



# RSP 6-10

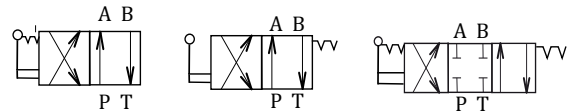
## DIRECTIONAL CONTROL VALVES

| KE 2030 | 07/13 |

**D<sub>n</sub> 10 | p<sub>max</sub> 35 MPa | Q<sub>max</sub> 140 dm<sup>3</sup>/min**

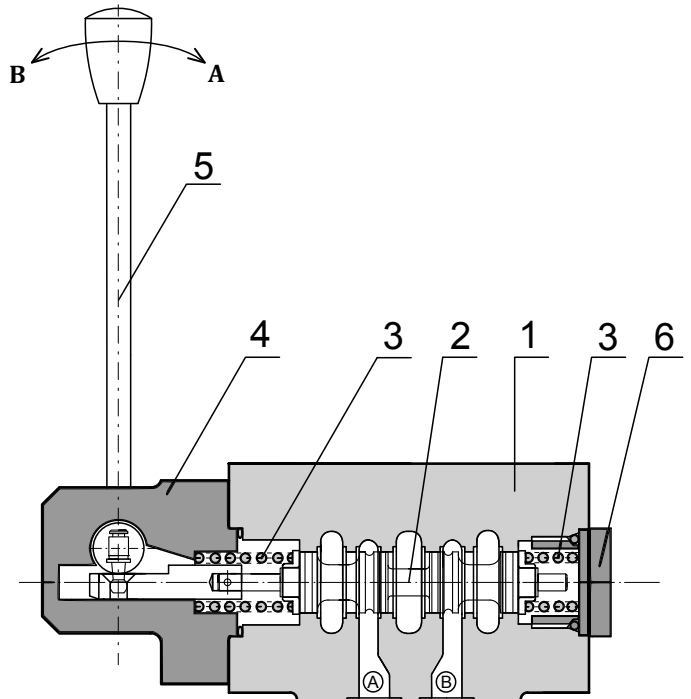
Manually operated directional control valves of type RSP6-10 operated by hand lever are used to control start, stop and direction of fluid in hydraulic systems.

Dn 10, NG 10 | Available with detent assembly | Manually operated | Proven design | Installation dimensions according to: CETOP RP 121H-R05, ISO 4401-05, DIN 24340

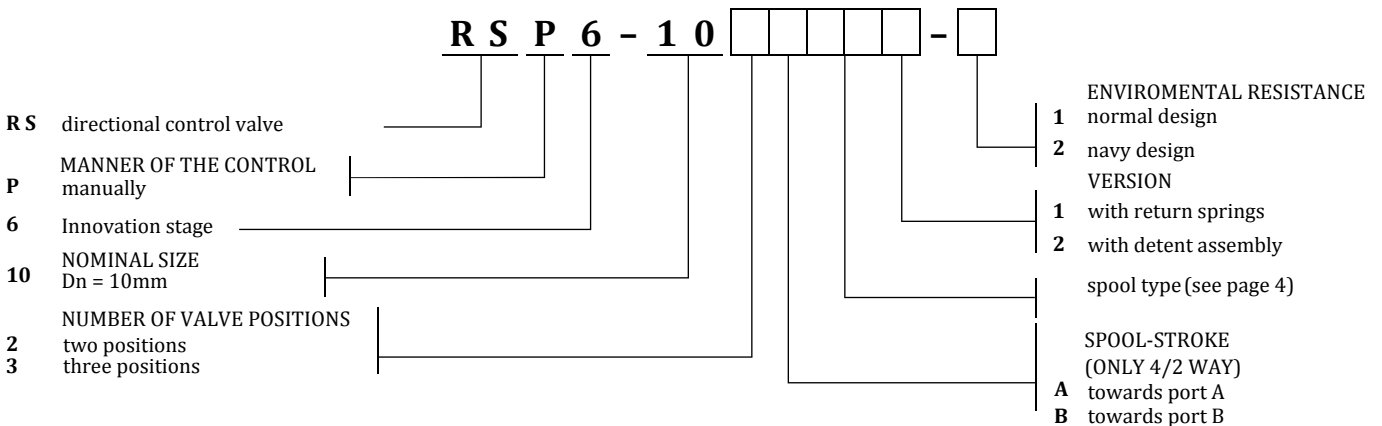


### FUNCTIONAL DESCRIPTION

Hand operated directional control valves of type RSP6-10 are used to control start, stop and direction of fluid in hydraulic systems. They are a new compact version of well-established valves RSP5-10. Directional control valves are being manufactured as two- or three-position valves (see Spool Symbols and Crossovers) and consist of valve housing (1) with control spool (2). The actuating section of the valve consists of the aluminium flange (4) with a hand lever (5), one (for 4/2 way) or two (for 4/3 way) springs (3) returning the control spool to the default position and threaded plug with o-ring (6). Surface of the valve housing is phosphate coated. The hand lever is always made from stainless steel.



### ORDERING CODE



## INSTALLATION, SERVICE AND MAINTENANCE

Directional control valves RSP6-10 are designed for panel installation. They are being mounted by four screws M6x40 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.

## DELIVERY

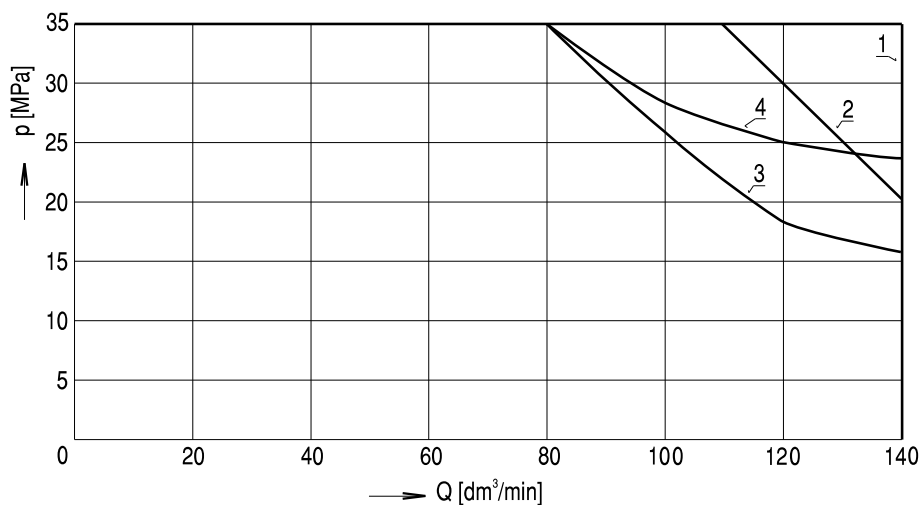
Directional control valves of type RSP6-10 operated by hand lever are delivered assembled. Spare parts and mounting screws are not included in package. These must be ordered separately.

## TECHNICAL DATA

Technical data	Symbol	Unit	Value
Valve size	$D_n$	mm	10
Maximal flow	$Q_{max}$	dm <sup>3</sup> /min	140
Maximal operating pressure in ports P, A, B	$P_{max,a}$	MPa	35
Maximal operating pressure in port T $p_{max}$	$P_{max,t}$	MPa	21
Pressure drop	$\Delta p$	MPa	see pressure drop curves
Viscosity range	$\nu$	m <sup>2</sup> /s	$10 \cdot 10^{-6}$ 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	$t_{po}$	°C	-30 up to +80
Ambient temperature range	$t_k$	°C	-30 up to +60
Type of climatic resistance IEC-721-2-1			WT
Hydraulic medium		Hydraulic oils of power class (HL,HLP) according to DIN 51524	
Weight	m	kg	3.1
Mounting position	as desired		
Service life	$10^6$ cycles		
Installation dimensions	according to: DIN 24 340 / ISO 4401 / CETOP RP121-H		

## OPERATING LIMITS

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



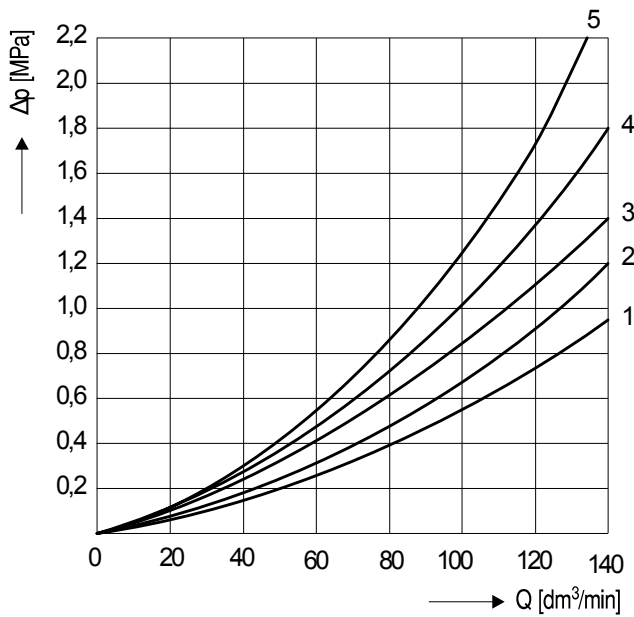
Spool type	Z1	H1	P1	Y1	C1	R1	X1
Respective curve	1	1	1	4	3	2	2



# RSP 6-10

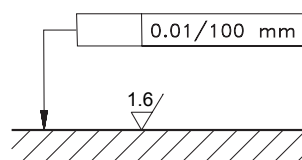
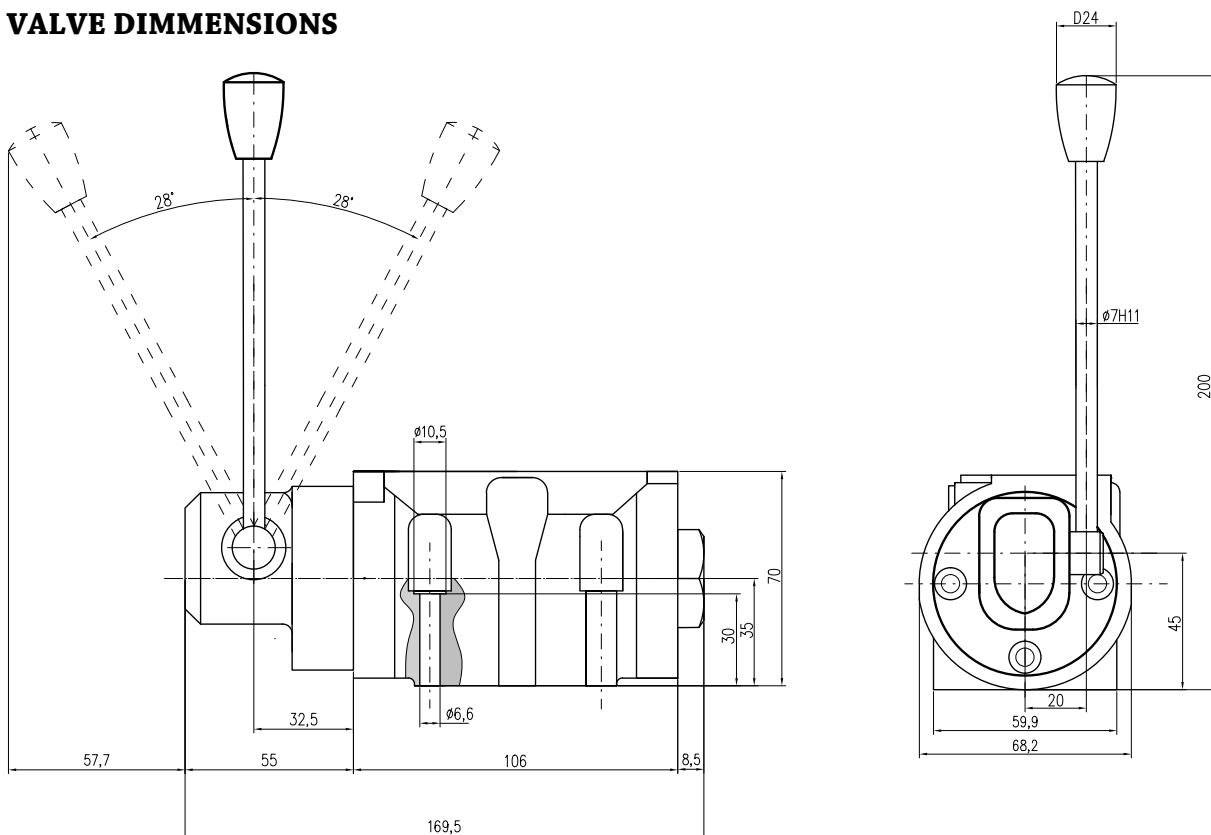
## PRESSURE DROP

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



Spool type	Respective pressure drop curve No.:				
	P-A	P-B	A-T	B-T	P-T
Z1	1	1	2	2	-
H1		1	2	-	-
P1	1	1	2	2	-
Y1	1	1	2	2	-
C1	4	3	4	5	1
R1	1	1	2	2	-
X1	1	1	2	2	-

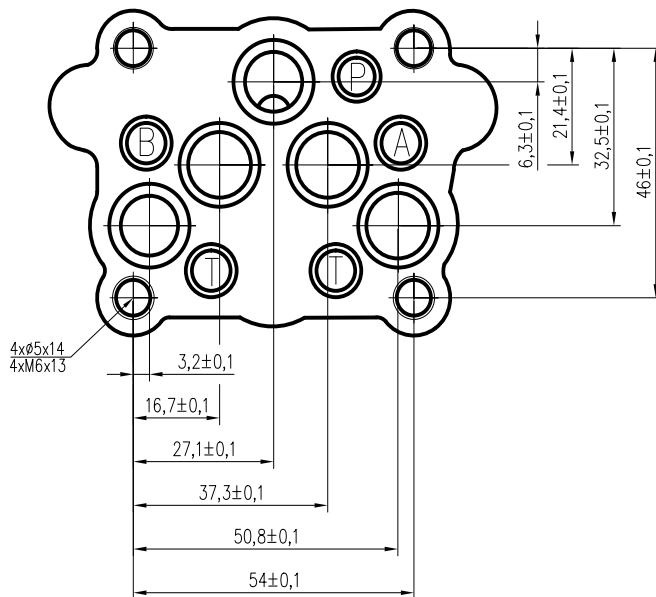
## VALVE DIMENSIONS




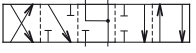
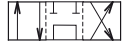
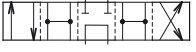

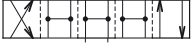

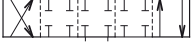





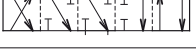





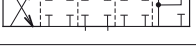
Required surface finish of subplate.



## INSTALLATION DIMMENSIONS



## SPOOL TYPES AND CROSSOVERS

Type	Symbol	Crossovers
Y1		
C1		
H1		
Z1		
B1		
L2		
N1		
P1		
Y2		
Z2		

## SPARE PARTS

### Seal kit

Type	Dimensions and quantity			
	Square-ring		O-ring	
Standard NBR 70	12.42 x 1.68 mm (5pcs)	11.9 x 8.4 x 1 mm (1pc)	23.81 x 2.62 mm (2pcs)	1.8 x 1 mm (1pc)

### Bolt kit

Dimensions and quantity	Torque
M6x40 DIN 912-10.9 (4pcs)	14 [Nm]

## NOTES

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

Sales department: tel.: +420 313 526 236

Technical support: tel.: +420 313 526 378

Fax: +420 313 513 091

[www.pqstechnology.co.uk](http://www.pqstechnology.co.uk)

e-mail: [export@pqstechnology.co.uk](mailto:export@pqstechnology.co.uk)

e-mail: [info@pqstechnology.co.uk](mailto:info@pqstechnology.co.uk)