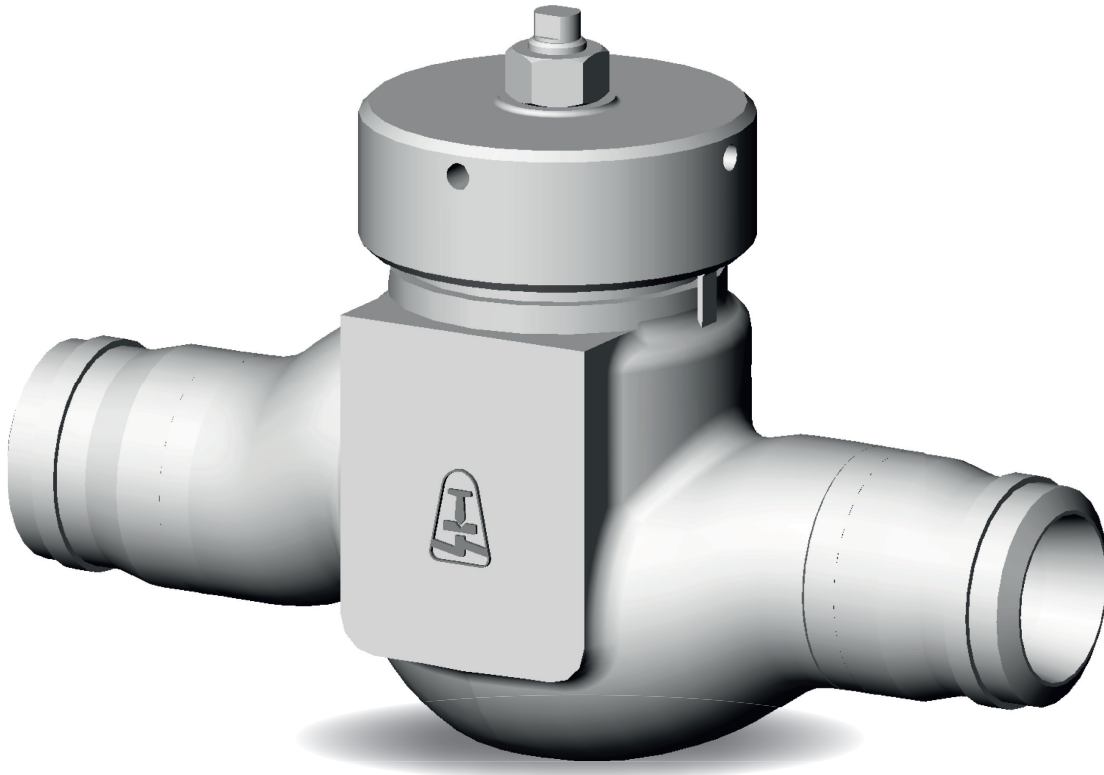


# LIFT CHECK VALVE Z15

PN 160 – 400; DN 65 – 150, T<sub>MAX</sub>: 550°C



LIFT CHECK VALVE Z15

## APPLICATION

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

## CONNECTION

- weld ends, flanged

## OPERATION

- self-acting control

## DESCRIPTION

- high-pressure lift check valve
- straight – way pattern
- check valve disc
- for horizontal position
- sealing surfaces are welded on hard steel
- complies with the requirements of the directive 2014/68/EU
- testing is carried out according to EN 12266-1

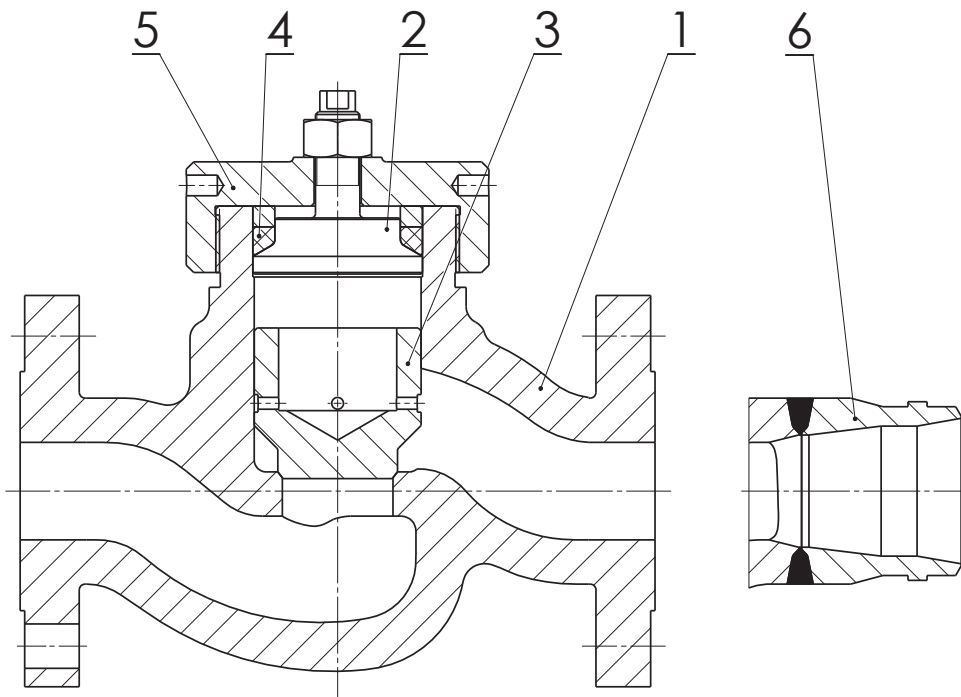
## BASIC DESIGN OPTIONS

- branch from forged materials
- according to TRD 201 – on request

**PRESSURE-TEMPERATURE-RATINGS**

Material	PN	Admissible operating pressure PS [bar] at operating temperature TS [°C]																		
		-10	50	100	150	200	250	300	350	400	425	450	475	500	510	520	530	540	545	550
G17CrMo5-5 (1.7357)	160	160	160	160	160	160	160	153	143	133	129	126	111	77,6	66,4	56,8	48,8	42	39,2	36,4
	250	250	250	250	250	250	250	239	223	208	202	197	173	121	103	88,7	76,2	65,6	61,2	56,8
	320	320	320	320	320	320	320	306	286	266	259	252	222	155	132	113	97,6	84	78,4	72,8
	400	400	400	400	400	400	400	383	358	333	324	316	278	194	166	142	122	105	98	91
GP240GH (1.0619)	160	160	160	160	157	128	110	94.1	88.3	78.5	-	-	-	-	-	-	-	-	-	-
	250	250	250	250	245	196	172	147	137	123	-	-	-	-	-	-	-	-	-	-
	320	320	320	320	314	245	221	188	177	157	-	-	-	-	-	-	-	-	-	-
	400	400	400	400	392	314	275	235	221	196	-	-	-	-	-	-	-	-	-	-

**USED MATERIALS**



Pos.	Part	Material	
1	Body	GP240GH/1.0619	G17CrMo5-5 / 1.7357
	Hard facing of sealing surface	13Cr	Stellite 6
2	Cover	G17CrMo5-5/1.7357	G17CrMo5-5/1.7357
3	Disc	X20Cr13/1.4021	X22CrMoV12-1/1.4923
	Hard facing of sealing surface	hardening	Stellite 6
4	Gasket	Graphite	
5	Nut	C35/1.0501	24CrMoV5-5/1.7733
6	Branch	P250GH/1.0460	13CrMo4-5/1.7335

## VALVE DIMENSIONS

### 1. Flanged

Face-to-face dimensions: DIN 3202 – part 1 – line F2 (PN160), line F3 (PN250)

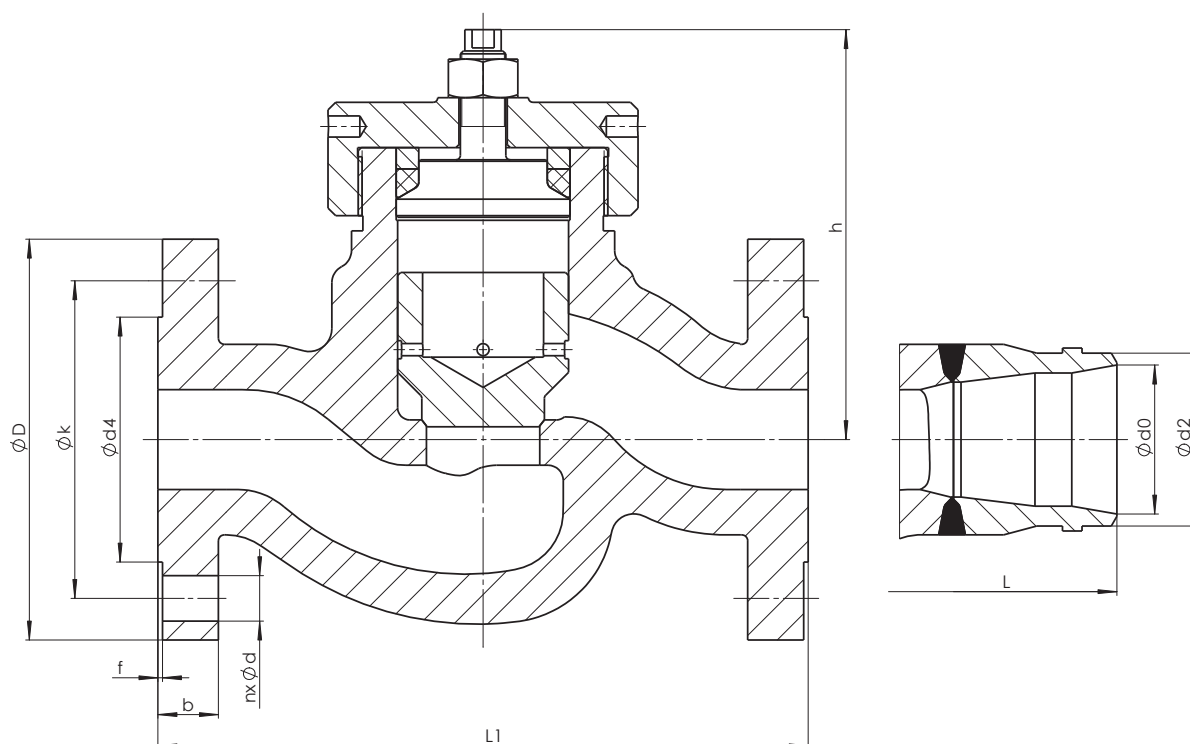
Flanges: EN 1092-1, (DIN 2501 – sheet 1/1972)

### 2. Weld ends

Face-to-face dimensions: as per table (EN 12982, line 65, DIN 3202 – part 2, line S3)

Dimensions of welding ends: DIN 3239 – part 1 (EN 12627)

Groove form: DIN 2559 – sheet 1 – form 22

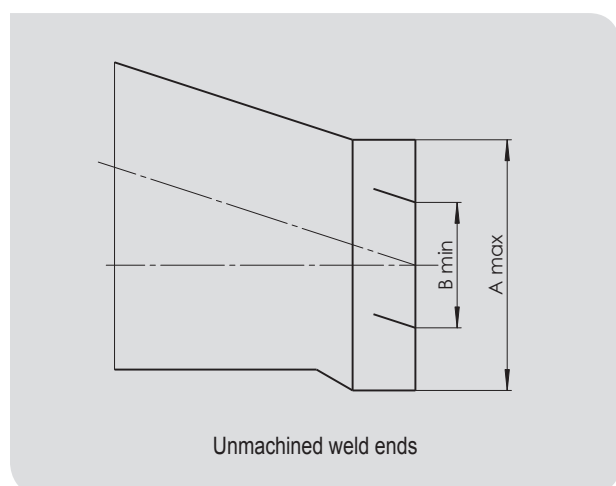


Nominal pressure	Nominal size	Centre-to-top	Flanged								Weld ends						
			PN	DN	h [mm]	L1 [mm]	n	d [mm]	k [mm]	D [mm]	b [mm]	d4×f [mm]	m [kg]	L [mm]	d2 [mm]	d0 [mm]	Amax [mm]
160	65	180	340	8	26	170	220	34	122×3	54	500	77	65	93	48	43	76,1×5,6
	80	240	380	8	26	180	230	36	138×3	90	600	90	76,5	116	62	76	88,9×6,3
	100	240	430	8	30	210	265	40	162×3	139	600	115	98,5	138	84	126	114,3×8
	125	365	500	8	33	250	315	44	188×3	213	900	141	120,5	179	106	182	139,7×10
	150	365	550	12	33	290	355	50	218×3	296	900	170	144,5	198	133	255	168,3×12,5
250	65	180	400	8	26	180	230	42	122×3	64	500	77	59,5	93	48	43	76,1×8,8
	80	240	450	8	30	200	255	46	138×3	100	600	115	93	116	62	76	2)
	100	240	520	8	33	235	300	54	162×3	149	600	-	-	138	84	126	2)
	125	365	600	12	33	275	340	60	188×3	225	900	-	-	179	106	182	2)
	150	365	700	12	36	320	390	68	218×3	295	900	-	-	198	133	255	2)
320	65	180	-	-	-	-	-	-	-	-	500	90	68	93	48	1)	88,9×11
	80	240	-	-	-	-	-	-	-	-	600	115	87,5	116	62	1)	2)
	100	240	-	-	-	-	-	-	-	-	600	-	-	138	84	1)	2)
	125	365	-	-	-	-	-	-	-	-	900	-	-	179	106	1)	2)
	150	365	-	-	-	-	-	-	-	-	900	-	-	198	133	1)	2)
400	65	180	-	-	-	-	-	-	-	-	500	115	81	93	48	1)	2)
	80	240	-	-	-	-	-	-	-	-	600	115	81	116	62	1)	2)
	100	240	-	-	-	-	-	-	-	-	600	-	-	138	84	1)	2)
	125	365	-	-	-	-	-	-	-	-	900	-	-	179	106	1)	2)
	150	365	-	-	-	-	-	-	-	-	900	-	-	198	133	1)	2)

1) Values on request

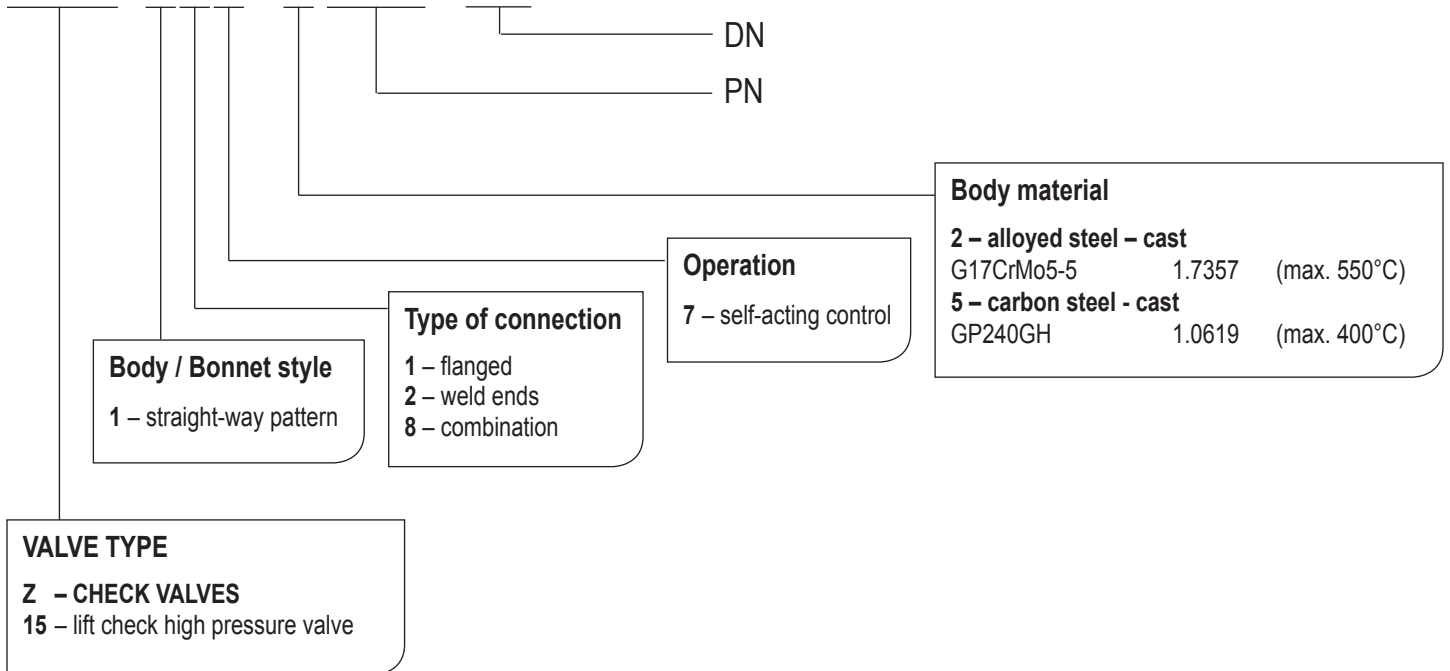
2) Dimensions on request according to dimensions Amax and Bmin

## WELDING ENDS



## VALVE DESCRIPTION CODE

# Z15 117-2160-65



## VALVE INSTALLATION

Lift check valve must always be installed in horizontal 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.**