

Check Valve with Flanges

Fig. 003

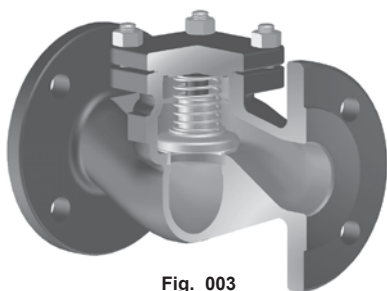
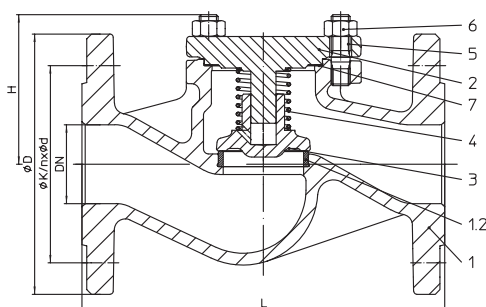


Fig. 003



Features:

- Solid plug/valve plate made of stainless material
- Solid seat made of stainless material
- Re-setting spring made of stainless steel
- Precise plug/valve plate guidance

Figure	Nom. pressure	Material	Nom. diameter
10.003	PN6	EN-JL1040	DN15-200
12.003 / 12.303	PN16	EN-JL1040	DN15-300
22.003 / 22.003	PN16	EN-JS1049	DN15-350
23.003 / 23.303	PN25	EN-JS1049	DN15-150
34.003 / 34.303	PN25	1.0619+N	DN15-500
35.003 / 35.303	PN40	1.0619+N	DN15-500

Set pressure 0,1 bar

Fig. 303: Trim made of RG/MS:

CuZn35Ni3Mn2AlPb, CW710R code number 02 CuSn10-Cu, CC480K code number 03 (max. operating temperature: 180°C, code number acc. to DIN 86251)

Test: • German TA - Luft TÜV-Test-No. 922-9204866

Selection of possible applications

Industry, power stations, flue gas purification plant, vapour facilities, recycling facilities, shipbuilding, general plant manufacturing (other applications on request)

Selection of possible flow media

Steam, gases, liquids, etc. (other flow media on request)

Dimensions

	DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
L	(mm)	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100	1350
H	(mm)	70	70	80	80	85	95	110	130	155	165	215	285	325	365	420	430	530
Kvs-value	(m³/h)	5.7	7.8	11.8	17.9	27.5	48.0	77.6	109	168	251	389	664	1017	1446	2042	2725	4167
Zeta-value	--	2.5	4.2	4.5	5.2	5.4	4.3	4.7	5.5	5.7	6.2	5.3	5.8	6.0	6.2	5.7	5.5	5.7

Zeta-value ... range of tolerance for Kvs-values acc. to VDI/VDE 2173

Material

Pos.	Description	Fig. 10./12.003	Fig. 10./12.303	Fig. 22./23.003	Fig. 22./23.303	Fig. 34./35.003	Fig. 34./35.303
1	Body	EN-JL1040, EN-GJL-250		EN-JS1049, EN-GJS-400-18U-LT		GP240GH+N, 1.0619+N	
1.2	Seat ring	DN ≤50: X20Cr13+QT, 1.4021+QT DN >50: G19 9 Nb Si, 1.4551	CuSn10-Cu, CC480K code number 03	DN ≤50: X20Cr13+QT, 1.4021+QT DN >50: G19 9 Nb Si, 1.4551	CuSn10-Cu, CC480K code number 03	DN ≤50: X20Cr13+QT, 1.4021+QT DN >50: G19 9 Nb Si, 1.4551	CuSn10-Cu, CC480K code number 03
2	Cover	EN-JL1040, EN-GJL-250		EN-JS1049, EN-GJS-400-18U-LT		GP240GH+N, 1.0619+N	
3	Plug	DN ≤200: X20Cr13+QT, 1.4021+QT DN >200: P265 GH, 1.0425 / G19 9 Nb Si, 1.4551		DN ≤200: X20Cr13+QT, 1.4021+QT DN >200: P265 GH, 1.0425 / G19 9 Nb Si, 1.4551		DN ≤200: X20Cr13+QT, 1.4021+QT DN >200: P265 GH, 1.0425 / G19 9 Nb Si, 1.4551	
4	Spring	X10CrNi18-8, 1.4310		X10CrNi18-8, 1.4310			
5	Hexagon bolt	5.6		--			
5	Stud	--		25CrMo4, 1.7218			
6	Hexagon nut	--		C35E, 1.1181			
7	Gasket	Pure graphite (CrNi laminated with graphite)					

Pressure Temperature Rating

Material	PN		-60°C to <-10°C	-10°C to 120°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
EN-JL1040	6	(bar)	--	6	5.4	4.8	4.2	3.6	--	--	--
	16	(bar)	--	16	14.4	12.8	11.2	9.6	--	--	--
EN-JS1049	16	(bar)	on request	16	15.5	14.7	13.9	12.8	11.2	--	--
	25	(bar)	on request	25	24.3	23	21.8	20	17.5	--	--
Material	PN		-60°C to <-10°C	-10°C to 120°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
1.0619+N	25	(bar)	18.7	25	23.9	22	20	17.2	16	14.8	8.2
	40	(bar)	30	40	38.1	35	32	28	25.7	23.8	13.1
1.0460	25	(bar)	18.7	25	23.9	22	20	17.2	16	14.8	10
	40	(bar)	30	40	38.1	35	32	28	25.7	23.8	16

*last updated 10/16

