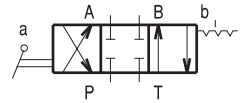
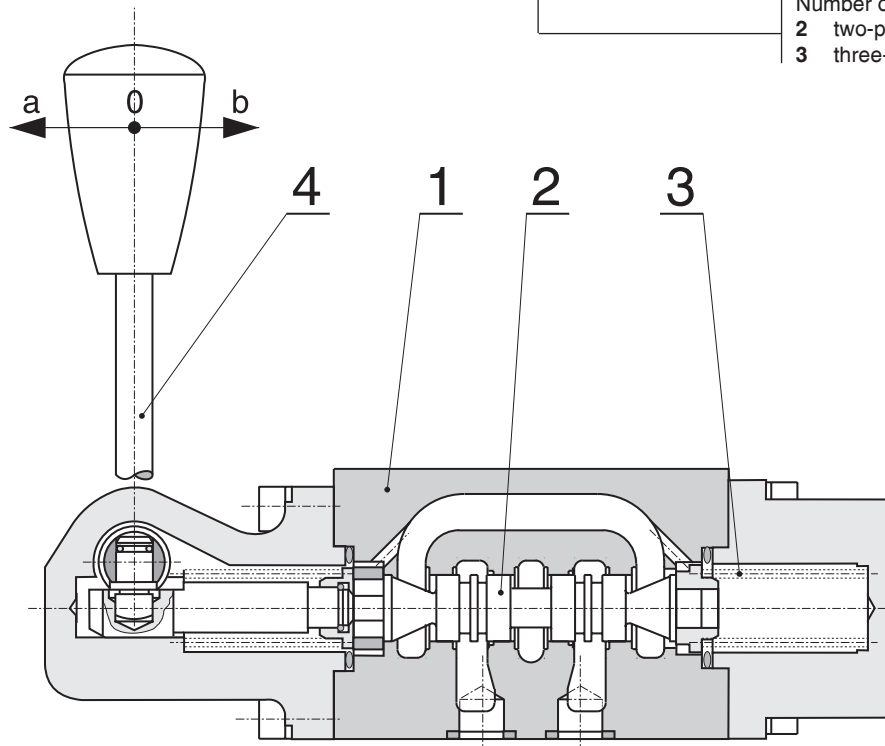
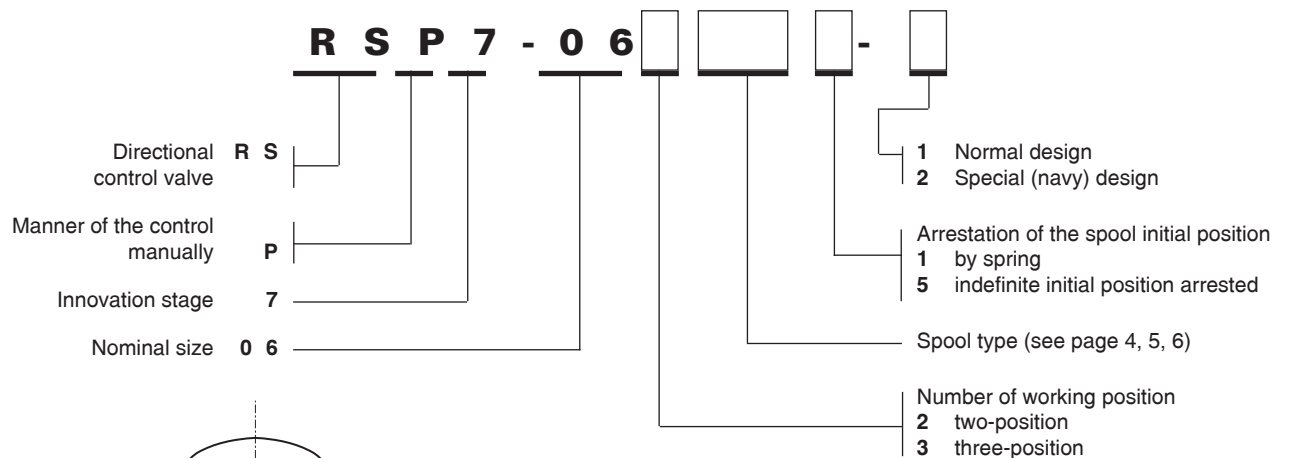


	DIRECTIONAL CONTROL VALVE MODEL RSP 7-06			KE 2053
				11/02
	D_n 06	P_{max} 320 bar	Q_{max} 80 L/min	replaces 09/97



- hydraulic directional control valve hand lever controlled
- directing and stopping flow in the hydraulic system
- Mounting interface to DIN 24 340-A, ISO 4401, CETOP RP 121H-03 (CETOP 3)

ORDERING CODE

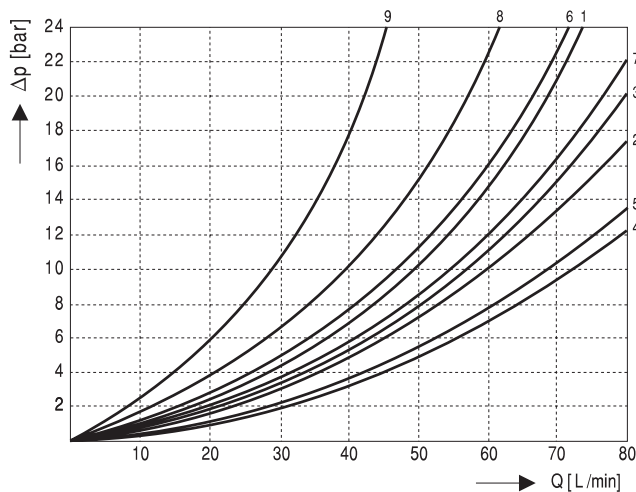


GENERAL DESCRIPTION			
These directionals are designed as kit; it means that they consist basically of the directional and control units. The directional unit of the three-position and two-position directional has the identical design and always is created by housing 1 and cylindrical spool 2. The control unit always is created by two springs 3 and two flanges. Into one of this flange there is control lever 4 built-in, mounted on the rotary pin. Two-position directionals have in addition a stop located in this flange which limits just two position		of the directional.Sliding of the both arrested and non-arrested spools is solved with two variants of the shape of the pin head which is installed into rotary pin. Two variants of corresponding recesses are made onto draw bar. The design of directional control valve assures the appropriate interconnection of the pressure and non- pressure oil. The different variants of the interconnection are created with using of the different shape of the control spool.	
INSTALLATION, SERVICE AND MAINTENANCE			
The directional control valve is fixed with four bolts M5×60 DIN 912-8.8 torqued to 8 Nm. Required surface finish of mating pieces should be 0.01/100 mm with roughness of $R_a=1.6\text{ }\mu\text{m}$ max. These directionals are designed for the panel installation. With		subplate using they can be used for pipeline connection directly. The reliability of the directionals is tightly connected with assuring of described filtration in both working fluid and ambient temperature range. They can be installed in any position.	
DELIVERY, MATERIAL, SURFACE TREATMENT			
Directional control valves are delivered in assembly configuration including sealing rings and solenoids. Surface is phosphated. The valve top coat can be carried out in agreement with the producer. Each directional valve is delivered with instruction manual. It is not economically viable to repair the directionals.		Spare parts are not delivered. Fixing bolts, subplates and kit of spare sealing rings must be ordered separately. (Subplates according to KE 7006 page of the catalogue). Production materials used are cast iron, steel.	
TECHNICAL DATA			
Technical data	Symbol	Unit	Value
Nominal size	D_n	mm	6
Maximal flow	Q_{max}	L/min	curve $Q_{max} = f(p)$
Maximal operating pressure in ports P, A, B	p_{max}	bar	320
Maximal operating pressure in port T	p_{max}	bar	100
Pressure drop	Δp	bar	curve $\Delta p = f(Q)$
Hydraulic medium			mineral oil (HL, HLP) by DIN 51 524
Oil viscosity range	ν	m^2/s	$10 \cdot 10^{-6}$ up to $400 \cdot 10^{-6}$
Fluid filtration	a) class 9 according to NAS 1638, 18/15 according 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
Weight	m	kg	1.6
OPERATION LIMITS $Q_{max} = f(p)$			

OPERATION LIMITS $Q_{max} = f(p)$

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

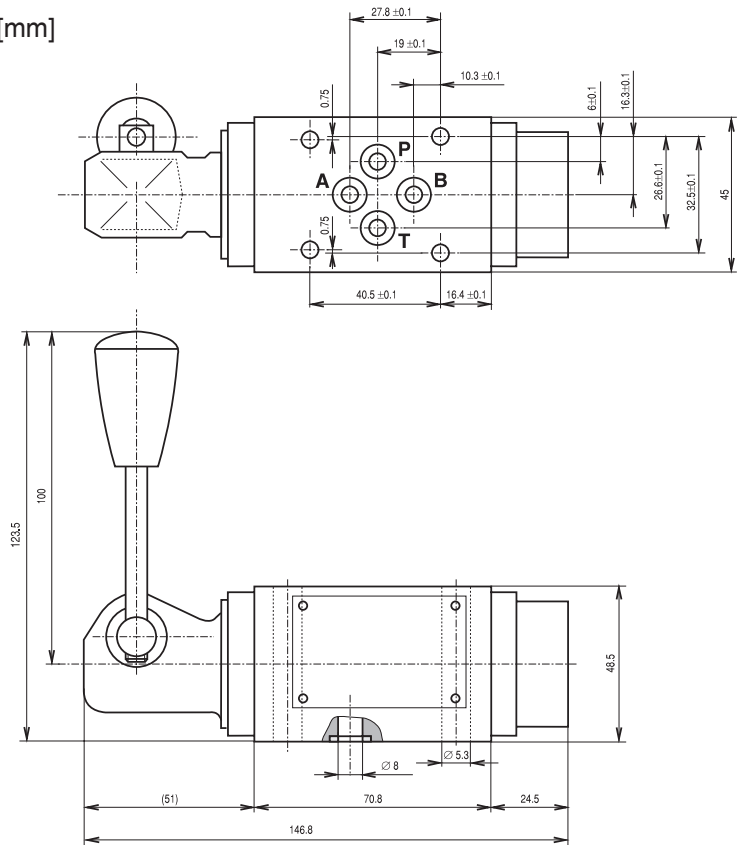
PRESSURE DROP $\Delta p = f(Q)$



Type	Pressure drop in accordance of 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	-	-

UNIT DIMENSIONS

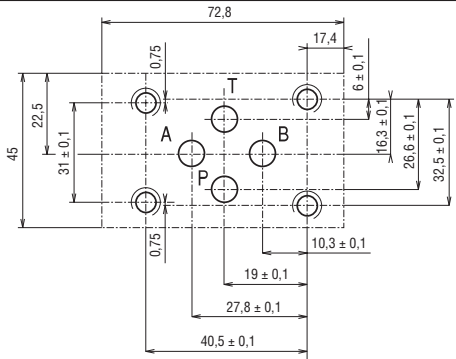
all dimensions in [mm]



INSTALLATION DIMENSIONS

Mounting surface according to ISO 4401,
DIN 24 340-A, CETOP 3

*Note: For all valve types the O-ring size 9.25 × 1.78 – NBR 80
is used for ports P, A, B, T*



SPOOL TYPES - TWO POSITION

Initial position assured by spool spring.

Type		Symbol	Interposition
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		
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		

Initial position indefinite with arrestation

Type		Symbol	Interposition
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		
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 - THREE POSITION

Initial position indefinite with arrestation

Type		Symbol	Interposition
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		

Initial position assured by spool spring.

Type		Symbol	Interposition
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		