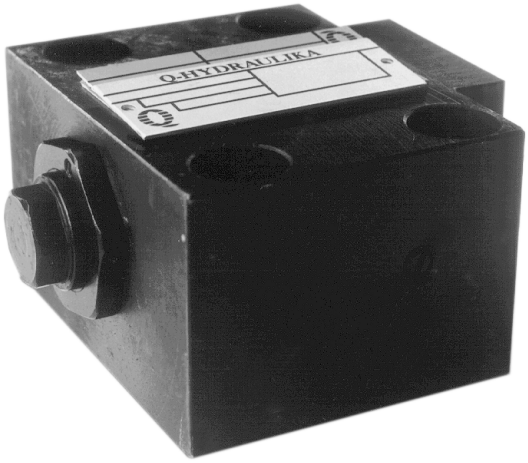
CHECK VALVE TYPE UZSB 06
PILOT OPERATED

WK 450 184

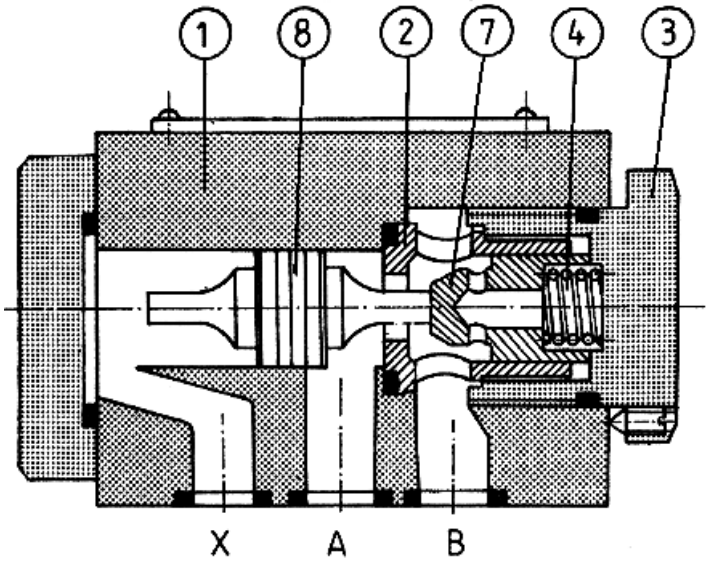
Size 06	up to 32 MPa	20 dm^3/min

04.1999r.

Pilot operated check valves for subplate mounting are used in the hydraulic systems when free flow in one direction and automatic closure in the opposite direction are required. There is a possibility of opening in the direction of closure. The valves can be mounted in any desired position together with a subplate. Sealing is achieved by fitting O-rings, which are included with the valve.



DESCRIPTION OF FUNCTION



The plug 3 being the seat for the spring 4 is fitted in the housing 1. The main poppet 7 is held seated by the spring. If pressure difference at port A exceeds the cracking pressure determined by the spring, the poppet is pushed from its seat and connection A to B is open.

When pressure is applied to port X oil can also flow through the valve from B to A. When pressure affects control port X, the pilot spool 8 and then the main poppet are pushed from their seats. Fluid can flow from B to A as long as pilot pressure affects port X.

TECHNICAL DATA

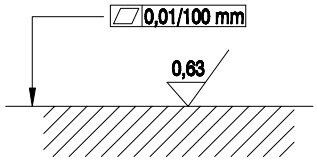
Hydraulic fluid	Mineral oil or phosphate ester
Nominal fluid viscosity	37 mm^2/s at the temperature of 328 K
Viscosity range	2.8 to 380 mm^2/s
Optimum working temperature(fluid in a tank)	313 - 328 K
Fluid temperature range	243 - 343 K
Required fluid filtration	16 μm
Recomended fluid filtration	10 μm
Maximum working pressure	32 MPa
Cracking pressure	0.05 MPa
Maximum pilot pressure	32 MPa
Weight	0.9 kg

CONTROL AREAS

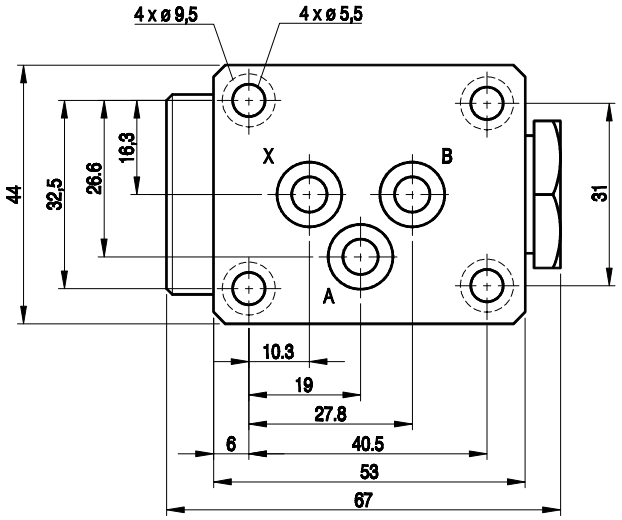
F_1 - main poppet surface area
F_2 - control spool surface area
C - pressure affecting area F_2 , required for exceeding the spring force.

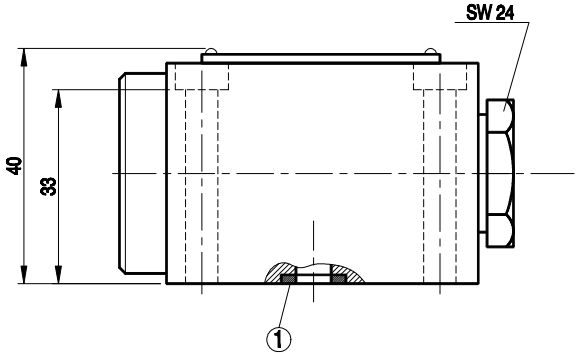
F_1 (cm^2)	F_2 (cm^2)	C (MPa)
0,38	1,13	0,07

OVERALL DIMENSIONS



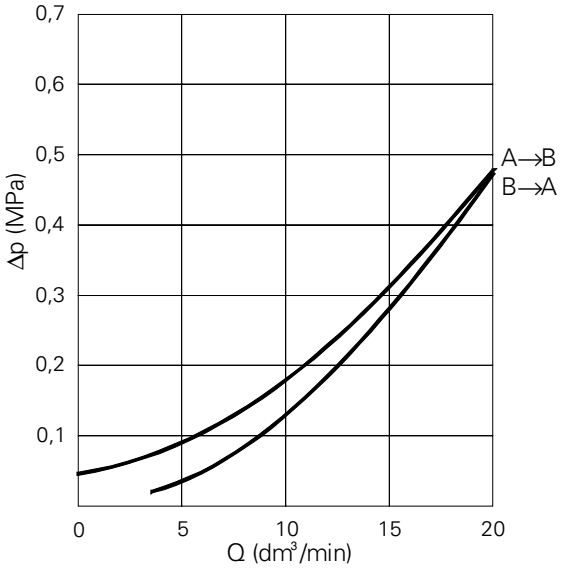
Admissible surface roughness and flatness deviation for a subplate face.





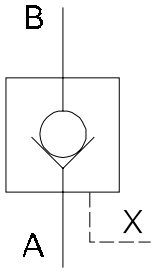
Item 1 - O-ring 9.2 × 1.8 - 3 pieces

PERFORMANCE CURVES, measured at ν = 41 mm²/s and T = 323 K

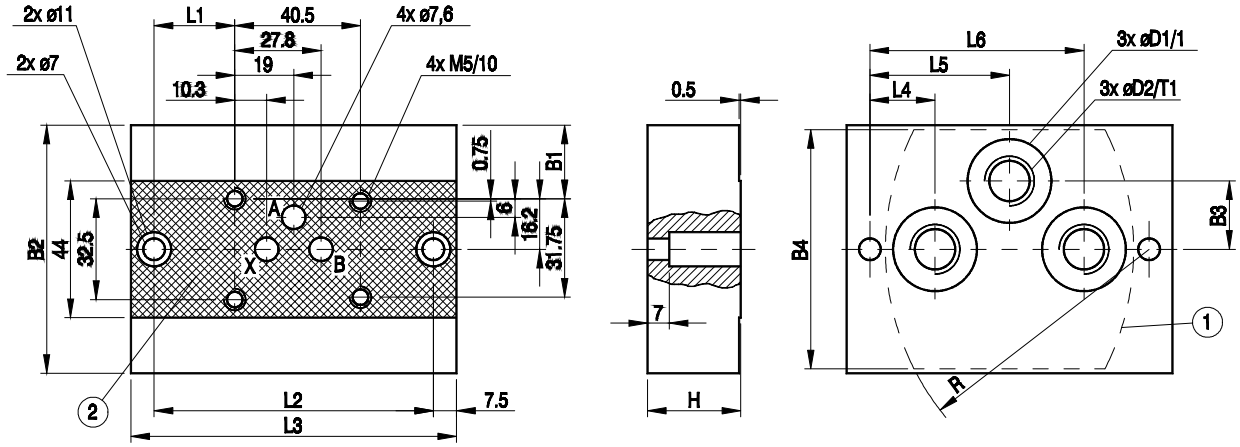


SCHEMES

Hydraulic scheme



CONNECTION DIMENSIONS FOR SUBPLATE



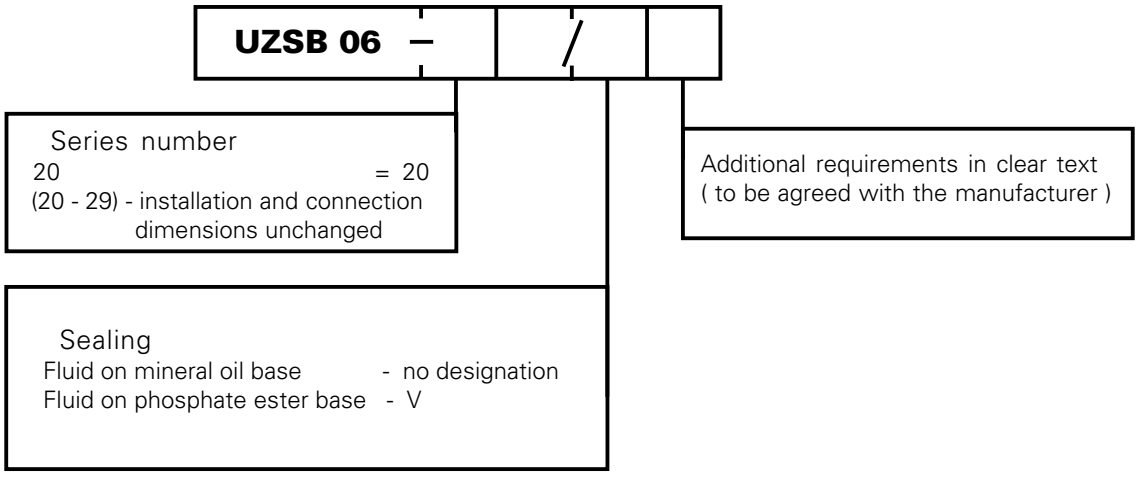
item 1 - recess in subplate
item 2 - interface

Type	L1	L2	L3	L4	L5	L6	B1	B2	B3	B4	H1	D1	D2	T1	R
G342/01	26	90	105	21	45	69	23.7	80	22	77	30	28	G3/8	13	85
G341/01	21	80	95	25	40	55	12.7	58	17	55	25	22	G1/4	13	70
G341/02	21	80	95	25	40	55	12.7	58	17	55	25	22	M14 × 1.5	15	70
G342/02	26	90	105	21	45	69	23.7	80	22	77	30	28	M16 × 1.5	16	85

Mounting the valve to the subplate by means of 4 bolts M5 x 40 - 10.9 PN - 74 / M - 82302 (DIN 912).
Tightening torque - 10 Nm. Subplate and mounting bolts must be ordered separately.

HOW TO ORDER

Orders coded in the way showed below should be forwarded to the manufacturer.



Coding example : UZSB 06 - 20/X

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