

INSTALLATION, SERVICE AND MAINTENANCE

Directional control valves RSE7-10 are designed for panel installation. They are being mounted by four screws M6x70 with torque 14Nm and can be installed in any working position. The reliability of the valves is conditional upon use of prescribed working fluid, especially its parameters such as cleanness and temperature. Maximum voltage deviation is $\pm 10\%$ from solenoid rated voltage for both AC and DC power supply.

DELIVERY

Solenoid operated directional control valves of type RSE7-10 are delivered assembled. Spare parts and mounting screws are not included in package. These must be ordered separately.

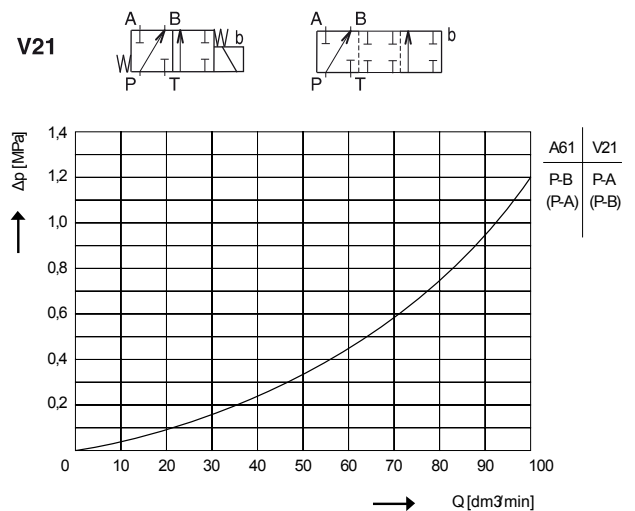
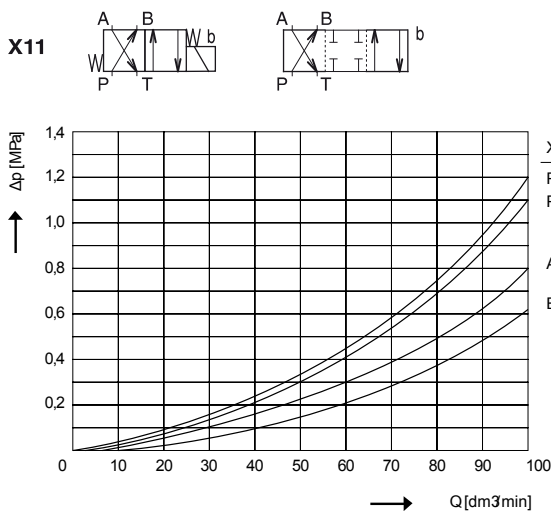
TECHNICAL DATA

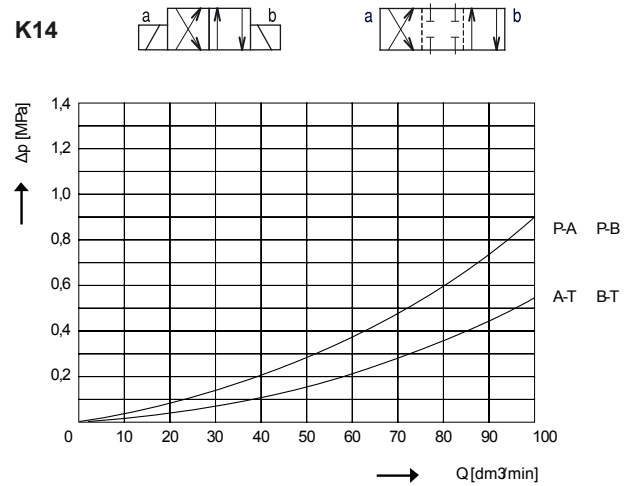
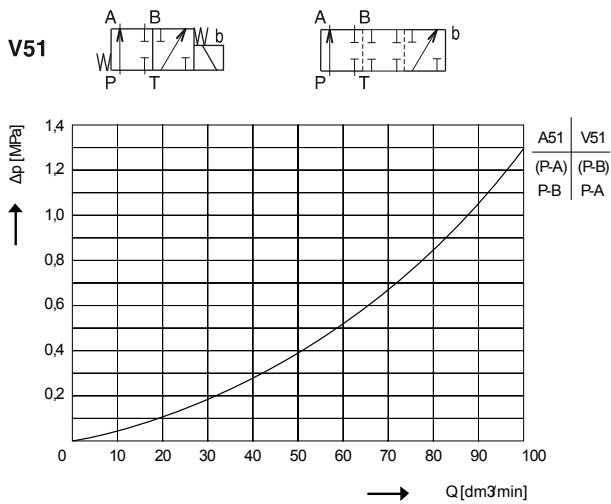
Technical data	Symbol	Unit	Value
Valve size	D_n	mm	10
Maximal flow	Q_{max}	dm^3/min	see Operating Limits
Maximal operating pressure in ports P, A, B	$P_{max,a}$	MPa	35
Maximal operating pressure in port T	$P_{max,t}$	MPa	21
Pressure drop	Δp	MPa	see Pressure Drop curves
Viscosity range	ν	m^2/s	$20 \cdot 10^{-6}$ up to $400 \cdot 10^{-6}$
Maximum degree of fluid contamination	class 9 according to NAS 1638, 18/15 according to ISO 4406		
Fluid temperature range	t_{po}	$^{\circ}C$	-20 up to +80
Ambient temperature range	t_k	$^{\circ}C$	-20 up to +60
Enclosure type to EN 60 529	IP 65		
Hydraulic medium	Hydraulic oils of power class (HL,HLP) according to DIN 51524		
Weight - valve with 1 solenoid	m	kg	3.9
- valve with 2 solenoids			5.4
Service life	$> 10^6$ cycles		
Installation dimensions	according to: DIN 24 340 / ISO 4401 / CETOP RP121-H		
Duty cycle		%	100
Mounting position	as desired		

PRESSURE DROP $\Delta p = f(Q)$

TWO POSITION VALVES

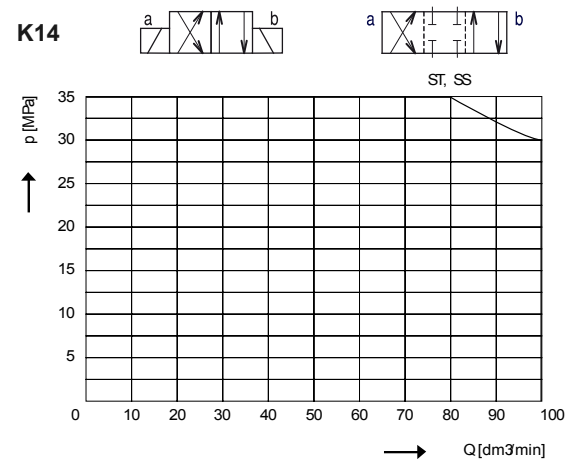
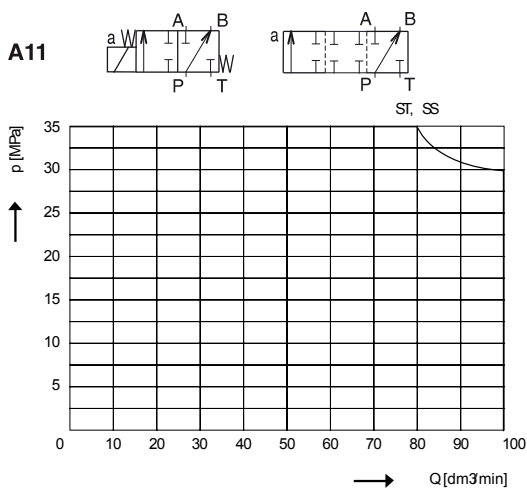
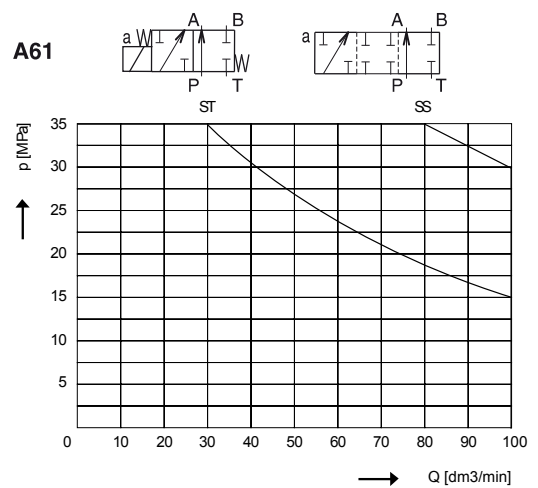
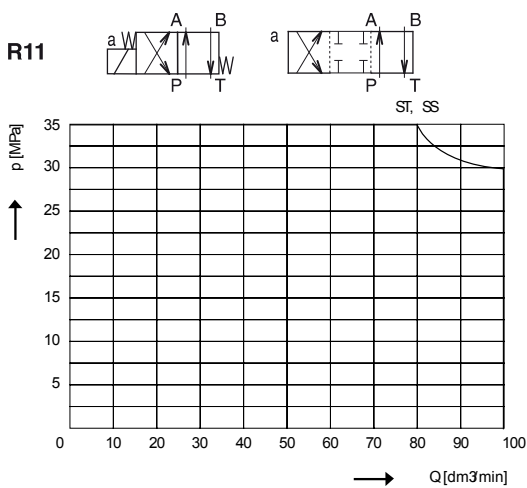
Measured at $\theta = 50^{\circ}C$, $\nu = 35 mm^2/s$





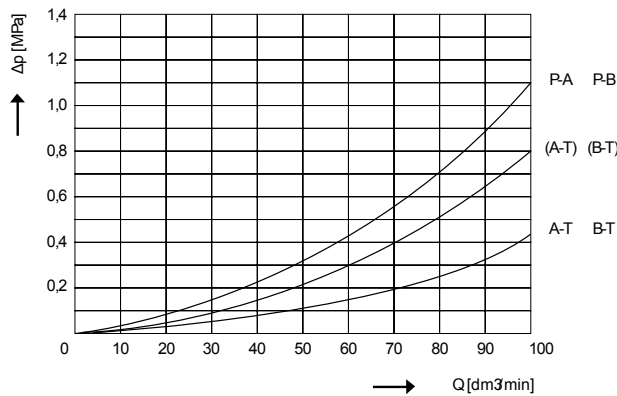
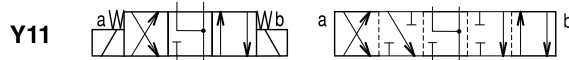
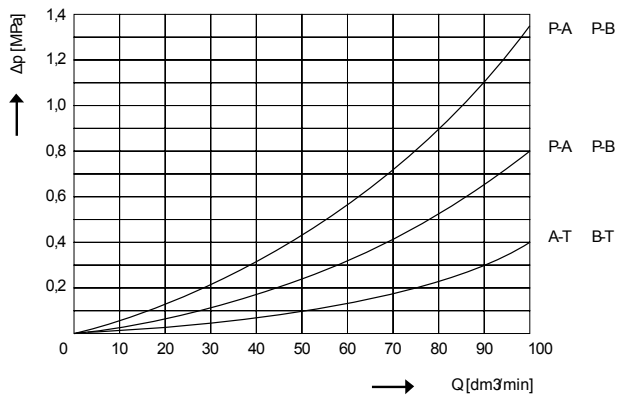
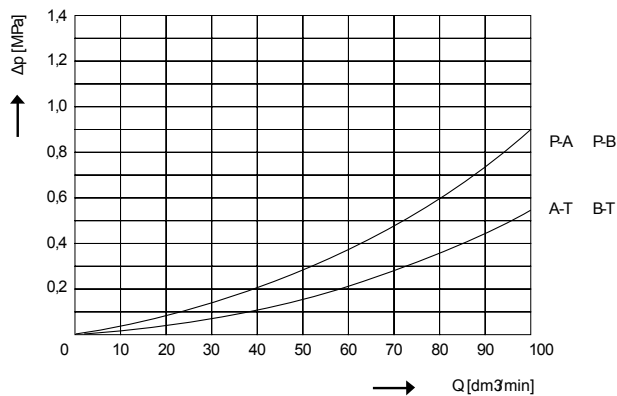
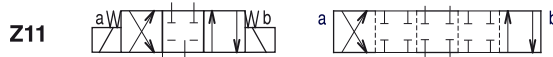
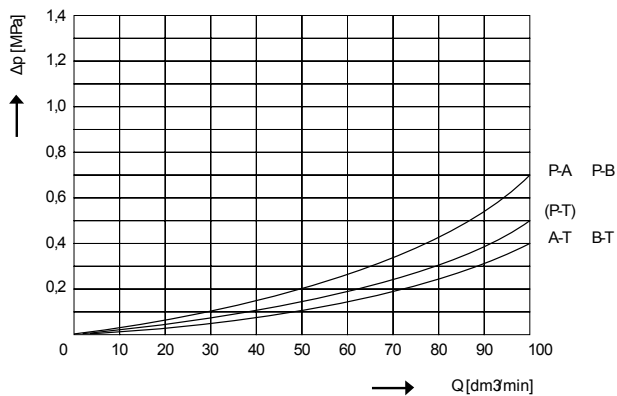
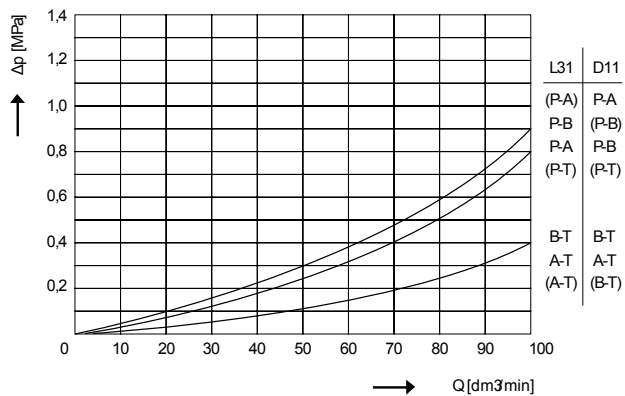
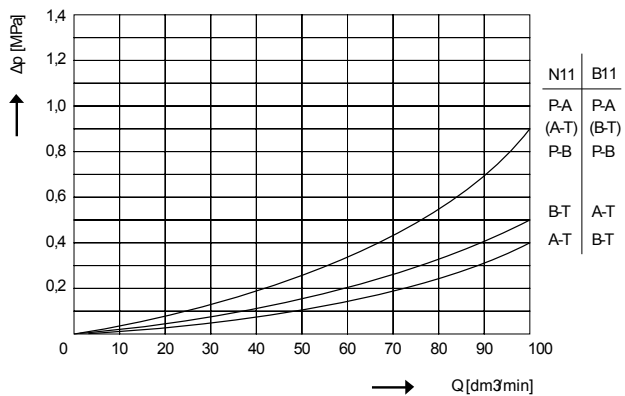
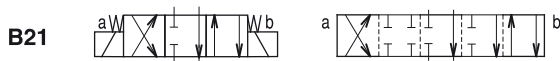
OPERATING LIMITS $Q_{max} = f(p)$ TWO POSITION VALVES

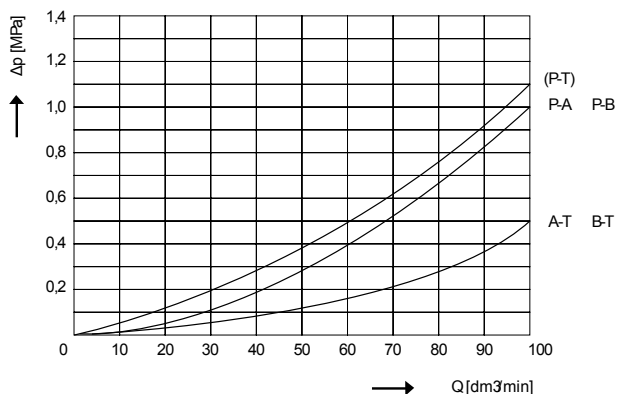
Measured at $\theta = 50^\circ\text{C}$, $v = 35 \text{ mm}^2/\text{s}$



PRESSURE DROP $\Delta p = f(Q)$ THREE POSITION VALVES

Measured at $\vartheta = 50^\circ\text{C}$, $\nu = 35 \text{ mm}^2/\text{s}$

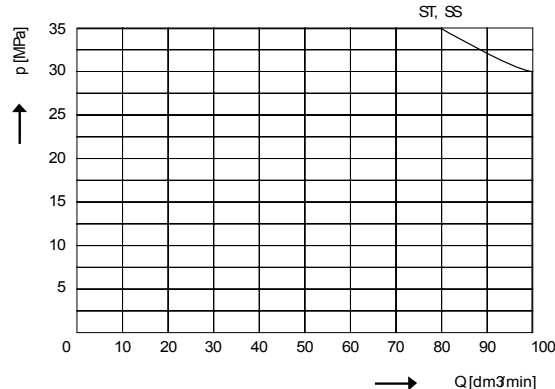
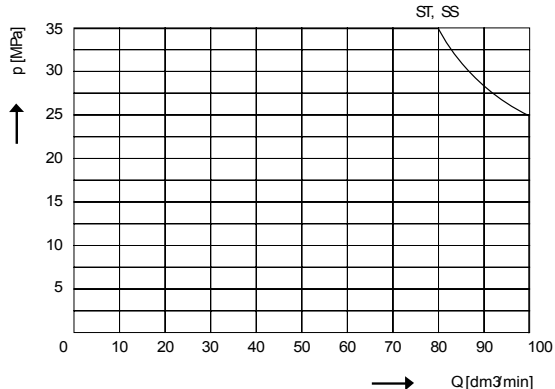
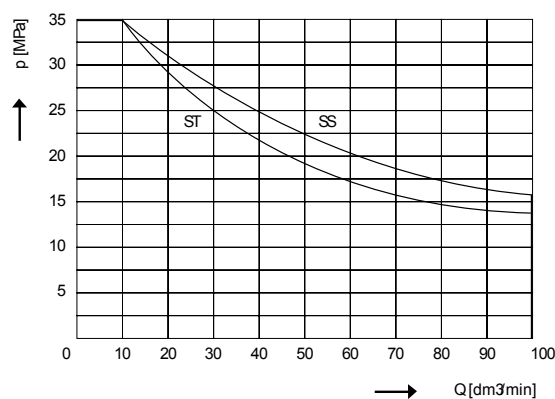
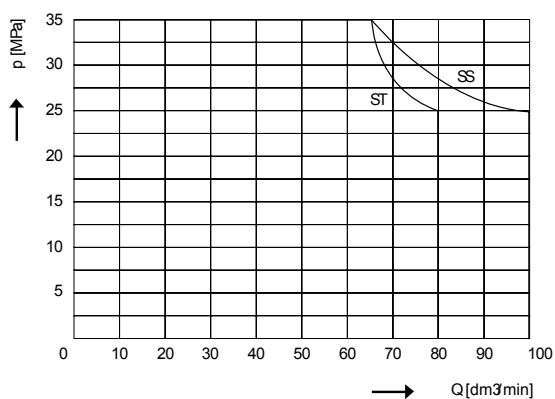


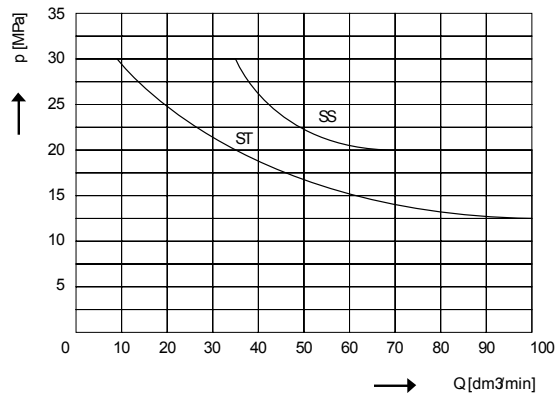
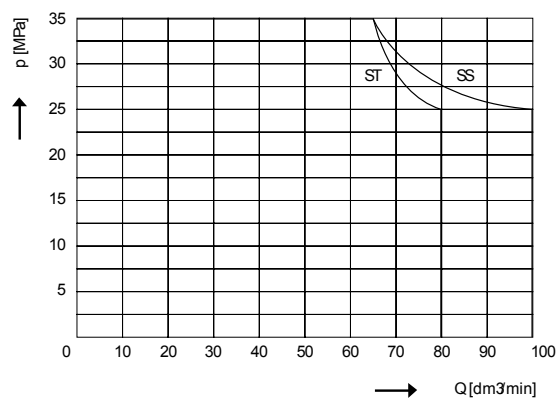
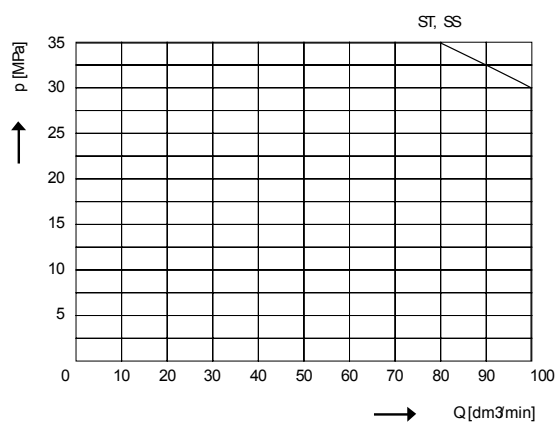


OPERATING LIMITS $Q_{max}=f(p)$

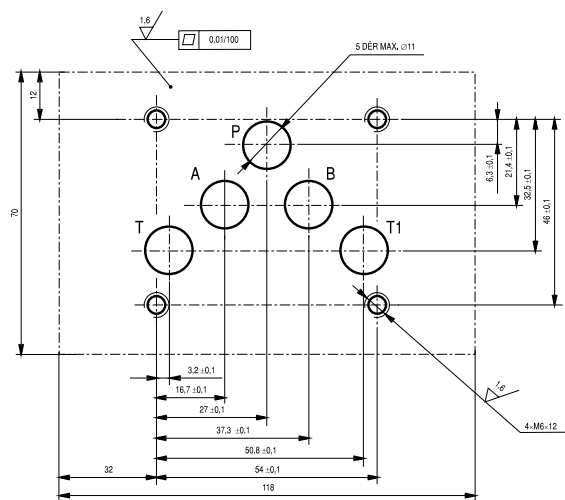
THREE POSITION VALVES

Measured at $\theta = 50^\circ\text{C}$, $\nu = 35 \text{ mm}^2/\text{s}$



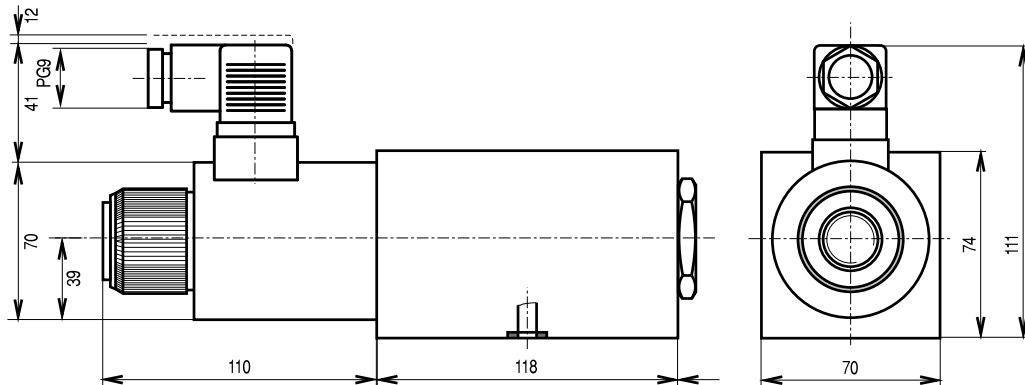


INSTALLATION DIMENSIONS



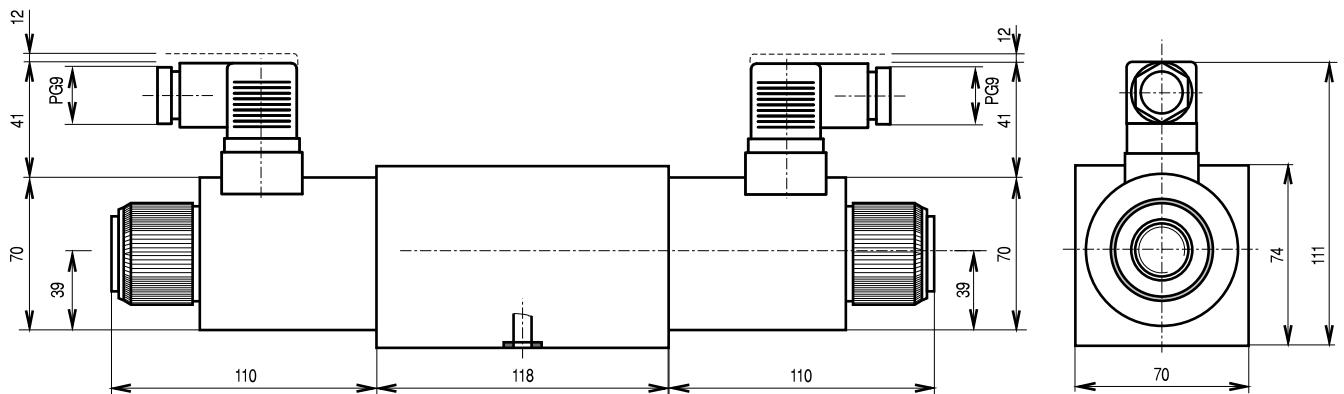
VALVE DIMENSIONS

Two position valves



0.01/100 mm
1.6/
Required surface finish of subplate.

Three position valves, Two position valves



SPARE PARTS

Seal kit

Type	Dimensions and quantity			
	O-ring			
Standard NBR 80	12.42 x 1.78 mm (5pcs)	23.47 x 2.62 mm (2pcs)	30 x 3 mm (2pcs)	56.78 x 1.78 mm (2pcs)

Bolt kit

Dimensions and quantity	Torque
M6x70 DIN 912-10.9 (4pcs)	14 Nm



NOTES

Consultancy service is provided by: **PQS Technology, Ltd.**

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