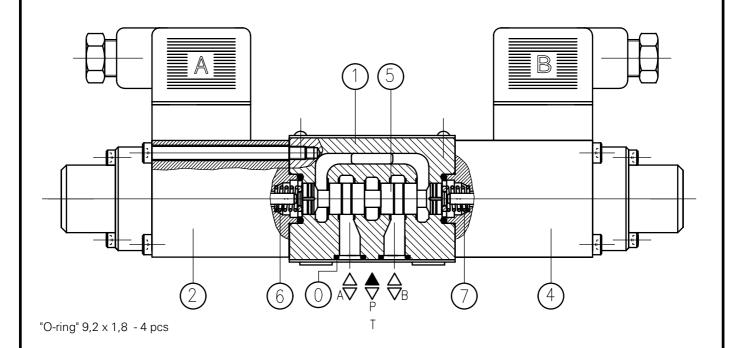


APPLICATION

Proportional directional valves type USAB 6 are used to control the direction and speed of a user movement. The output flow is proportional to electrical input signal.





DESCRIPTION OF OPERATION

Proportional directional valve type USAB 6 comprises mainly the housing 1, solenoids 2 and 4, spool 5, springs 6 and 7.

Electronic regulator (30 RE \ldots) can be included with the valve.

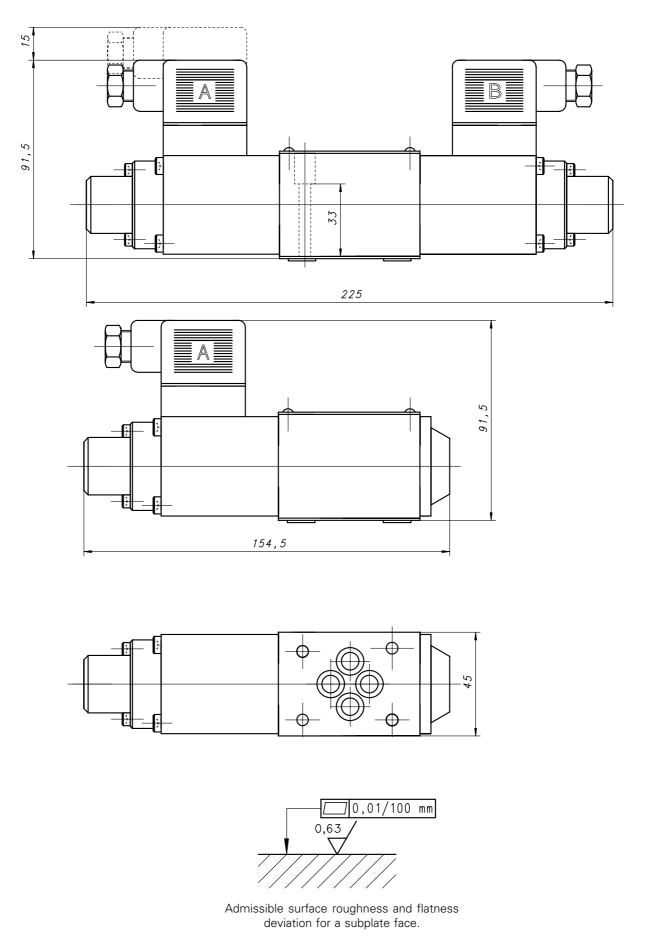
It is used to control proportional solenoids of the valve.

The proportional solenoid 2 or 4 moves the spool 5 from its neutral position. The neutral position is held by means of the springs 6 and 7. Current flowing through the solenoid 2 or 4 produces force pushing the spool 5 against the springs 6 or 7.

TECHNICAL DATA

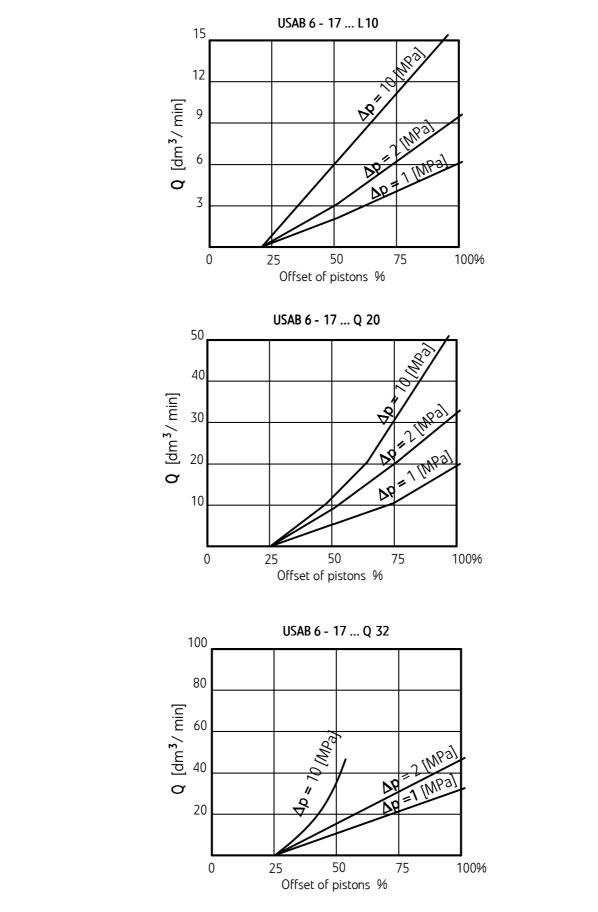
Working medium	Mineral oil
Operating pressure at port P, A, B	up to 31,5 MPa
Operating pressure at port T	up to 16 MPa
Required filtration	16 mm
Recommended filtration	10 mm
Nominal fluid viscosity	37 mm²/s at temp. 328 K
Viscosity range	2,8 to 380 mm ² /s
Working temperature (in tank)	313 to 328 K
Hysteresis	< 6 %
Repetitation accuracy	< 3 %
Operating position	optional
3-position valve weight	~ 2,5 kg
2-position valve weight	~ 1,8 kg
Electrical characteristics	
Nominal solenoid power	~ 13 W
Resistance of cold solenoid coil (293K)	5,4W
Resistance of max hot solenoid coil	8,1W
Electronic regulators	30 RE 20 - for USE B6 - 3 and 2-position, data card WK 495 773

OVERALL AND CONNECTION DIMENSIONS



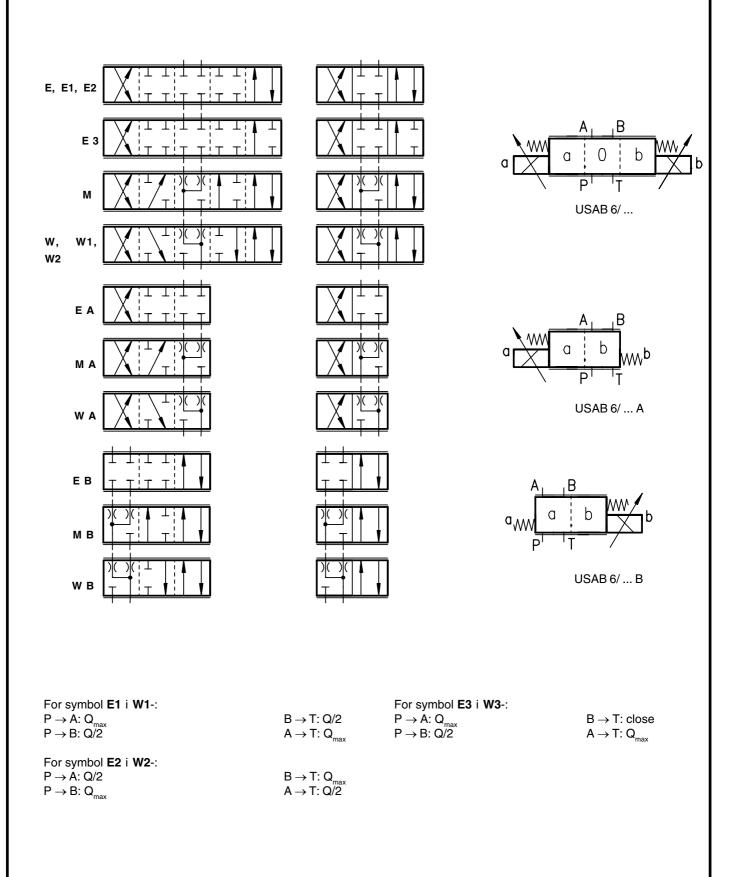
PERFORMANCE CURVES

measured at viscosity $v = 41 \text{ mm}^2/\text{s}$ and temperature $t = 50^{\circ}\text{C}$



SPOOL SCHEMES

GRAPHICAL SYMBOL



		USAB 6			,
Series number 15 = 1 (15 - 19) - installation and connectio	•	unchanged			
Designation of connections to sc	hemes on page 3.				
Flow changes Linear (only for 10 dm³/min) Progressive	= L = Q				
Nominal flow at ∆p 1MPa 10dm³/min 20dm³/min 32dm³/min		= 10 = 20 = 32			
Sealing Fluids on mineral oil base Fluids on phosphate-ester base	= with no cod = V	le			

Coding example : USAB 6 15 E L 10

Connection diamensions for subplate

