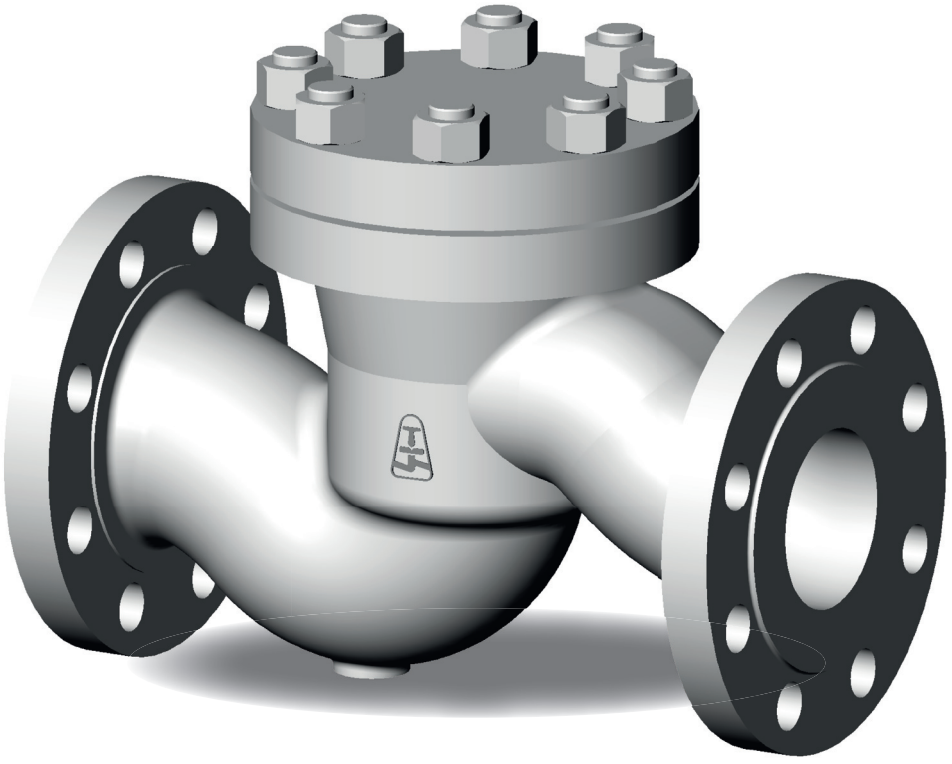
HIGH-PRESSURE LIFT CHECK VALVE Z15.4

PN 63–160; DN 50–150, T_{MAX}: 550°C



APPLICATION

- water, steam, gas, oil, petroleum products, non-aggressive substances

CONNECTION

- weld ends, flanged, combination

OPERATION

- self-acting control

DESCRIPTION

- design of the body is straight sealing
- check valve disc
- to horizontal and vertical position
- sealing surface is welded by hard facing (13Cr) or Stellite 6
- complies with the requirements of the directive 2014/68/EU and standrard EN 16767
- testing is carried out according to standard EN 12266-1; part 2

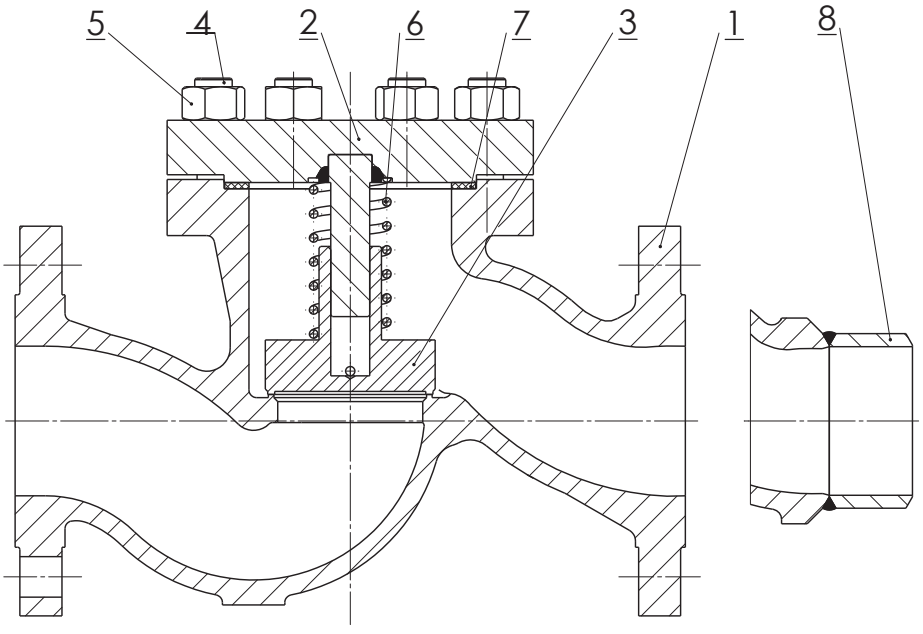
BASIC DESIGN OPTIONS

- branch from forged materials
- according to TRD 201

PRESSURE-TEMPERATURE-RATINGS

Material	PN	Admissible operating pressure PS [bar] at operating temperature TS [°C]																
		-10	50	100	150	200	250	300	350	400	450	475	500	510	520	530	540	550
GX5CrNiMo 19-11-2 (1.4408)	63	63	63	47,3	42,1	37,4	32,3	25,4	20,3	16,7	-	-	-	-	-	-	-	-
	100	100	100	75	66,9	59,4	51,3	40,3	32,3	26,5	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GP240GH (1.0619)	63	63	63	59	55	48	45	41	38	36	35	-	-	-	-	-	-	-
	100	100	100	93	87	76	71	64	60	58	55	-	-	-	-	-	-	-
	160	160	160	149	136	124	113	103	96	92	89	-	-	-	-	-	-	-
G17CrMo5-5 (1.7357)	63	63	63	63	63	63	62	57	53	51	48	47	38	33	26	24,4	18,1	13,7
	100	100	100	100	100	100	98	91	84	80	76	75	61	52	42	38,7	28,7	21,8
	160	160	160	160	160	160	160	160	152	146	139	127	118	97	79	62	46	35

USED MATERIALS



Pos.	Part	Material	
1	Body	GP240GH (1.0619)	G17CrMo5-5 (1.7357)
	Hard facing of sealing surface	13Cr	Stellite 6
2	Cover	13CrMo4-5 (1.7335)	
3	Disc	P250GH (1.0460)	13CrMo4-5 (1.7335)
	Hard facing of sealing surface	13Cr	Stellite 6
4	Bolt	21CrMoV5-7 (1.7709)	21CrMoV5-7 (1.7709)
5	Nut	25CrMo4 (1.7218)	21CrMoV5-7 (1.7709)
6	Spring	X10CzNi 18-8 (1.4310)	
7	Gasket	Graphite – camprofile	
8	Branch	P250GH (1.0460)	13CrMo4-5 (1.7335)

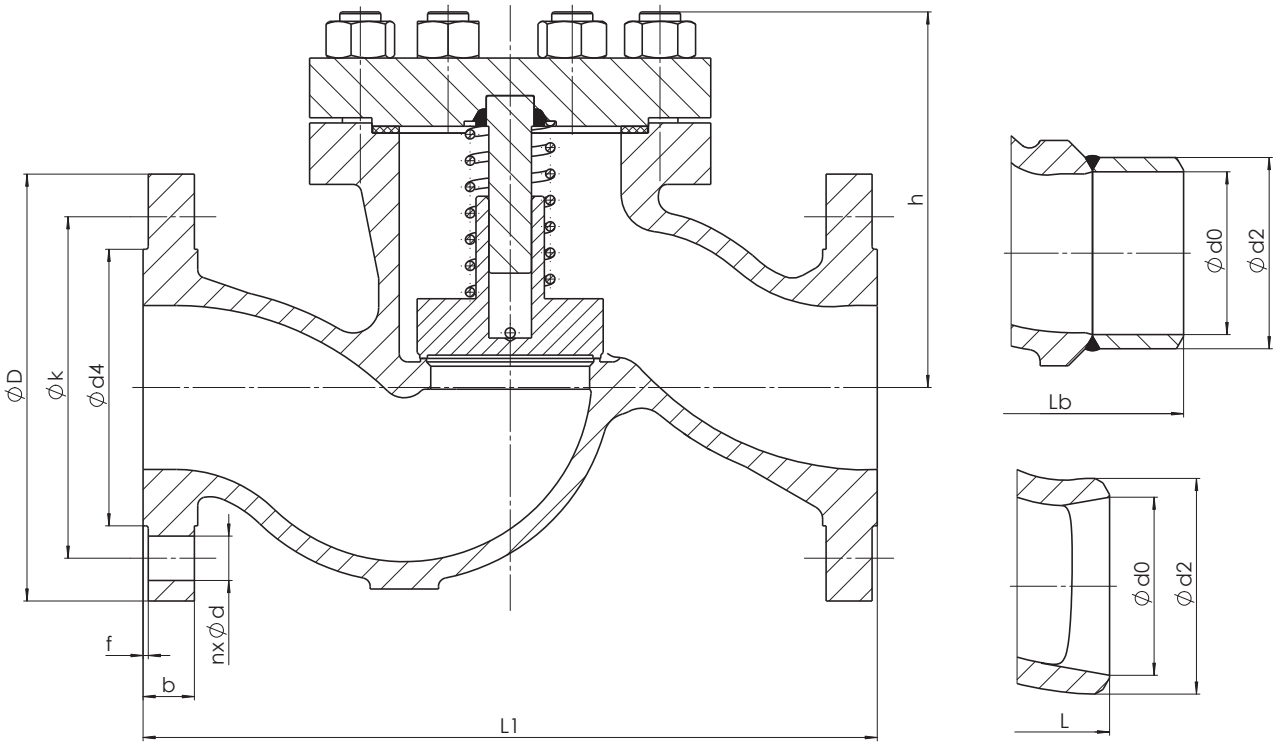
VALVE DIMENSIONS

1. Flanged

Face-to-face dimensions:	EN 558 – line 2
Flanges:	EN 1092-1

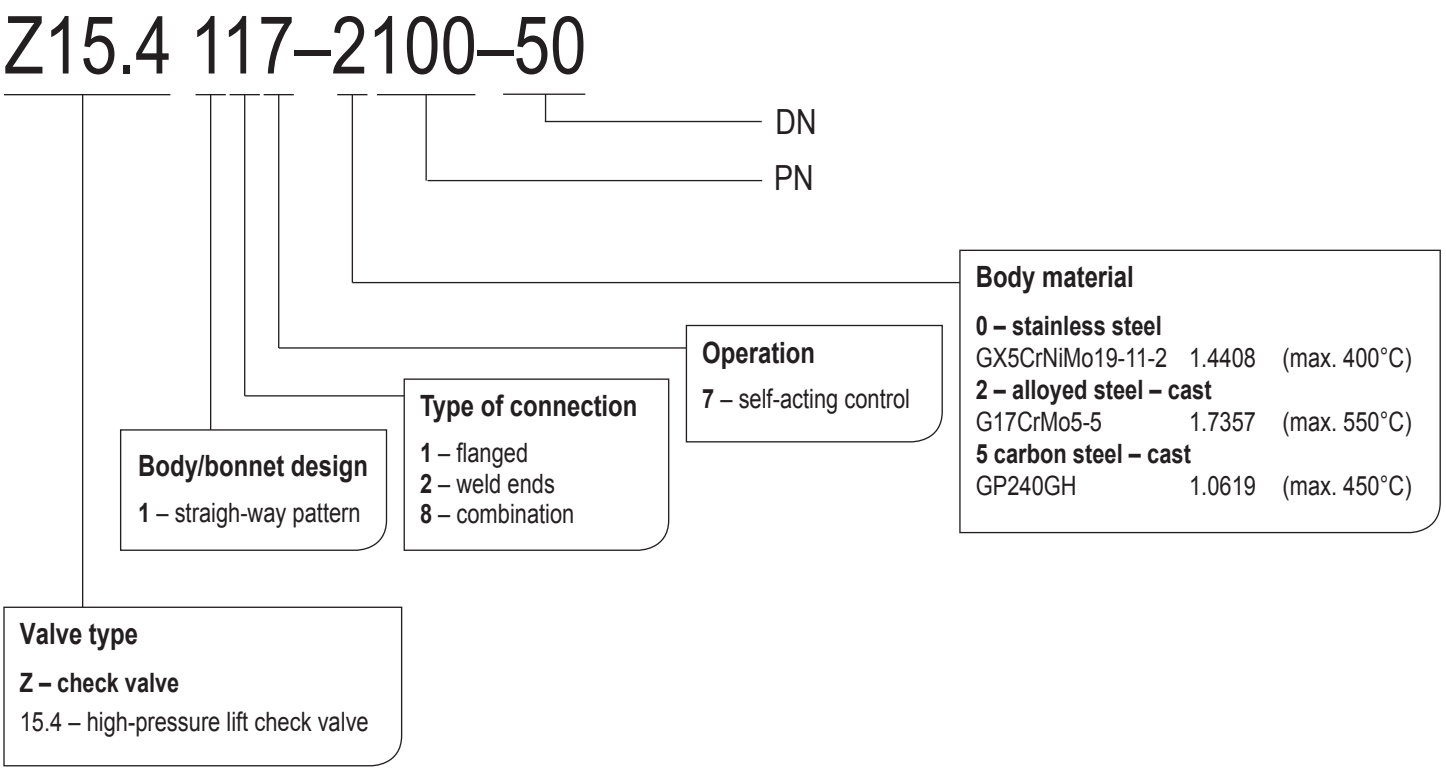
2. Weld ends

Face-to-face dimensions:	as per table (Lb) on your request
Dimensions of welding ends:	DIN 3239 – part 1
Groove form:	DIN 2559 – sheet 1 – form 22



Nominal pressure	Nominal size	Centre-to-top	Flanged								Weld ends					
PN	DN	h [mm]	L1 [mm]	n	d [mm]	k [mm]	D [mm]	b [mm]	d4×f [mm]	m [kg]	L [mm]	Lb [mm]	d2 [mm]	d0 [mm]	m [kg]	Pipe dimension
63	50	148	300	4	22	135	180	26	102×3	24	260	400	61	54	32	60,3×3,2
	65	172	340	8	22	160	205	26	122×3	35	340	480	77	69	44	76,1×3,6
	80	200	380	8	22	170	215	28	138×3	42	380	520	90	81	50	88,9×4,0
	100	220	430	8	26	200	250	30	162×3	63	430	570	115	104	75	114,3×5,0
	125	245	500	8	30	240	295	34	188×3	87	500	650	141	130,5	113	139,7×4,5
	150	275	550	8	33	280	345	36	218×3	140	550	710	170	156,5	192	168,3×5,6
100	50	148	300	4	26	145	195	28	102×3	26	260	400	61	54	35	60,3×3,2
	65	172	340	8	26	170	220	30	122×3	39	340	480	77	69	52	76,1×3,6
	80	200	380	8	26	180	230	32	138×3	49	380	520	90	81	63	88,9×4,0
	100	220	430	8	30	210	265	36	162×3	74	430	570	115	104	97	114,3×5,0
	125	245	500	8	33	250	315	40	188×3	101	500	650	141	127	134	139,7×6,3
	150	275	550	12	33	290	355	44	218×3	144	550	710	170	154	196	168,3×7,1
160	50	148	300	4	26	145	195	30	102×3	27	260	400	61	52,5	36	60,3×4
	65	172	340	8	26	170	220	34	122×3	40	340	480	77	65	53	76,1×5,6
	80	200	380	8	26	180	230	36	138×3	50	380	520	90	76,5	64	88,9×6,3
	100	220	430	8	30	210	265	40	162×3	75	430	570	115	98,5	98	114,3×8
	125	245	500	8	33	250	315	44	188×3	102	500	650	141	120,5	135	139,7×10
	150	275	-	12	33	290	355	50	218×3	146	550	710	170	144,5	198	168,3×12,5

VALVE DESCRIPTION CODE



VALVE INSTALLATION

The armature can be installed in any position. Medium must flow under the cone in accordance with the direction indicated on the body. Installation and use the valve following points have to be respected:

- operating conditions must comply with operating parameters of the valve
- proper function of the valve is affected by the presence of impurities in the pipeline and flowing medium, therefore it is necessary keep working environment a pipeline clean, for example with using filters
- medium used must comply with the corrosion resistance of the valve material
- use of mechanically damaged valves during the operation is prohibited

The service life of valves significantly extends regular maintenance and minor repairs carried out by trained personnel.