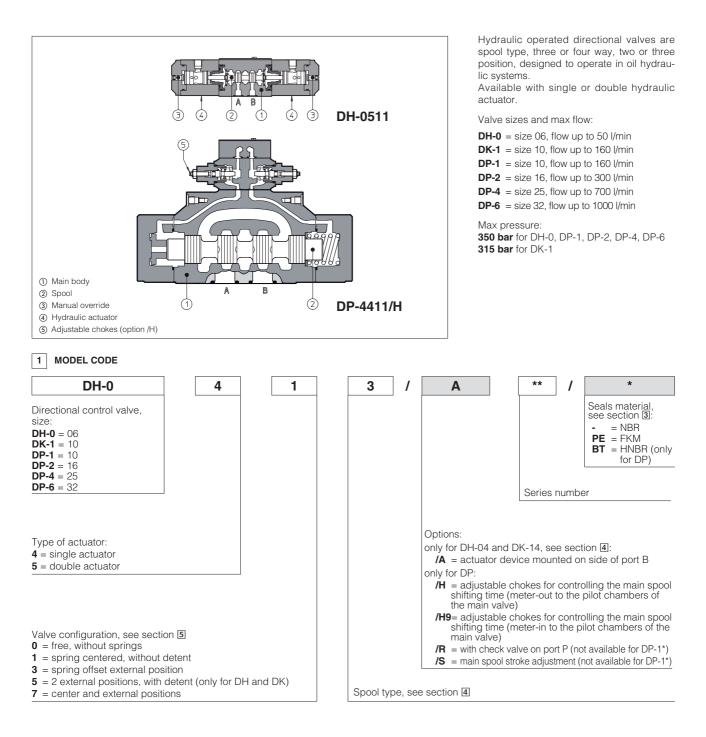


Hydraulic operated directional valves

ISO 4401 size 06, 10, 16, 25 and 32



2 HYDRAULIC CHARACTERISTICS

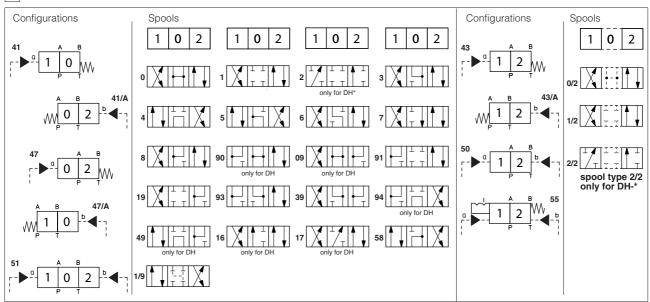
Valve model		DH-0	DK-1	DP-1	DP-2	DP-4	DP-6
Max recommended flow	[l/min]	50	160	160	300	700	1000
Max pressure on port P, A, B	[bar]	350	315	350			
Max pressure on port T (also X, Y for DP)	[bar]	see note (1)		250			
Minimum pilot pressure	[bar]	3 (min) 5 (suggested)		4			
Max recommended pressure on piloting line[bar]		70		250			

(1) The max pressure on port T has to be not over 50% of pilot pressure

3 MAIN CHARACTERISTICS, SEALS AND FLUIDS - for other fluids not included in below table, consult our technical office

Assembly position / location	any position except for valves type DH-050, DK-150, DP-*50 (without springs) that must be installed with their longitudinal axis horizontal				
Subplate surface finishing	roughness index Ra 0,4 - flatness ratio 0,01/100 (ISO 1101)				
MTTFd values according to EN ISO 13849	150 years, for further details see technical table P007				
Ambient temperature range	standard execution = -30°C ÷ +70°C; /PE option = -20°C ÷ +70°C; /BT option = -40°C ÷ +70°C				
Seals, recommended fluid temperature	NBR seals (standard) = -20°C ÷ +60°C, with HFC hydraulic fluids = -20°C ÷ +50°C FKM seals (/PE option) = -20°C ÷ +80°C HNBR seals (/BT option) = -40°C ÷ +60°C, with HFC hydraulic fluids = -40°C ÷ +50°C				
Recommended viscosity	15÷100 mm²/s - max allowed range 2,8 ÷ 500 mm²/s				
Fluid contamination class	ISO 4406 class 21/19/16 NAS 1638 class 10, in line filters of 25 μm (β10 ≥75 recommended)				
Hydraulic fluid	Suitable seals type	Classification	Ref. Standard		
Mineral oils	NBR, FKM, HNBR	HL, HLP, HLPD, HVLP, HVLPD	DIN 51524		
Flame resistant without water	FKM	HFDU, HFDR	ISO 12922		
Flame resistant with water	NBR, HNBR	HFC			

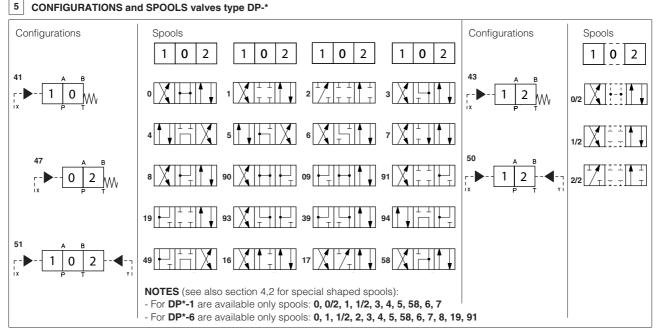
4 CONFIGURATIONS and SPOOLS valves type DH-*, DK-*



NOTES

- spools type 0 and 3 are also available as 0/1 and 3/1 with restricted oil passages in central position, from user ports to tank.

- spools type 1, 4, 5 and 58 are also available as 1/1, 4/8, 5/1 and 58/1. They are properly shaped to reduce water-hammer shocks during the swiching.
- spools type 1, 1/2, 3, 8 are available as 1P, 1/2P, 3P, 8P (only for DH-0) to limit valve internal leakages.



Special shaped spools

- spools type 0 and 3 are also available as 0/1 and 3/1 with restricted oil passages in central position, from user ports to tank.

- spools type 1, 4, 5, 58, 6 and 7 are also available as 1/1, 4/8, 5/1, 58/1, 6/1 and 7/1 are properly shaped to reduce water-hammer shocks during the switching.

6 Q/Ap DIAGRAMS

DH-0	See note and diagrams on table E010 relating the DH* valve from which DH-0* are derivated
DK-1	See note and diagrams on table E025 relating the DKE valve from which DK-1* are derivated
DP-1	See note and diagrams on table E085 relating the DPH*-1 valve from which DP-1* are derivated
DP-2	See note and diagrams on table E085 relating the DPH*-2 valve from which DP-2* are derivated
DP-4	See note and diagrams on table E085 relating the DPH*-4 valve from which DP-4* are derivated
DP-6	See note and diagrams on table E085 relating the DPH*-6 valve from which DP-6* are derivated

