

DWMG 型手动换向阀

DWMG SERIES MANUALLY
OPERATED DIRECTIONAL
VALVES



DWMG 型手动换向阀是通过手柄的操作使阀芯做轴向移动，从而对油路进行切换的直动式换向阀，采用定位器或弹簧复位装置。

DWMG 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.

技术参数 Technical data

通径 Size	6	10	16	22	25	32
流量 Flow rate(L/min)	60	100	300	450	650	1100
工作压力(Mpa) Operating pressure(Mpa)	A、B、P 油口31.5 T油口16/A、B、P oil ports 31.5 T oil ports16					
重量(千克) Weight(KGS)	1.5	4.4	8.9	12.5	19.4	39.2
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					

CADIRIRI

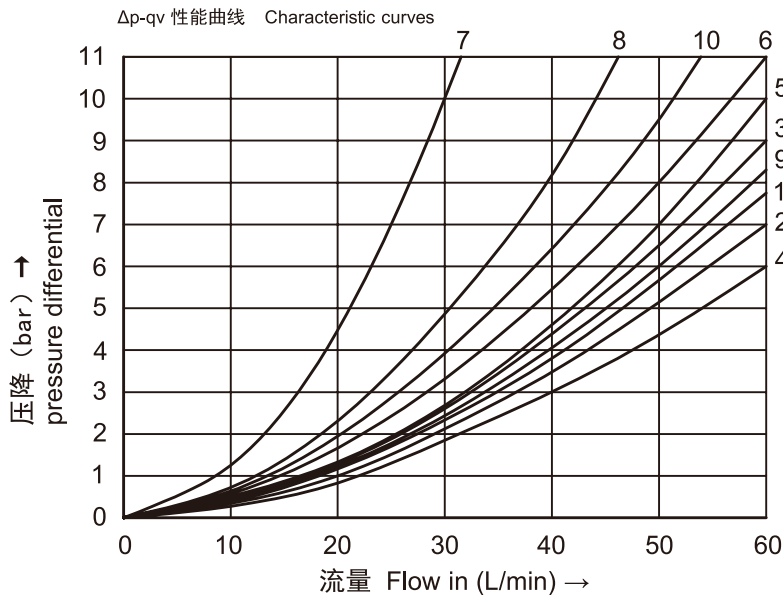
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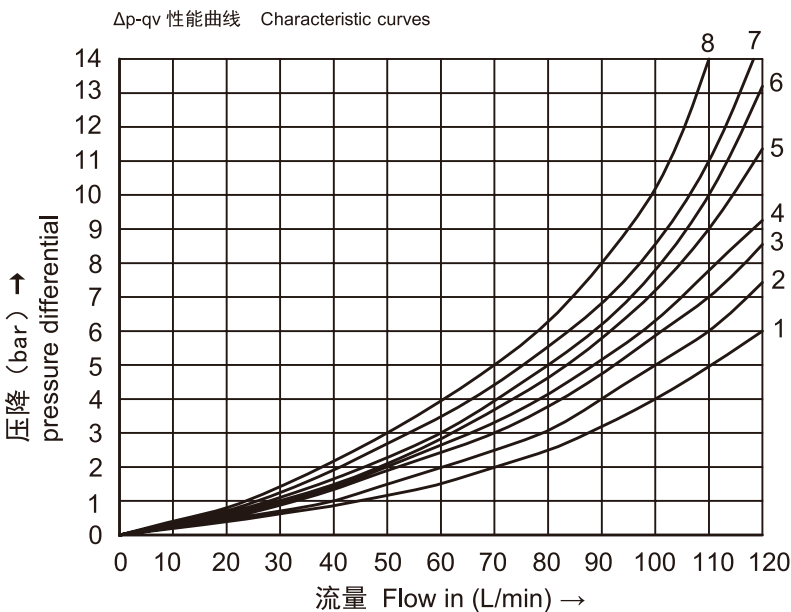
特性曲线 Characteristic curves DWMG6



- 7 机能符号"R" 处于控制位置b (A→B)
Symbol "R" in spool position "b" (A → B)
8 机能符号"G" 和"T"处于中位 (P→T)
Symbols "G" and "T" in central position (P → T)

机能符号 Spool symbol	切换位置 Spool position			
	P-A	P-B	A-T	B-T
A	3	3	—	—
B	3	3	—	—
C	1	1	3	1
D	5	5	3	3
E	3	3	1	1
F	1	3	1	1
G	6	6	9	9
H	2	4	2	2
J	1	1	2	1
L	3	3	4	9
M	2	4	3	3
P	3	1	1	1
Q	1	1	2	1
R	5	5	4	—
T	10	10	9	9
U	3	3	9	4
V	1	2	1	1
W	1	1	2	2
Y	5	5	3	3

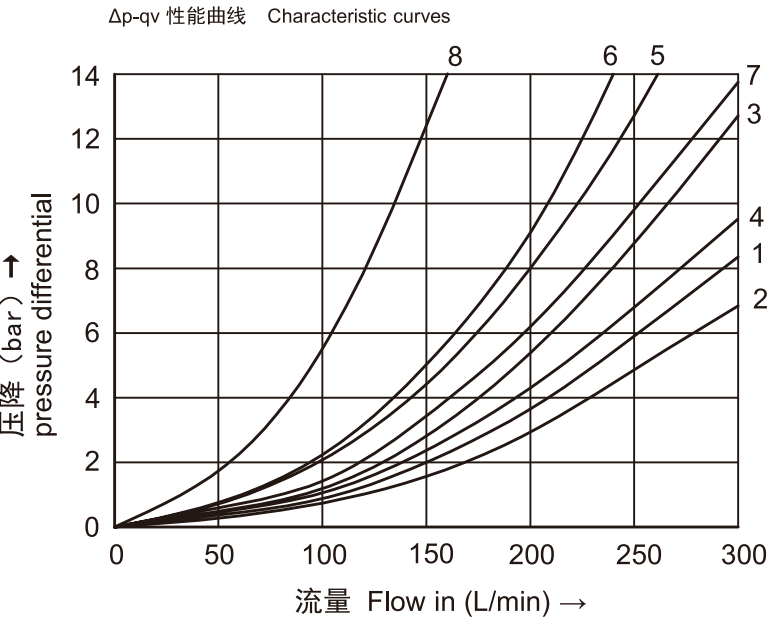
特性曲线 Characteristic curves DWMG10



- 8 机能符号"R" 处于控制位置b (B→A)
Symbol "R" in spool position "b" (A → B)
8 机能符号"G" 和"T"处于中位 (P→T)
Symbols "G" and "T" in central position (P → T)

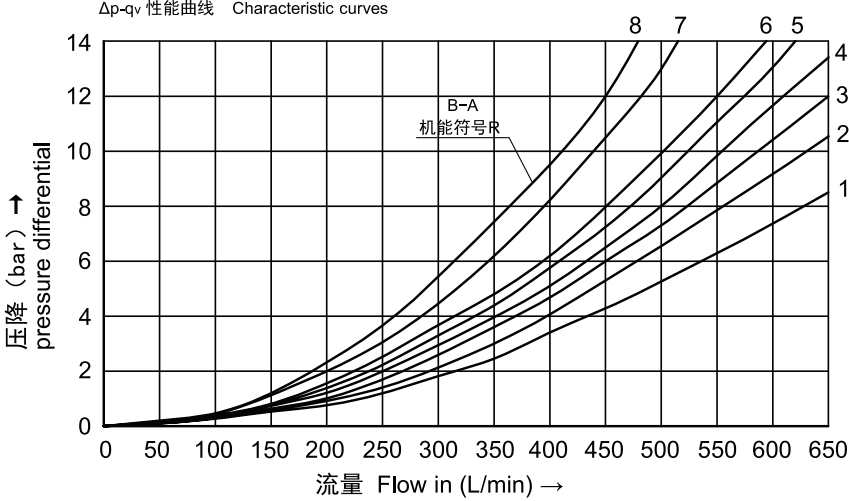
机能符号 Spool symbol	切换位置 Spool position			
	P-A	P-B	A-T	B-T
A	4	3	—	—
B	3	4	—	—
C	3	3	4	4
D	3	3	5	5
Y	4	4	6	6
E	2	2	4	4
F	1	2	3	4
G,T	4	4	7	7
H	1	1	5	5
J	2	2	3	3
L	3	3	2	4
M	1	1	4	4
P	3	1	5	5
Q	2	2	2	2
R	3	4	3	—
U	3	3	5	2
V	2	2	3	3
W	3	3	3	3

特性曲线 Characteristic curves DWMG16



机能符号 Spool symbol	切换位置 Spool position				
	P-A	P-B	A-T	B-T	P-T
E,D,Y	1	1	3	3	—
F	2	2	3	3	—
G,T	5	1	3	7	6
H,C,Q	2	2	3	3	—
V,Z	2	2	3	3	—
J,K,L	1	1	3	3	—
M,W	2	2	4	3	—
R	2	2	4	—	—
U	1	1	4	7	—
S	4	4	4	—	8

特性曲线 Characteristic curves 4DWMG25

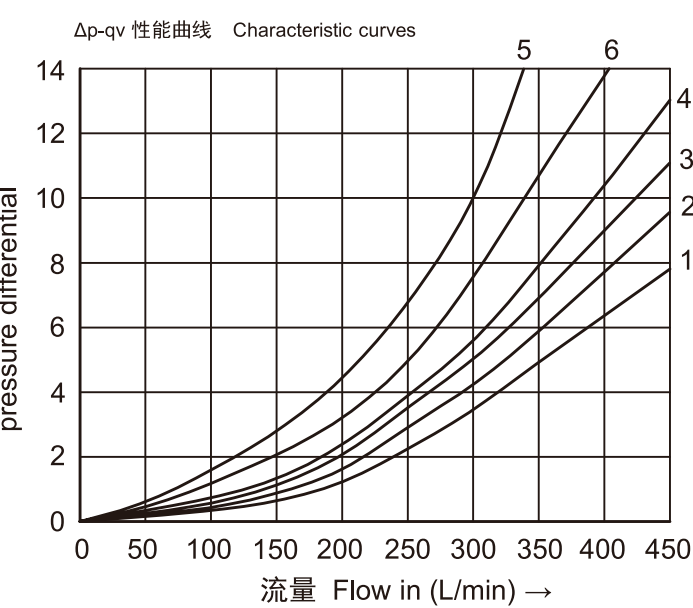


机能符号 Spool symbol	切换位置 Spool position			
	P-A	P-B	A-T	B-T
E	1	1	1	3
F	1	4	3	3
G	3	1	2	4
H	4	4	3	4
J,Q	2	2	3	5
L	2	2	3	3
M	4	4	1	4

机能符号 Spool symbol	切换位置 Spool position			
	P-A	P-B	A-T	B-T
P	4	1	1	5
R	2	1	1	—
U	4	1	1	6
V	2	4	3	6
W	1	1	1	3
T	3	1	2	4

- 7 机能符号G Spool symbols G
中位P-T Central position P-T
8 机能符号T Spool symbols T
中位P-T Central position P-T

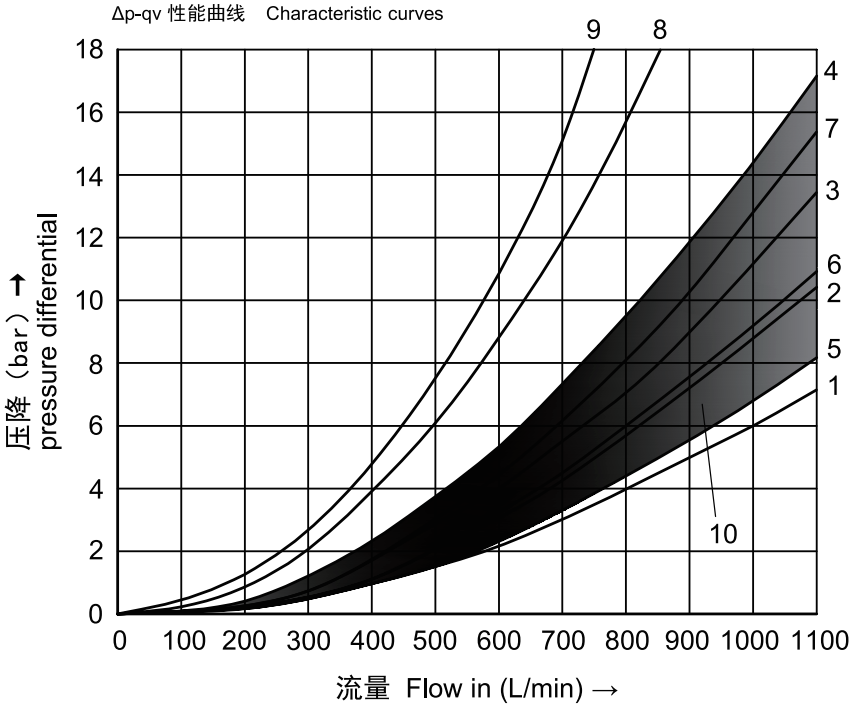
特性曲线 Characteristic curves DWMG22



机能符号 Spool symbol	切换位置 Spool position					
	P-A	P-B	A-T	B-T	P-T	B-A
E	2	2	1	4	—	—
F	1	2	1	2	4	—
G	2	2	2	4	6	—
H	2	2	1	3	2	—
J	2	2	1	3	—	—
L	2	2	1	2	—	—
M	2	2	1	4	—	—
P	2	2	1	4	6	—
Q	2	2	1	4	—	—
R	1	2	1	—	—	5
T	2	2	2	4	5	—
U	2	2	1	4	—	—
V	2	2	1	4	—	—
W	2	2	1	3	—	—

- 4 机能符号L Spool symbol L
中位A-T Central position A-T
6 机能符号U Spool symbol U
中位B-T Central position B-T

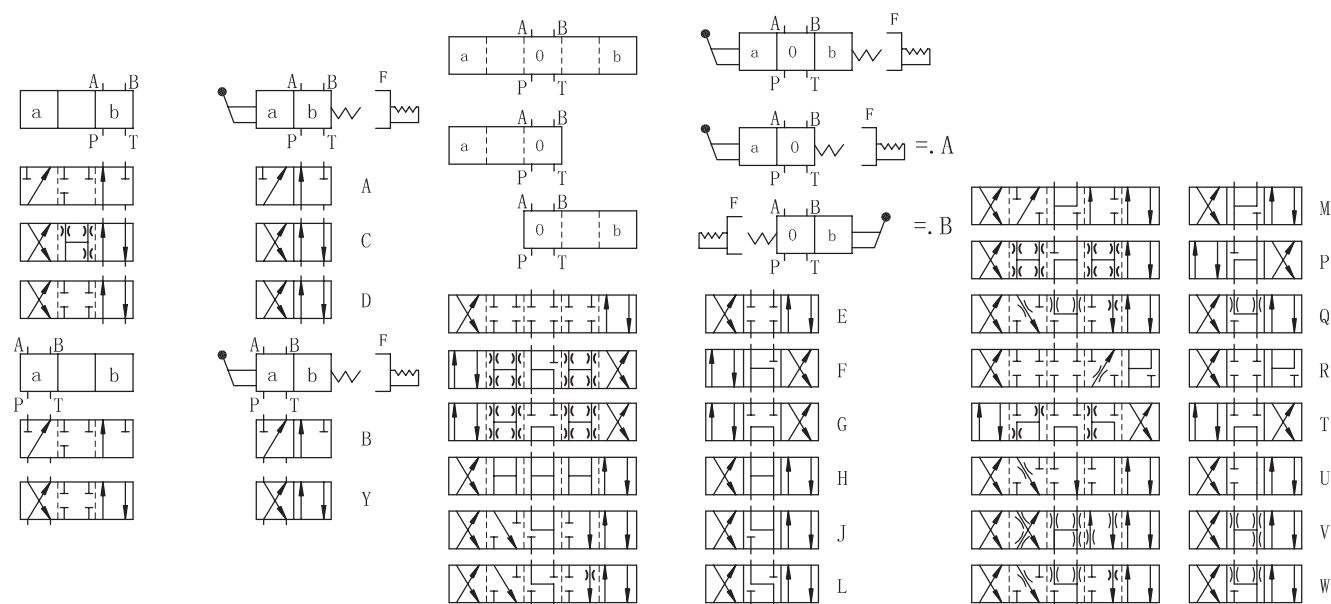
特性曲线 Characteristic curves 4DWMG32



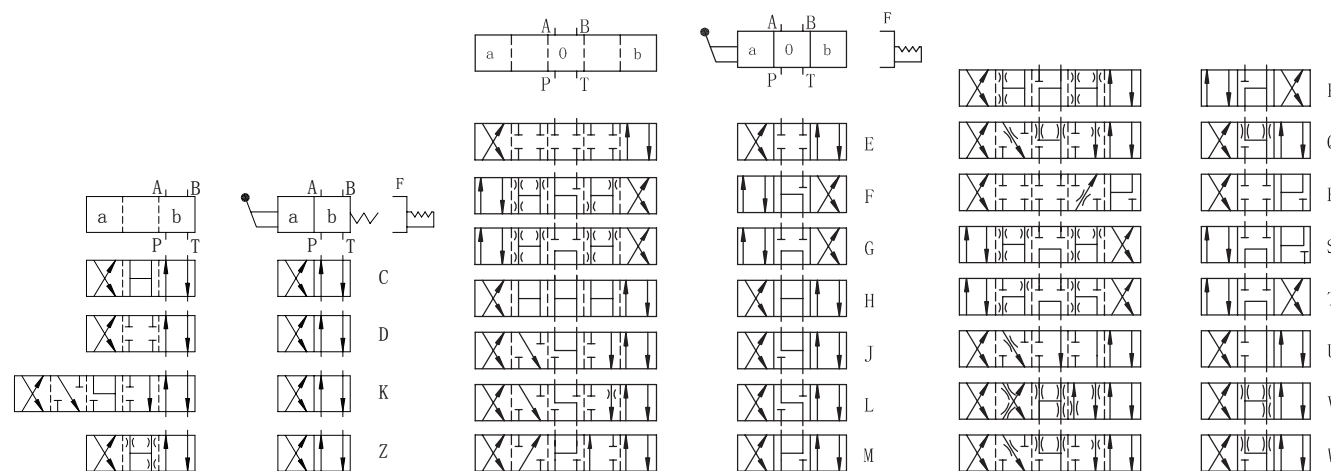
机能符号 Spool symbol	切换位置 Spool position					
	P-A	P-B	A-T	B-T	P-T	B-A
E	1	1	2	3	—	—
G	6	5	6	7	7	—
R	1	1	2	—	—	4
S	—	—	—	—	9	8
T	6	5	6	7	7	—
W	1	1	2	3	—	4

- 10 所有其它机能符号
All other spool symbols

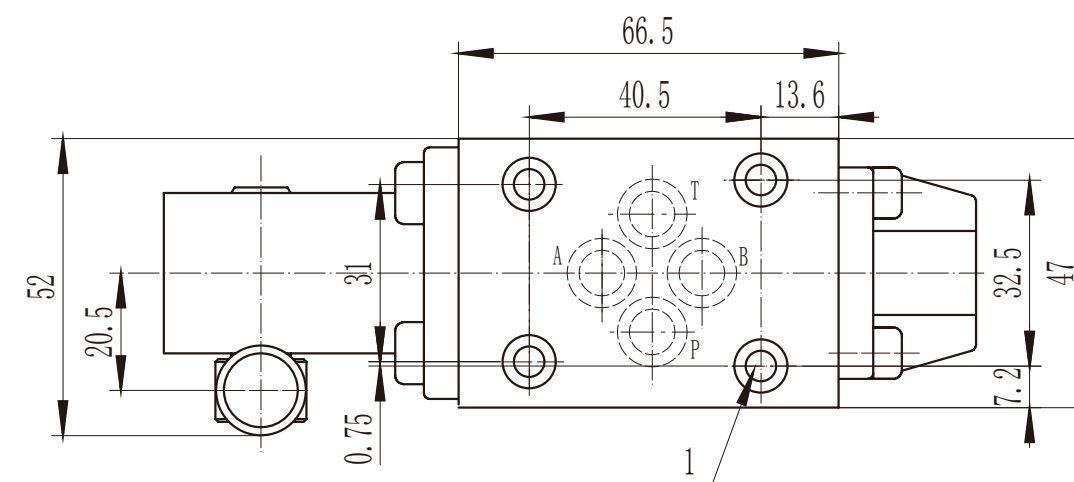
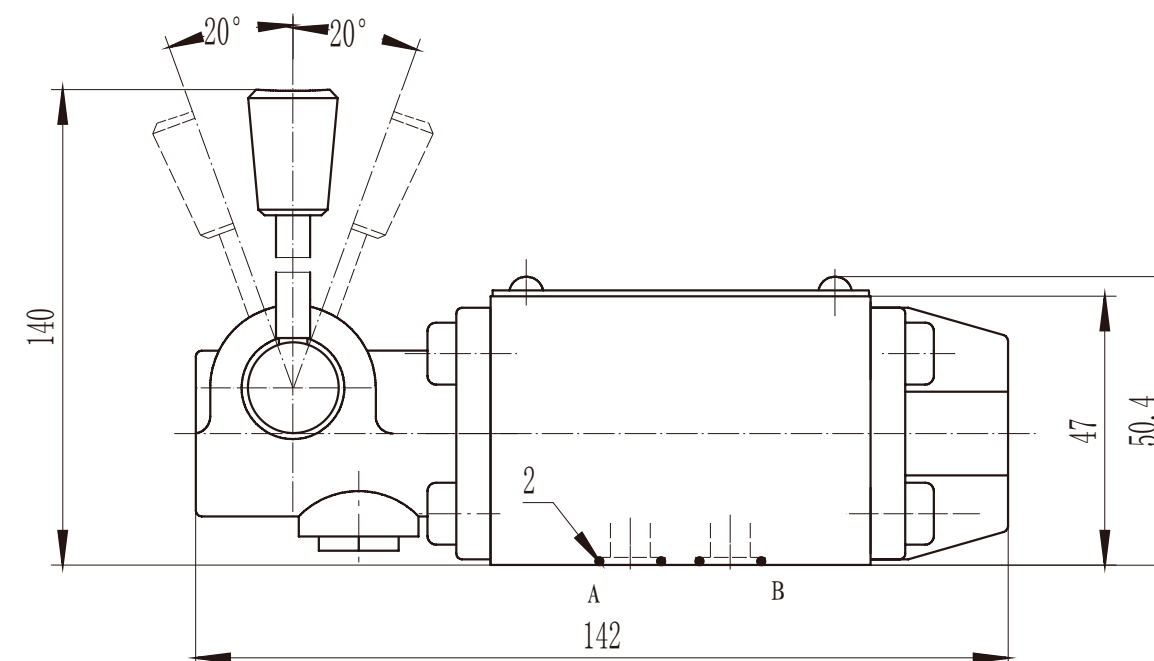
DWMG6/10 机能符号 DWMG6/10 Spool symbols



DWMG16/22/25/32 机能符号 DWMG16/22/25/32 Spool symbols



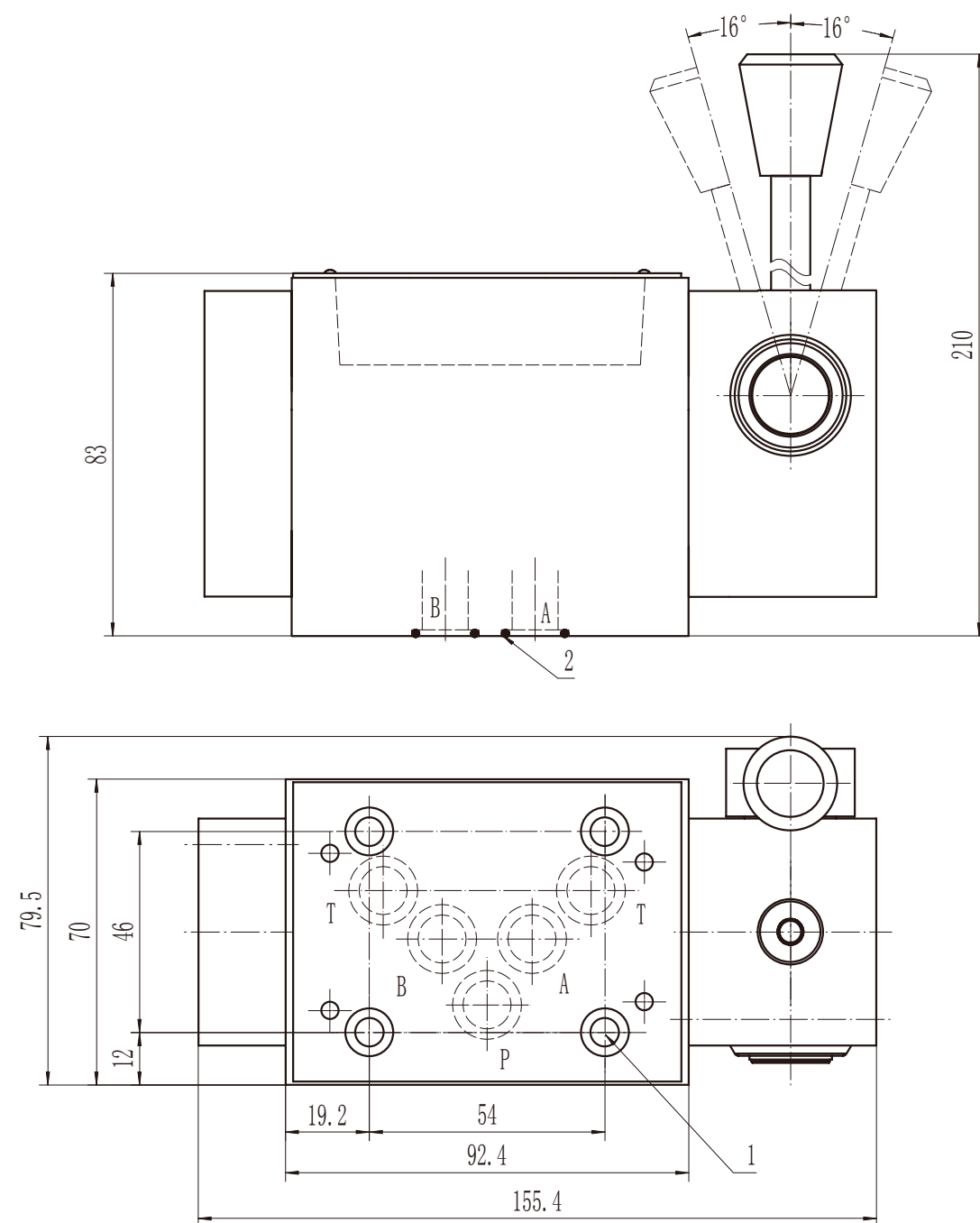
DWMG6 外型尺寸 DWMG6 Subplate Installation Dimensions



1、阀固定螺丝
4个M5X50 GB/T70.1-12.9级
拧紧扭矩Ma=9Nm
2、O型圈12.3X1.9

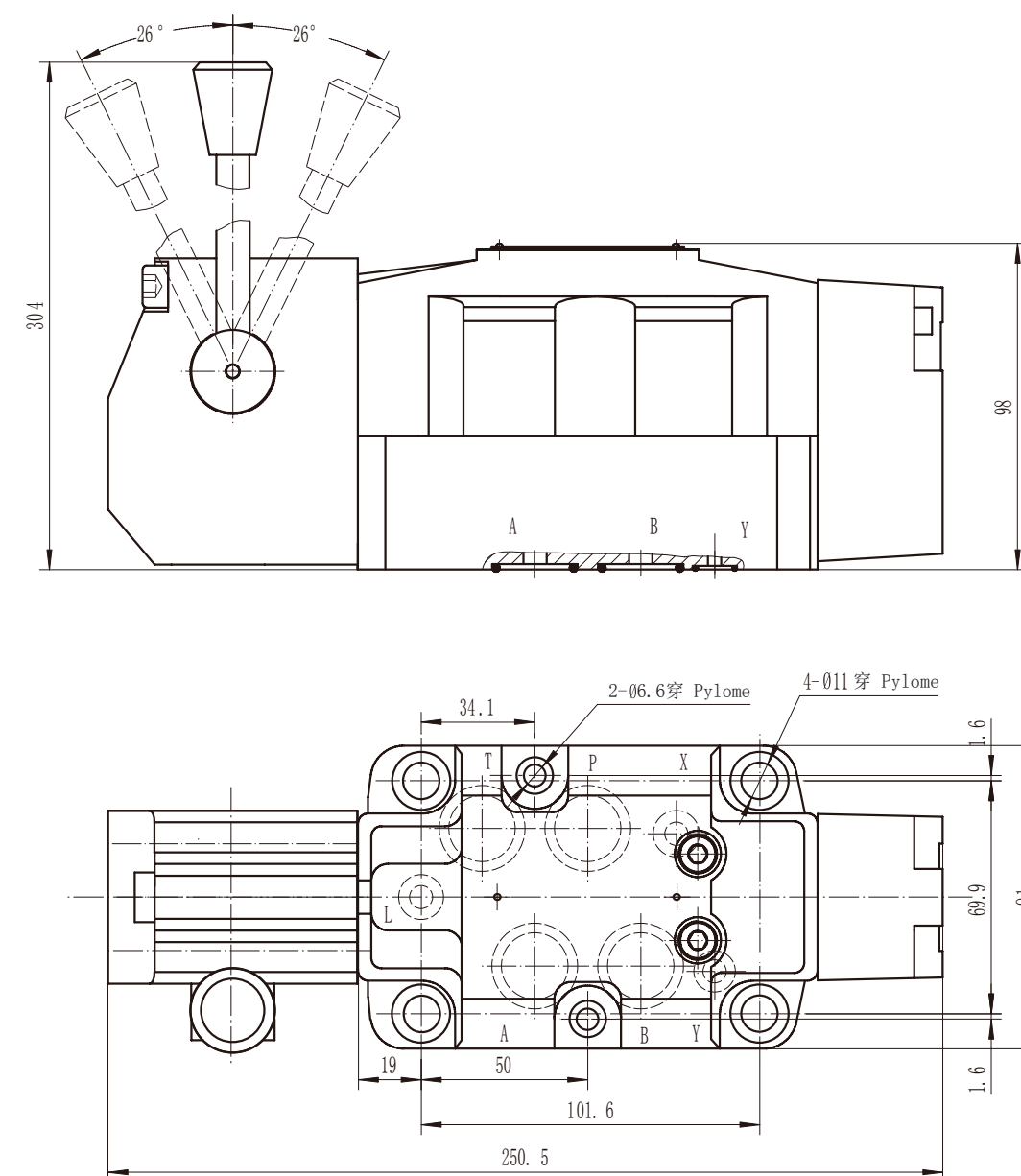
1.Valve's set screw
4 of M5 x 50 GB/T70.1-12.9
Tightening torque Ma=9Nm.
2.O-ring $\phi 12.3 \times 1.9$

DWMG10 外形尺寸 DWMG10 Subplate Installation Dimensions



- 1、阀固定螺钉
4个M6X50 GB/T70.1-12.9级
拧紧扭矩Ma=15.5Nm
- 2、O型圈：Φ16X1.9
- 1.Valve's set screw
4 of M6 × 50 GB/T70.1-12.9
Tightening torque Ma=15.5Nm.
- 2.O-ring φ 16 × 1.9

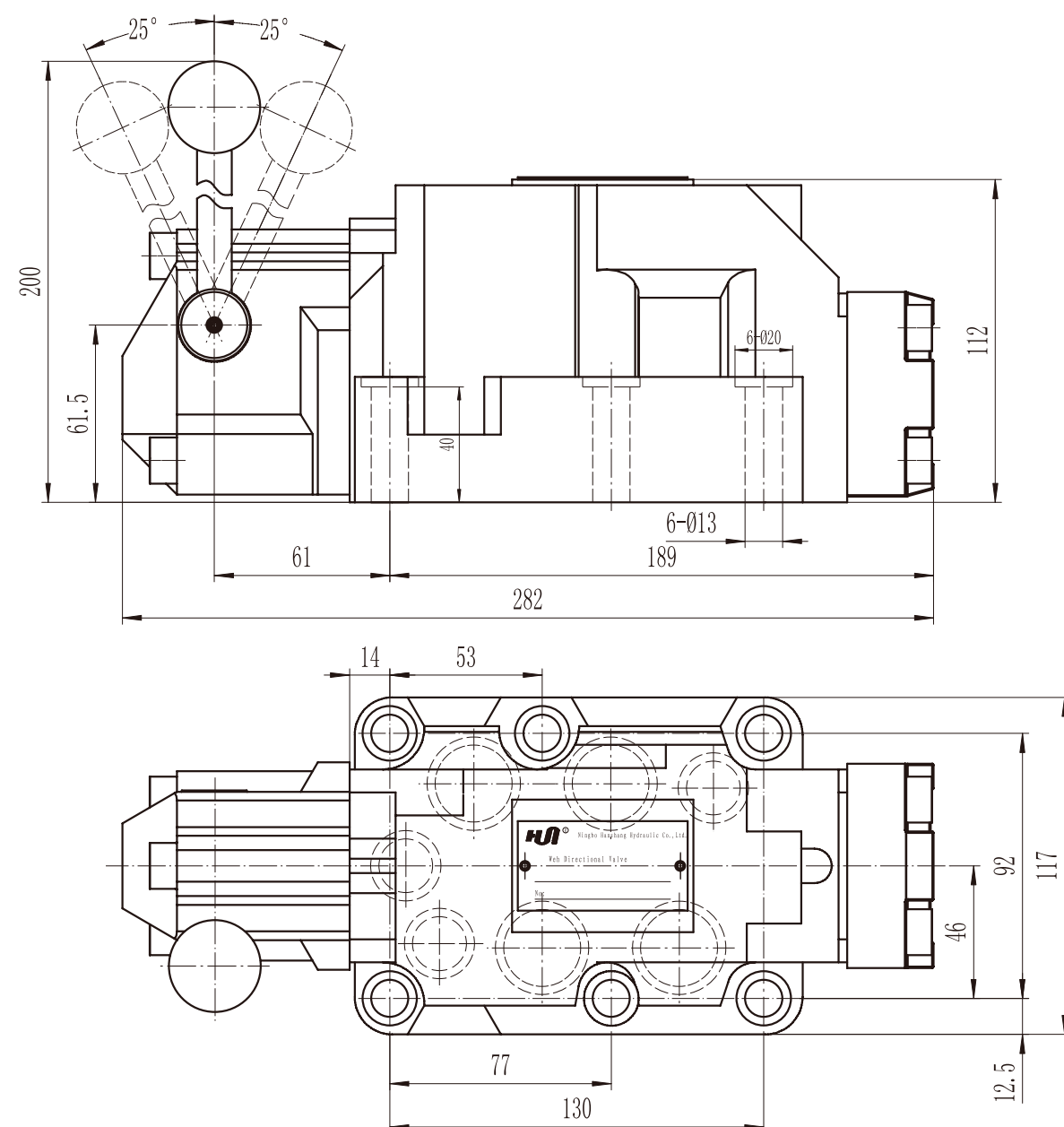
DWMG16 外形尺寸 DWMG16 Subplate Installation Dimensions



- 阀固定螺钉
4个M10X60GB/T 70.1-12.9级 拧紧扭矩Ma=75Nm
2个M6X60GB/T 70.1-12.9级 拧紧扭矩Ma=15.5Nm
P.T.A.B口O型圈：Φ26X2.4
X.Y.L口O型圈：Φ15X1.9

- 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: φ 26 × 2.4
O-ring for X.Y.L Port: φ 15 × 1.9

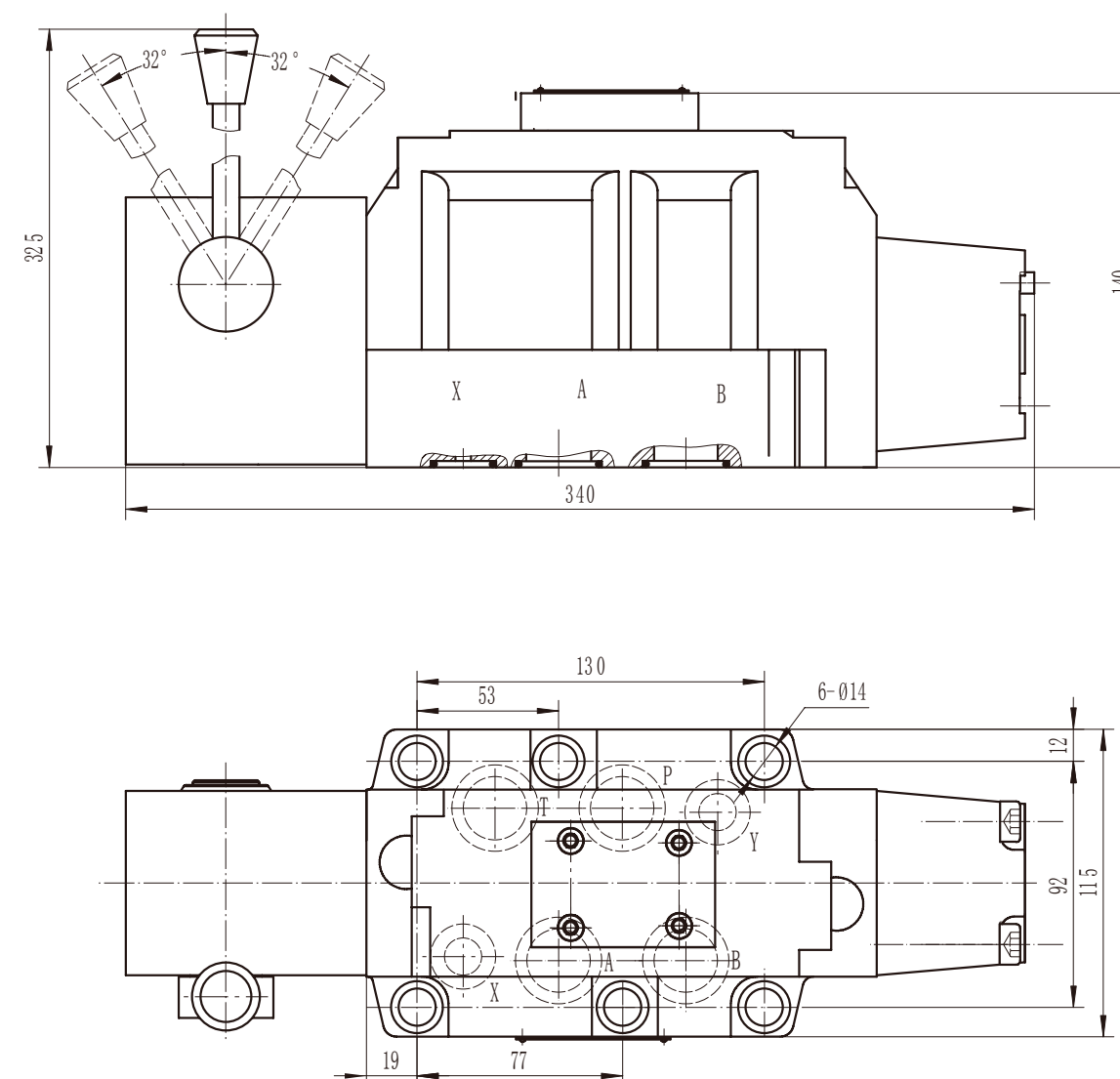
▶ DWMG22 外型尺寸 DWMG22 Subplate Installation Dimensions



阀固定螺钉
6个M12X60 GB/T 70.1-2000-12.9级 拧紧扭矩Ma=130Nm
P.T.A.B口O型圈: $\phi 31 \times 3.1$
X.Y口O型圈: $\phi 25 \times 3.1$

Valve's set screw
6 of M12 $\times$ 60 GB/T70.1-2000-12.9 Tightening torque Ma=130Nm.
O-ring for P.T.A.B Port: $\phi 31 \times 3.1$
O-ring for X.Y Port: $\phi 25 \times 3.1$

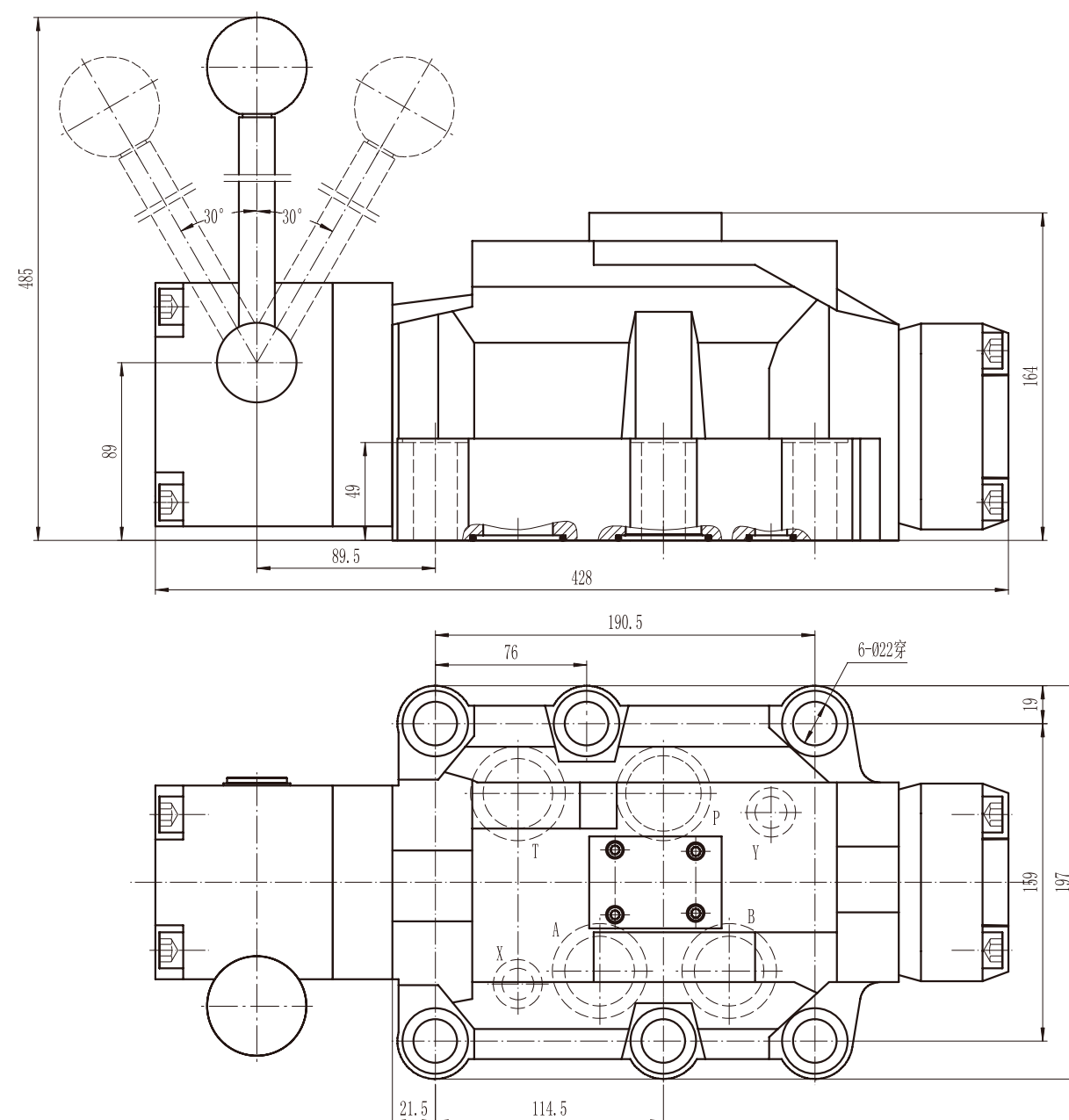
▶ DWMG25 外型尺寸 DWMG25 Subplate Installation Dimensions



阀固定螺钉
6个M12X60 GB/T 70.1-12.9级 拧紧扭矩Ma=130Nm
P.T.A.B口O型圈: $\phi 34 \times 3.1$
X.Y口O型圈: $\phi 25 \times 3.1$

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

DWMG32 外型尺寸 DWMG32 Subplate Installation Dimensions



阀固定螺钉
6个M20X80 GB/T 70.1-2000-12.9级 拧紧扭矩
Ma=430Nm
P.T.A.B口O型圈: $\Phi 42 \times 3$
X.Y口O型圈: $\Phi 18.5 \times 3.1$

Valve's set screw
6 of M20 $\times$ 80 GB/T70.1-2000-12.9 Tightening torque Ma=430Nm.
O-ring for P.T.A.B Port: $\Phi 42 \times 3$
O-ring for X.Y Port: $\Phi 18.5 \times 3.1$

4	DWMG	6	E	60	F	*	*
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3=三油口
4=四油口
3=3 Oil ports
4=4 Oil ports

型号
Model

通径: 6/10/16/22/25/32
Size: 6/10/16/22/25/32

机能符号
Spool type

附加说明
For further details

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

无=弹簧复位 F=带定位器
No code= Spring return
F=With detent

系列号
Series number

6通径=50;10通径=10;16通径=30
Size 6=50 Size10=10 Size16=30

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