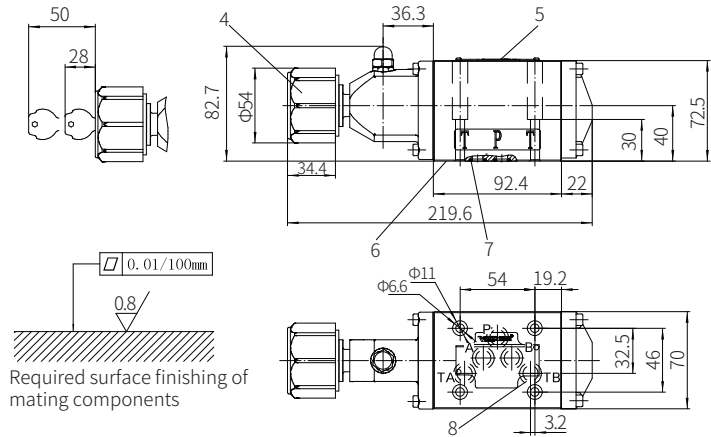


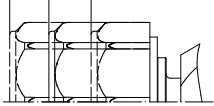
Component size

Size unit: mm

Model 4WMD10...3XJ/...



b	a	Symbol	Turn direction
b	o	4WMDxB... -6X/...	(o→b turn 90° counterclockwise)
o	a	4WMDxA... -6X/...	(o→a turn 90° clockwise)
b	o	a	All three-position valves (turn 90° clockwise or counterclockwise)



1 Switch position b→a, o→a

2 Switch position a→b, a→o, b→o

3 Switch position o→b

4 Three-position valve (including symbols *A and *B): turn 90° clockwise or counterclockwise.

Two-position valve (symbols A, C, D): turn 90° clockwise

5 Name plate

6 Mounting surface

7 O-ring: 12x2 (for oil ports A, B, P, T)

8 Additional return port when using control block

9 Observe the spool position by the colored disc in front of the rotary knob

It must be ordered separately if connection subplate is needed.

Subplate model:

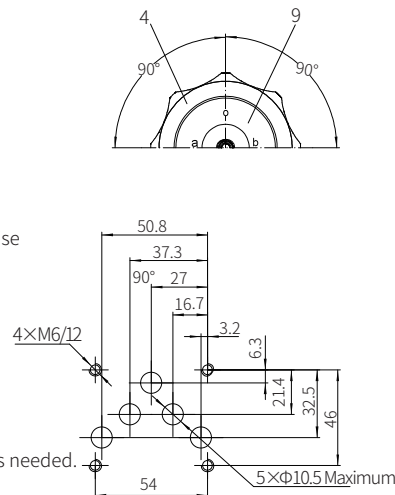
G66/01 (G3/8"); G66/02 (M18x1.5)

G67/01 (G1/2"); G67/02 (M22x1.5)

G534/01 (G3/4"); G534/02 (M27x2)

Valve fixing screw

M6x45-10.9 grade GB/T70.1-2000

Tightening torque $M_A=13.7\text{Nm}$ 

Roller Directional Valve

Model: WMU/R6/10...



◆ Size 6/10

◆ Maximum working pressure 315 bar

◆ Maximum working flow 120 L/min

Contents

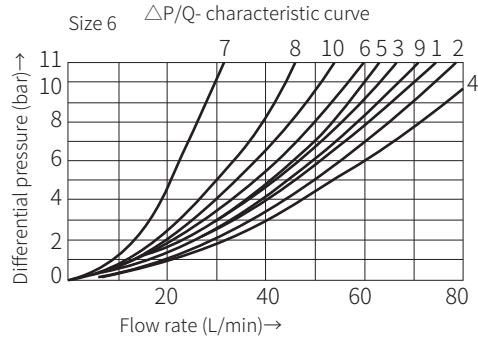
Functional description,sectional drawing	02
Models and specifications	02
Technical Parameters	03
Functional symbols	03
Characteristic curve	04
Characteristic limit	05
Component size	06-07

Features

- Right-angle directional valve operated by roller
- The roller can rotate 90°
- Interpol conversion or deviation from the scanning direction by the curve control surface directly
- Radial direction (to 30° angle) is completely absorbed

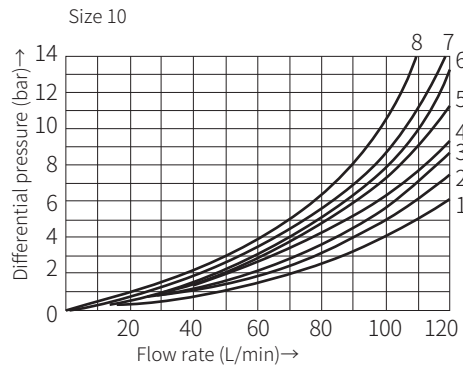
Characteristic curve

(Measured when using HLP46, $\vartheta_{oil}=40^{\circ}\text{C} \pm 5^{\circ}\text{C}$)



Function symbol	Flow direction			
	P to A	P to B	A to T	B to T
AB	3	3	-	-
C	1	1	3	1
DY	5	5	3	3
E	3	3	1	1
F	1	3	1	1
T	10	10	9	9
H	2	4	2	2
JQ	1	1	2	1
L	3	3	4	9
M	2	4	3	3
P	3	1	1	1
R	5	5	4	-
V	1	2	1	1
W	1	1	2	2
U	3	3	9	4
G	6	6	9	9

- 7 Symbol "R" in switching position B→A
- 8 Symbols "G" and "T" in the middle position P→T
- 9 Symbol "H" in the middle position P→T



Function symbol	Flow direction			
	P to A	P to B	A to T	B to T
A	4	3	-	-
B	3	4	-	-
C	3	3	4	4
D	3	3	5	5
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
Y	4	4	6	6

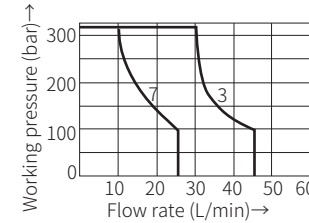
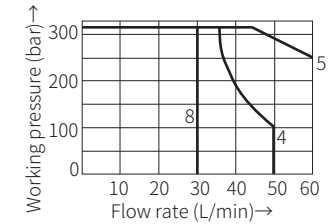
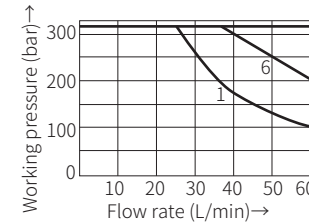
- 7 Symbol "R" in switching position B→A
- 8 Symbols "G" and "T" in the middle position P→T

Characteristic limit

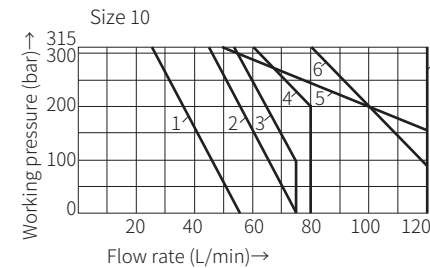
(Measured when using HLP46, $\vartheta_{oil}=40^{\circ}\text{C} \pm 5^{\circ}\text{C}$)

Due to blockage, the switching function of the valve is related to filtration. In order to obtain the maximum flow rate shown, 20u full flow filtration is recommended. Various forces acting on the valve also affect the flow characteristics. For four-way valves, the flow data shown are obtained under normal use of two flow directions (i.e., from P to A, while return from B to T) (see table).

If only one direction of flow is required, for example, block A or B of the four-way valve and use it as a three-way valve, its maximum flow rate will be greatly reduced in severe cases.



Characteristic curve	Function symbol
1	A, B
2	E, M, H, C, D, Y, Q, U, W
3	F, P
4	G
5	J, L
6	R
7	T
8	V



Characteristic curve	Function symbol
1	A, B
2	A/O
3	H
4	F, G, P, R, T
5	J, L, Q, U, W
6	C, D, E, M, V, Y
7	C/O, C/OF, D/O, D/OF

