BEIJING HUADE HYDRAULIC INDUSTRIAL GROUP CO.,LTD.	Directional control valves, manual operation, Type WMD			RE 23500/12.2004
	Size 6 to 10	up to 31.5 MPa	up to 120L/min	Replaces: RE 22279/05.2001

Features:

- Direct controlled directional spool valve
- subplate mounting
- Porting pattern to Din 24 340 form A, ISO 4401 and CETOP-RP 121H



Functional, section

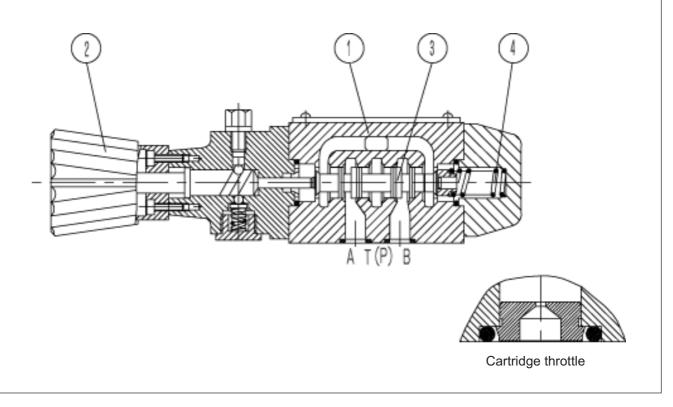
Directional valves type WMD are manual operated directional spool valves. They control the start, stop and direction of a volume flow.

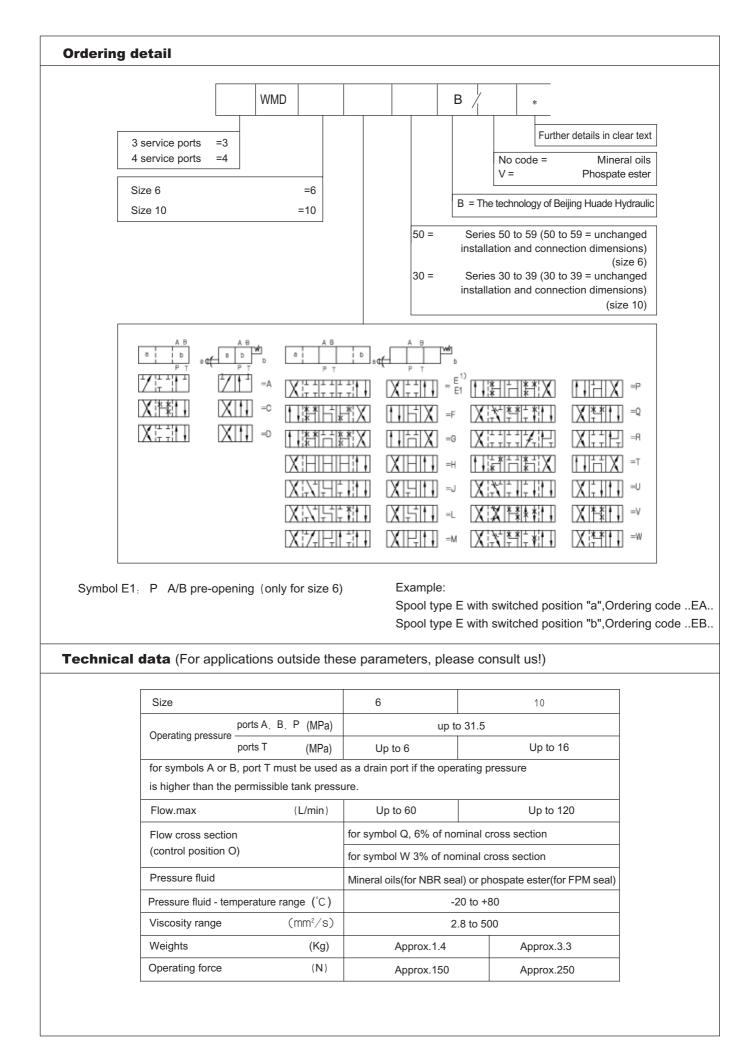
The valves consist basically of the housing (1), an operating rotary knob(2), the control spool (3), and one return springs (4). In an unoperated condition, the control spool (3) is held in the neutral or starting position by the return springs (4) - or by a detent .The control spool (3) is pushed into the required control position by means of the operating element.

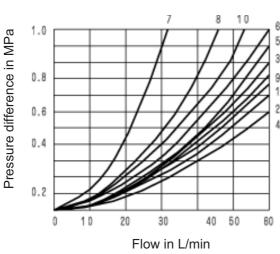
Detent

Directional valves with rotary knob operation are supplied with detent as standard. it is possible to fix any control position. **Cartridge throttle**

Use of the cartridge throttle is necessary when operating conditions are such, that during the switching process larger flows can occur than the performance limits of the valve allow. It is fitted in the P-line of the directional valve or in the control circuit.







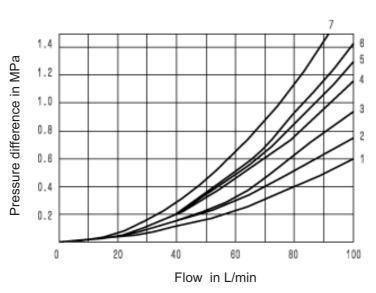
Pressure difference flow curves, type WMD6

7.Symbol "R" in switched positions A-B 8.Symbol "G" and "T" in neutral position P-T

Symbol	Flow direction			
	P→A	$P \to B$	$A \to T$	$B\toT$
А	3	3	-	-
С	1	1	3	1
D	5	5	3	3
E	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

Pressure difference flow curves , type WMD10

4.Symbol "G" and "T" in neutral position P-T 7.Symbol "R" in switched positions A-B



Symbol .	Flow direction			
	$P\toA$	P→B	$A \rightarrow T$	$B \rightarrow T$
А	2	2	-	-
С	2	2	3	3
D	2	2	3	3
E	2	2	4	4
F	2	3	3	5
G	3	3	4	6
Н	1	1	4	5
J	2	2	3	3
L	2	2	3	5
М	1	1	5	5
Р	3	2	5	3
Q	2	2	4	4
R	2	4	3	-
Т	3	5	5	6
U	2	2	3	5
V	2	2	4	4
W	2	2	5	5

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

The performance limits shown apply when the valve is subject to simultaneous flow in two directions (e.g. from P to A and from B to T).

performance limits for one path(e.g. from P to A and with B blocked) may be considerably reduced! (Pleade consult us in such cases.)

Due to the flow forces occuring within the valve, the permissible

Type WMD6

Curve	Symbol		
	Cynhool		
1	E, E1, H, C, D, M,		
	Q, U, W		
2	J、L		
3	A		
4	G P		
5	F		
6	V		
7	R		
8	Т		

