve (6) (see table "Z")
Back pressure at T port	max 0.15 MPa(20 psi)
Drain fromT, with solenoid valve non-energized	up to 1.5 L/min
	up to 0.4 gpm
Valve body (Material) Surface treatment	(Steel body) Surface clear zinc plating
Oil cleanliness	NAS1638 class 9 and ISO4406 class 20/18/15

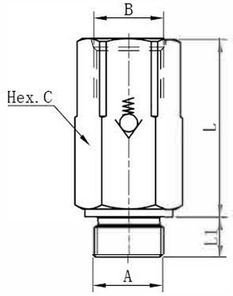
Installation Dimensions



Size	S2	S1	S	L6	L5	L4	L3	L2	L1	L	I	H6	H5	H4	H3	H2	H1	H	F
03	32	5	40	54.5	35.5	38	56.5	29.5	50	130	76	8.5	73	12.5	60	41	34	90	8.5
04	32	5	50	59	37	44	61	34	50	143	73	13.5	73	13	69.5	41	34	100	9
05	32	5	60	74.5	46.5	56.5	78	36.5	76	173	68	15	90	13.5	80.5	41	34	120	9

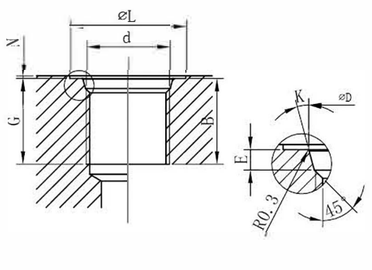
Size	PORT SIZE				INLET FLOW (max)	REGULATED PRIORITY FLOW
	P-A-B		T		L/min (gpm)	L/min (gpm)
	BSP	UN-UNF	BSP	UN-UNF		
03	G 1/2	SAE 8	G 1/4	SAE 6	100(26)	85(23)
04	G 3/4	SAE 12	G 1/4	SAE 6	200(53)	140(37)
05	G 1	SAE 16	G 1/4	SAE 6	300(79)	220(58)

Sleeve Type Check Valves

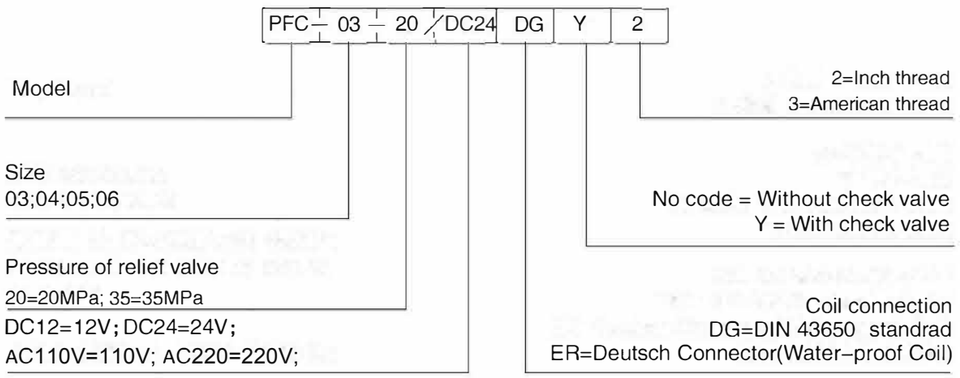


PORT SIZE		Cracking Pressure	Dimension (mm)		
A–B		psi (MPa)	C	L	L1
G1/2	SAE 8	115 (0.8)	30	57	15
G3/4	SAE 12	115 (0.8)	36	69	16
G1	SAE 16	115 (0.8)	46	82	16
G1–1/4	SAE 20	115 (0.8)	55	102	18

Ports Details



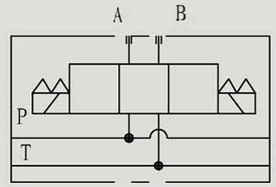
Size	Threads d	G–B	ΦL	ΦD	E	K	N
SAE 6	9/16–18UNF–2B	13	26	15.6	2.5	12°	1
SAE 8	3/4–16UNF–2B	15	32	20.6	2.6	15°	1.5
SAE 12	1 1/16–12UN–2B	20	42	29.2	3.3	15°	1.5
SAE 16	1 5/16–12UN–2B	20	50	35.5	3.3	15°	2
SAE 20	1 5/8–12UN–2B	20	60	43.5	3.4	15°	2

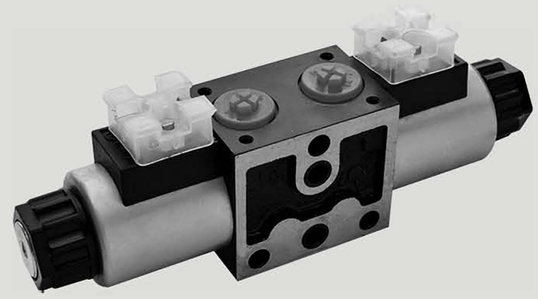


MWE6

MWE6
MODULAR DIRECTIONAL VALVE ELEMENTS

SYMBOL



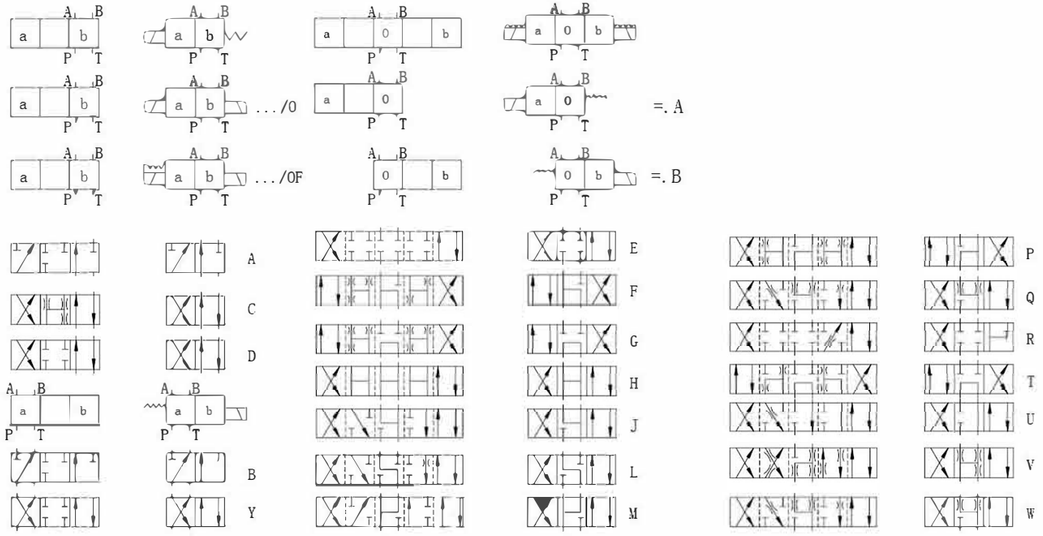


MWE6 series directional control valves are soleniod operated directional spool valves,these valves are used to the start,stop and direct fiow.

Technical data

Size	6
Max flow rate (L/min)	40
Operating pressure (MPa)	31
Valve body (Material) Surface treatment	casting phosphating surface
Oil cleanliness	NAS class 1638和ISO4406 class 20/18/15

Spool symbols

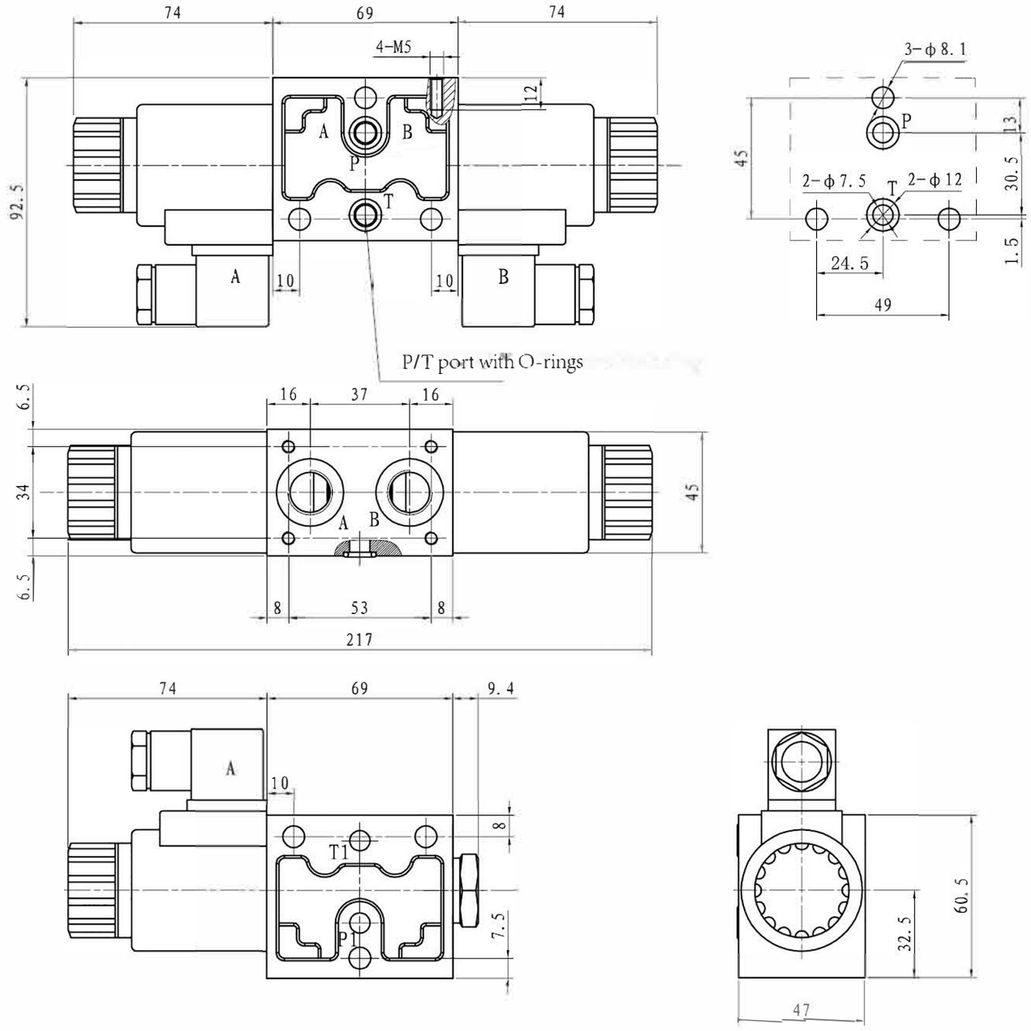


Ordering Details

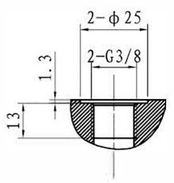
MWE | 6 | E | O | DC24 | EL | Z5L | B0.8 | V | *

- Model
- Size6
- Spool type
- No code=With spring return; O=Without spring return; OF=Without spring return With detent
- DC12=DC12V;DC24=DC24V; AC220=AC220V; AC110=AC110V;
- 1.No code=Without manual override 2.Eb=With manual override 3.EL– choose from page 140 =With handle
- Z5L=Large quadrate plug with light
- No code=Without orifice isert b08=orifice size0.8mm; b1 0=orifice size1 .0mm b12=orifice size1 .2mm
- No code=NBR seals for petroleum oils V=FPM seals for phosphate ester
- For further detials

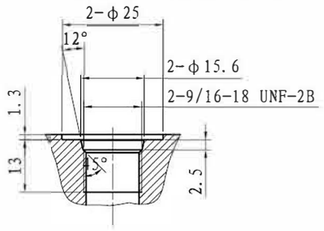
External Dimensions and Fittings



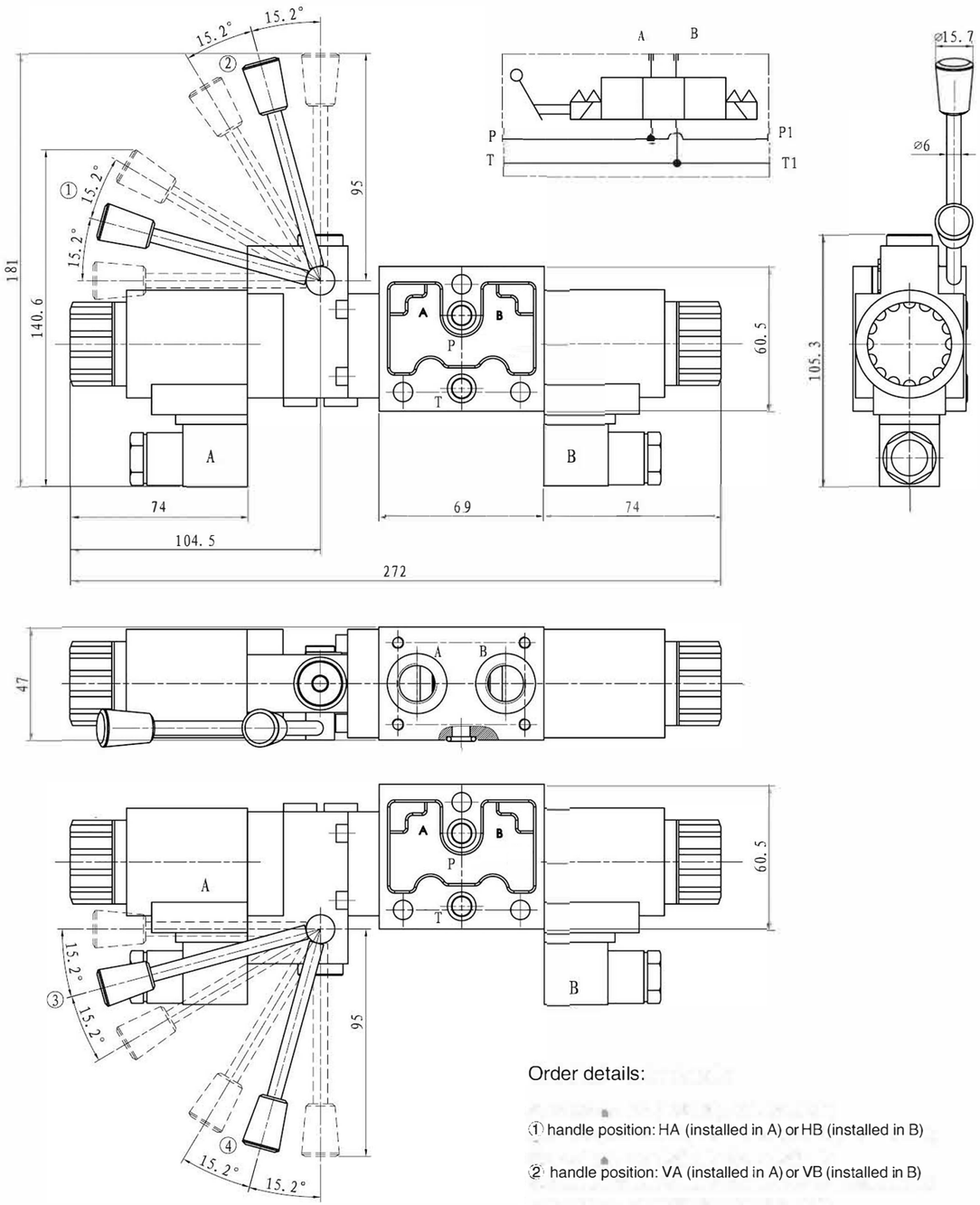
Sectional view of A,B oil port G3/8



Sectional view of A,B oil port SAE8 1.5:1



Installation Dimensions



Order details:

① handle position: HA (installed in A) or HB (installed in B)

② handle position: VA (installed in A) or VB (installed in B)

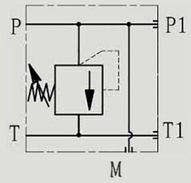
③ handle position: H1 (installed in A) or H9 (installed in B)

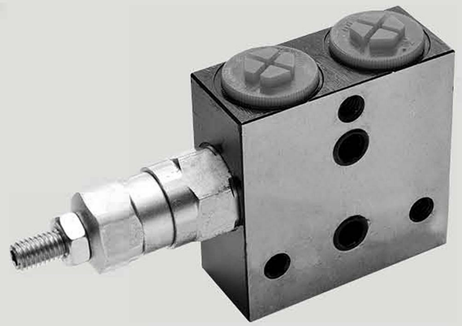
④ handle position: V1(installed in A) or V9 (installed in B)

PMWE6

PMWE6
INLET ELEMENTS WITH PRIMARY PRESSURE RELIEF VALVE

SYMBOL



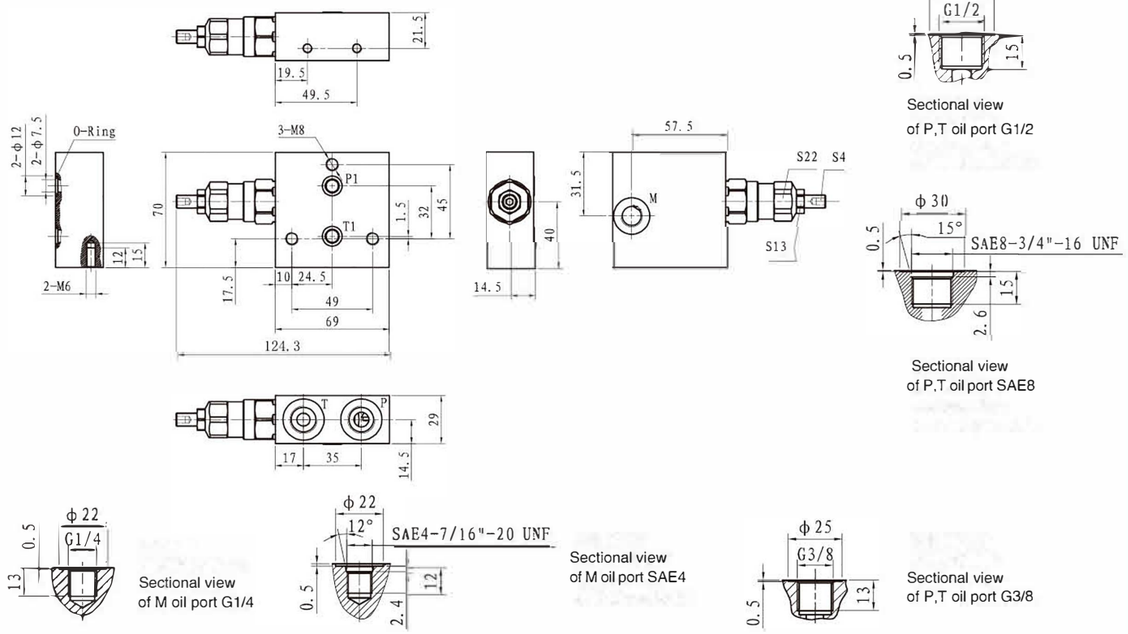


Technical data

0perating pressure(MPa)	31.5
Max flow rate (L/min)	50

Port	Size	
P,T	Inch	G3/8,G1/2
	American	SAE8(3/4"16 UNF)
M	Inch	G1/4
	American	SAE4(7/16"20 UNF)

External Dimensions and Fittings

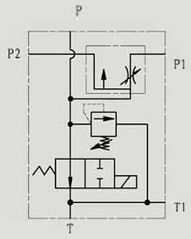


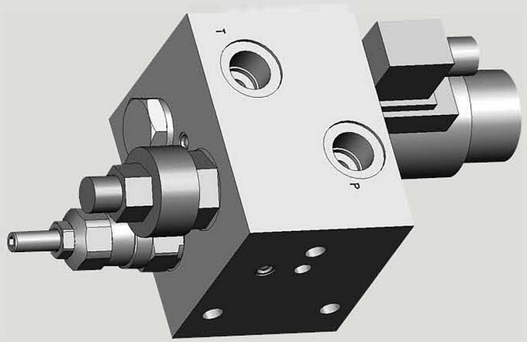
GIDREX®
Гидрекс-Украина

POH–MDWE6–1312

POH-MDWE6-1312
MANIFOLD SOLENOID DIRECTIONAL VALVES

SYMBOL

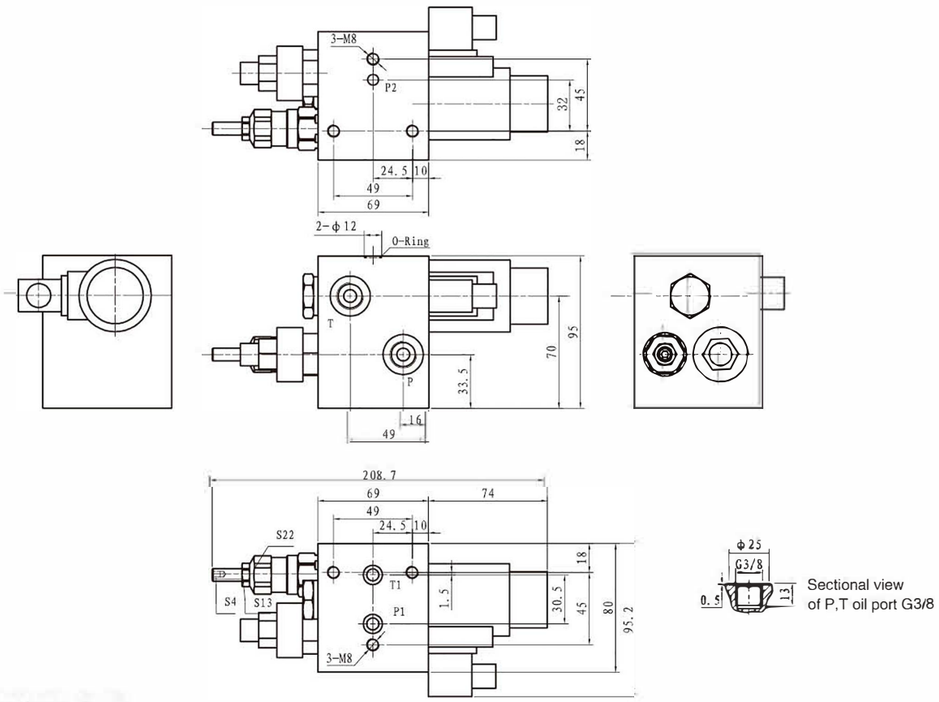




Technical data

0perating pressure(MPa)	31.5
P Max flow rate (L/min)	80
P1 Max flow rate (L/min)	40
P2 Max flow rate (L/min)	40
Port	Size
P,T (Inch)	G3/8

External Dimensions and Fittings

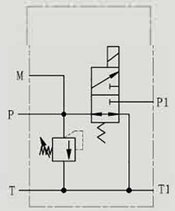


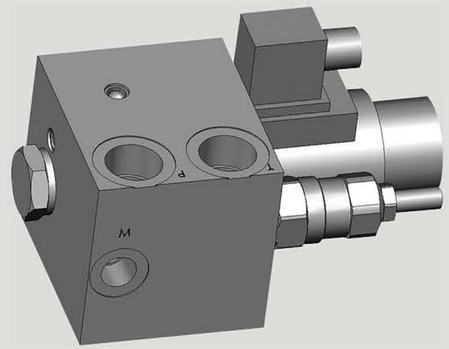
Sectional view of P,T oil port G3/8

TWMDE6

TWMDE6
INLET ELEMENTS

SYMBOL

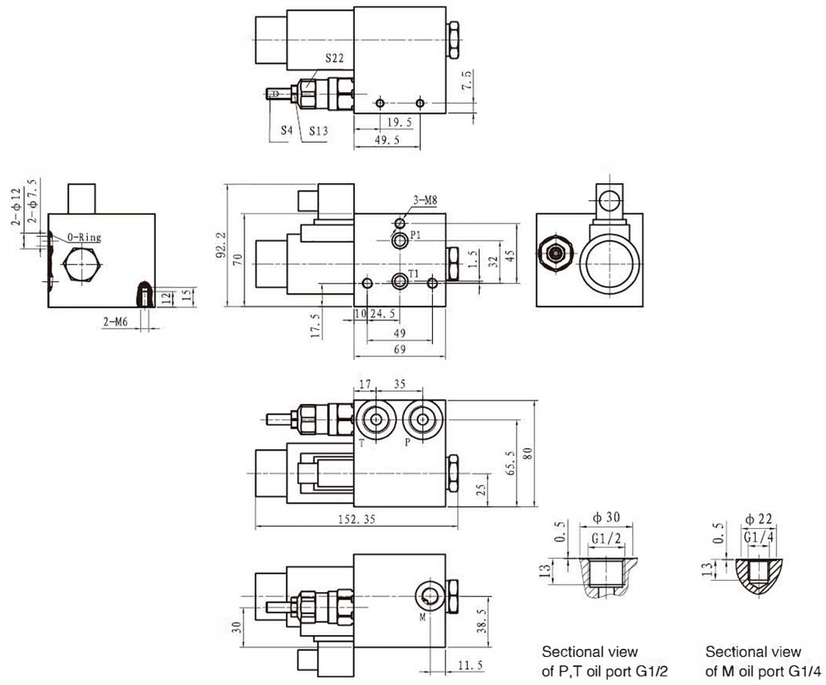




Technical data

Max flow rate (L/min)	50
0perating pressure (Mpa)	31.5
Port	Size
P,T (Inch)	G1/2
M (Inch)	G1/4

External Dimensions and Fittings



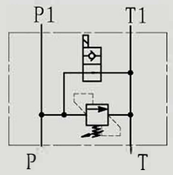
Sectional view of P,T oil port G1/2

Sectional view of M oil port G1/4

PSRMWE6

PSRMWE6
INLET ELEMENTS WITH PRIM ARY PRESSURE RELIEF VALVE

SYMBOL

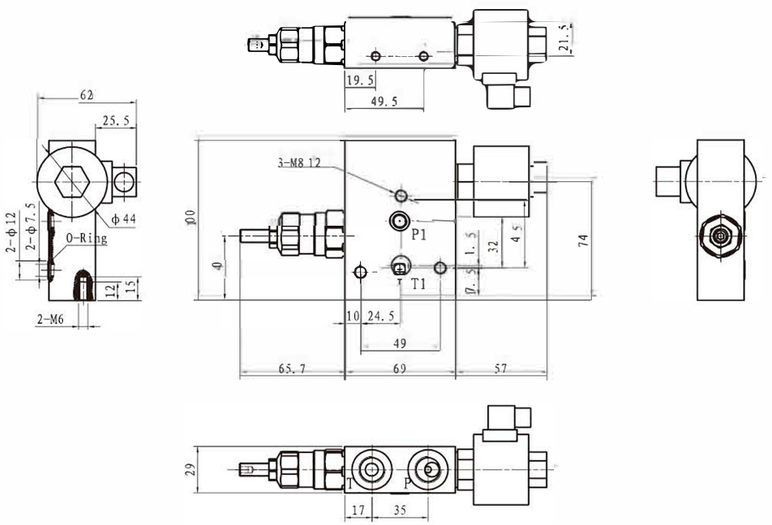


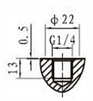
Technical data

0perating pressure(MPa)	31.5
Max flow rate (L/min)	50

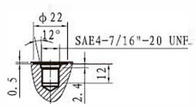
Port	Size	
P,T	Inch	G3/8,G1/2
	American	SAE8(3/4"16 UNF)
M	Inch	G1/4
	American	SAE4(7/16"20 UNF)

External Dimensions and Fittings

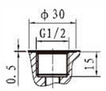




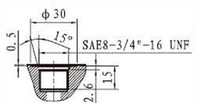
Sectional view
of M oil port G1/4



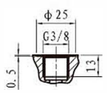
Sectional view
of M oil port SAE4



Sectional view
of P.T oil port G1/2



Sectional view of
P,T oil port SAE8

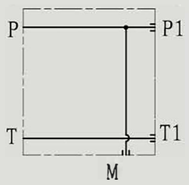


Sectional view
of P.T oil port G3/8

PTMWE6

INLET ELEMENTS PTMWE6

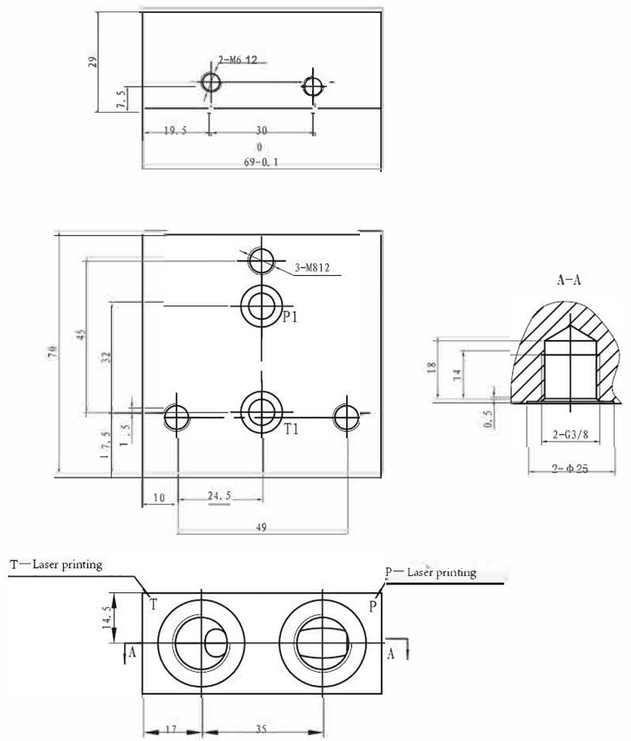
符号 SYMBOL



Technical data

Max.flow rate (L/min)	50
0perating pressure (Mpa)	25
0il cleanliness	NAS class 1638 / SO4406 class 20/18/15

External Dimensions and Fittings



TMWE6

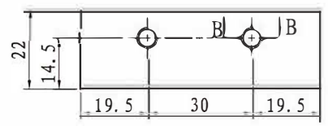
TMWE6
OUTLET ELEMENTS

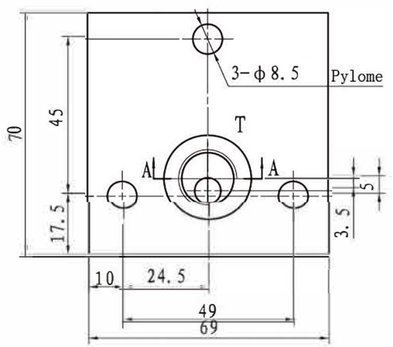
SYMBOL

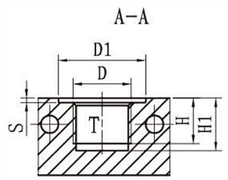
Technical data

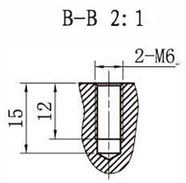
Max.flow rate (L/min)	50
0perating pressure (Mpa)	25
0il cleanliness	NAS class 1638 ISO4406 class 20/18/15

Installation Dimensions





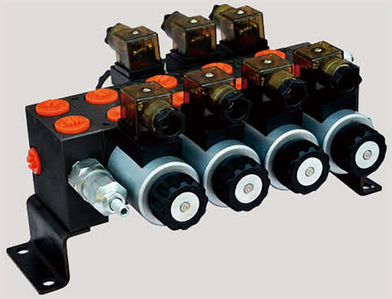




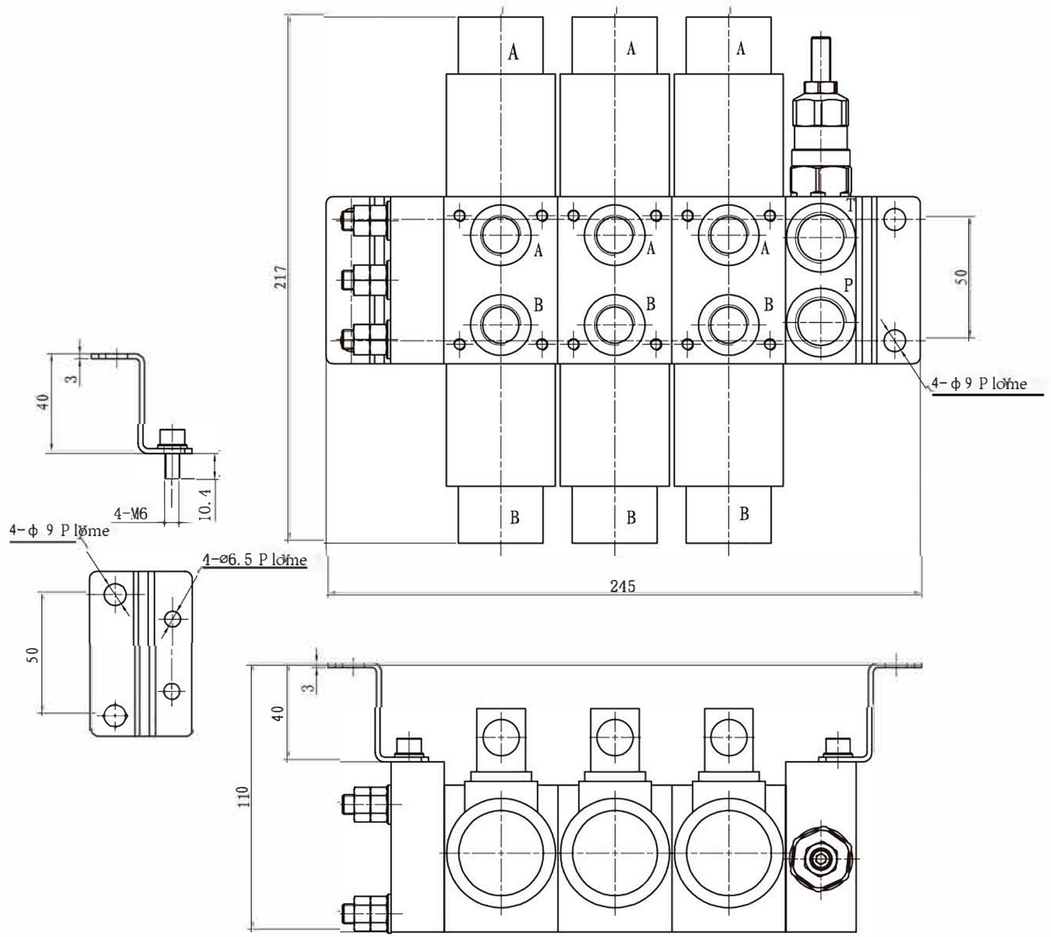
D	D1	H	H1	S
G3/8	Φ25	13	15	1.3
G1/2	Φ30	15	17	0.2

MDWE6

MDWE6
MANIFOLD SOLENOID DIRECTIONAL VALVES

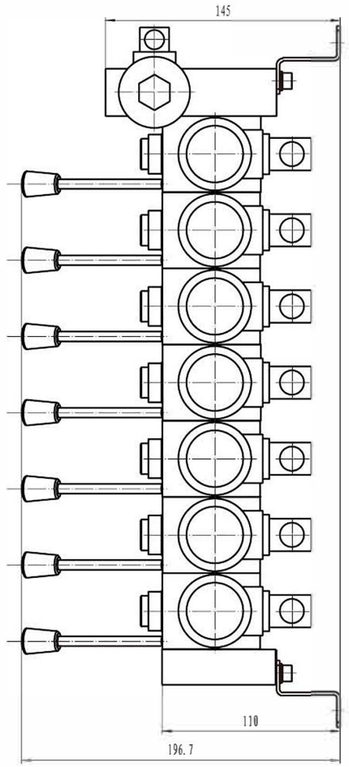


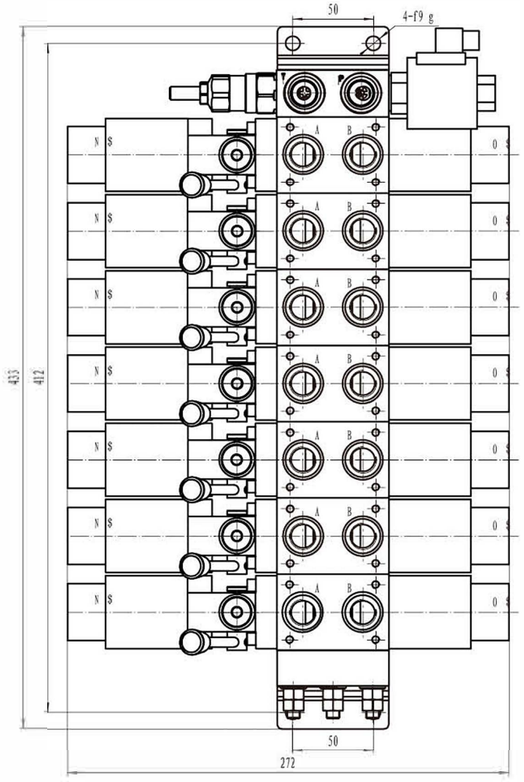
External Dimensions and Fittings



Remark: can be added more sections, also can be installed other valves on the directional sections.

External Dimensions and Fittings





Technical date	Maxflow (L/min)	Working pressure (MPa)
	40	31

Size of oil port P、T	
	G1/2
A、B	G3/8
M	G1/4

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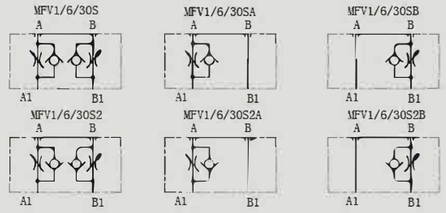
MFV

MFV
SERIES MODULAR CHECK THROTTLE VALVES

SYMBOL

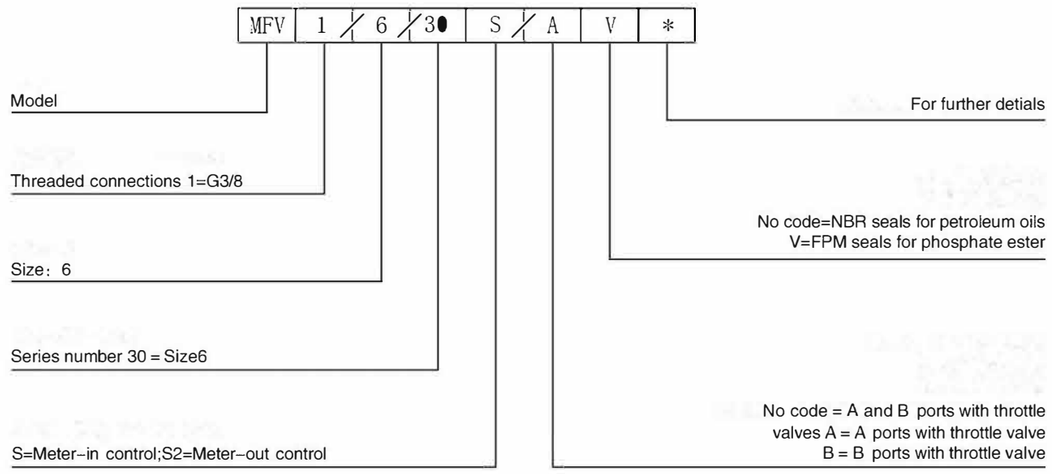


MFV series modular check/throttle valves are used to restrict flow in one direction while allowing free-flow

Technical data

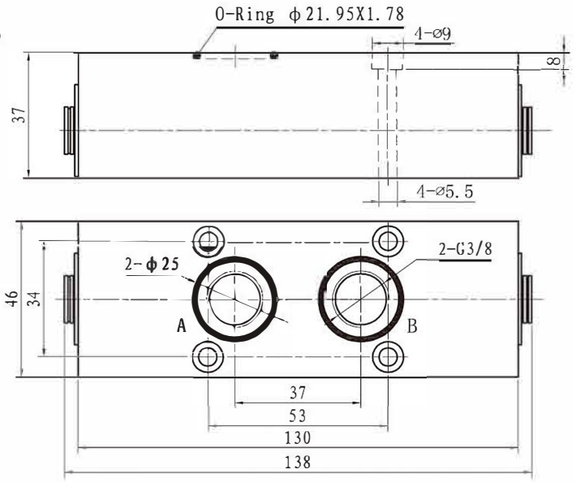
Model	MFV
Max flow rate (L/min)	40
Operating pressure (MPa)	31.5
Valve body (Material) Surface treatment	casting phosphating surface
Oil cleanliness	NAS class 1638 / ISO4406 class 20/18/15

Ordering Details

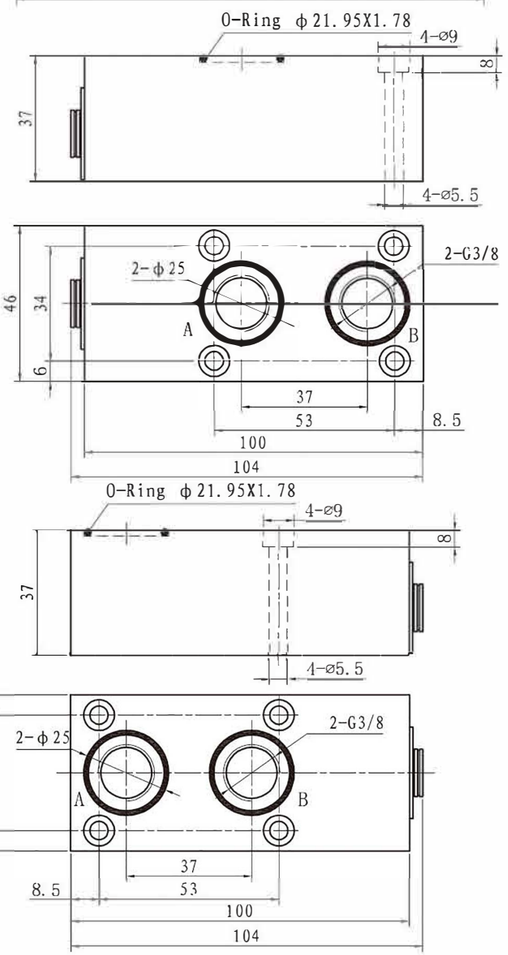


External Dimensions and Fittings

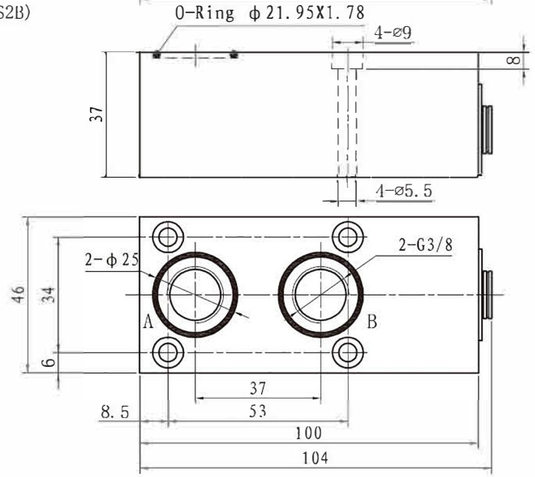
MFV1/6/30S(MFV1/6/30S2)



MFV1/6/30SA(MFV1/6/30S2A)



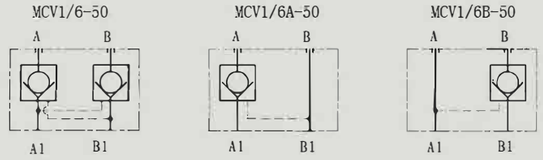
MFV1/6/30SB(MFV1/6/30S2B)



MCV

MCV
MODULAR PILOT CONTROLLED CHECK VALVES

SYMBOL



MCV series are pilot operated style sandwich valves. These valves used to close one or two actuator ports.

Technical data

Model	MCV
Max flow rate (L/min)	40
Operating pressure (MPa)	31.5
Pilot ratio	3:1
Valve body (Material) Surface treatment	casting phosphating surface
Oil cleanliness	NAS class 1638 / ISO4406 class 20/18/15

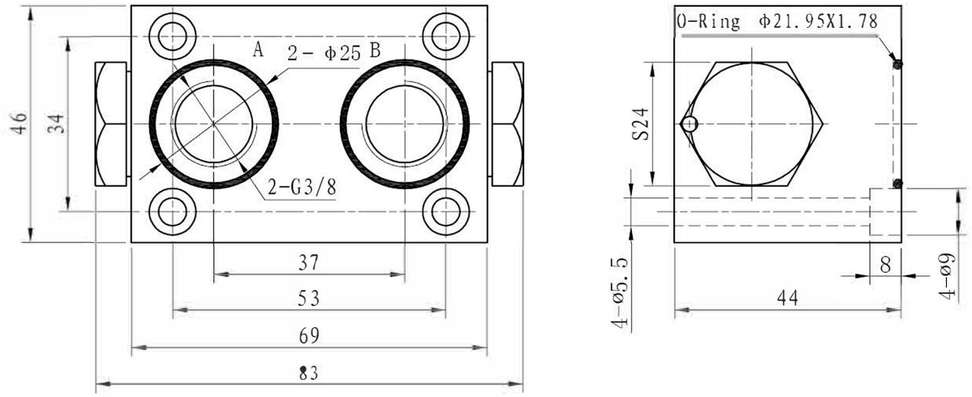
Ordering Details

MCV | 1 / 6 | A | 50 / V | *

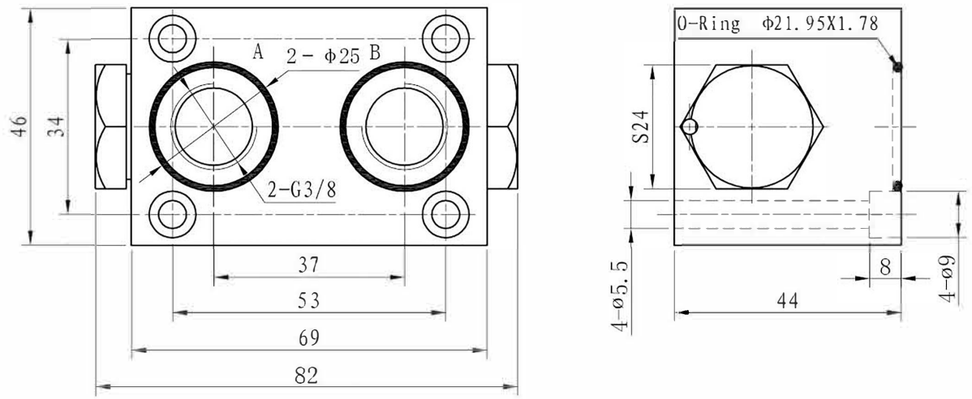
- Model
- Threaded connections 1=G3/8
- Size6
- No code = A and B ports with check valves A = A ports with check valve B = B ports with check valve
- Series number 50 = Size 6
- No code=NBR seals for petroleum oils V=FPM seals for phosphate ester
- For further detials

External Dimensions and Fittings

MCV1/6-50



MCV1/6A-50(MCV1/6B-50)



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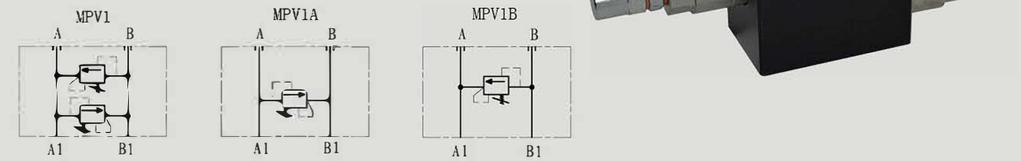
MPV

MPV
MODULAR PRESSURE RELIEF VALVES DIRECT ACTING

SYMBOL

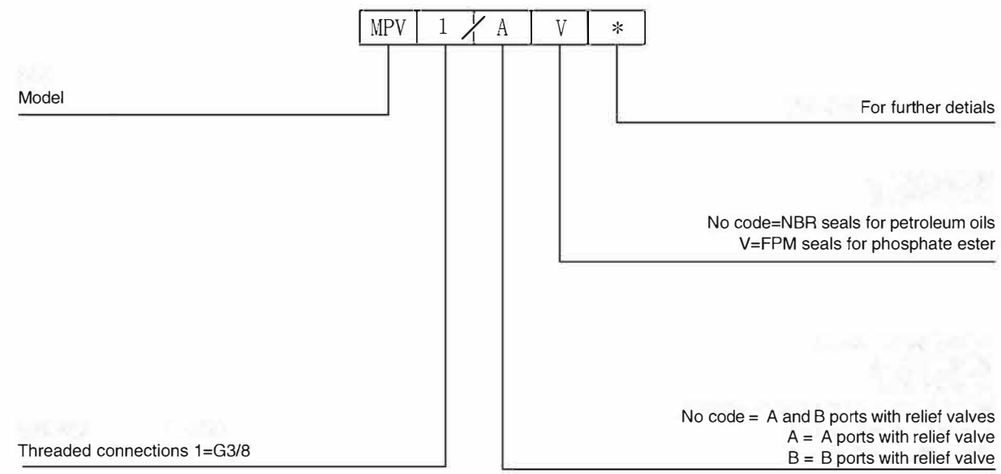


MPV series pressure relief valves are direct operated poppet type,it can supply overload protection for hydraulic systems.

Technical data

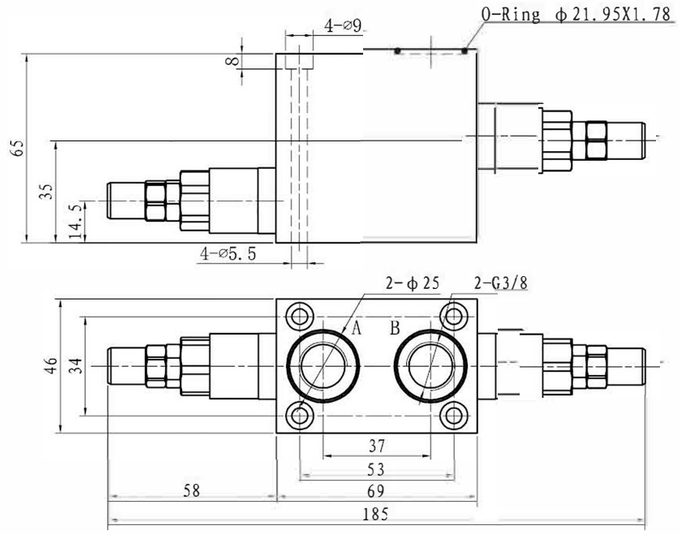
Model	MPV
Max flow rate (L/min)	40
Operating pressure (MPa)	31.5
Valve brial) Surface treatment	Steel body Surface clear zinc plating
Oil cleanliness	NAS class 1638/ISO4406 class 20/18/15

Ordering Details

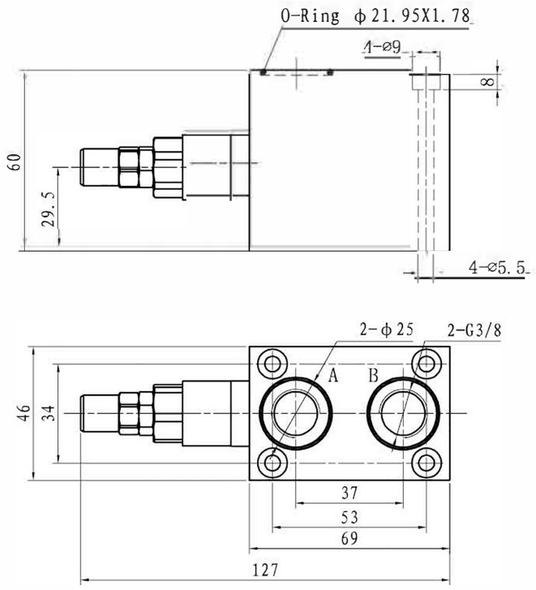


External Dimensions and Fittings

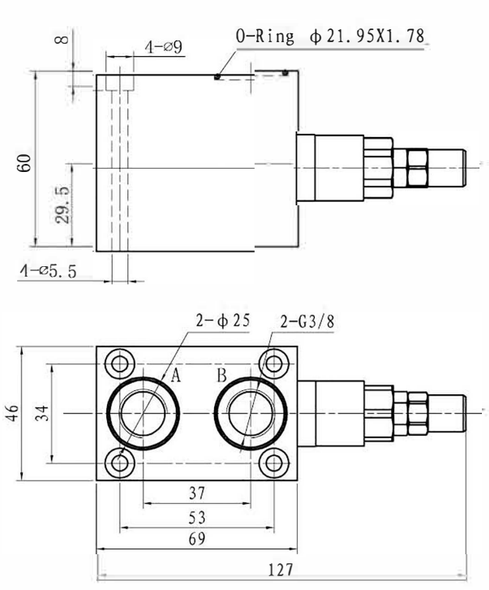
MPV1



MPV1A



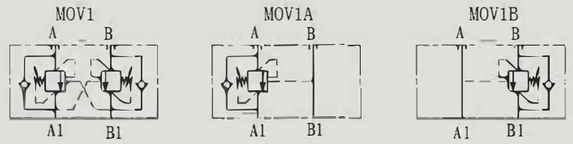
MPV1B



MOV

MOV
MODULAR COUNTERBALANCE VALVES FOR OPEN CENTER

SYMBOL

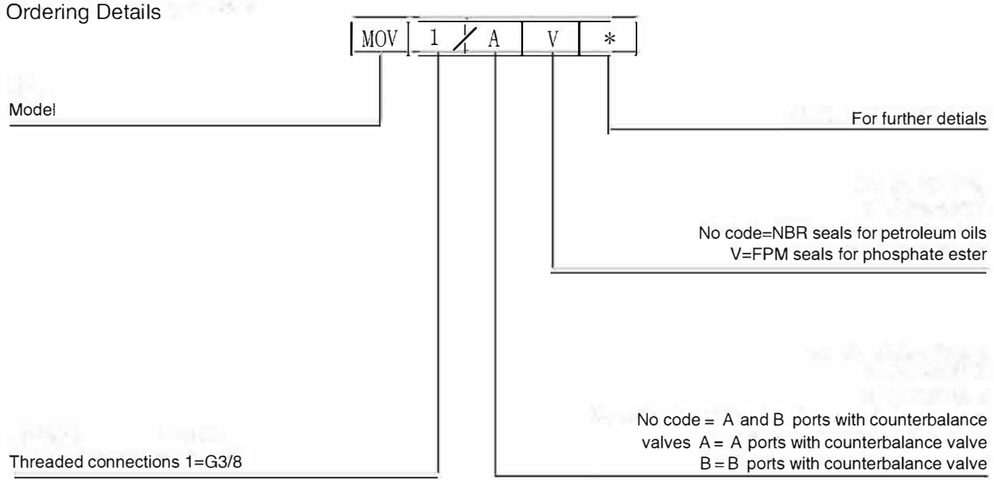


It provides static and dynamic control of load by regulating the flow IN and OUT of the actuator, through ports A and B.This valve module includes 2 sections,each one composed by a check and a relief valve pilot assisted by pressure in the opposite line: the check section allows free flow into the actuator, then holds the load against reverse movement; with pilot pressure applied at the line across,the pressure setting of the relief is reduced in pro-portion to the stated ratio until opening and allowing controlled reverse flow. Back-pressure at A 1 or B 1 is additive to the pressure setting in all functions.

Technical data

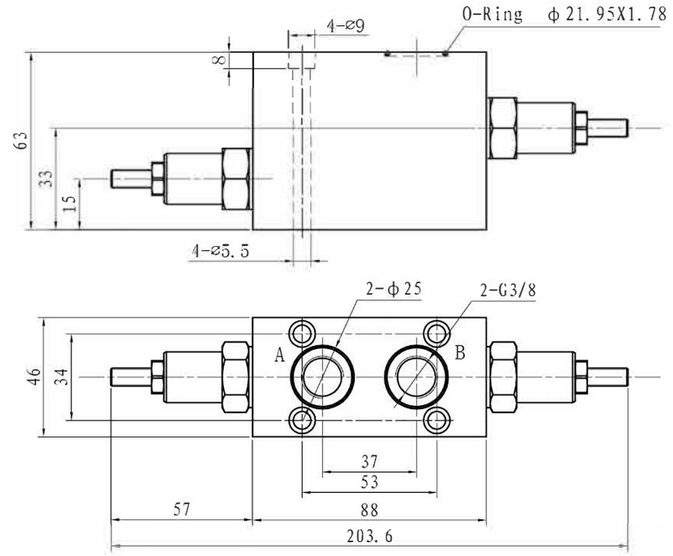
Model	MOV
Max flow rate (L/min)	40
Operating pressure (MPa)	31.5
Pilot ratio	4.3:1
Valve body (Material) Surface treatment	Steel body Surface clear zinc plating
Oil cleanliness	NAS class 1638 / ISO4406 class 20/18/15

Ordering Details

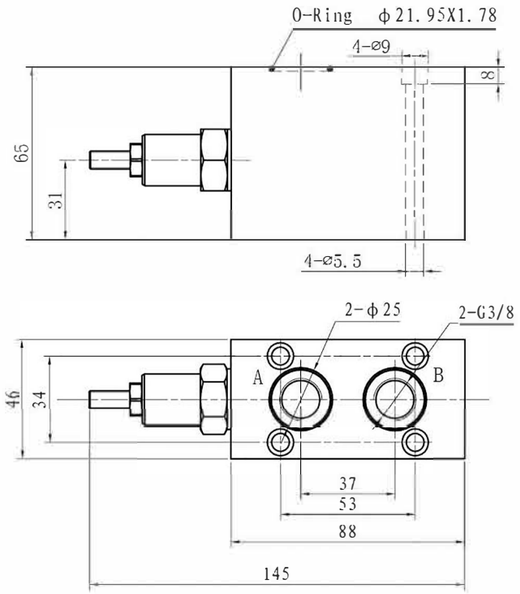


External Dimensions and Fittings

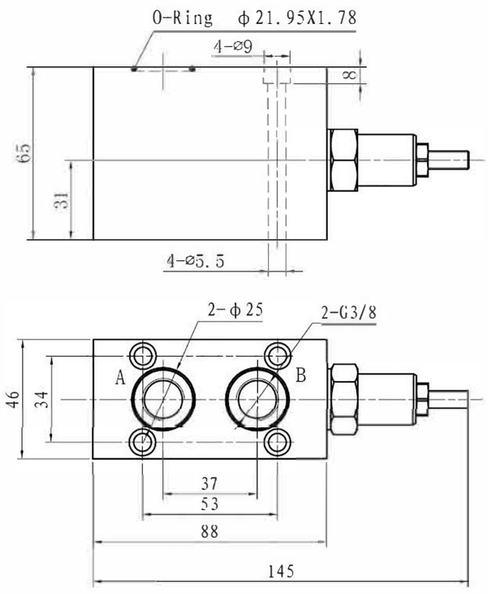
MOV1



MOV1A



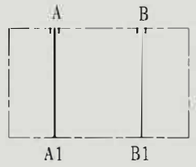
MOV1B

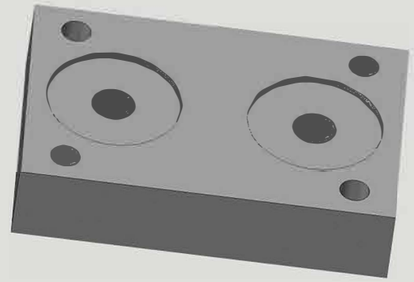


MFV1–02

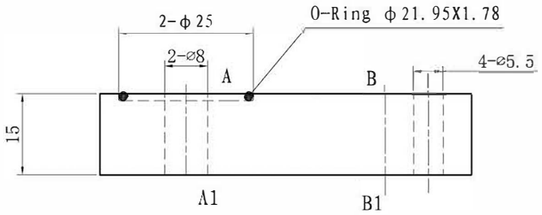
MFV1-02 is the transition part, only used for the below situation:
Directional valve with manual+Transition part+Modular check throttle valve.(Direct stacking)
For item code is MWE6**EL+MFV1-02+MFV

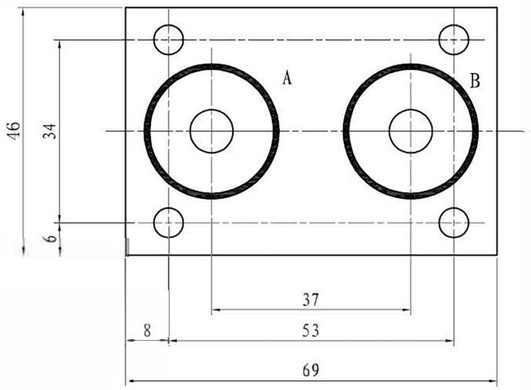
SYMBOL





External Dimensions and Fittings





SALES NETWORK

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