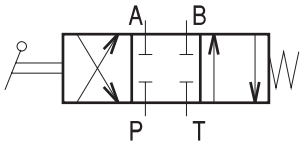
DIRECTIONAL CONTROL VALVE
MANUALLY OPERATED, MODEL RSP 5-10

KE 2038
11/02
replaces 07/97

D_n 10 mm	p_{max} 320 bar	Q_{max} 100 L/min



Manually operated RSP 5-10 are used for control of start, stop and a flow direction.

Advantages:
- mounting pattern according to DIN 24 340-A; ISO 4401; CETOP RP 121-05 (CETOP 5)
- large number of spool types

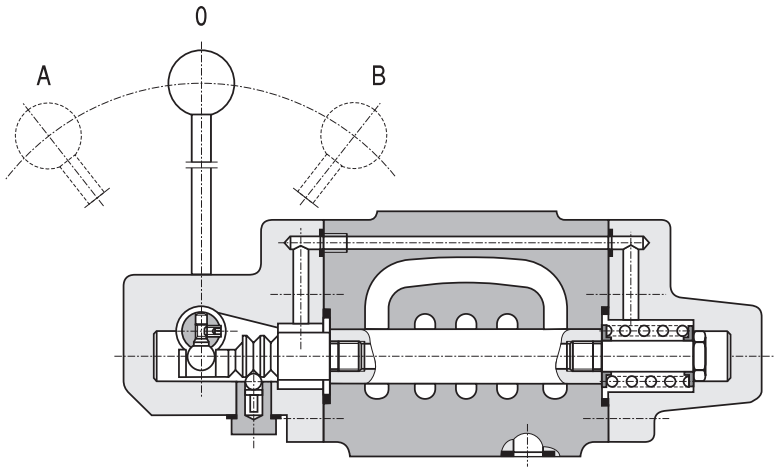
ORDERING CODE

R S P 5 - 1 0 ☐ ☐ ☐☐ ☐ - ☐

Directional control valve	**R S**	
Control method hand lever	**P**	
Innovation stage	**5**	
Nominal size Dn 10 mm	**10**	
Number of working positions 2-position 3-position	**2** 3	
For 2-position valves only	**A** lever motion to "A" channel **B** lever motion to "B" channel	
Spool types (see page 2)		
Locking of the initial position	**1** by spring **5** indefinite position arrested	
	1 Normal design **2** Special (navy) design	

GENERAL DESCRIPTION

Hand lever operated directional control valves type RSP5-10 are used in hydraulic systems for stopping,starting and direction of the working fluid.
They basically consist a housing with precasted channels, spool, flanges,controlling mechanism and its lever, spring and sealing. Directionals with detent are equipped with spool arrestation in addition. They can be mounted into hydraulic systems in any position. The hand lever can be located either perpendicular or parallel to valve axis.



TECHNICAL DATA

Technical data	Symbol	Unit	RSP 5-10
Nominal size	D_n	mm	10
Maximal flow	Q_{max}	L/min	100
Max. operating pressure in ports P, A, B	p_{max}	bar	320
Max. operating pressure in port T	p_{max}	bar	250
Pressure drop	Δp	bar	curve $\Delta p = f(Q)$
Hydraulic medium			mineral oil (HL, HLP) by DIN 51 524
Oil viscosity range	ν	m^2s^{-1}	$10 \cdot 10^{-6}$ up to $400 \cdot 10^{-6}$
Fluid filtration	a) class 9 acc. to NAS 1638 or 18/15 acc. to ISO 4406 b) fluid filtration with $\beta_{20} \geq 100$ is recommended		
Fluid temperature range	t_{po}	°C	–20 up to +80
Environment temperature range	t_k	°C	–20 up to +60
Handle Force start/end Position	F	N	15/25
Weight	m	kg	7.4

Note: All parametres measured with oil OH-HM 68 at temperature 50°C and viscosity 35 $mm^2 s^{-1}$.

DELIVERY, MATERIAL, SURFACE TREATMENT

Directional control valves are supplied in assembled configuration. Only hand lever is dismounted. Instruction manual is delivered with each valve. Neither spare parts nor fixing bolts M6×50 DIN 912-8.8 are delivered with valve. These bolts as well as connecting sublate,if used, must be ordered separately. Surface is phosphated. The value top coat can be carried out in agreement with producer. Production materials used are caste iron, steel, stainless steel.

TABLE OF SPOOL TYPES

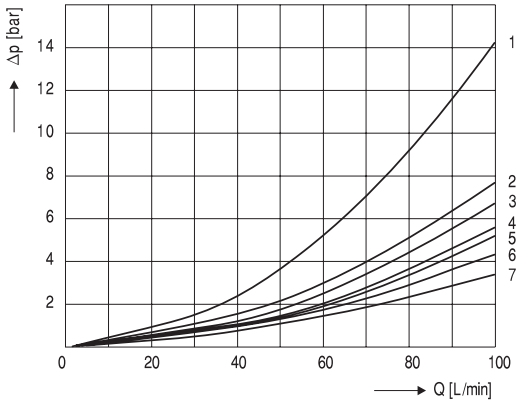
Type	Symbol	Interpositions
Y1		
C1		
H1		
Z1		
B1		

Type	Symbol	Interpositions
L2		
N1		
P1		
Y2		
Z2		

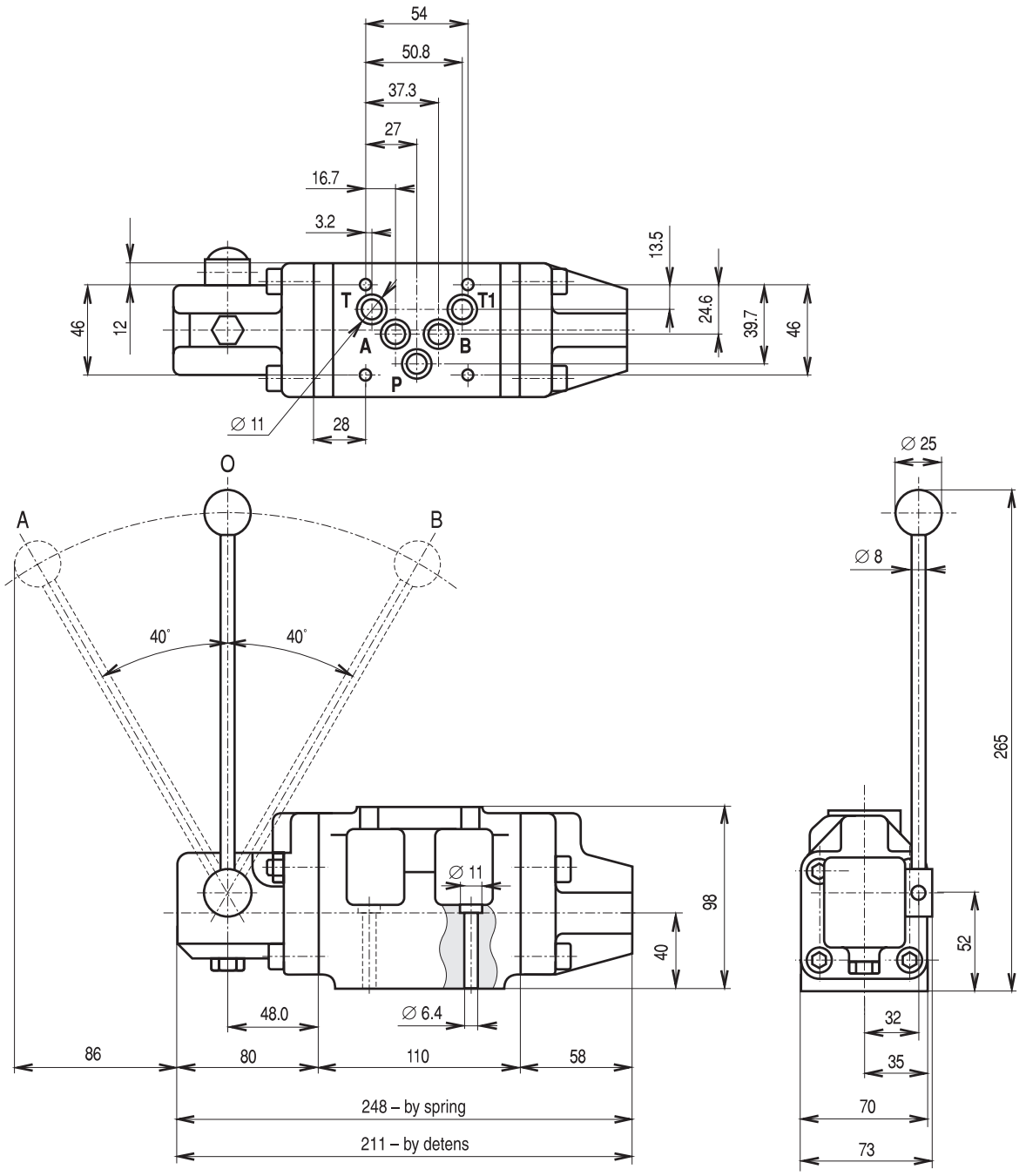
PRESSURE DROPS

Measured at ν = 35 mm²/s; t = 50 °C

Spool type	Pressure drop according to curve				
	P – A	P – B	A – T	B – T	P – T
C1	5	5	6	6	1
Y1	3	4	5	6	–



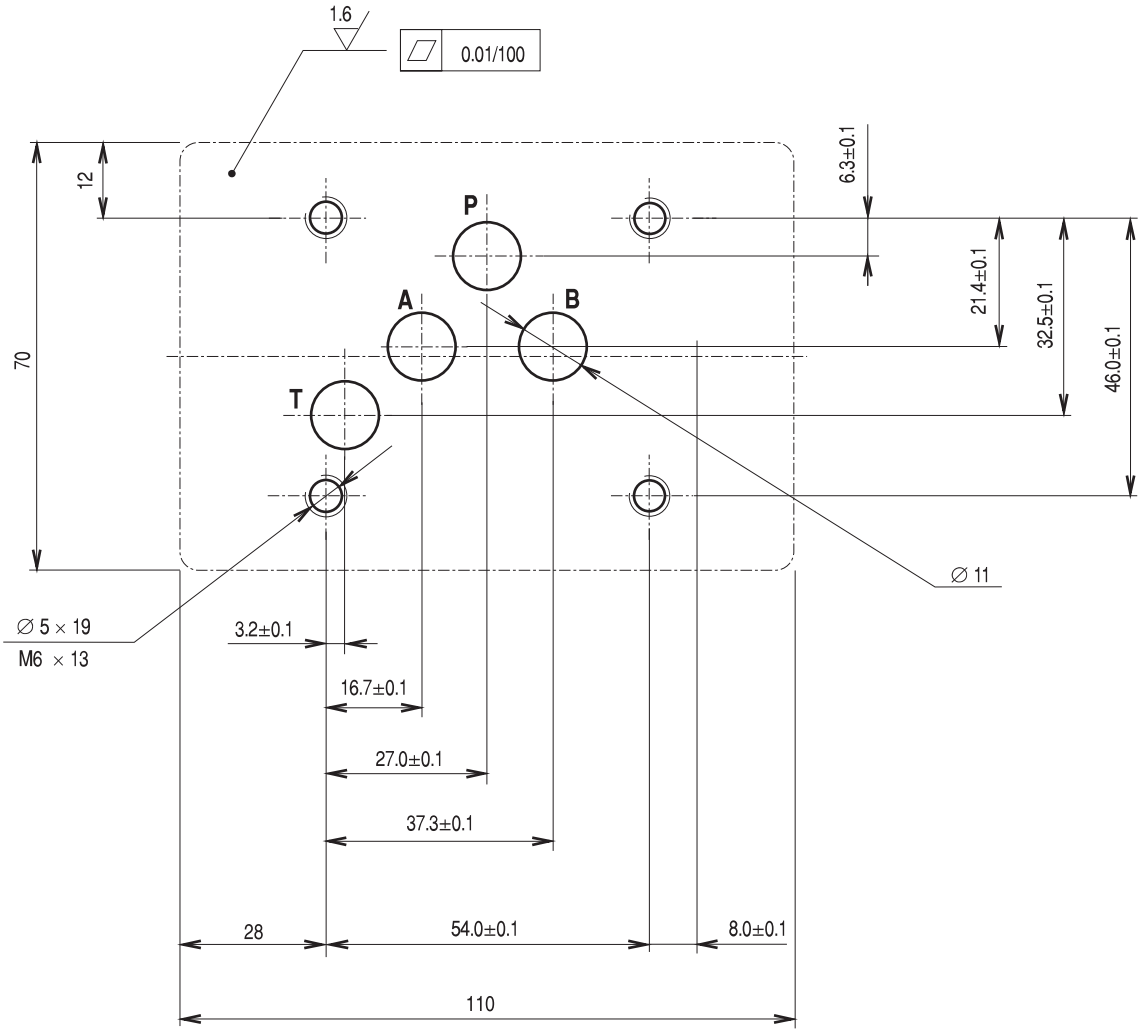
UNIT DIMENSIONS



Note: Sealing between valve and matting surface is assured with O-ring 12.42×1.78 for P, A, B, T, T1

INSTALATION (VIEW TOWARDS PANEL)

all dimensions in [mm]



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