



RSP 7-25

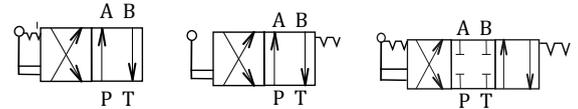
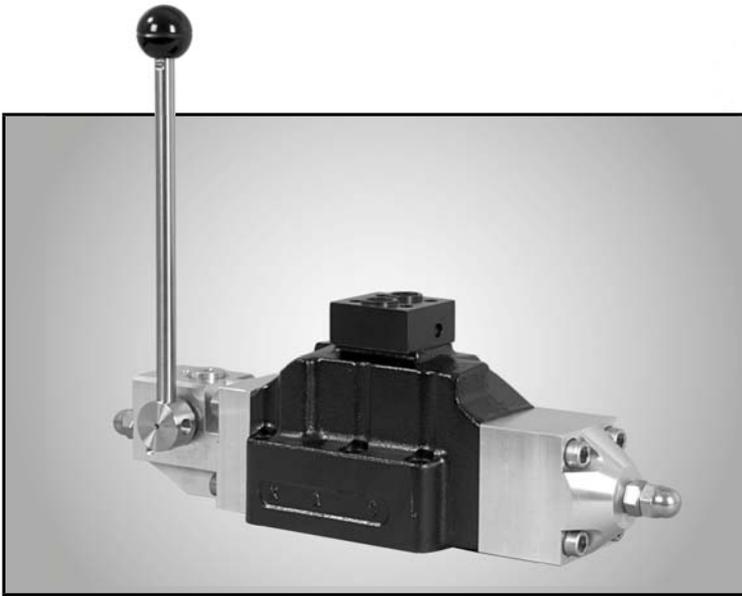
DIRECTIONAL CONTROL VALVES

| KE 2046 | 08/13 |

D_n 25 | p_{max} 32 MPa | Q_{max} 500 dm³/min

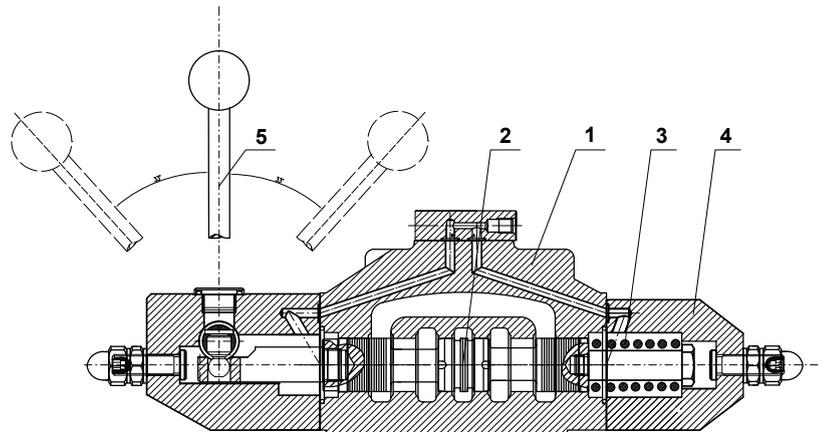
Manually operated directional control valves of type RSP7-25 operated by hand lever are used to control start, stop and direction of fluid in hydraulic systems.

Dn 25, NG 25 | Available with detent assembly | Manually operated | Proven design | Installation dimensions according to: CETOP RP 121H-R08, ISO 4401-08, DIN 24340

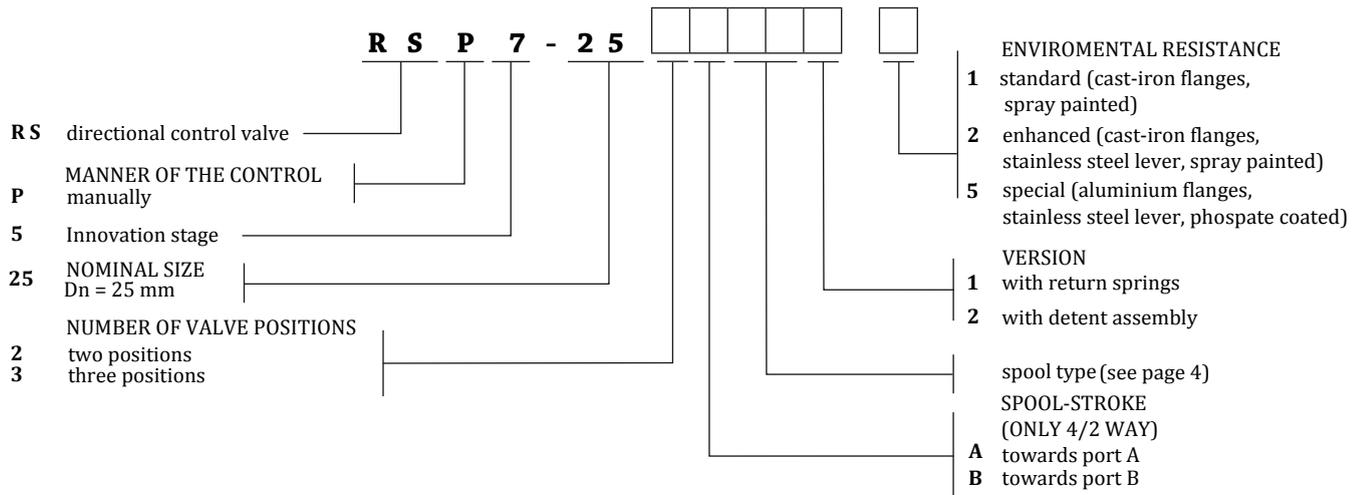


FUNCTIONAL DESCRIPTION

Hand operated directional control valves of type RSP7-25 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 painted 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Note: Direction control valves RSP7-25 with standard environmental resistance have been replaced by directional control valves RSP7-25 with enhanced environmental resistance. RSP7-25 with standard environmental resistance can no longer be ordered.



INSTALLATION, SERVICE AND MAINTENANCE

Directional control valves RSP 7-25 are designed for panel installation. They are being mounted by four screws M12x80 DIN 912-10.9 with torque 70Nm 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

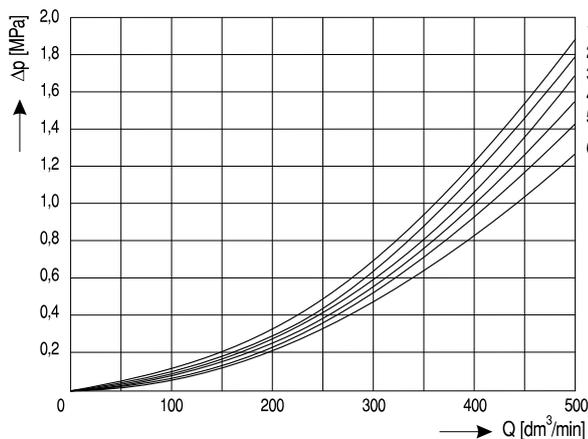
Directional control valves of type RSP 7-25 operated by hand lever are delivered assembled. Spare parts and mounting screws are not included in package. These must be ordered separately.

TECHNICAL DATA

Technical data	Symbol	Unit	Value
Valve size	D_n	mm	25
Maximal flow	Q_{max}	dm ³ /min	500
Maximal operating pressure in ports P, A, B	$P_{max,a}$	MPa	32
Maximal operating pressure in port T	$P_{max,t}$	MPa	25
Pressure drop	Δp	MPa	see pressure drop curves
Viscosity range	ν	m ² /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	20.5 - RSP7-25 xxxxxx - 1 20.5 - RSP7-25 xxxxxx - 2 17.2 - RSP7-25 xxxxxx - 5
Mounting position	as desired		
Service life	10 ⁶ cycles		
Installation dimensions	according to: DIN 24 340 / ISO 4401 / CETOP RP121-H		

PRESSURE DROP

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



Spool type	Respective pressure drop curve No.:				
	P - A	P - B	A - T	B - T	P - T
C1	-	-	-	-	-
Y3	6	4	5	2	-
Y5	6	5	5	2	-
Z5	6	4	6	3	-
Z6	6	6	5	1	-

SPOOL TYPES AND CROSSOVERS

Type	Symbol	Crossover
Y3		
Y5		
C1		
Z5		
Z6		



SPARE PARTS

Seal kit

Type	Dimensions and quantity				
	O-ring				
Standard NBR 70	19.2 x 3 mm (2pcs)	7.6 x 2.3 mm (2pcs)	9.25 x 1,78 mm (4pcs)	46 x 3 mm (2pcs)	26 x 3 mm (2pcs)

Bolt kit

Dimensions and quantity	Torque
M12x80 DIN 912-10.9 (6pcs)	70 [Nm]

NOTES

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

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