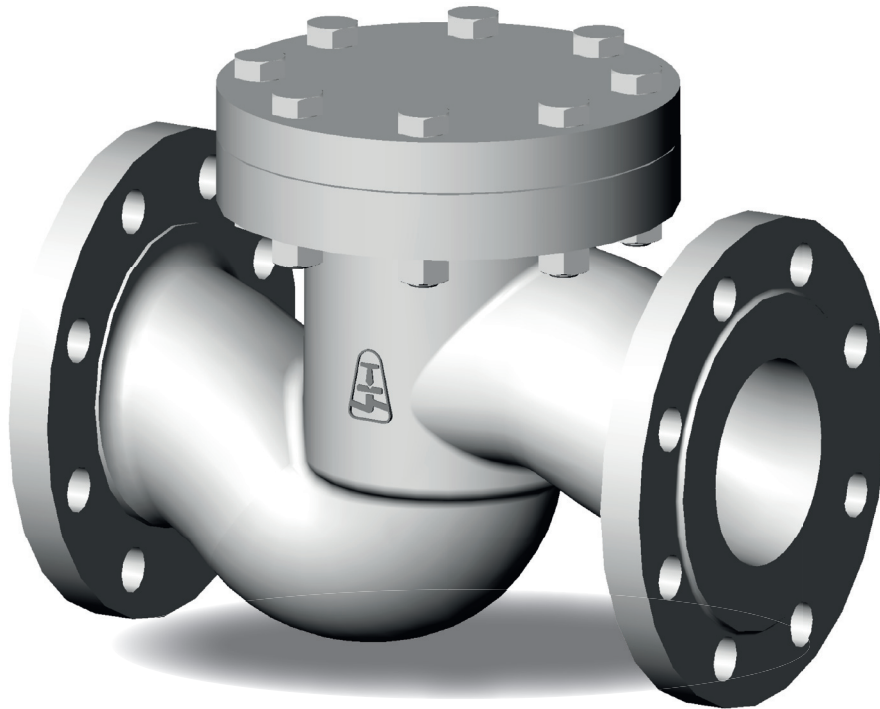


# LIFT CHECK VALVE C09

PN 10–40; DN 15–200;  $T_{max}$ : 400 °C



LIFT CHECK VALVE C09

## APPLICATION

- water, steam, aggressive and non-aggressive substances

## CONNECTION

- weld ends, flanged

## OPERATION

- self-acting control

## DESCRIPTION

- the shape of the body is straight
- check valve disc with spring
- with spring, the valve can be mounted in position both horizontal and vertical
- sealing surfaces are welded with 13Cr or Stellite 6 (except stainless steel design)
- complies with the requirements of the directive 2014/68/EU
- testing is carried out according to EN 12266-1

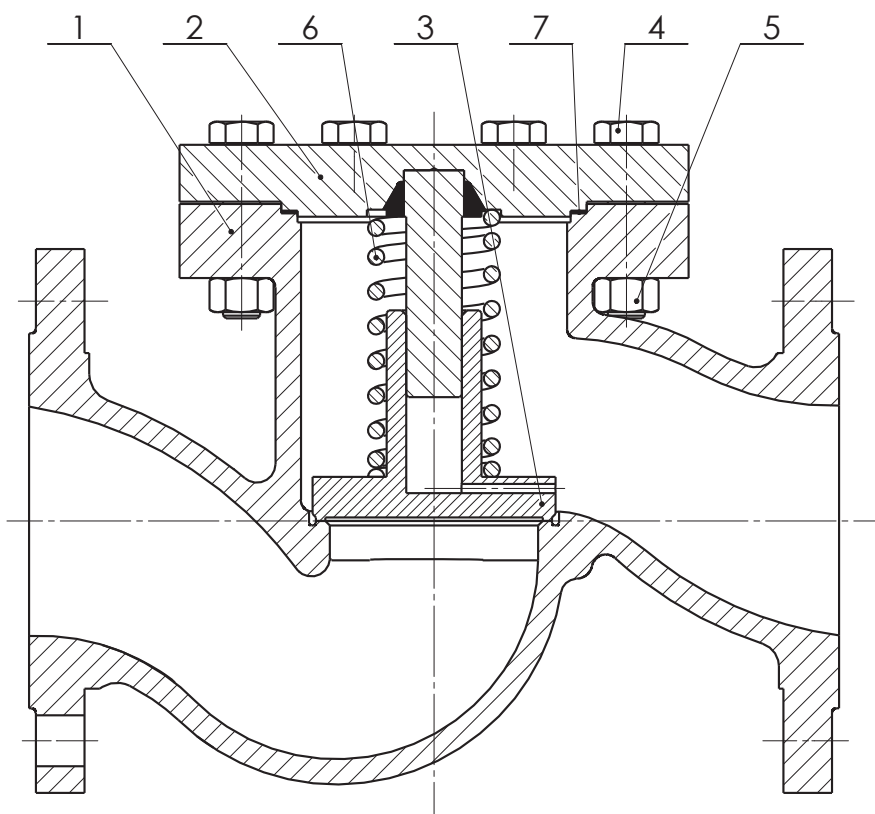
## BASIC DESIGN OPTIONS

- free from oil and grease
- delivery according to TRD 201, TP TC-010/2011, TP TC-032/2013 on request

## PRESSURE-TEMPERATURE-RATINGS

Material	PN	Admissible operating pressure PS [bar] at operating temperature TS [°C]										
		-50	-30	-10	50	100	150	200	250	300	350	400
GX5CrNiMo 19-11-2 (1.4408)	10	10	10	10	10	9,3	8,4	7,8	7,3	-	-	-
	16	16	16	16	16	14,9	13,5	12,4	11,7	-	-	-
	25	25	25	25	25	23,3	21,1	19,4	18,3	-	-	-
	40	40	40	40	40	37,3	33,8	31,1	29,3	-	-	-
GX5CrNi19-10 (1.4308)	10	10	10	10	9,3	8,4	7,6	6,9	6,4	-	-	-
	16	16	16	16	14,9	13,5	12,1	11	10,3	-	-	-
	25	25	25	25	23,3	21,1	18,9	17,2	16,1	-	-	-
	40	40	40	40	37,3	33,8	30,2	27,6	25,8	-	-	-
G21Mn5 (1.1138)	10	-	10	10	10	9,2	8,7	7,9	7,2	6,5	-	-
	16	-	16	16	16	14,8	14	12,8	11,8	10,8	-	-
	25	-	25	25	25	23	21	19,2	18,2	17,2	-	-
	40	-	40	40	40	37	35	32	29,5	27	-	-
GP240GH (1.0619)	10	-	-	10	10	9,3	8,7	7,8	7,1	6,4	6	5,8
	16	-	-	16	16	14,9	13,9	12,4	11,4	10,3	9,6	9,2
	25	-	-	25	25	23,3	21,7	19,4	17,8	16,1	15	14,4
	40	-	-	40	40	37,3	34,7	30,2	28,4	25,8	24	23,1

## USED MATERIALS



Pos.	Part	Material			
1	Body	GX5CrNiMo19-11-2 (1.4408)	GX5CrNi19-10 (1.4308)	G21Mn5 (1.1138)	GP240GH (1.0619)
	Hard facing of sealing surface	-	-	13Cr	13Cr
2	Cover	X 6CrNiTi 18-10, X6CrNiMoTi 17-12-2 (1.4541, 1.4571)	X 6CrNiTi 18-10, X6CrNiMoTi 17-12-2 (1.4541, 1.4571)	P250GH, P265GH (1.0460, 1.0425)	P250GH, P265GH (1.0460, 1.0425)
3	Disc	X 6CrNiTi 18-10 (1.4541)	X 6CrNiTi 18-10 (1.4541)	X 6CrNiTi 18-10 (1.4541)	X 6CrNiTi 18-10 (1.4541)
4	Bolt	A2-70			
5	Hex. nut	A2-70			
6	Spring <sup>1)</sup>	X10CrNi 18-8 (1.4310)			
7	Gasket	PTFE		Graphite	

1) For DN 150 and DN 200 on request

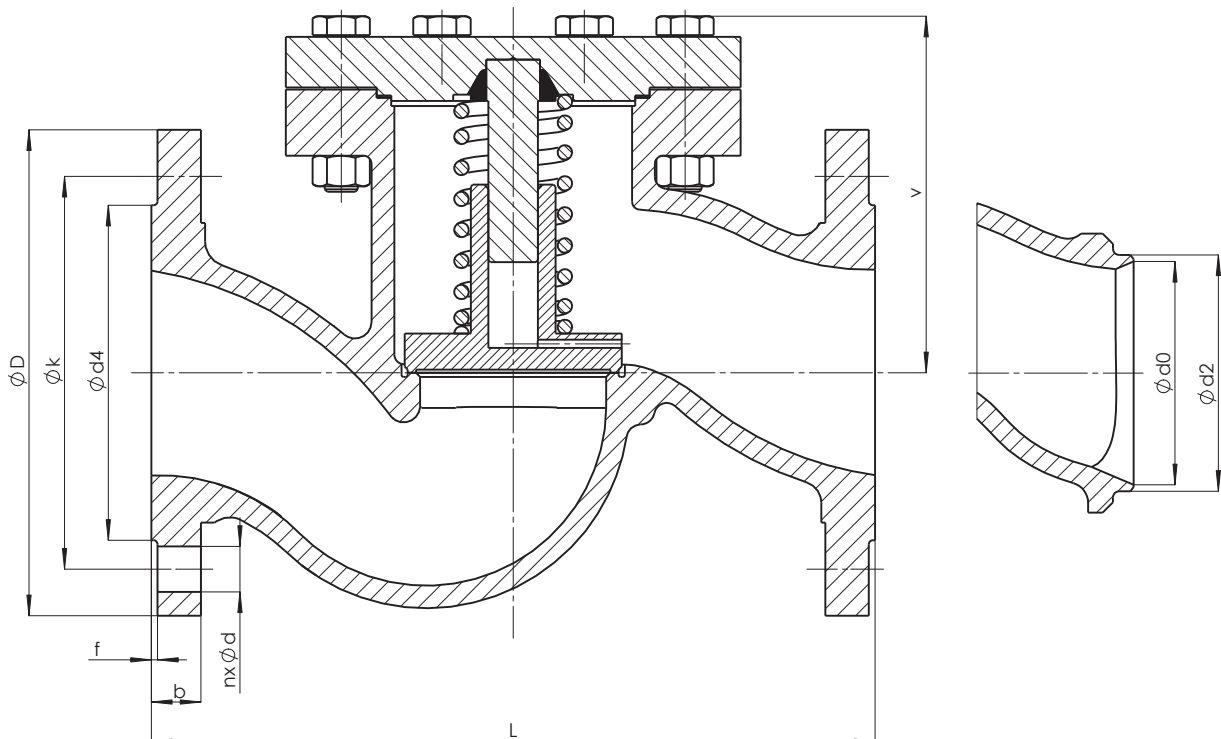
## VALVE DIMENSIONS

### 1. Flanged

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

### 2. Weld ends

Face-to-face dimension: EN 12982 – line 1  
Weld ends: DIN 3239 – part 1  
Groove form: DIN 2559 – sheet 1 – form 22

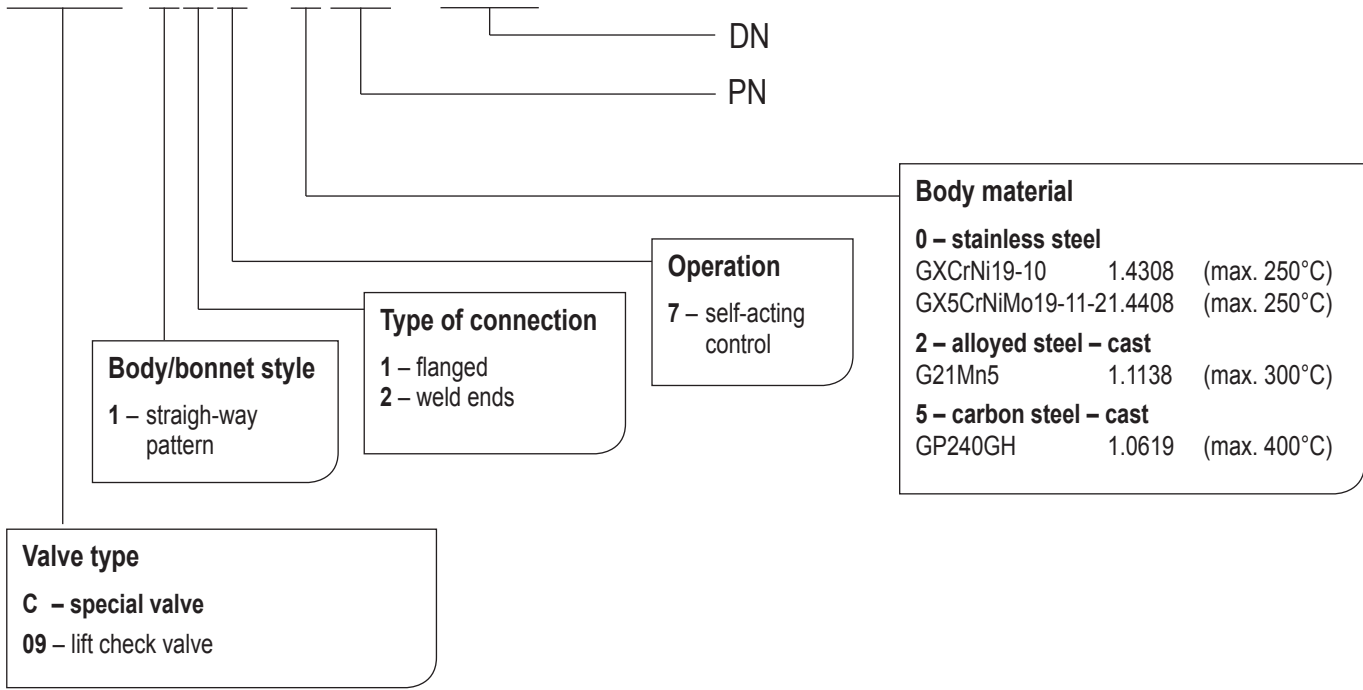


Nominal pressure	Nominal size	Face-to-face	Centre-to-top-height	Flanged							Weld ends			
				PN	DN	L [mm]	V [mm]	n	d [mm]	k [mm]	D [mm]	b [mm]	d4×f [mm]	m [kg]
10, 16	15	130	70	4	14	65	95	16	45×2	2,7	22	17	-	21,3×2,0
	20	150	80	4	14	75	105	18	58×2	4,3	28	22	-	26,9×2,3
	25	160	85	4	14	85	115	18	68×2	5,0	34	28,5	-	33,7×2,6
	32	180	95	4	18	100	140	18	78×2	7,0	43	37	-	42,4×2,6
	40	200	105	4	18	110	150	18	88×3	9,0	49	43	-	48,3×2,6
	50	230	125	4	18	125	165	18	102×3	13,0	61	54	-	60,3×3,2
	65	290	140	8	18	145	185	18	122×3	17,0	77	69	12,0	76,1×3,6
	80	310	145	8	18	160	200	20	138×3	23,0	90	81	17,0	88,9×4,0
	100	350	175	8	18	180	220	20	158×3	31,0	115	104	24,0	114,3×5,0
	125	400	250	8	18	210	250	22	188×3	47,0	141	130,5	37,0	139,7×4,5
	150	480	280	8	22	240	285	22	212×3	69,0	170	156,5	56,0	168,3×5,6
	200	600	340	12	22	295	340	24	268×3	156,0	222	204,5	-	219,1×7,1
25, 40	15	130	70	4	14	65	95	16	45×2	2,7	22	17	1,5	21,3×2,0
	20	150	80	4	14	75	105	18	58×2	4,3	28	22	3,0	26,9×2,3
	25	160	85	4	14	85	115	18	68×2	5,0	34	28,5	3,0	33,7×2,6
	32	180	95	4	18	100	140	18	78×2	7,0	43	37	4,0	42,4×2,6
	40	200	105	4	18	110	150	18	88×3	9,0	49	43	5,0	48,3×2,6
	50	230	125	4	18	125	165	20	102×3	13,0	61	54	9,0	60,3×3,2
	65	290	150	8	18	145	185	22	122×3	27,0	77	69	20,0	76,1×3,6
	80	310	155	8	18	160	200	24	138×3	31,0	90	81	22,0	88,9×4,0
	100	350	175	8	22	190	235	24	162×3	42,0	115	104	32,0	114,3×5,0
	125	400	215	8	26	220	270	26	188×3	62,0	141	130,5	49,0	139,7×4,5
	150	480	245	8	26	250	300	28	218×3	84,0	170	156,5	67,0	168,3×5,6
25	200	600	340	12	26	310	360	30	278×3	170,0	222	204,5	146,0	219,1×7,1
40	200	600	340	12	30	320	375	34	285×3	175,0	222	204,5	146,0	219,1×7,1

Missing parameters on your request

## VALVE DESCRIPTION CODE

# C09 117-540-150



## VALVE INSTALLATION

Recommended mounting of the check valve – horizontal position. If the check valve is mounted in a non-horizontal position, the valve components must be spring. The flow of media under the cone, the direction of flow of the working substance must match the direction of the arrow on the valve body.

It is necessary to consider the following points during assembly and operation:

- 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.**