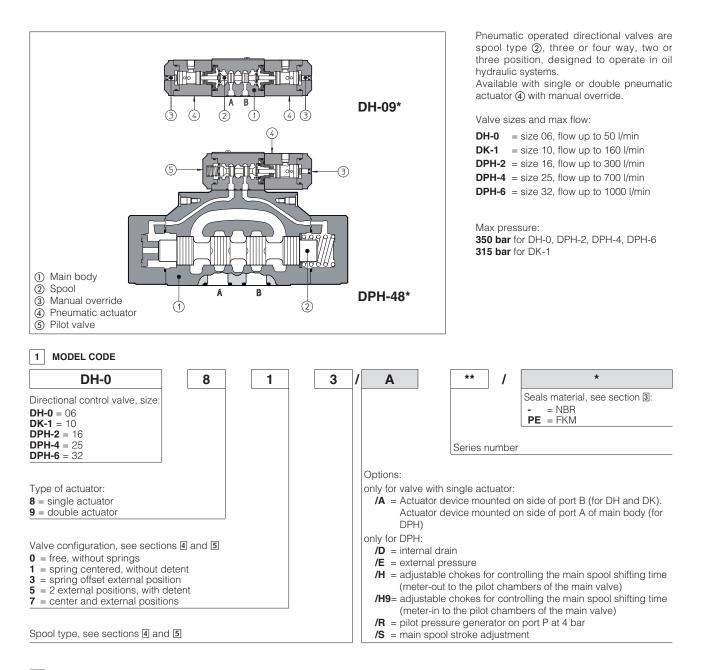


Pneumatic operated directional valves

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



2 HYDRAULIC CHARACTERISTICS

Valve model		DH-0	DK-1	DPH-2	DPH-4	DPH-6	
Max recommended flow	[l/min]	50	160	300	700	1000	
Max pressure on port P, A, B (also X for DP)	[bar]	350	315		350		
Max pressure on port T	[bar]		210		250		
Max pressure on port L and Y	[bar]		_	null pressure			
Recommended oil pressure on piloting line	[bar]	_		The device /R ger order to ensure the operation of the v spools type 0 , 0/1 ted when the pressive versus pressure	Min = 4 Max = 250 The device /R generates an additional pressure drop, in order to ensure the minimum pilot pressure, for correct operation of the valves with internal pilot and fitted with spools type 0 , 0/1 , 4 , 4/8 , 5 . The device /R has to be fit- ted when the pressure drop in the valve, verified on flow versus pressure diagrams, is lower than the minimum pilot pressure value.		
Recommended pneumatic pressure (1)	[bar]	Min = 2 Max = 12					

(1) filtered and lubricated air



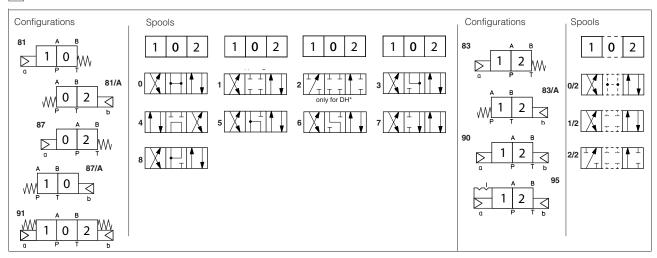
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3 MAIN CHARACTERISTICS, SEALS AND FLUIDS - for other fluids not included in below table, consult our technical office

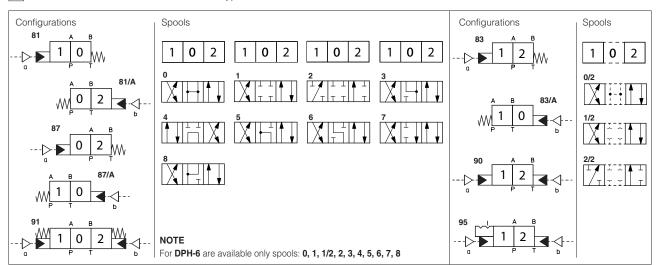
Assembly position / location	Any position for all valves except for type -*90 (without springs) that must be installed with horizontal axis if operated by impulses.				
Subplate surface finishing	Roughness index Ra 0,4 - flatness ratio 0,01/100 (ISO 1101)				
Compliance	RoHS Directive 2011/65/EU as last update by 2015/65/EU REACH Regulation (EC) n°1907/2006				
Ambient temperature	Standard execution = -30°C ÷ +70°C; /PE option = -20°C ÷ +70°C;				
Seals, recommended fluid temperature	NBR seals (standard) = $-20^{\circ}C \div +80^{\circ}C$, with HFC hydraulic fluids = $-20^{\circ}C \div +50^{\circ}C$ FKM seals (/PE option) = $-20^{\circ}C \div +80^{\circ}C$				
Recommended viscosity	15÷100 mm²/s - max allowed range 2.8 ÷ 500 mm²/s				
Max fluid contamination level	ISO4406 class 20/18/15 NAS1638 class 9, see also filter section at www.atos.com or KTF catalog				
Hydraulic fluid	Suitable seals type	Classification	Ref. Standard		
Mineral oils	NBR, FKM	HL, HLP, HLPD, HVLP, HVLPD	DIN 51524		
Flame resistant without water	FKM	HFDU, HFDR	ISO 12922		
Flame resistant with water	NBR	HFC			

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



5 CONFIGURATIONS and SPOOLS of valves type DPH-*

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

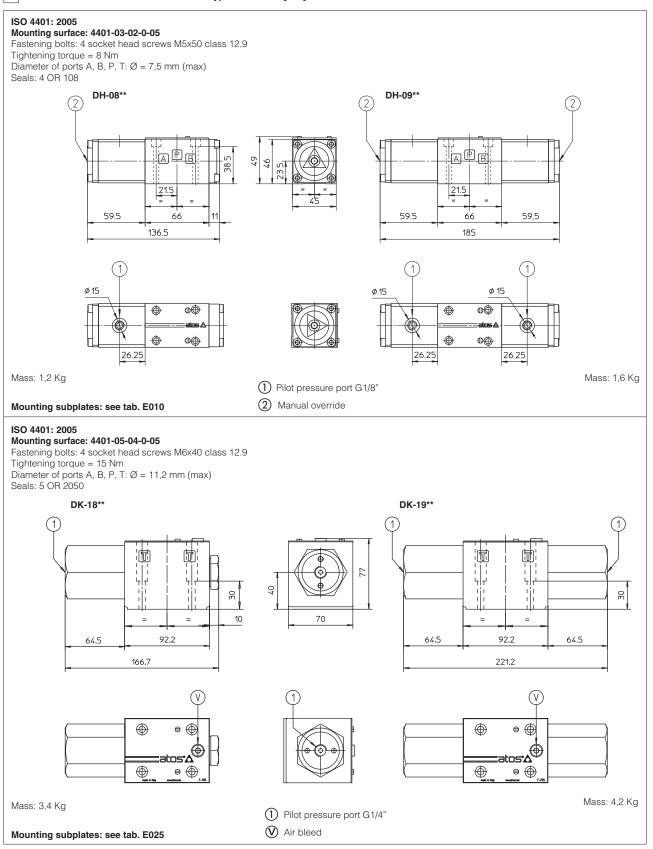


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6 Q/Ap DIAGRAMS

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
DPH-2	See note and diagrams on table E085 relating the DPH*-2 valve from which DP-2* are derivated
DPH-4	See note and diagrams on table E085 relating the DPH*-4 valve from which DP-4* are derivated
DPH-6	See note and diagrams on table E085 relating the DPH*-6 valve from which DP-6* are derivated

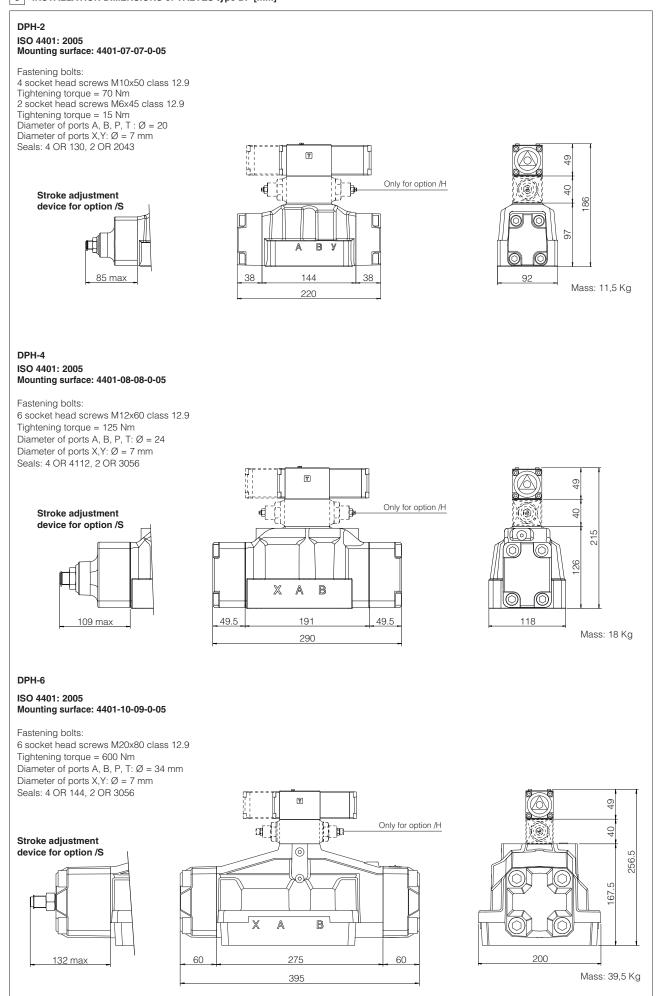
7 INSTALLATION DIMENSIONS of VALVES type DH and DK [mm]





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