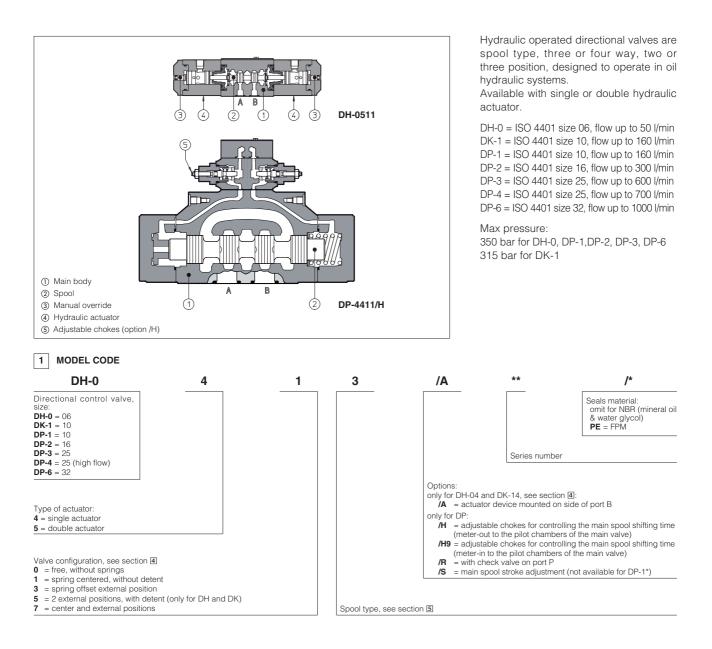


# Hydraulic operated directional valves

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



### 2 HYDRAULIC CHARACTERISTICS

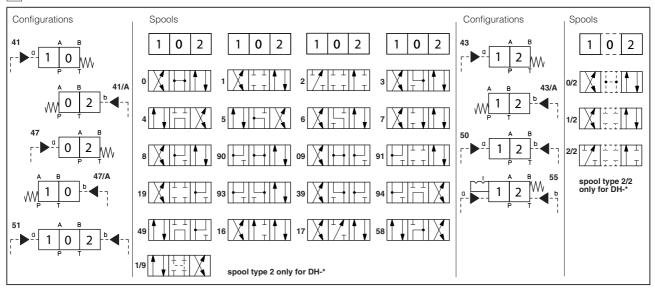
Valve model		DH-0	DK-1	DP-1	DP-2	DP-3	DP-4	DP-6
Max recommended flow	[l/min]	50	160	160	300	600	700	1000
Max pressure on port P, A, B	[bar]	350	315			350		
Max pressure on port T (also X, Y for DP)	[bar]	see note (1)		250				
Minimum pilot pressure	[bar]	3 (min) 5 (	suggested)	4				
Max recommended pressure on piloting line	[bar]	70		250				
Operation		the hydraulic c P→B, A→T, e>	uator on port A, connections are kcept for spool where the con- →A, B→T.					

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

#### 3 MAIN CHARACTERISTICS OF HYDRAULIC OPERATED DIRECTIONAL VALVES

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)				
Ambient temperature	-20°C to + 70°C				
Fluid	Hydraulic oil as per DIN 51524535, for other fluids see section 1				
Recommended viscosity	15 ÷ 100 mm²/s at 40°C (ISO VG 15 ÷ 100)				
Fluid contamination class	ISO 4406 class 21/19/16 NAS 1638 class 10, in line filters of 25 μm (β25≥75 recommended)				
Fluid temperature	-20°C +60°C (standard seals) -20°C +80°C (/PE seals)				

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



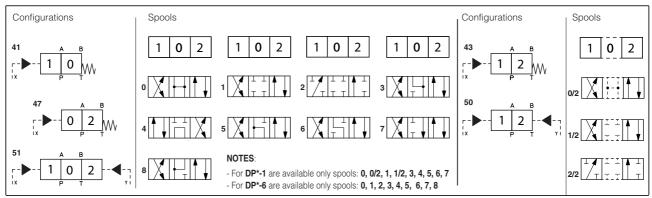
#### NOTES

- Spools type 0 and 3 are also available as 0/1 and 3/1, where in centre position oil passage from ports to tank are restricted;

Spools type 1,4 and 5 are also available as 1/1, 4/8 and 5/1. They are properly shaped to reduce water-hammer shocks during the switching;
Spool type 1, 3, 8 and 1/2 for DH-0 and DK-1 are available as 1P, 3P, 8P (only for DH-0), and 1/2P to limit valve leakage.

- On request, other type of spools are available.

# 5 CONFIGURATIONS and SPOOLS valves type DP-\*



#### NOTES

- Spools type 0 and 3 are also available as 0/1 and 3/1, where in centre position oil passage from ports to tank are restricted;

- Spools type 1,4 and 5 are also available as 1/1, 4/8 and 5/1 (not available for DP-6). They are properly shaped to reduce water-hammer shocks during the switching;

- On request, other type of spools are available.

#### 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, DKER 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-3	See note and diagrams on table E085 relating the DPH*-3 valve from which DP-3* 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

