

Hand & mechanical directional valves

ISO 4401 sizes 06, 10, 16 and 25



3 MAIN CHARACTERISTICS OF HAND & MECHANICAL OPERATED DIRECTIONAL VALVES

Assembly position / location	Any position.		
Subplate surface finishing	Roughness index $\sqrt{\frac{0.4}{2}}$, 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 19/16, achieved with in line filters at 25 μm value and $\ B_{25} \geq 75$ (recommended)		
Fluid temperature	-20°C +60°C (standard and /WG seals) -20°C +80°C (/PE seals)		

4 VALVE CONFIGURATION

DH-011 DK-111	DH-012 DK-112	DH-013 DK-113	DH-014 DK-114	DH-015 DK-115
DH-016*/I DK-116*/I • • • • • • • • • • • •	DH-016*/E DK-116*/E • • • • • • • • • • • • • • • • • • •	A B P T P T DH-016*/IA DK-116*/IA DK-116*/IA DK-116*/IA	DH-017*/I DK-117*/I • • • • • • • • • • • • • • • • • • •	DH-017*/E DK-117*/E ♪ Т ₽ Т
A B P T DH-017*/IA DH-017*/IA DH-017*/IA DH-017*/IA P T A B *	DH-018*/I DK-118*/I • • • • • • • • • • • • • • • • • • •	DH-018*/E DK-118*/E • • • • • • • • • • • • • • • • • • •	A B P T A B DH-018*//A DK-118*//A DK-118*//A DK-118*//A DK-118*//A	
DH-0230/2 DH-0231/2 DK-1231/2 DK-1231/2 DK-1231/2	DH-0232/2 DK-1232/2 C========= P T	DH-027* DK-127* C K B F T	DH-028* DK-128* ©=* P	
рр-211* DP-311* Ф Р Р 	DP-212* DP-312*	DP-213* DP-313*	DP-214* DP-314*	DP-215* DP-315* • X + V P T + Y Y
DP-216*/I DP-316*/I • * * * * * * * * * * * * * * * * * * *	DP-216*/Е DP-316*/Е Р-Т- - У У	A B DP-216*/IA DP-316*/IA U V P T A B DP-216*/EA V P T DP-216*/EA V P T	DP-217*/I DP-317*/I * * 1	DP-217*/E DP-317*/E P T
A B DP-217*//A	DP-218*/I DP-318*/I PT Y	DP-218*/E DP-318*/E	DP-218*//A DP-318*//A yP_T_A_B r{*} DP-218*/EA DP-318*/EA	

(1) Where the symbol doesn't show the hydraulic connection (*), it depends by the central configuration of the spool, see table 5. (2) All the configuration shown for the lever operated valves are also available for valves actuated by mechanic without lever device.

5 SPOOLS - for intermediate passages, see tab. E001



NOTES

- Spools type 0/2, 1/2, 2/2 are only used for valves type DH-023*/2 and DK 123*/2;
- 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;On request, other type of spools are available.





7 DIMENSIONS OF HAND & MECHANICAL OPERATED VALVES ISO 4401 SIZE 10 [mm]



Mounting subplates: see tab. E020







08/07