41 605/122 ED



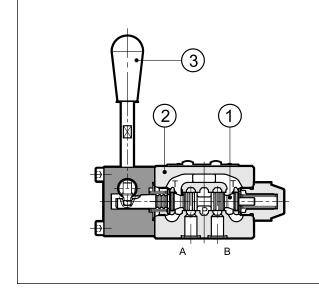


DSH3L LEVER OPERATED DIRECTIONAL CONTROL VALVE SERIES 10

MOUNTING SURFACE ISO 4401-03

p max (see performances table)Q nom 60 l/min

OPERATING PRINCIPLE



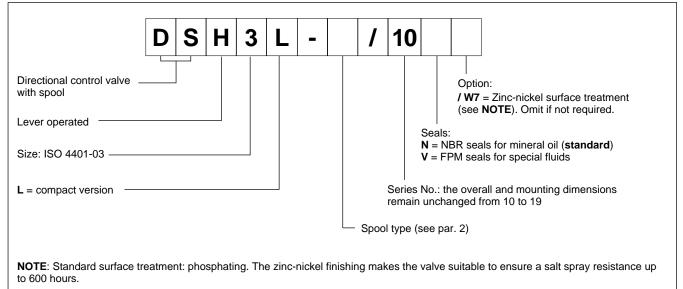
- DSH3L are lever (3) operated directional control valves, available with the more common types of spools (1).
- The valve body (2) is made with high strength iron castings provided with wide internal passages in order to minimize the flow pressure drop.
- They are available with 2 or 3 positions with return spring or mechanical retention.
- Upon request we can supply these valves with zinc-nickel surface treatment.

PERFORMANCES (with mineral oil of viscosity of 36 cSt at 50°C)

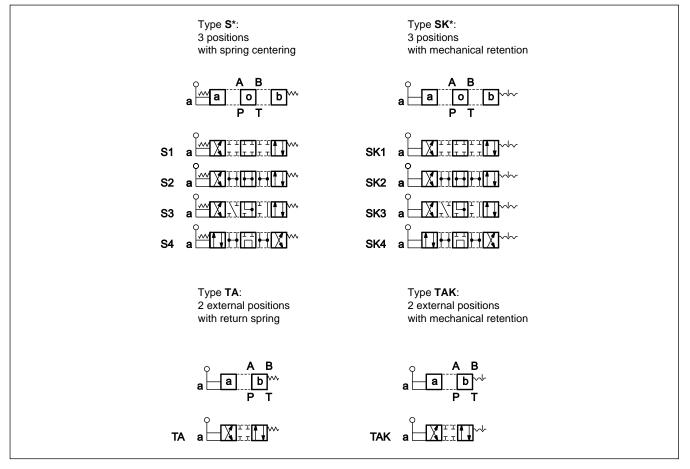
Maximum working pressure: - P - A - B ports - T port	bar	350 210
Nominal flow rate	l/min	60
Ambient temperature range	°C	-20 / +60
Fluid temperature range	°C	-20 / +80
Fluid viscosity range	cSt	10 ÷ 400
Fluid contamination degree		according to ISO 4406:1999 class 20/18/15
Recommended viscosity	cSt	25
Mass	kg	1.4



1 - IDENTIFICATION CODE



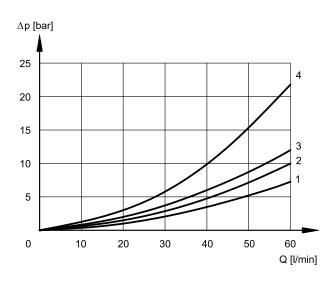
2 - SPOOL TYPE



3 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals (code N). For fluids HFDR type (phosphate esters) use FPM seals (code V). For the use of other fluid types such as HFA, HFB, HFC, please consult our technical department. Using fluids at temperatures higher than 80 °C causes a faster degradation of the fluid and of the seals characteristics. The fluid must be preserved in its physical and chemical characteristics.

4 - PRESSURE DROPS △p-Q (values obtained with viscosity 36 cSt at 50 °C)



VALVE IN ACTUATED POSITION

	FLOW DIRECTION			
SPOOL TYPE	P→A	P→B	A→T	B→T
	CURVES ON GRAPH			
S1, SK1	2	2	3	3
S2, SK2	1	1	3	3
S3, SK3	3	3	1	1
S4, SK4	4	4	4	4
TA, TAK	3	3	3	3

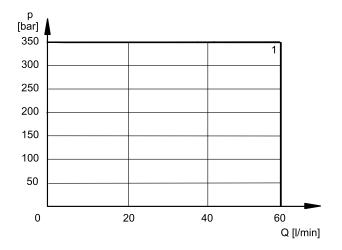
VALVE IN NORMAL POSITION

	FLOW DIRECTION				
SPOOL TYPE	P→A	P→B	A→T	B→T	P→T
	CURVES ON GRAPH				
S2, SK2					2
S3, SK3			3	3	
S4, SK4					3

5 - OPERATING LIMITS

The curves define the flow rate operating fields according to the valve pressure of the different versions.

The values have been obtained according to ISO 6403 norm, with mineral oil viscosity 36 cSt at 50 °C and filtration ISO 4406:1999 class 18/16/13.



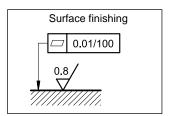
SPOOL TYPE	CURVE	
	P→A	P→B
S1, SK1	1	1
S2, SK2	1	1
S3, SK3	1	1
S4, SK4	1	1

	SPOOL TYPE	CURVE	
В		P→A	Р→В
	TA, TAK	1	1

6 - INSTALLATION

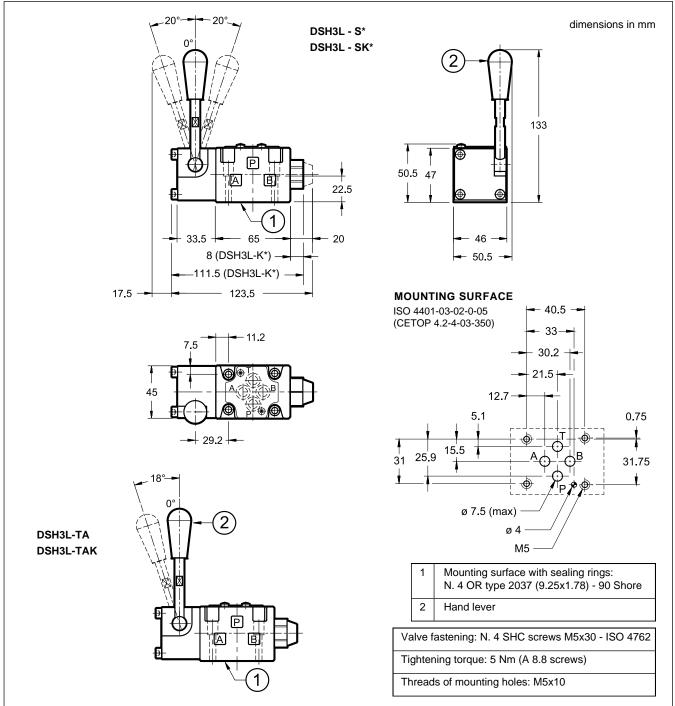
Configurations with centering and return springs can be mounted in any position; valves with mechanical detent must be mounted with the longitudinal axis horizontal.

Valve fixing is by means of screws or tie rods, with the valve mounted on a lapped surface, with values of planarity and smoothness that are equal to or better than those indicated in the drawing. If the minimum values of planarity and/or smoothness are not met, fluid leakage between valve and mounting surface can easily occur.



DSH3L SERIES 10

7 - OVERALL AND MOUNTING DIMENSIONS



8 - SUBPLATES (see catalogue 51 000)

Type with rear ports: PMMD-AI3G
Type with side ports: PMMD-AL3G

P, T, A and B threads: 3/8" BSP



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