



**Directional Control Valve
With hand Lever Operation**

ENGINEERING 1/4

Y02501/09.03

Size 06

315 bar

60 lpm

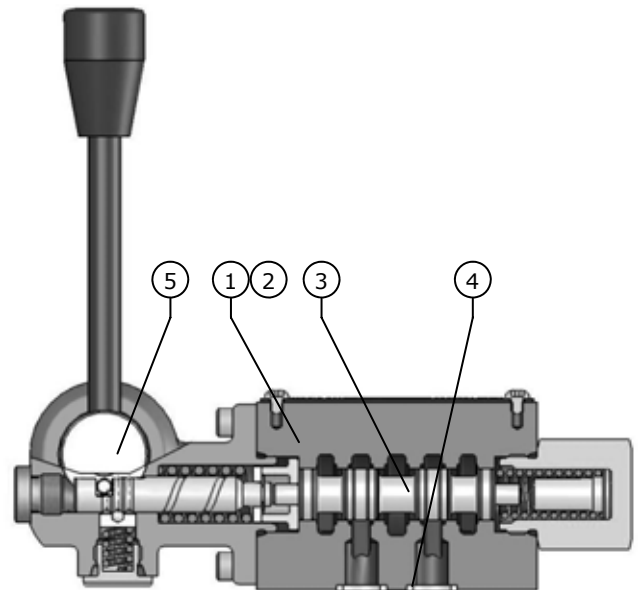
Description

4-port, spool type, directional control valves with hand lever actuation and wide variety of spool types with spring-centered, spring-offset and detent arrangements.



Features

1. Five chamber body and spool design to facilitate high flow.
2. Conforms to ISO4401-03, NFPA T3.5.1 and ANSI B93-7 D03 interface.
3. Available in 52 standard, interchangeable spool configurations.
4. New fully encapsulated hand-lever mechanism for protection against ingress of dirt. High flexibility in mounting and operation
 - The operating head can be Rotated 4 x 90° around the spool axis
 - The operator head can be relocated towards port b of the valve.
 - Hand Lever can be rotated so that it is parallel to the axis at neutral condition.
5. Special R-rings for high extrusion resistance. Increased stability under high dynamic condition.



Technical data

General

Weight kg 1.5

Hydraulic

Nominal Pressure
Ports P, A and B bar 350
Port T bar 160

Maximum Flow lpm 60

Flow Area

Spool Q, A/B → T, position "0"	6%
Spool R, B → P, position "b"	50%
Spool V, A/B → T, position "0"	12%
P → A/B, position "0"	10%
Spool W, A/B → T, position "0"	3%

Hydraulic Fluid Mineral Oil

Fluid Temperature
NBR °C -30 to 80°C
FKM °C -20 to 80°C

Maximum degree of fluid contamination Class 20/18/15 according to ISO 4406
Filter β₁₀ ≥ 75

Actuating Force

Of Spring Centered assembly	N	20max.
Of Detent Assembly	N	30max.



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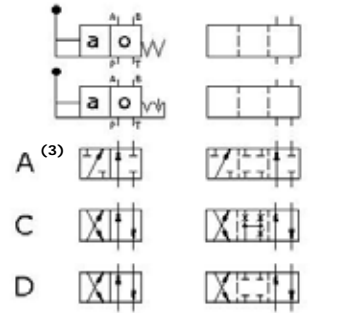
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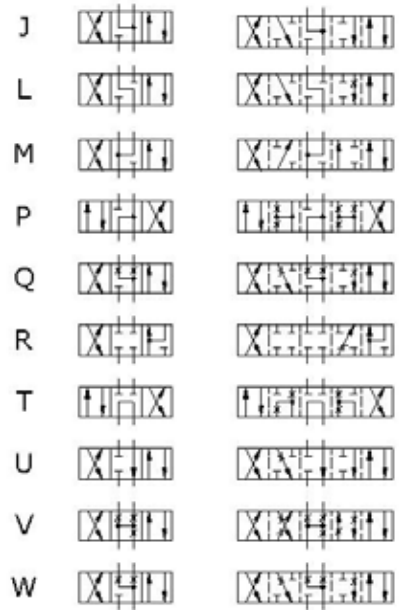
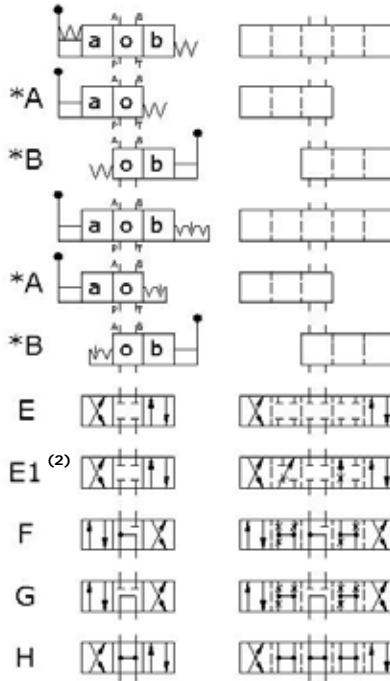
60 lpm

Spool Types

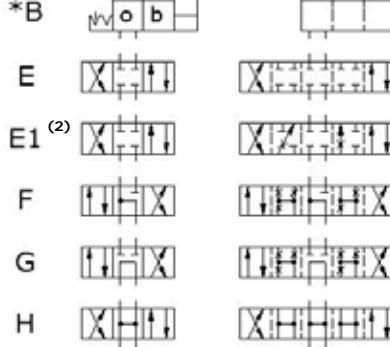
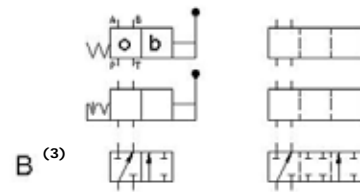
4/2 Way Valve with "o" and "a" positions



4/3 Way and 4/2⁽¹⁾ Way Valve



4/2 Way Valve with "o" and "b" positions



Note:

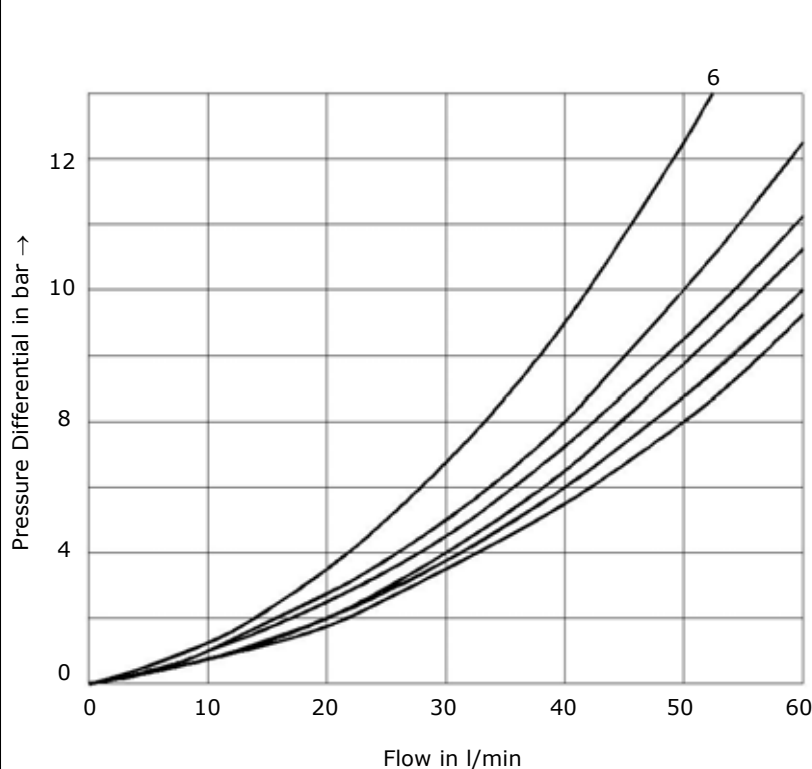
⁽¹⁾ When ordering a spool with only two positions "o" and "a" or "o" and "b", specify the desired position "A" or "B" in model code.

⁽²⁾ Please check the possibility of cylinder intensification

⁽³⁾ For spool type A and B. Port T must be used as drain line

Example: E Spool with "o" and "a" position—4DE10EA220A-01

Characteristic Curves



Spool Type	Direction of Flow				
	P→A	P→B	A→T	B→T	P→T
A	3	3	-	-	-
B	3	3	-	-	-
C	3	3	4	1	-
D	3	3	4	1	-
E	2	2	4	4	-
F	2	2	2	2	-
G	6	6	6	6	5
H	2	2	1	1	3
J	2	2	1	1	-
L	2	2	1	4	-
M	2	2	4	4	-
P	2	2	2	2	-

Pressure differential measured with ISO VG46 oil at 40°C ±10°C



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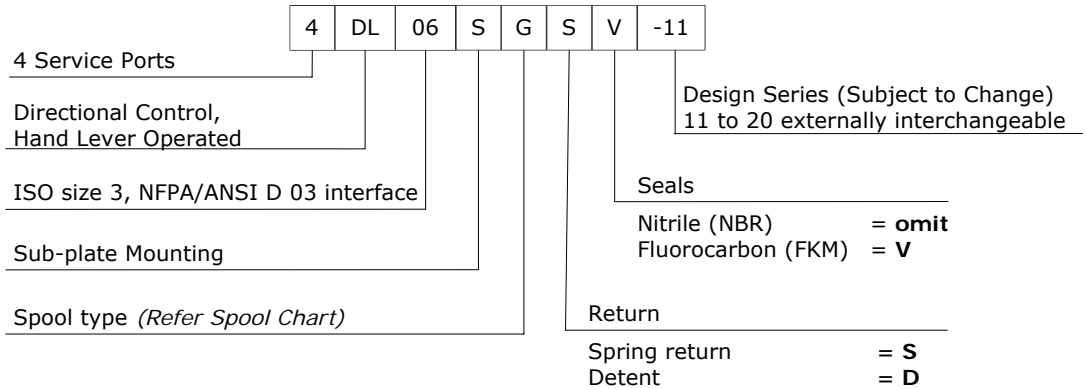
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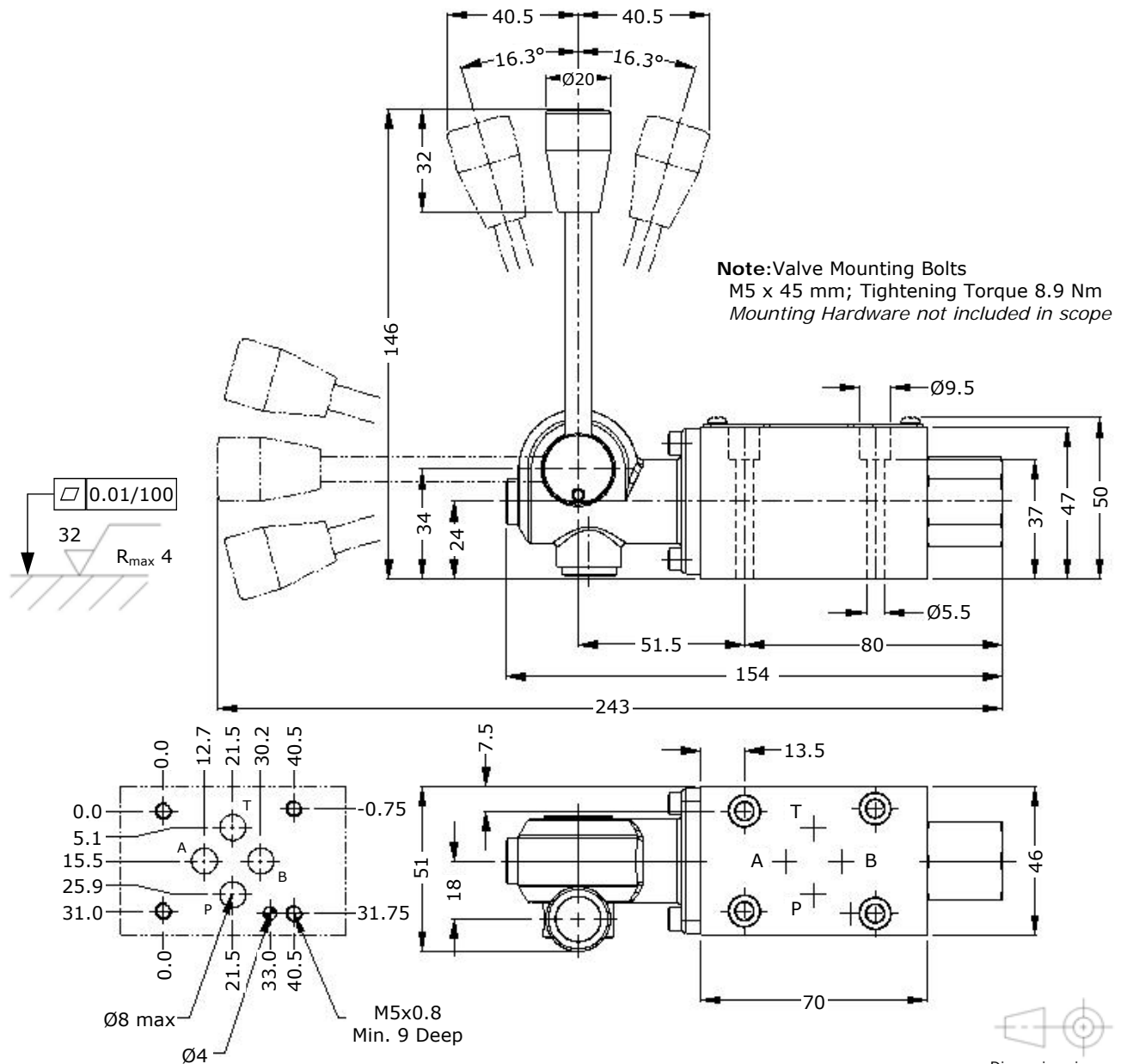
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Ordering Code



Installation





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4/4

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Notes

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