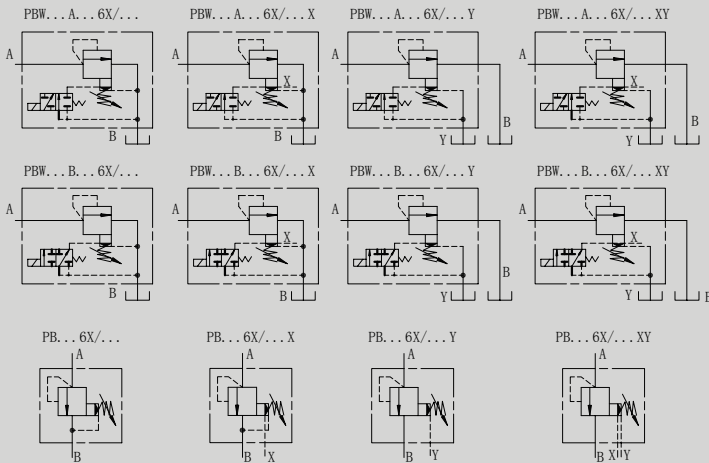


PB/PBW型60/6X系列溢流阀

PB/PBW 60/6X SERIES PILOT OPERATED PRESSURE RELIEF VALVES

符号 SYMBOL



PB型阀是先导控制式的溢流阀。PBW型是先导控制式的电磁溢流阀是用于控制液压系统的压力，并能在任意时刻使系统卸荷。

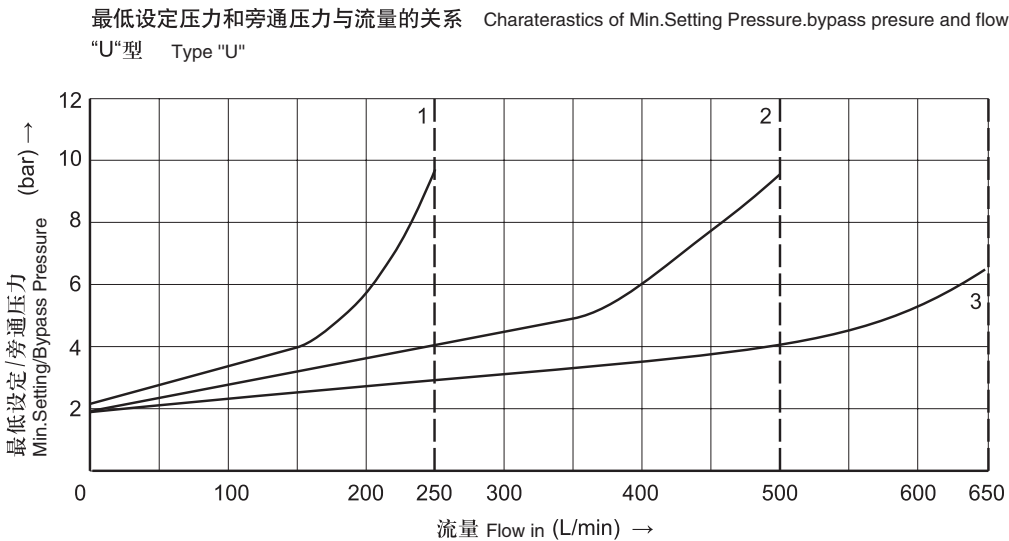
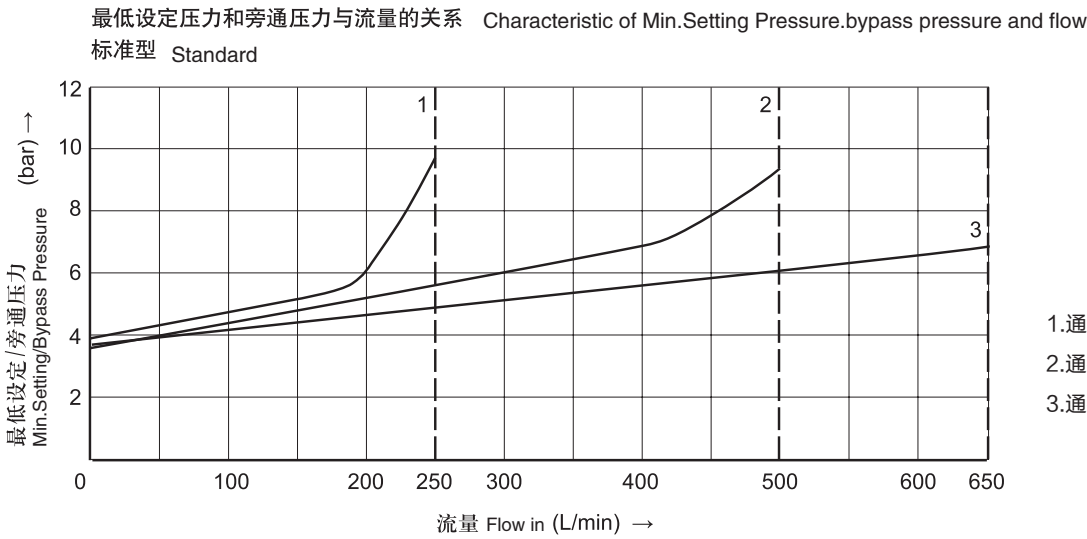
6X系列PB/PBW型阀，性能优于60系列PB/PBW，具有更平稳的调压性能，更低的最低调节压力和调压范围大，通流能力更强等特点。

PB is pilot operated pressure relief valve, PBW 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.

技术参数 Technical data

通径 Size		10		20		30	
系列号 Series No		60	6X	60	6X	60	6X
工作压力(Mpa) Operating pressure(Mpa)		31.5	35	31.5	35	31.5	35
最大流量(L/min) Max .flow rate(L/min)		200	250	400	500	600	650
介质温度(℃) Fluid temperature(℃)		-20 ~ 70					
过滤精度(μ m) Filtration accuracy(μ m)		25					
重量(千克) Weight(KGS)	PB	3.2		4.2		5.2	
	PBW	4.7		5.5		6.8	
阀体 (材料) 表面处理 Valve body (Material) Surface treatment		铸件 表面磷化处理 casting phosphating surface					
油液清洁度/Oil cleanliness		NAS1638 9级和ISO4406 20/18/15级 NAS1638 class 9 and ISO4406 class 20/18/15					

特性曲线 (在使用 HLP46 , 油=40℃ ± 5℃时测得)
Characteristic curves (measured with HLP46 , Voil=40℃ ± 5℃)



注意!

此特性曲线在控制油外部零压回油时测得。
对于控制油内部回油，进口压力增加了T口的压力值。

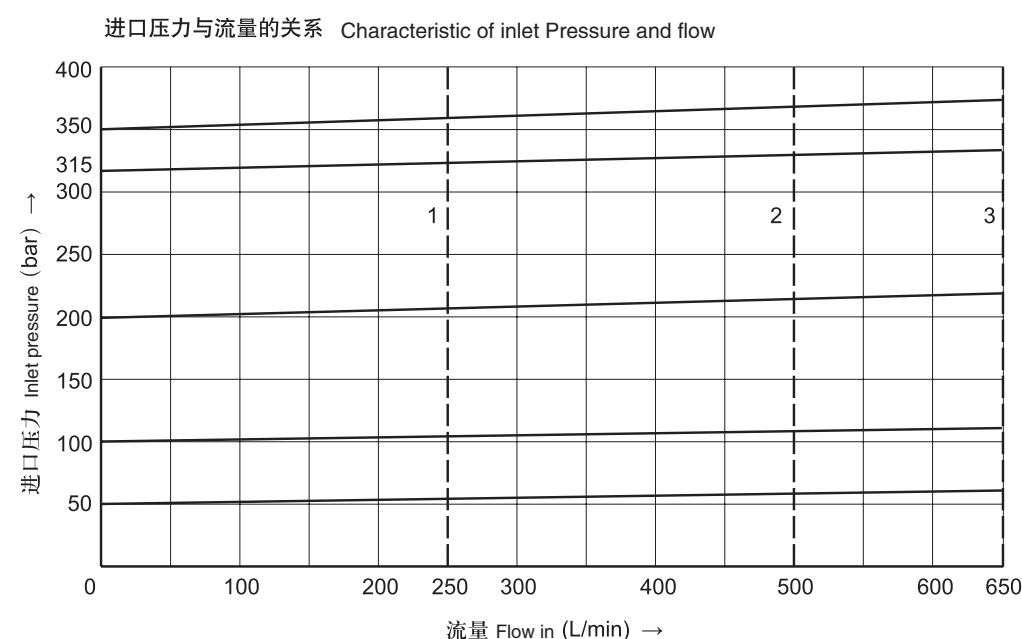
Attention!

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.

此特性曲线在整个流量范围内
对于出口压力 $p_r = 0$ 有效!

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

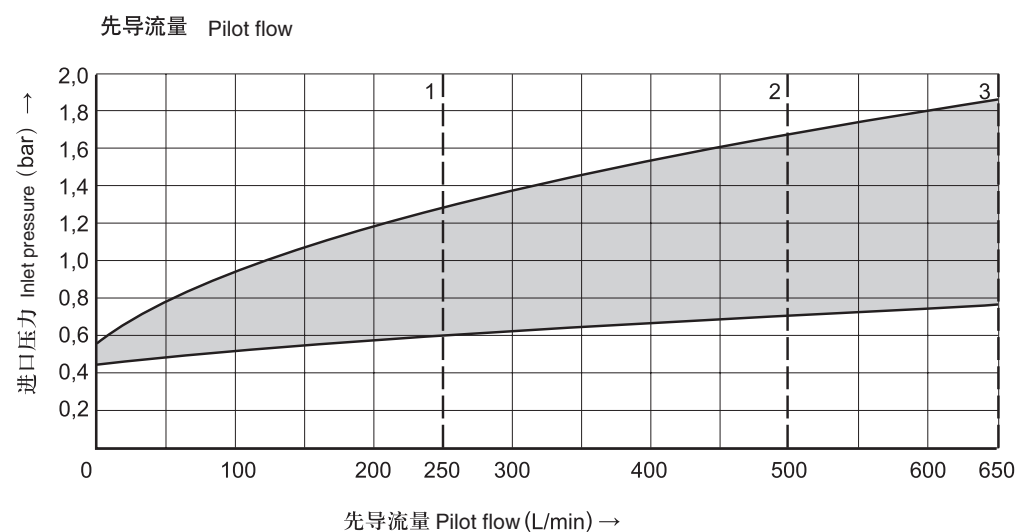
► 特性曲线 (在使用 HLP46 , 油=40℃ ± 5℃ 时测得)
Characteristic curves (measured with HLP46, Voil=40℃ ± 5℃)



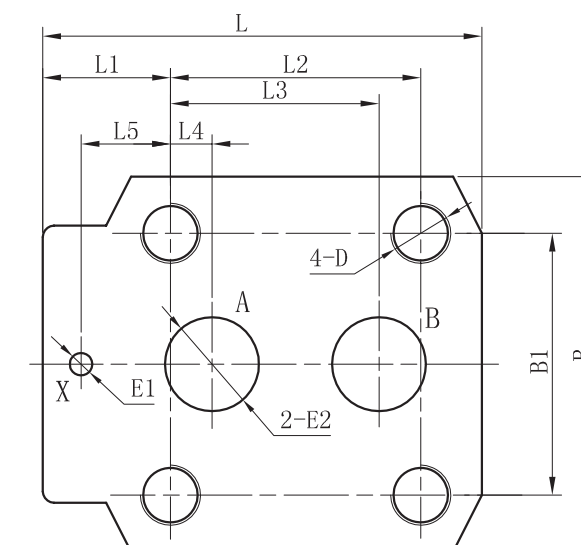
注意!
此特性曲线在控制油外部零压回油时测得。
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Attention!
The curves is measured without pressure when control oil back to the tank.
Refers to the back into housing of the control oil,the pressure of "T" port has increased against the input pressure.

► 特性曲线 (在使用 HLP46 , 油=40℃ ± 5℃ 时测得)
Characteristic curves (measured with HLP46, Voil=40℃ ± 5℃)



► 板式底板安装尺寸 Subplate mounting



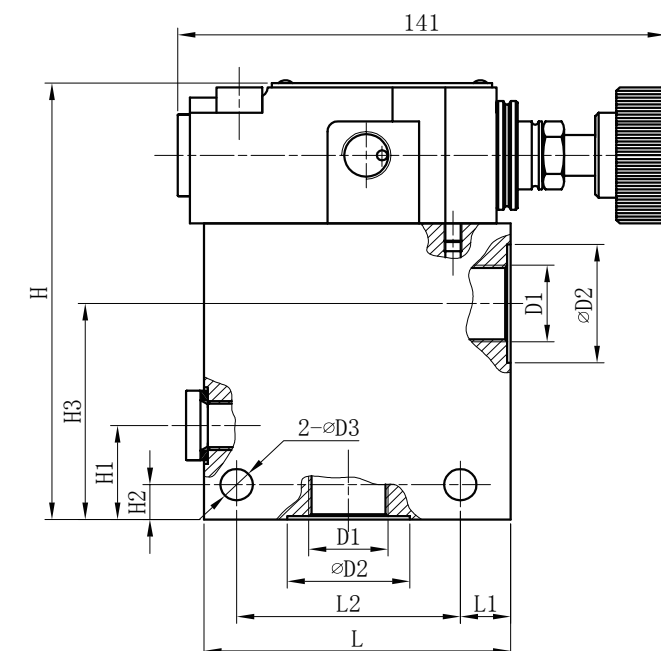
► 板式底板安装尺寸 Subplate mounting

型号 Model	L	L1	L2	L3	L4	L5	B	B1	D	E1	E2
PB/PBW10	90	23.5	54	47.6	22.2	0	78	54	M12/26	Φ6	Φ12
PB/PBW20	117	34	66.7	55.6	11.1	23.8	100	69.8	M16/26	Φ6	Φ25
PB/PBW30	148	41.5	88.7	76.2	12.7	31.7	115	82.5	M18/26	Φ7	Φ32

► 管式连接尺寸 Threaded connections

型号Model	D1		D2	D3	L	L1	L2	H	H1	H2	H3
	公制 Metric	英制 Inch									
PB8G	M18 × 1.5	G 3/8"	28	9	85	14	62	125	27	10	62
PB10G	M22 × 1.5	G 1/2"	34	9	85	14	62	125	27	10	62
PB15G	M27 × 2	G 3/4"	42	9	85	14	62	125	27	10	62
PB20G	M33 × 2	G 1"	47	9	85	14	62	125	27	10	57
PB25G	M42 × 2	G 1 1/4"	56	9	100	18	72	138	40	13	66
PB30G	M48 × 2	G 1 1/2"	61	9	100	18	72	138	40	13	66

► 管式连接尺寸 Threaded connections



型号 Model

无 = 不带换向阀
W = 带换向阀
No code=Without
directional valve
W=With directional valve

通路 Size
 板式: 10;20;30
 管式: 8;10;15;20;25;30
 Subplate mounting:10;20;30
 Threaded connection:8;10;15;
 20;25;30

A=常闭 A=Normally closed
B=常开 B=Normally open

无=板式 No code=subplate mounting
G=管式 G=Threaded connection

1=带手轮；2=带保护罩调节螺栓
1=Hand wheel
2=Sleeve with hexagon and protective cap

系列号: 60系列; 6X系列 Series number:60;6X

压力等级 Pressure range (Mpa) 5;10;20;31.5

无=丁晴橡胶
V=氟橡胶
No code=NBR seals
V=FPM seals

无=英制;2 = 公制
No code=Inch thread;
2=Metric thread

Z5L=帶燈大方型插頭
Z5L=Big quadrate
plug with light

无标记 = 没有故障检查按钮
N = 有故障检查按钮
No Code=Without manual override
N=With manual override

电压 Voltage AC220;DC24

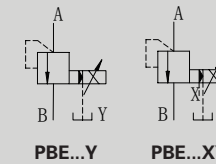
无标记 = 主阀芯硬弹簧
U = 主阀芯软弹簧
No Code=Standard
U=For min.cracking pressure

无 = 先导控制油内供内排
X = 先导控制油外供内排
Y = 先导控制油内供外排
XY = 先导控制油外供外排
No code = Internally pilot, internally drained
X = Externall pilot, internally drained
Y = Internally pilot, externally drained
XY = Externall pilot, externally drained

PBE/PBEK TYPE PROPORTIONAL PRESSURE RELIEF VALVES



符号 SYMBOL



PBE型阀是座阀结构的先导式溢流阀，用这种阀，系统压力可随电气输入信号，连续改变，压力的极限由磁铁设定，与电流有关。PBEK型溢流阀，在PBE型溢流阀基础上加装一个弹簧加载的压力溢流阀，提供最高压力保护。

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.

▶ 安装尺寸详见第9页 Installation dimensions refer to page 9

PBE	K	*	10	60	31.5	Y	*	*	*
无代号 = 不带最高压力保护 K = 带最高压力保护 NO code=Without max pressure protection K=With max pressure protection						For further detailed 附加说明 无=丁腈橡胶 V=氟橡胶 No code=NBR seals for petroleum oils V=FPM seals for phosphate ester			
无 = 先导式溢流阀 C=带主阀芯组成的先导阀 (通径30) C=不带主阀芯组成的先导阀 T=作为遥控阀的先导阀 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						无 = 英制螺纹 2 = 公制螺纹 No code=Inch thread; 2=Metric			
通径: 10; 20; 30 Size:10;20;30						Y=内部先导供制油内供外排 XY=内部先导供制油外供外排 Y=Internally piloted/externally drained XY=externally piloted/externally drained			
序列号 60 Series number 60						压力等级 Pressure rating 5=5MPa 10=10MPa 20=20MPa 31.5=31.5MPa			

无代号 = 不带最高压力保护
K = 带最高压力保护
NO code=Without max pressure protection
K=With max pressure protection

无 = 先导式溢流阀
C=带主阀芯组成的先导阀 (通径30)
C=不带主阀芯组成的先导阀
T=作为遥控阀的先导阀
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 with remote control valve

通径: 10; 20; 30
Size:10;20;30

序列号 60
Series number 60

For further detailed 附加说明

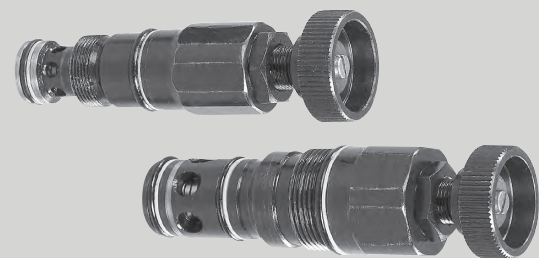
无=丁晴橡胶
V=氟橡胶
No code=NBR seals for petroleum oils
V=FPM seals for phosphate ester

无 = 英制螺纹
2 = 公制螺纹
No code = Inch thread; 2 = Metric

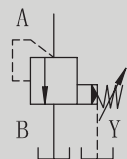
Y=内部先导供制油内供外排
XY=内部先导供制油外供外排
Y=Internally piloted/externally drained
XY=externally piloted/externally drained

压力等级 Pressure rating	5=5MPa
	10=10MPa
	20=20MPa
	31.5=31.5MPa

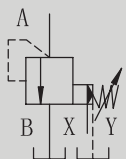
PB...K SERIES PLUG-IN PILOT CONTROLLED PRESSURE RELIEF VALVES



PB...K/...Y



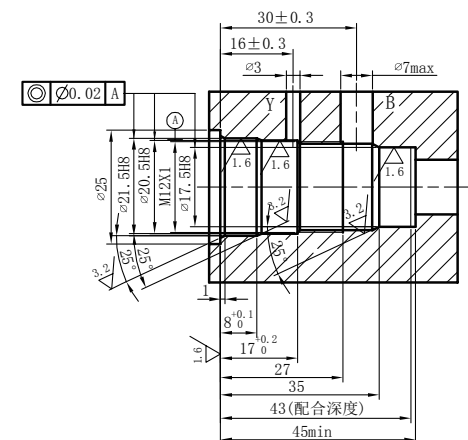
PB20K.../...XY



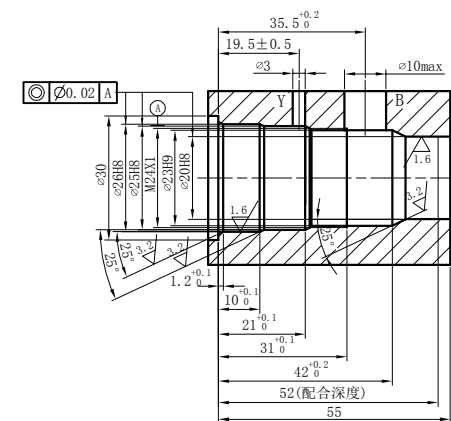
PB...K series are pilot operated relief valves used to limit pressure in a hydraulic system.

口径 Size	6	10	20
工作压力(Mpa) Operating pressure(Mpa)	31.5		
调节压力(Mpa)Set pressure(Mpa)	至5, 10, 20, 31.5/Up to 5, 10, 20, 31, 5		
最大流量(L/min) Max .flow rate(L/min)	60	100	300
介质温度(℃) Fluid temperature(℃)	-20 ~ 70		
过滤精度(μ m) Filtration accuracy(μ m)	25		
重量(千克) Weight(KGS)	0.22	0.3	0.35
阀体 (材料) 表面处理 Valve body (Material) Surface treatment	钢件 表面发黑处理 Steel Body Surface Black Oxide		
油液清洁度/Oil cleanliness	NAS1638 9级和ISO4406 20/18/15级 NAS1638 class 9 and ISO4406 class 20/18/15		

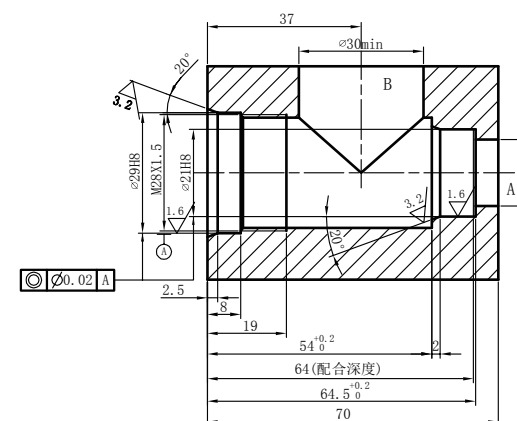
PB6K.../...Y



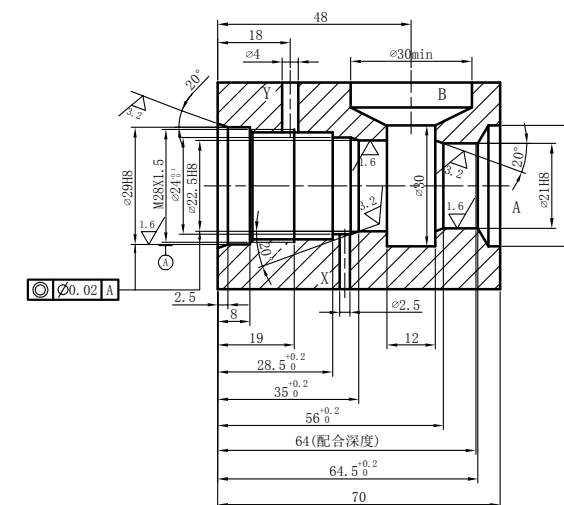
PB10K.../...Y



PB20K.../...Y



PB20K.../...X Y



PB	10	K	1	40	100	Y	*	*
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型号 Model

通径:6;10;20 Size:6;10;20

K = 插装式连接
K = Cartridge valve

1=手柄; 2 = 带保护调节螺栓
1=Rotary handle
2=Adjustable screw with protective cap

40=40系列适用于6, 10; 10 = 10系列适用于20
40=40series are suitable for 6,10;
10=10series are suitable for 20

For further details 附加说明

无=丁晴橡胶 V=氟橡胶
No code=NBR seals
V=FPM seals

Y=先导控制油内供外排
XY=先导控制油外供外排(仅PB20K)
Y = Internally pilot, externally drained
XY = Externall pilot, externally drained
(Only for PB20K)

压力等级 Pressure rating

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