



# **RSP 7-16**

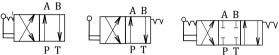
#### **DIRECTIONAL CONTROL VALVES**

| KE 2045 | 10/14 |

D<sub>n</sub> 16 | p<sub>max</sub> 32 MPa | Q<sub>max</sub> 300 dm<sup>3</sup>/min

Manually operated directional control valves of type RSP7-16 operated by hand lever are used to control start, stop and direction of fluid in hydraulic systems.

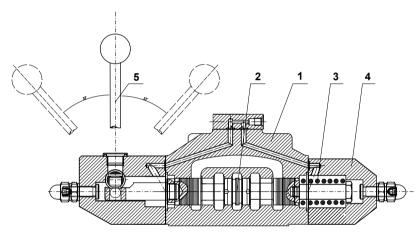
Dn 16, NG 16 | Avaliable with detent assembly | Manually operated | Proven design | Installation dimensions according to: CETOP RP 121H-R07, ISO 4401-07, DIN 24340



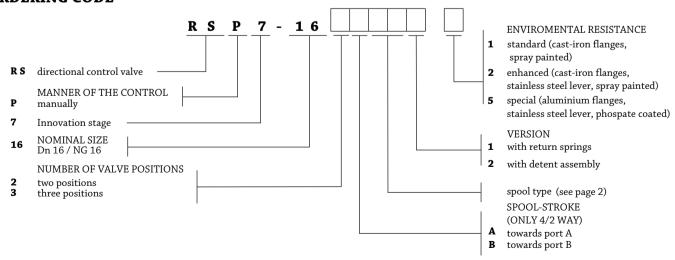
### **FUNCTIONAL DESCRIPTION**

Hand operated directional control valves of type RSP7-16 are used to control start, stop and direction of fluid in hydraulic systems. 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 either cast iron or aluminium flange (see ordering code) 4 with a hand lever 5 and one (for 4/2 way) or two (for 4/3 way) springs 3 returning the control spool to the default position.

Surface of the valve housing is either spray painterd or phosphate coated (depending on desired version of environmental resistance - see Ordering code). The hand lever is always made from stainless steel.



#### **ORDERING CODE**



**Note:** Direction control valves RSP7-16 with standard environmental resistance have been replaced by directional control valves RSP7-16 with enhanced environmental resistance. Valves RSP7-16 with standard environmental resistance can no longer be ordered.



# INSTALLATION, SERVICE AND MAINTENANCE

Directional control valves RSP 7-16 are designed for panel installation. They are being mounted by four screws M10x45 DIN 912-10.9 with torque 70Nm amd 2 screws M6x40 DIN 912-10.9 with torque 8Nm. Valves 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.

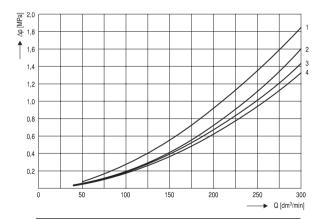
#### **DELIVERY**

Directional control valves of type RSP 7-16 operated by hand lever are delivered assembled. Spare parts and mounting screws are not included in package. These must be ordered separetly.

## **TECHNICAL DATA**

Technical data	Symbol	Unit	Value	
Nominal size	Dn	mm	16	
Max. flow	Q <sub>MAX</sub>	dm <sup>3</sup> /min	300	
Max. operating pressure in ports P, A, B	рмах	Mpa	32	
Max. operating pressure in port T	рмах,т	MPa	25	
Max. operating pressure in flange chambers	рмах,р	MPa	10	
Pressure drop	Δр	MPa	see $\Delta p = f(Q)$ curves	
Hydraulic fluid	Hydraulic oils of power classes (HL, HLP) according to DIN 51524			
Viscosity range	ν	mm <sup>2</sup> /s	10 400	
Fluid temperature range	t <sub>PO</sub>	°C	-20+80	
Ambient temperature range	t <sub>A</sub>	°C	-20+60	
Maximum degree of fluid contamination	Class 21/18/15 according to ISO 4406 (1999)			
	m	kg	10.5 - RSP7-16 xxxx - 1	
Weight			8.2 - RSP7-16 xxxx - 2	
			8.2 - RSP7-16 xxxx - 5	
Mounting position			optional	
Enclousure type according to EN 60 529			IP65	
Installation dimensions	according to: DIN 24 340 / ISO 4401 / CETOP RP121-H			

#### PRESSURE DROP



Spool	Respective pressure drop curve number				
type	P - A	P - B	A - T	B - T	P - T
C1					-
Y1	2	3	4	3	-
Y5	3	3	1	1	-
Z5	3	2	4	2	-
Z6	3	3	1	1	-

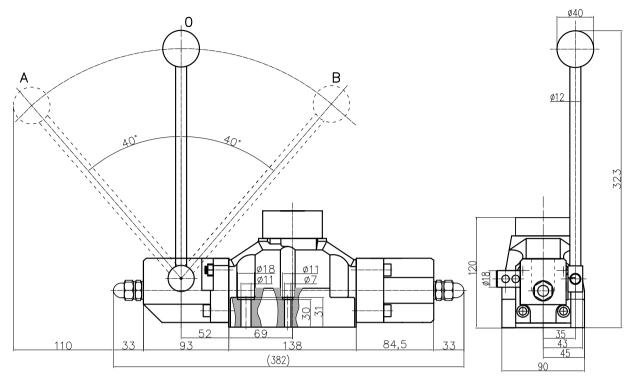
#### **SPOOL TYPES AND CROSSOVERS**

Туре	Symbol	Crossover
Y3	XXX T	
Y5		
C1		
Z5		
Z6		

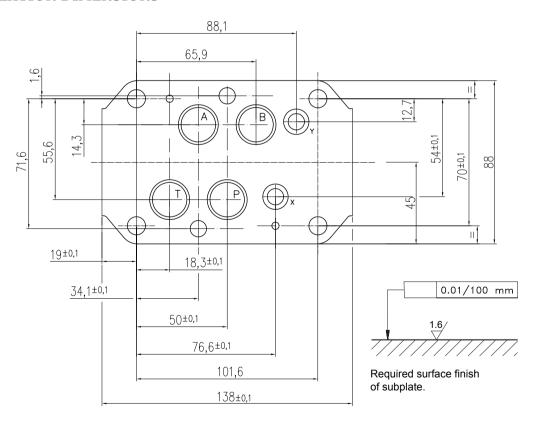
**Note:** measured at  $v = 35 \text{mm}^2/\text{s}$ ,  $T = 50^{\circ}\text{C}$ 



# **VALVE DIMENSIONS**



# **INSTALLATION DIMENSIONS**





## **SPARE PARTS**

## Seal kit

Type	Dimensions and quantity O-ring				
Туре					
Standard NBR 70	32.5 x 2.65 mm (2pcs)	22.3 x 2.4 mm (4pcs)	15.3 x 2.4 mm (2pcs)	10 x 2 mm (2pcs)	9.25 x 1.8 mm (4pcs)

## **Bolt kit**

Dimensions and quantity	Torque
M10x45 DIN 912-10.9 (4pcs)	40 [Nm]
M6x40 DIN 912-10.9 (2pcs)	8 [Nm]

# **NOTES**

The data is subject to change. The manufacturer reserves the right to make changes and/or improvements without prior notice. It is understood that the information in this datasheet is being used at one's own risk

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