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DR-L5X Series Pilot Operated Reducing Valves



CONTENT

1. Used as sub-plate mounting
2. Mounting surface according to DIN24320E D type and ISO 5781
3. Used as thread connection and oil block mounting
4. Five types of pressure range
5. Four adjustment types: Knob; Adjusting-bolt with protection cover; Lockable knob with scale; Knob with scale
6. Can select check valve(only suitable for sub-plate mounting)

ORDERING DETAILS

DR _ _ _ _ **L5X** _ **Y** _ _ _

Pilot operated valves
No code = Pilot operated sequencing valve
C = Pilot valve without plug-in(no size marking)
C = Pilot valve with plug-in (marking size 30)

Size
Sub-plate mounting
10 = NG10
20 = NG20
32 = NG32

Thread mounting
10 = NG10
15 = NG15
20 = NG20
25 = NG25
32 = NG32

Mounting type
Omid = Sub-plate mounting
G = Thread mounting

Regulating element
4 = With knob
5 = Adjustment bolt with protection cover
6 = Locking-knob with scale
7 = Knob with scale

Serial number
30 = 30 series
L50 = L50 series
L50 is anewseries which can replace 30 series

Hydraulic seals
No code = NBR seal
V = FKM seal

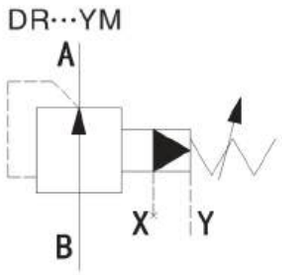
Only suit to chamber X1/Y1 of thread connection and sub-plate connection
No code = With check valve
M = Without check valve

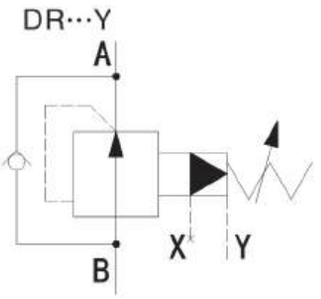
Check valve
No code = With check valve
M = Without check valve

Supply and drain controlling
No code = Internal supply internal drain
X = External supply internal drain
Y = Internal supply external drain
XY = External supply external drain

Max. pressure
5 = Pressure can reach to 50 bar
10 = Pressure can reach to 100 bar
20 = Pressure can reach to 200 bar
31.5 = Pressure can reach to 315 bar
35 = Pressure can reach to 350 bar
(350 bar only suit to the structure with no check)

SYMBOLE





TECHNICAL DATA

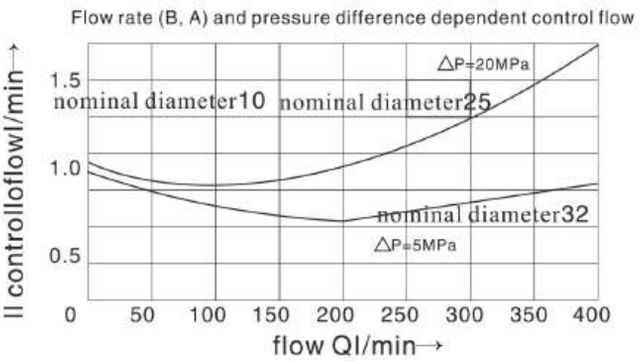
Hydraulic Data

Operating medium				Mineral oil-suit to NBR or FKM seals				
				Phosphate-suit to FKM seals				
Temperature range of working medium			°C	-30~+80(NBR seals)				
				-20~+80(FKM seals)				
Viscosity scope			mm²/s	10~800				
The oil cleanliness				The maximum oil pollution level according to NAS1638 class 9 and ISO4406 20, 18, class 15				
Maximum operating pressure chamber B			MPa	35				
Operating pressure scope chamber A			MPa	1~35				
Maximum back pressure chamber Y			MPa	35 (only suit to no check valve structure), 31.5 with check valve)				
Back pressure setting the maximum			MPa	5; 10; 20; 31.5; 35				
The minimum			MPa	Associated with the flow (see the performance curve)				
Size				DR10	DR15	DR20	DR25	DR30
The maximum flow		The maximum flow	L/min	150	-	300	-	400
		Chamber A.B.X	L/min	150	300	300	400	400
Mounting site				Optional				
Size				DR10	DR15	DR20	DR25	DR30
Weight	Sub-plate mounting	DR	kg	3.6	-	5.5	-	8.2
		DR...G	kg	5.3	5.5	5.1	5.1	5.0
	Thread connection	DRC	kg	1.2				
		DRC30	kg	1.5				

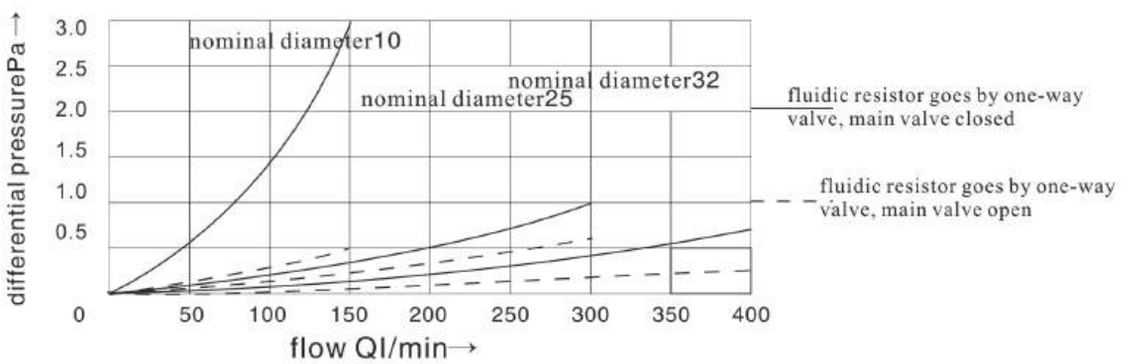
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CHARACTERISTIC CURVE

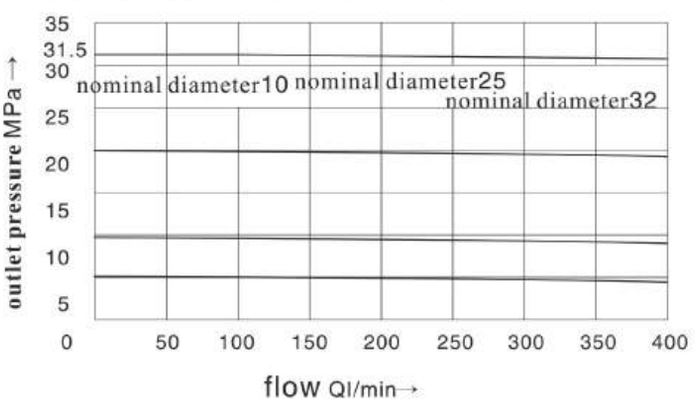
（curve was measured when using mineral oil HLP46, t=40℃）



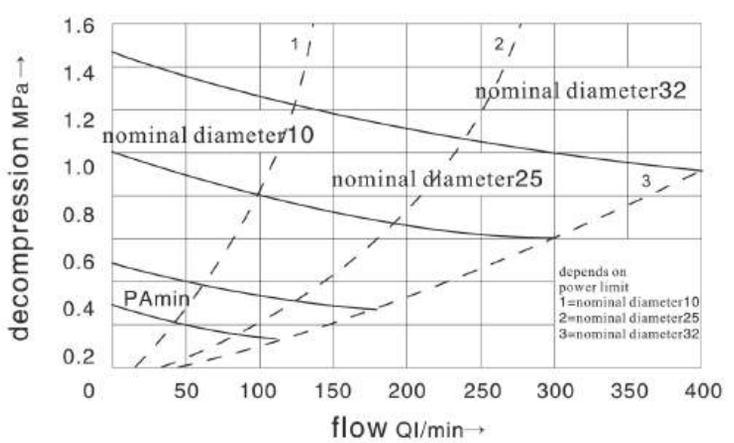
Characteristics curve（A→B）（minimum setting differential pressure）



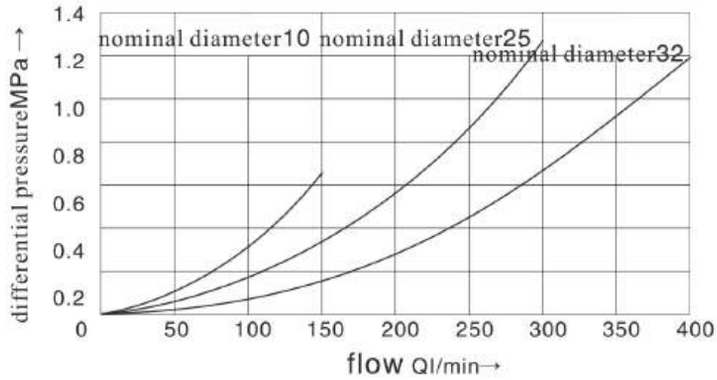
relationship between outlet pressure A and flow（B→A）



relationship between minimum setting pressure PA and flow（B→A）

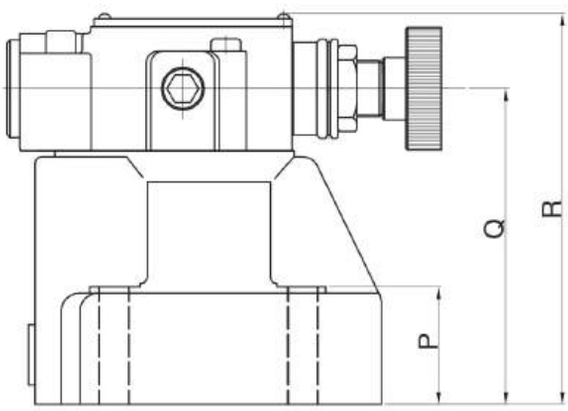


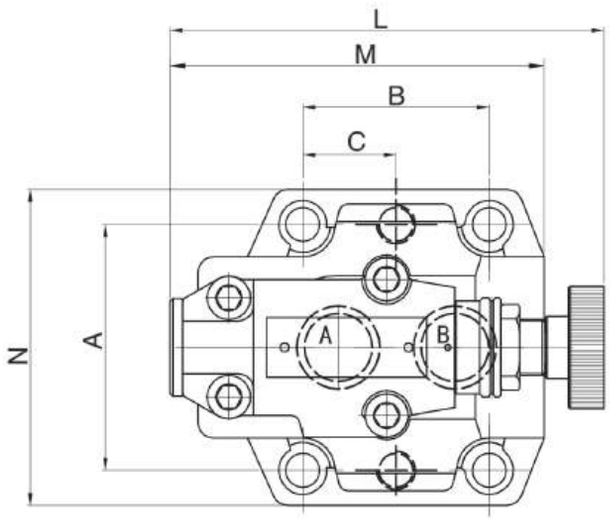
△P–QCharacteristics curve（A→B） （minimum setting differential pressure）



UNIT DIMENSIONS

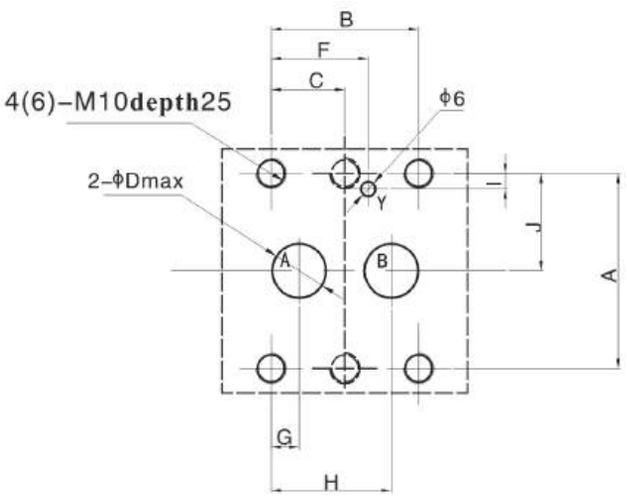
DR-50







the surface of mating parts
request precision process



type	A	B	C	D	F	G	H	I	J	L	M	N	P	Q	R
Dr10	66.7	42.9	–	13	21.5	7.2	38.8	7.9	33.3	123	99	85	28	92	115
Dr20	79.4	60.3	–	22	39.7	11.1	49.2	6.4	39.7	123	119	102	38	102	125
Dr30	96.8	84.2	42.1	30	59.5	16.7	67.5	3.8	48.	147.5	148	120	46	110	133