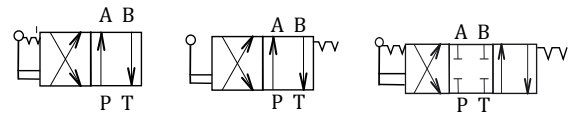




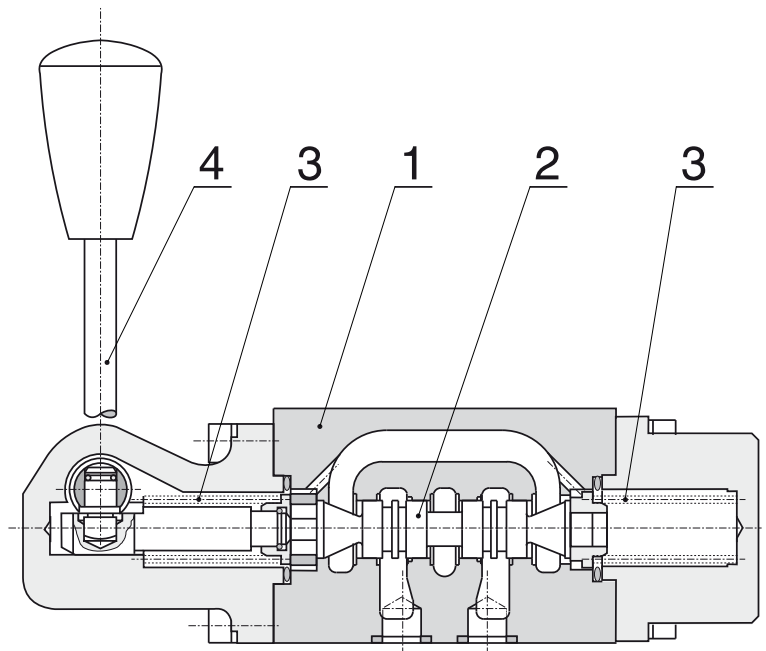
| KE 2053 | 07/13 |

Manually operated directional control valves of type RSP7-06 operated by hand lever are used to control start, stop and direction of fluid in hydraulic systems.

Dn 06, NG 06 | Available with detent assembly |
Manually operated | Proven design | Installation
dimensions according to: CETOP RP 121-H,
ISO 4401, DIN 24340



Hand operated directional control valves of type RSP7-06 are used to control start, stop and direction of fluid in hydraulic systems. They are being manufactured as two-or three-position valves (see Spool Symbols and Crossovers) and consist of valve housing **1** with control spool. The actuating section of the valve consists of the hand lever **4** and one (for 4/2 way) or two (for 4/3 way) springs **3** returning the control spool **2** to the default position. The surface treatment of the valve housing and actuating section is either phosphate coated or spray painted. The hand lever is always made from stainless steel.



The diagram shows a 7-position valve symbol with callouts for each position and a legend. The symbol is a horizontal bar with seven positions, each with a letter or number above it: **R**, **S**, **P**, **7**, **-**, **0**, **6**. Below the bar, there are seven callout lines, each pointing to a specific position. The legend on the right explains the meaning of each position and the symbols used in the legend.

Position	Symbol	Description
1	R	directional control valve
2	S	standard (cast-iron flanges, stainless steel lever)
3	P	manually
4	7	Innovation stage
5	0	Nominal size
6	6	two-position
7	3	three-position

ENVIRONMENTAL RESISTANCE

- 1** standard (cast-iron flanges, stainless steel lever)
- 2** special (dural flanges, stainless steel lever)

VERSION

- 1** with return springs
- 5** with detent assembly

spool type
(see the Spool symbols and crossovers)

INSTALLATION, SERVICE AND MAINTENANCE

Directional control valves RSP7-06 are designed for panel installation. They are being mounted by four screws M5x45 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

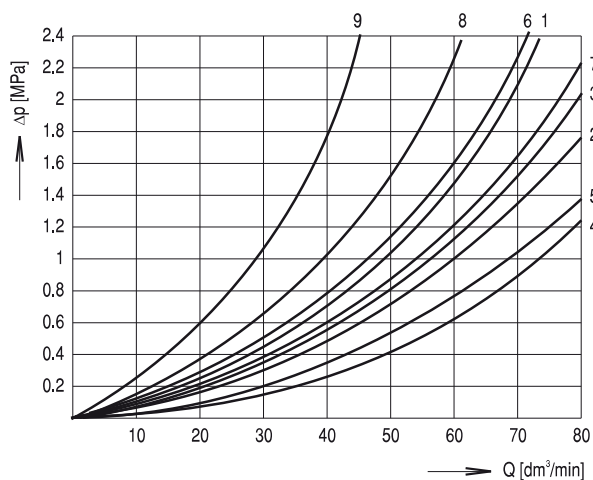
Directional control valves of type RSP7-06 operated by hand lever are delivered assembled. Spare parts and mounting screws are not included in the package. These must be ordered separately.

TECHNICAL DATA

Technical data	Symbol	Unit	Value
Valve size	D_n	mm	6
Maximal flow	Q_{max}	dm ³ /min	curve $Q_{max} = f(p)$
Maximal operating pressure in ports P, A, B	$P_{max,a}$	MPa	32
Maximal operating pressure in port T	$P_{max,t}$	MPa	10
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	-20 up to +70
Ambient temperature range	t_k	°C	-20 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 RSP7-06 xxxx -1 / RSP7-06 xxxx -2	m	kg	1.6/1.35
Mounting position	unrestricted		
Service life	10^6 cycles		
Installation dimensions	according to: DIN 24 340 / ISO 4401 / CETOP RP121-H		

PRESSURE DROP

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



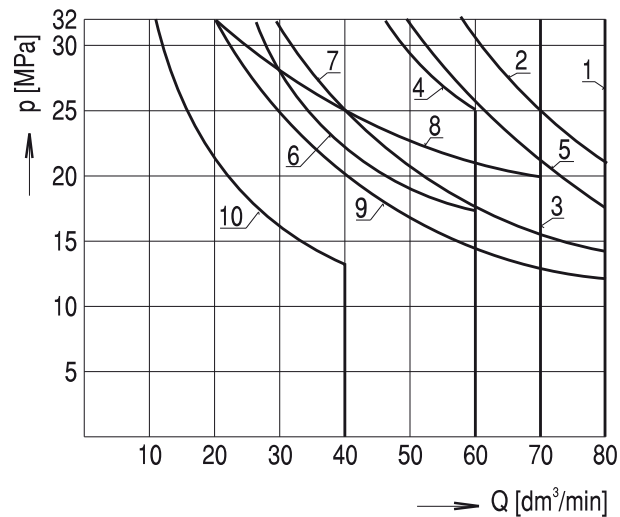
Spool type	Respective pressure drop curve No.:				
	P-A	P-B	A-T	B-T	P-T
Z1	1	1	2	2	-
H1	3	3	4	4	-
Y1	1	1	4	4	-
Y2	1	1	5	5	-
L2	3	1	4	2	-
P1	3	3	2	2	-
B1	1	1	2	4	-
R1	6	6	2	2	-
J1	6	6	2	2	-
R2	7	1	5	4	-
A5	1	1	-	-	-
J7	1	1	-	-	-
C1	3	3	2	2	9
C2	8	8	6	6	9
Z2	3	3	-	2	-
P5	-	3	2	-	-
Y5	-	1	4	-	-



RSP 7-06

OPERATING LIMITS

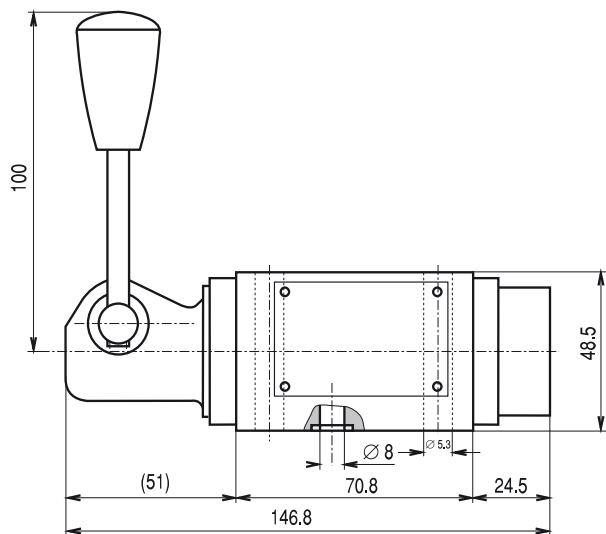
Measured at $t = 50^{\circ}\text{C}$ and $v = 35\text{mm}^2/\text{s}$



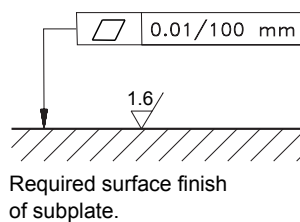
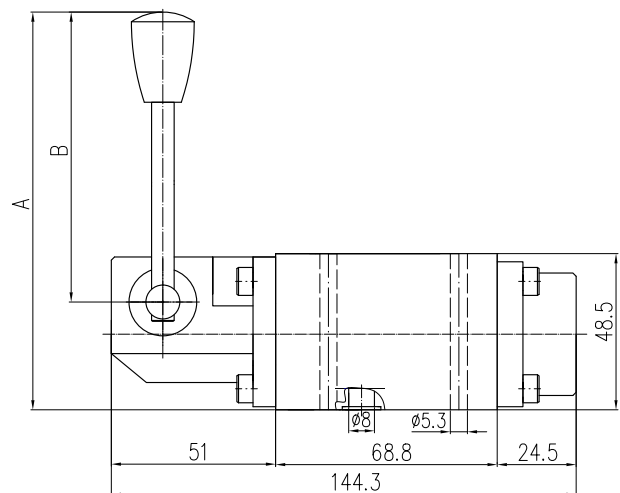
Curve	Spool type
1	Z1, B1, Y2, J1, J2, J7
2	Y1, Y5
3	R2
4	R1
5	A5
6	Z2
7	P1, P5
8	H1
9	C1, C2
10	L2

VALVE DIMENSIONS

Environmental resistance: standard (RSP7-06 xxxx - 1)
width: 45mm



Environmental resistance: special (RSP7-06 xxxx - 2)
width: 45mm

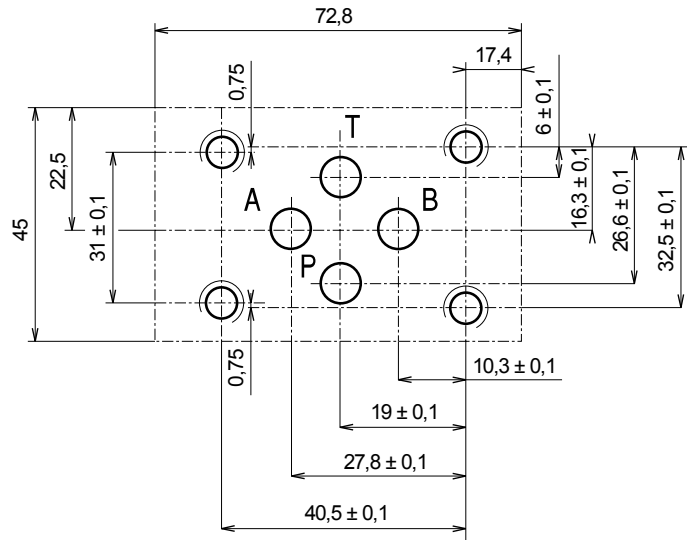


Note: RSP7-06 with special environmental resistance can be ordered with longer hand lever (upon request). Default length B = 100mm

A	125	150	175
B	100	125	150




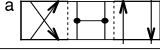
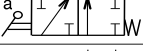
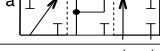

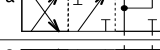
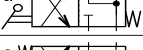

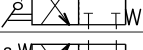
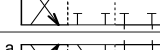

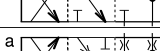


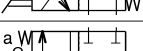
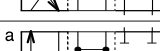
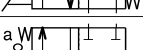
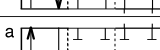

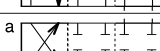

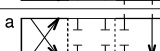

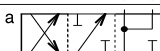


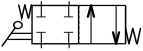
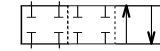

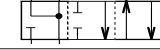



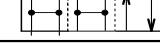




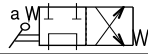
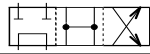
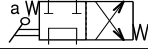
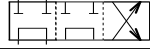

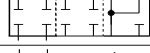
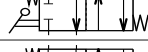
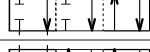



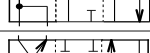

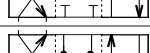
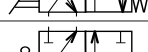

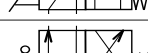

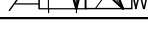
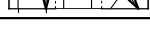
INSTALLATION DIMENSIONS




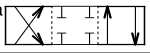

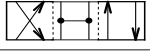

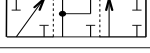

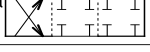

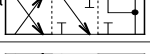
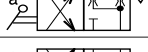
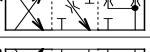
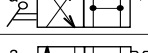
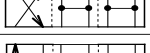

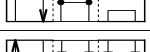
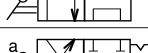
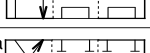

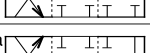
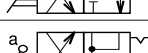
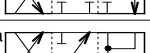

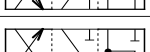

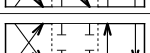

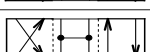
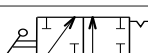
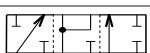
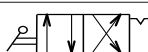
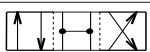
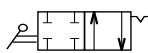
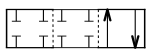
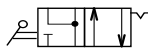
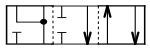
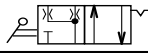
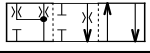


SPOOL TYPES AND CROSSOVERS TWO POSITION


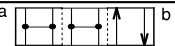

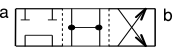

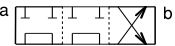
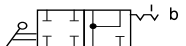
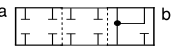

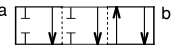
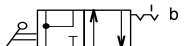
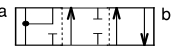

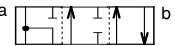
Version: with return springs

Type		Symbol	Crossover
RSP 7-062	AR11		
RSP 7-062	AR21		
RSP 7-062	AA51		
RSP 7-062	AP51		
RSP 7-062	AY51		
RSP 7-062	AZ11		
RSP 7-062	AY11		
RSP 7-062	AY21		
RSP 7-062	AH11		
RSP 7-062	AC11		
RSP 7-062	AC21		
RSP 7-062	AZ21		
RSP 7-062	AB11		
RSP 7-062	AP11		
RSP 7-062	AL21		
RSP 7-062	BZ11		
RSP 7-062	BY11		
RSP 7-062	BY21		
RSP 7-062	BH11		

Type		Symbol	Crossover
RSP 7-062	BC11		
RSP 7-062	BC21		
RSP 7-062	BZ21		
RSP 7-062	BB11		
RSP 7-062	BP11		
RSP 7-062	BL21		
RSP 7-062	BX11		
RSP 7-062	BX21		
RSP 7-062	BV11		
RSP 7-062	BX31		



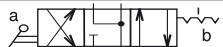
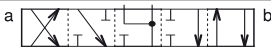
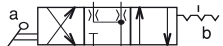
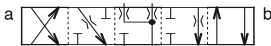

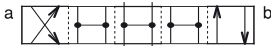
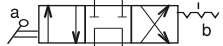
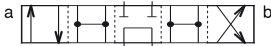
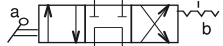
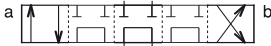

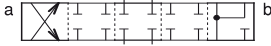
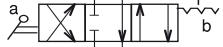
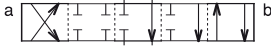
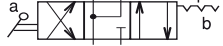
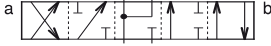

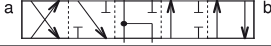
Version with detent assembly

Type		Symbol	Crossover
RSP 7-062	AJ15		
RSP 7-062	AJ25		
RSP 7-062	AJ75		
RSP 7-062	AZ15		
RSP 7-062	AY15		
RSP 7-062	AY25		
RSP 7-062	AH15		
RSP 7-062	AC15		
RSP 7-062	AC25		
RSP 7-062	AZ25		
RSP 7-062	AB15		
RSP 7-062	AP15		
RSP 7-062	AL25		
RSP 7-062	BJ15		
RSP 7-062	BJ25		
RSP 7-062	BJ75		
RSP 7-062	BJ85		
RSP 7-062	BZ15		
RSP 7-062	BY15		
RSP 7-062	BY25		


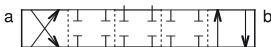

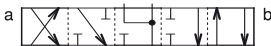
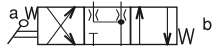
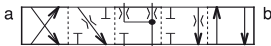

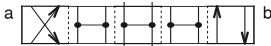
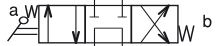
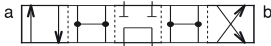

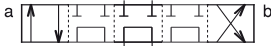
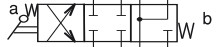
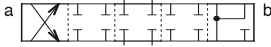

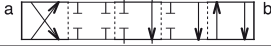
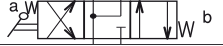
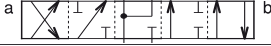

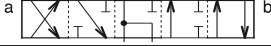
Type		Symbol	Crossover
RSP 7-062	BH15		
RSP 7-062	BC15		
RSP 7-062	BC25		
RSP 7-062	BZ25		
RSP 7-062	BB15		
RSP 7-062	BP15		
RSP 7-062	BL25		

SPOOL TYPES AND CROSSOVERS - THREE POSITION

Version: with detent assembly

Type		Symbol	Crossover
RSP 7-063	Z15		
RSP 7-063	Y15		
RSP 7-063	Y25		
RSP 7-063	H15		
RSP 7-063	C15		
RSP 7-063	C25		
RSP 7-063	Z25		
RSP 7-063	B15		
RSP 7-063	P15		
RSP 7-063	L25		

Version: with return springs

Type		Symbol	Crossover
RSP 7-063	Z11		
RSP 7-063	Y11		
RSP 7-063	Y21		
RSP 7-063	H11		
RSP 7-063	C11		
RSP 7-063	C21		
RSP 7-063	Z21		
RSP 7-063	B11		
RSP 7-063	P11		
RSP 7-063	L21		



SPARE PARTS

Seal kit

Type	Dimensions and quantity	
	O-ring	O-ring
Standard NBR 70	15.6x1.78 mm (2pcs)	9.25x1.68 mm (4pcs)

Bolt kit

Dimensions and quantity	Torque
M5x45 DIN 912-10.9 (4pcs)	14 [Nm]

NOTES

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