Check valve type B

Pressure $p_{max} = 500 \text{ bar}$ Flow $Q_{max} = 160 \text{ lpm}$



1. General

Check valves block the flow in one direction whilst permitting free flow in the opposite direction (DIN ISO 1219-1).

2. Available versions, main data

				Pressure P _{max} (bar)	Flow Q _{max} (lpm)
Coding and main data	B1-1	B 2 - 1	B3-1		15
	B1-2	B 2 - 2	B3-2		20
	B1-3	B 2 - 3	B3-3		30
	B 1 - 4	B 2 - 4	B3-4	500	45
	B1-5	B 2 - 5	B3-5		75
	B 1 - 6	B 2 - 6	B3-6		120
	B 1 - 7	B 2 - 7	B3-7		160

Design Spring-loaded, leakage free ball seated valve

Mounting Type B 1 and B 3 with tapped journal, type B 2 is for in-line installation

Mass (weight) See unit dimensions in sect. 3

Pressure fluid Hydraulic oil conforming DIN 51 514 part 1 to 3: ISO VG 10 to 68 conforming DIN 51 519.

Viscosity limits: min. approx. 4, max. approx. 1500 mm²/s;

optimal operation approx. 10 ... 500 mm²/s.

Also suitable are biologically degradable pressure fluids types HEPG (Polyalkylenglycol) and HEES

(Synth. Ester) at service temperatures up to approx. +70 °C.

Temperature Ambient: approx. -40 ... +80°C

Fluid: -25 ... +80°C, note viscosity range

Permissible temperature during start: -40°C (Note Start-viscosity!), as long as the service temperature

is at least 20K higher for the following operation.

Biological degradable pressure fluids: Note manufacturers information. Due the seals compatibility not

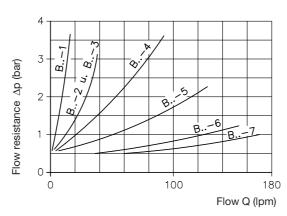
above +70°C.

Opening pressure approx. 0.4 to 0.5 bar

B 2-2 and B 3-2 also available with an opening pressure of 3 bar

(order coding e.g. B 2-2 - 3 bar)

Δp-Q-Characteristic



Oil viscosity during measurement approx. 30 mm²/s

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3. Unit dimensions

SW = a/f

		Ports DIN ISO 2			_		Mass (weight)	
	Type	G	G1	L	I	l1	SW	approx. (kg)
	B 1-1	G 1/4	G 1/4 A	50	12	12	19	0.1
_ 	B 1-2	G 3/8	G 3/8 A	58	12	13	24	0.2
	B 1-3	G 1/2	G 1/2 A	60	12	16	27	0.2
	B 1-4	G 3/4	G 3/4 A	70	16	16	36	0.4
sw lı	B 1-5	G 1	G1A	94	18	20	41	0.7
L	B 1-6	G 1 1/4	G 1 1/4 A	110	20	23	55	1.3
	B 1-7	G 1 1/2	G 1 1/2 A	115	22	25	60	1.5
	B 2-1	G 1/4		55		12	19	0.1
	B 2-2	G 3/8		62		12	24	0.2
<u> </u>	B 2-3	G 1/2		70		16	27	0.2
	B 2-4	G 3/4		77		16	36	0.4
sw lı	B 2-5	G 1		102		20	41	0.7
L	B 2-6	G 1 1/4		120		23	55	1.5
	B 2-7	G 1 1/2		122		24	60	1.8
	B 3-1	G 1/4	G 1/4 A	60	12	12	19	0.1
	B 3-2	G 3/8	G 3/8 A	67	12	13	24	0.2
	B 3-3	G 1/2	G 1/2 A	66	12	14	27	0.2
	B 3-4	G 3/4	G 3/4 A	58	16	16	36	0.3
SW II	B 3-5	G 1	G1A	114	18	21	41	0.8
L	B 3-6	G 1 1/4	G 1 1/4 A	130	20	23	55	1.7
	B 3-7	G 1 1/2	G 1 1/2 A	136	22	25	60	2.0

All dimensions in mm, subject to change without notice!

4. Note for installation

Check valves at return pipe ends

If the check valves are installed as final elements in return pipes, e.g. to prevent running empty of the pipes, they are capable of maintaining a head of oil H=4 meter.

However, bearing in mind the tolerances on the spring preload, only about 75% of this load should be assumed in calculations.

