

CHECK VALVE TYPE UZSB 06 PILOT OPERATED

WK 450 184

Size 06

up to 32 MPa

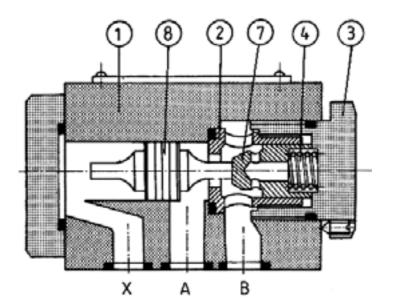
20 dm³/min

04.2001r.

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

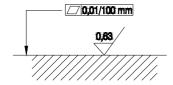
Hydraulic fluid	Mineral oil or phosphate ester
Nominal fluid viscosity	37 mm²/s at the temperature of 328 K
Viscosity range	2.8 to 380 mm ² /s
Optimum working temperature(fluid in a tank)	313 - 328 K
Fluid temperature range	243 - 343 K
Required fluid filtration	16 μm
Recomended fluid filtration	10 μm
Maximum working pressure	32 MPa
Cracking pressure	0.11 MPa
Maximum pilot pressure	32 MPa
Weight	0.9 kg

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

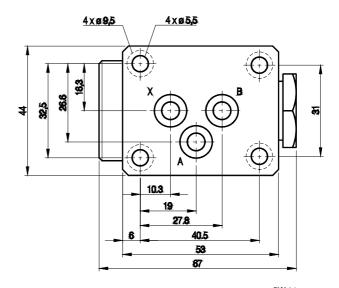
CONTROL AREAS

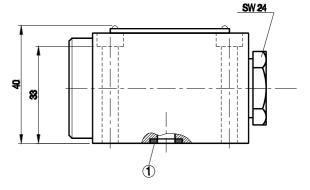
F1(cm²)	F2 (cm ²)	C (MPa)			
0,38	1,13	0,07			

OVERALL DIMENSIONS



Admissible surface roughness and flatness deviation for a subplate face.

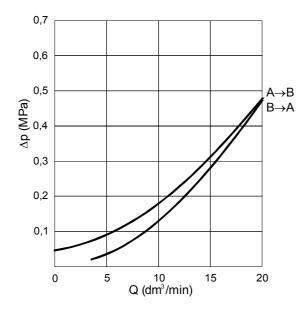




Item 1 - O-ring 9.2×1.8 - 3 pieces

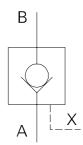
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PERFORMANCE CURVES, measured at v = 41 mm²/s and T = 323 K

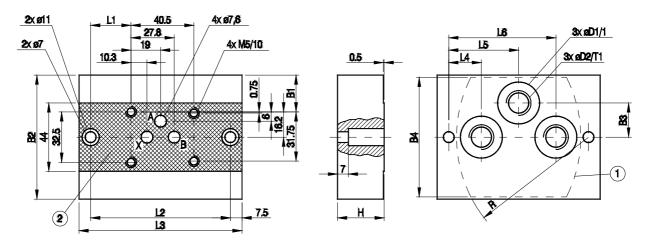


SCHEMES

Hydraulic scheme



CONNECTION DIMENSIONS FOR SUBPLATE



item 1 - recess in subplate

item 2 - interface

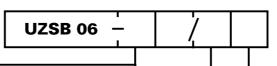
Туре	L1	L2	L3	L4	L5	L6	B1	B2	Вз	B4	H1	D1	D2	T1	R
G342/01	26	90	105	21	45	69	23.7	80	22	77	30	28	G3/8	13	85
G341/01	21	80	95	25	40	55	12.7	58	17	55	25	22	G1/4	13	70
G341/02	21	80	95	25	40	55	12.7	58	17	55	25	22	M14 × 1.5	15	70
G342/02	26	90	105	21	45	69	23.7	80	22	77	30	28	M16 × 1.5	16	85

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

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HOW TO ORDER Orders coded in the way

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



Series number

20

= 20

(20 - 29) - installation and connection dimensions unchanged

Additional requirements in clear text (to be agreed with the manufacturer)

Sealing

Fluid on mineral oil base

- no designation

Fluid on phosphate ester base - V

Coding example: UZSB 06 - 20/X

PONAR WADOWICE S.A. ul. Wojska Polskiego 29 34-100 Wadowice tel. 033/ 823 39 43, 823 30 41 fax 033/ 873 48 80 e-mail: ponar@ponar-wadowice.pl



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