



Type VC65
DN 15 – 400
PN16-PN 40

Lift Check Valve

Butt-Welded, Flanged

Data Sheet

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Application

- Self-acting closing element; in case of “A” class leakage, an additional on-off valve should be added to the piping.
- **Fluids**
Water, steam, air, gas
- **Industry**
Power engineering, chemical and petrochemical industry

Technical description

- Lift check valve is self-acting by pressure of the working medium on the plug, which prevents reverse flow and temperature or pressure shocks, achieved by the spring above the plug
- Direction of flow is under the plug

Testing

- The valves are pressure tested by water for strength and tightness in accordance with EN-12266
Certification: PED/97/23/EC
- The minimum pressure for the strength testing is 1,5 x PN

Installation

- Lift check valve installation be installation to horizontal
- Direction of flow see body mark

Connection

- Butt-welded according to EN-12627, flanged according to EN-1092-1 or according to customer request
- Face to face dimension is according to EN-558-1 (DIN 3202 F1 Series)

Materials of main parts

Pos.	Name	Material
1	Body	1.0619 (A216 WCB), 1.7357 (A217 WC6), 1.4408 (A351 CF8M)
2	Seat	13Cr, STL
3	Stem	GRAPHITE+SS304, SS316
4	Gasket	SS304, SS316
5	Bonnet	1.0619 (A216 WCB), 1.7357 (A217 WC6), 1.4408 (A351 CF8M)
6	Bolt	A193 B7, A193 B16, A193 B8M
7	Eyebolt	C.S

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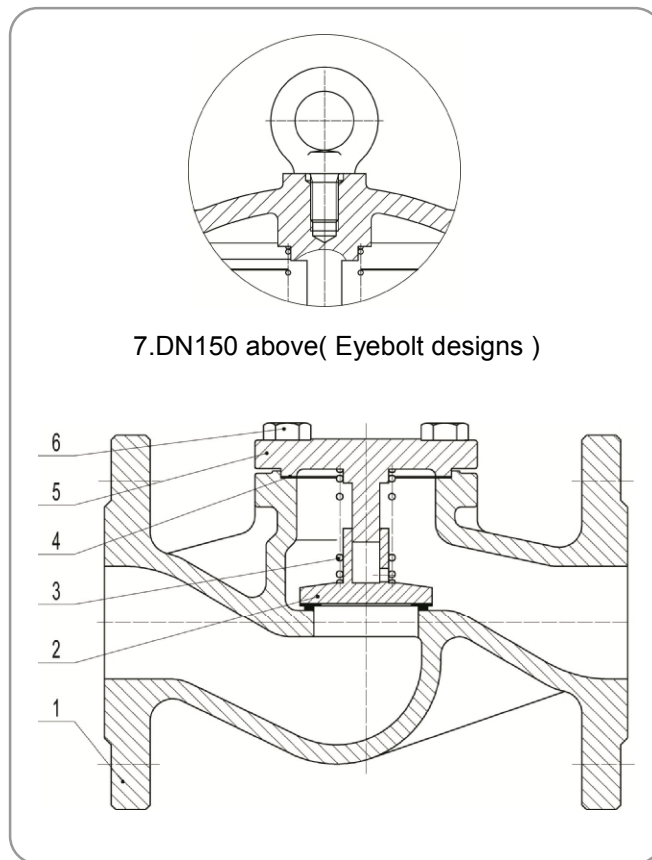
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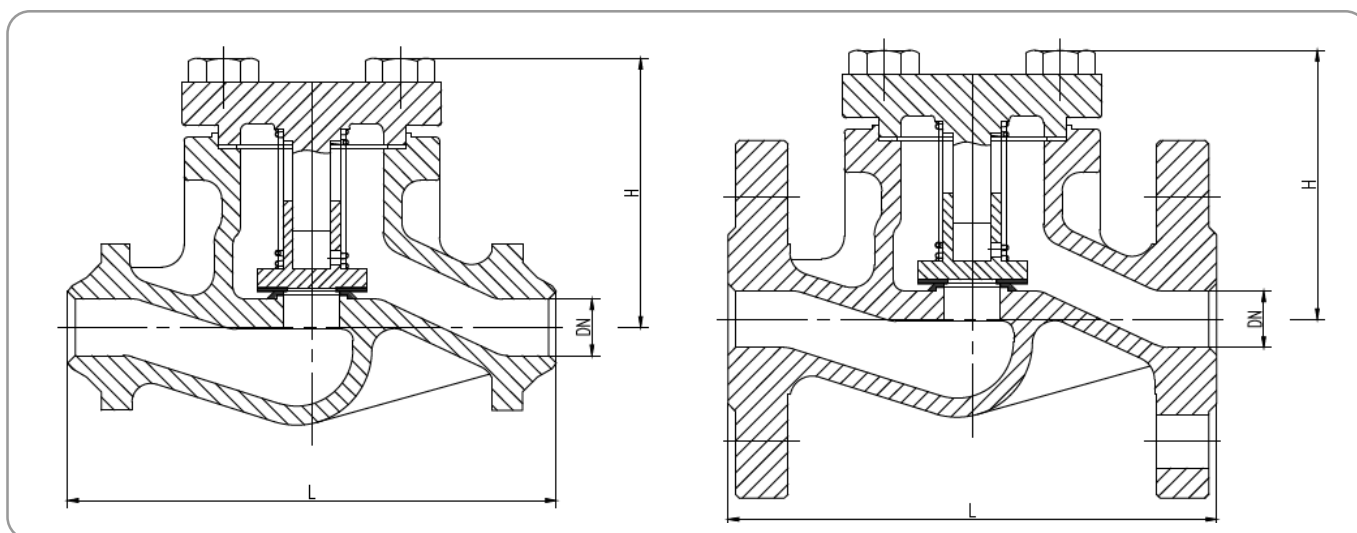
Operation

- Self-acting, by pressure of medium

P-T data

Material	PN	Working pressure MPa / Working temperature °C Form EN12516-1													
		100	150	200	250	300	350	400	425	450	500	525	550	575	595
1.0619 (A216 WCB)	16	1.36	1.27	1.14	1.04	0.94	0.88	0.84	-	-	-	-	-	-	-
	25	2.13	1.98	1.78	1.62	1.47	1.37	1.32	-	-	-	-	-	-	-
	40	3.41	3.17	2.84	2.60	2.35	2.19	2.11	-	-	-	-	-	-	-
1.4408 (A351 CF8M)	16	1,33	1,2	1,1	1,02	0,96	0,91	0,87	0,86	0,86	0,83	-	-	-	-
	25	2,07	1,87	1,72	1,6	1,5	1,42	1,36	1,35	1,34	1,3	-	-	-	-
	40	3,32	2,99	2,75	2,56	2,41	2,27	2,18	2,16	2,14	2,08	-	-	-	-
1.7357 (A217 WC6)	16	1,63	1,58	1,49	1,43	1,33	1,23	1,15	1,11	1,07	0,89	0,68	0,35	0,28	0,2
	25	2,54	2,48	2,33	2,23	2,08	1,93	1,8	1,73	1,67	1,39	1,06	0,55	0,43	0,32
	40	4,07	3,96	3,74	3,57	3,33	3,09	2,89	2,77	2,67	2,23	1,7	0,88	0,69	0,52

Note: the temperature not listed in the table is selected by linear interpolation method.


Dimensions

DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	
L(mm)	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100	
H(mm)	69	70	75	78	85	90	110	125	150	185	285	340	400	445	490	595	
Weight (kg) FL	PN16	2.8	3.5	4.2	5.5	7.5	9.4	13	17.5	29.2	40	60	116	220	330	520	820
	PN25	2.8	3.5	4.2	5.5	7.5	9.5	14	20	32.5	48	73	128	210	350	560	850
	PN40	2.8	3.5	4.2	5.5	7.5	9.5	14	20	32.5	48	73	136.5	288.5	390	610	920
Weight (kg) BW	PN16	1.9	2.2	2.8	3.5	4.6	5.1	8.4	14	22.5	36	51	108	203	308	210	560
	PN25	1.9	2.2	2.8	3.5	4.6	5.1	8.4	14	23	38	53	110	223	315	300	580
	PN40	1.9	2.2	2.8	3.5	4.6	5.1	8.4	14	23	38	53	110	223	315	400	600
Kv	3.9	6.9	11.1	17.6	27.8	43.5	71.3	112	174	267	380	670	1060	1514	2060	2690	