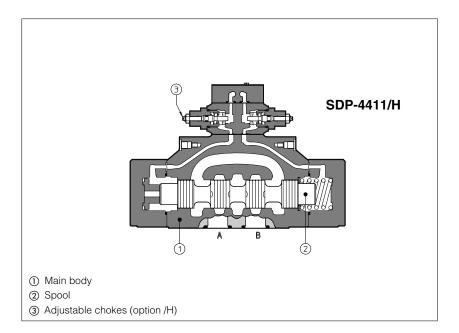


Hydraulic operated directional valves type SDP

ISO 4401 size 16, 25 and 32



Spool type hydraulic operated directional valves in three or four way, two or three position, designed to operate in oil hydraulic systems.

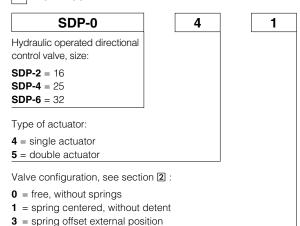
Available with single or double hydraulic actuator.

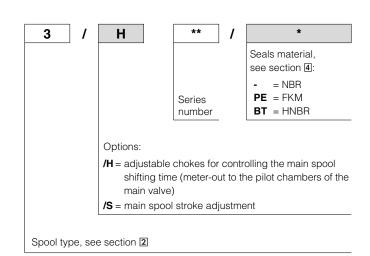
Mounting surface: **ISO 4401** size 16, 25, 32

SDP-2 = size 16, flow up to 300 l/min **SDP-4** = size 25, flow up to 700 l/min **SDP-6** = size 32, flow up to 1000 l/min

Max pressure: 350 bar

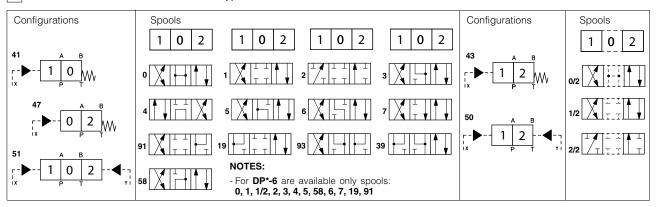
1 MODEL CODE





2 CONFIGURATIONS and SPOOLS valves type SDP-*

7 = center and external positions



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

3 HYDRAULIC CHARACTERISTICS

Valve model		SDP-2	SDP-4	SDP-6
Max recommended flow	[l/min]	300	700	1000
Max pressure on port P, A, B	[bar]		350	
Max pressure on port T (also X, Y for SDP)	[bar]		250	
Minimum pilot pressure	[bar]		4	
Max recommended pressure on piloting line	[bar]		250	

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

4 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 SDP-*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 \div +80°C, with HFC hydraulic fluids = -20° C \div +50°C FKM seals (/PE option) = -20° C \div +80°C HNBR seals (/BT option) = -40° C \div +60°C, with HFC hydraulic fluids = -40° C \div +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, achievable with 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	100 12022		

5 Q/AP DIAGRAMS

SDP-2	See note and diagrams on table SHE085 relating the SDPH*-2 valve from which SDP-2* are derivated
SDP-4	See note and diagrams on table SHE085 relating the SDPH*-4 valve from which SDP-4* are derivated
SDP-6	See note and diagrams on table SHE085 relating the SDPH*-6 valve from which SDP-6* are derivated

SDP-2

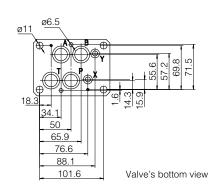
ISO 4401: 2005

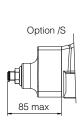
Mounting surface: 4401-07-07-0-05

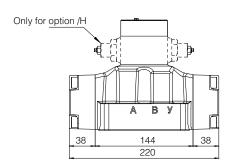
Fastening bolts:

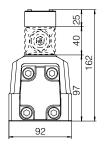
4 socket head screws M10x50 class 12.9 Tightening torque = 70 Nm 2 socket head screws M6x45 class 12.9 Tightening torque = 15 Nm Diameter of ports A, B, P, T: $\emptyset = 20$

Diameter of ports $X,Y: \emptyset = 7 \text{ mm}$ Diameter of port L: $\emptyset = 5 \text{ mm}$ Seals: 4 OR 130, 2 OR 2043









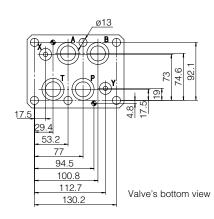
Mass: 10 Kg

SDP-4

ISO 4401: 2005

Mounting surface: 4401-08-08-0-05

Fastening bolts:
6 socket head screws M12x60 class 12.9 Tightening torque = 125 Nm Diameter of ports A, B, P, T : \emptyset = 24 Diameter of ports $X,Y: \emptyset = 7 \text{ mm}$ Diameter of port L: \emptyset = 5 mm Seals: 4 OR 4112, 2 OR 3056

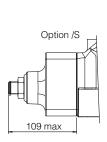


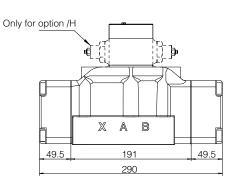
= PRESSURE PORT

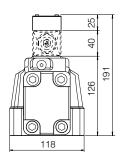
A,B = USE PORT T = TANK POR = TANK PORT

= EXTERNAL OIL PILOT PORT

= DRAIN PORT







Mass: 16,5 Kg

SDP-6

ISO 4401: 2005

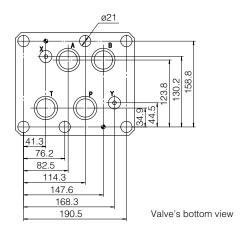
Mounting surface: 4401-10-09-0-05

(port L optional)

Fastening bolts: 6 socket head screws M20x80 class 12.9

Tightening torque = 600 Nm Diameter of ports A, B, P, T: \emptyset = 34 mm Diameter of ports X,Y: \emptyset = 7 mm

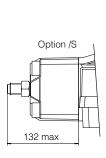
Diameter of port L: \emptyset = 5 mm Seals: 4 OR 144, 2 OR 3056

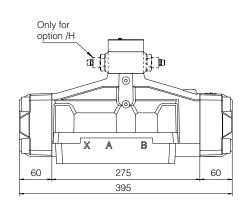


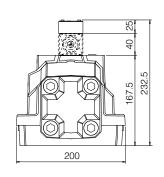
P = PRESSURE PORT

A, B= USE PORT T = TANK PORT

X = EXTERNAL OIL PILOT PORT Y = DRAIN PORT







Mass: 38 Kg