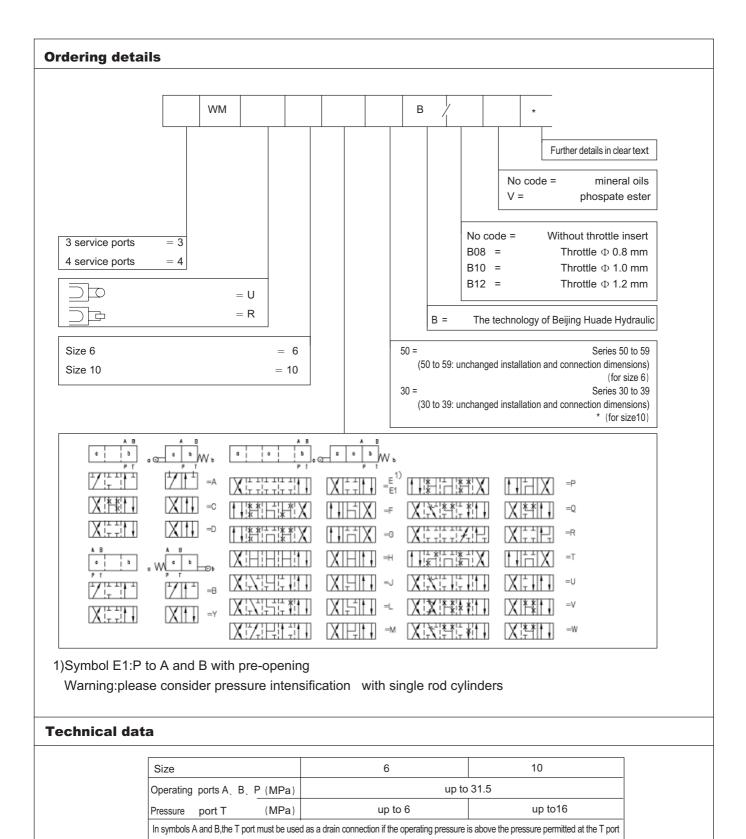
HYDRAULIC INDUSTRIAL	Directional control valves mechanical operation Type 4WMU/R			RE 22275/12.2004
GROUP CO.,LTD.	Size 6 、10	up to 31.5 MPa	up to 120L/min	Replaces: RE 22275/05.2001
Features: - Direct operated direction - Roller lever assembly ma - Radial forces absorb relia - 19 kinds standard spool	ay be stepped in 90 ably (up to 30°)		ition	
Funtion, section Directional valves type WM They basically consist of th spring (4). A plug-in throttle is required being from one position to	he housing (1), the	e roller lever(2), the	may occur while the va	lve spool is
		1		
2 C Type 4WMR6		1 A T(P) B		



Max.flow

Flow cross section

(control position 0) Pressure fluid

Viscosity range

Weight

Pressure fluid temperature range (° C)

Operating force at roller lever

(L/min)

(mm²/s)

(kg)

(N)

at zero tank pressure

at a pressure

up to 60

approx.1.4

100 to 121

184 to 205

up to120

approx.3.3

70 to140

70 to175

two positions valve

three positions valve

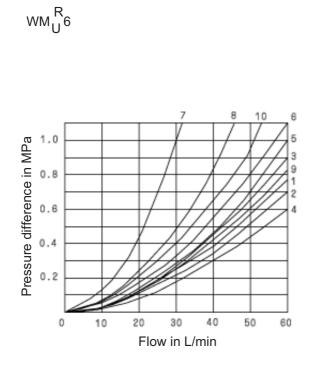
for symbol Q, 6% of nominal cross section for symbol W, 3% of nominal cross section

mineral oils or phospate ester

- 30 to + 80

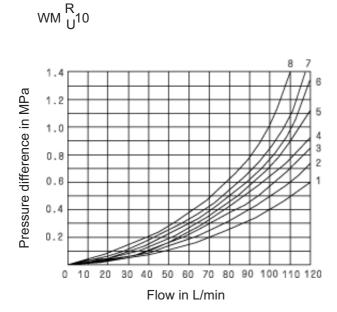
2.8 to 500

Characteristic curves (measured at $v = 41 \text{ mm}^2$ /s and t = 50 °C)



Symbols	Direction of flow			
	$P\toA$	$P\toB$	A → T	$B\toT$
А	3	3	-	-
В	3	3	-	-
С	1	1	3	1
D	5	5	3	3
Е	3	3	1	1
F	1	3	1	1
G	6	6	9	9
Н	2	4	2	2
J	1	1	2	1
L	3	3	4	9
М	2	4	3	3
Р	3	1	1	1
Q	1	1	2	1
R	5	5	4	-
Т	10	10	9	9
U	3	3	9	4
V	1	2	1	1
W	1	1	2	2
Y	5	5	2	3

- 7 Symbol "R" with position A-B
- $8_{\ }$ Symbols "G" and "T" with mid position P-T



Symbols	Direction of flow			
	$P\toA$	$P\toB$	$A \rightarrow T$	$B\toT$
А	4	3	-	-
В	3	4	-	-
С	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
Н	1	1	5	5
J	2	2	3	3
L	3	3	2	4
М	1	1	4	4
Р	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

7、Symbol "R" with position A-B

8、Symbols "G" and "T" with mid position P-T

HUADE HYDRAULICS

Performance limits (measured at v=41mm² /s and t=50 °C)

The operation of the valve is dependent upon the effect of filtration .In order to achieve the given permissible flow rates,full flow filtration 20µm is required. The flow forces operating within the valve influence the valve performance .For 4 way valves, the flows given are valid for normal operation with 2 directions of flow (e.g.from P to A and from B to T) If only one flow path is operative e.g.if port A or B is blocked and the valve is used as a 3 way valve , the permissible flows can be very much lower.

