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High pressure lift check valve Z15.2

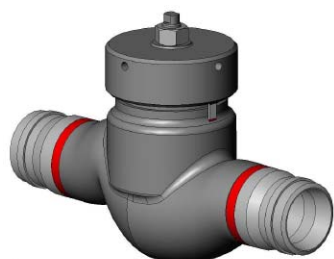
PN 63 – 500 , DN 10 – 50, $T_{\max}$: 600°C



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High-pressure lift check valve Z15.4

PN 63 - 160, DN 50 – 150, $T_{\max}$: 550°C



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High-pressure lift check Z15

PN 160 - 400, DN 65 – 150, $T_{\max}$: 550°C



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Vertical lift check valve Z35 and vertical lift check valve with automatic relief Z40

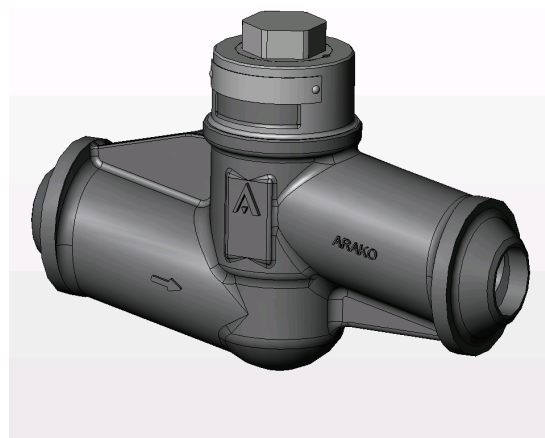
PN 16-100, DN 65-150, $T_{\max}$: 400°C

High pressure lift check valve Z15.2

PN 63 –500 , DN 10 – 50 , T_{max}: 600°C

High-pressure lift check valve with flanges or butt weld ends,
with non-asbestos gasket
Meets the requirements of **PED 97/23/EC**. EN 13709.

- **LONG SERVICE LIFE** - SEATS ARE HARD FACED WITH WEAR RESISTANT AND CORROSION PROOF 13 CR METAL OR STELLITE
- **EASY MAINTENANCE** - THE SEAT CAN BE EASILY REPAIRED THANKS TO CONVENIENT ACCESS AND FLAT SEAT DESIGN
- **CUSTOMER RELATED SOLUTION** – DESIGN VARIANTS AND MATERIALS COMBINATION ON REQUEST, DIFFERENT CONNECTION TYPES, CORROSION RESISTANT MATERIALS FOR AGGRESSIVE FLUIDS



BASIC FEATURES

TYPE	Z15.2 - High pressure lift check valve					
PN	63, 100, 160, 250, 320, 400, 500					
DN	10, 15, 20, 25, 32, 40, 50					
MEDIUM	Water, steam, gas, oil, crude oil products, non-aggressive and aggressive substances					
WORKING TEMP. [°C]	-10 ÷ 450	-10 ÷ 530	-10 ÷ 570	-10 ÷ 600	-10 ÷ 600	-10 ÷ 600 ¹⁾ - 196 ÷ 400 ²⁾
BODY MATERIAL	P250GH (C 22.8) (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	11CrMo9-10 (1.7383)	14MoV6-3 (1.7715)	X6CrNiMoTi 17-12-2 (1.4571)
MATERIAL ON REQUEST	11416 (ČSN 41 1416), 15128 (ČSN 41 5128) and other on your request					
TYPE OF CONNECTION	Flanged, butt weld, socket weld and threaded end acc. to DIN, EN, ČSN.					
FACE-TO-FACE DIMENSION	Per table , see page 4, 5, 6, 7					
DESIGN	High pressure lift check valve ▪ straight – way pattern ▪ closing spring (beside DN10, 15) ▪ with non asbestos gasket		▪ seat/plug interface made of wear and corrosion resistant Cr steel or stellite ▪ Testing acc. to ČSN EN 12266-1 (1.5xPN body and 1.1xPN seat)			
BASIC DESIGN VARIANTS	▪ Other designs of flanged and Buttweld ends on your request ▪ Weld on connection branch from different forged materials		▪ Other testing requirements on request ▪ Delivery according to AD 2000 Merkblatt A4, TRD 110 and other standards on request ▪ Other on you request			

We reserve the right to make design changes without any previous announcement.

1) Application over 400 °C only for medium, which does not cause the intercrystalline corrosion.

2) Application for temperature from - 196 °C to +400 °C; Material variant 2 (thereinafter)

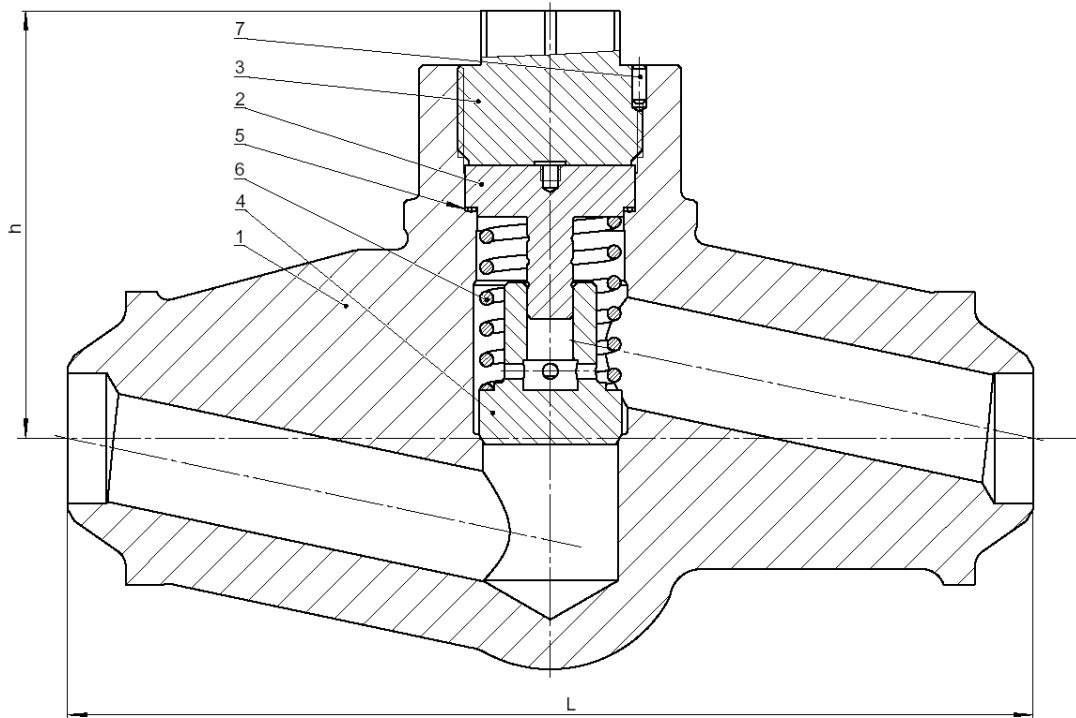
PRESSURE-TEMPERATURE RATINGS

Material	PN	Maximum working pressure [bar] for working temperature TS [°C]																
		-10	50	100	150	200	250	280	300	350	380	390	400	410	420	430	440	450
P250GH (C22.8) (1.0460)	63	63	63	63	63	63	56,7	53,2	50,4	44,9	41,0	40,2	39,4	38,4	37,5	36,5	35,6	34,7
	100	100	100	100	100	100	90,0	84,5	80,0	71,3	65,0	63,8	62,5	61,0	59,5	58,0	56,5	55,0
	160	160	160	160	160	160	144	135	128	114	104	102	100	97,6	95,2	92,8	90,4	88,0
	250	250	250	250	250	250	225	212	200	178	163	159	156	153	149	145	141	138
	320	320	320	320	320	320	288	271	256	228	208	204	200	195	190	186	181	176
	400	400	400	400	400	400	360	340	320	285	260	255	250	244	238	232	226	220

Material	PN	Maximum working pressure [bar] for working temperature TS [°C]																	
		-10	200	250	300	350	400	450	475	490	500	510	520	530	540	550	575	580	600
16Mo3 (1.5415)	63	63	63	63	63	59	56,7	52,9	50,4	44,1	36,5	25,7	20,4	16,3	-	-	-	-	-
	100	100	100	100	100	94	90	84	80	70	58	40,8	32,4	25,8	-	-	-	-	-
	160	160	160	160	160	151	144	134	128	112	92,8	65,3	51,8	41,3	-	-	-	-	-
	250	250	250	250	250	238	225	210	200	175	145	102	81	64,5	-	-	-	-	-
	320	320	320	320	320	302	288	268,8	256	224	186	131	104	82,6	-	-	-	-	-
	400	400	400	400	400	379	360	336	320	280	232	163	130	103	-	-	-	-	-
13CrMo4-5 (1.7335) 3)	63	63	63	63	63	63	63	56,7	55,3	52,3	50,4	40,3	32,8	27,1	21,2	17,0	10,5	-	-
	100	100	100	100	100	100	100	90	87,8	83	80	64	52,0	43,0	33,6	27,0	16,6	-	-
	160	160	160	160	160	160	160	144	140	133	128	102	83,2	68,8	53,8	43,2	26,6	-	-
	250	250	250	250	250	250	250	225	220	208	200	160	130	108	84	67,5	41,5	-	-
	320	320	320	320	320	320	320	288	281	266	256	205	166	138	108	86,4	53,1	-	-
	400	400	400	400	400	400	400	360	351	332	320	256	208	172	134	108	66,4	-	-
11CrMo9-10 (1.7383)	63	63	63	63	63	63	63	56,7	54,2	51,7	50,4	40,3	35,3	30,2	26,5	22,7	16,4	15,1	11,6
	100	100	100	100	100	100	100	90,0	86,0	82,0	80,0	64,0	56,0	48,0	42,0	36,0	26,0	24,0	18,4
	160	160	160	160	160	160	160	144	138	131	128	102	89,6	76,8	67,2	57,6	41,6	38,4	29,4
	250	250	250	250	250	250	250	225	215	205	200	160	140	120	105	90,0	65,0	60,0	46,0
	320	320	320	320	320	320	320	288	275	262	256	205	179	154	134	115	83,2	76,8	58,9
	400	400	400	400	400	400	400	360	344	328	320	256	224	192	168	144	104	96,0	73,6
14MoV63 (1.7715); 15128 (ČSN415128)	63	63	63	56	50,4	40,3	40,3	40,3	40,3	40,3	40,3	40,3	40,3	40,3	40,3	40,3	31,5	31,5	31,5
	100	100	100	89	80,0	64,0	64,0	64,0	64,0	64,0	64,0	64,0	64,0	64,0	64,0	64,0	50,0	50,0	50,0
	160	160	160	143	128	102	102	102	102	102	102	102	102	102	102	102	80,0	80,0	80,0
	250	250	250	224	200	160	160	160	160	160	160	160	160	160	160	160	125	125	125
	320	320	320	287	256	205	205	205	205	205	205	205	205	205	205	205	160	160	160
	400	400	400	358	320	256	256	256	256	256	256	256	256	256	256	256	200	200	200
X6CrNiMoTi17-12-2 (1.4571) 1)	63	63	61,7	57,9	54,9	53,3	51,4	50,1	50,1	49,9	49,9	49,9	49,6	49,6	49,4	49,1	48,6	40,3	35,3
	100	100	98,0	92,5	87,2	84,2	81,6	79,6	79,6	79,2	79,2	79,2	78,8	78,8	78,4	78,0	77,2	64,0	56,0
	160	160	157	148	140	135	131	127	127	127	127	127	126	126	125	125	124	102	89,6
	250	250	245	231	218	211	204	199	199	198	198	198	197	197	196	195	193	160	140
	320	320	314	293	279	270	261	255	255	253	253	253	252	248	236	228	-	-	-
	400	400	392	370	349	337	326	318	318	317	317	317	315	310	295	285	-	-	-

Material	PN	Maximum working pressure [bar] for working temperature TS [°C]						
		-196	20	100	200	300	350	400
X6CrNiMoTi17-12-2 (1.4571) 2)	63	63,0	63,0	60,5	51,7	42,8	40,3	37,8
	100	100	100	96,0	82,0	68,0	64,0	60,0
	160	160	160	154	131	109	102	96,0
	250	250	250	240	205	170	160	150

- 1) Application over 400 °C only for medium, which does not cause the intercrystalline corrosion.
 2) Application for temperature from - 196 °C to +400 °C; Material variant 2 (thereinafter)
 3) Material 1.7335 only to +570 °C

MATERIALS:

Pos.	Part	Material						
1	Body	P250GH (C22.8) (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	11CrMo9-10 (1.7383)	14MoV6-3 (1.7715)	X6CrNiMoTi17-12-2 (1.4571) 1)	X6CrNiMoTi17-12-2 (1.4571) 2)
	Welded seat	13Cr	Stellite					
2	Cover	P250GH (C22.8) (1.0460)	X22CrMoV12-1 (1.4923)					X6CrNiMoTi17-12-2 *) (1.4571)
3	Hex nut	P250GH (C22.8) (1.0460)	X22CrMoV12-1 (1.4923)					X6CrNiMoTi17-12-2 *) (1.4571)
3	Disc	X20Cr13 (1.4021)	X22CrMoV12-1 (1.4923)					X6CrNiMoTi17-12-2 (1.4571)
	Disc seats	harden	Stellite					
5	Gasket	Graphite						
6	Spring 3)	X10CrNi18-8 (1.4310)						
7	Pin	X5CrNi18-10 (A2) (1.4301)						

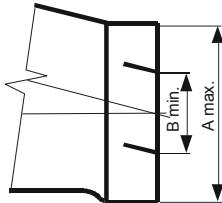
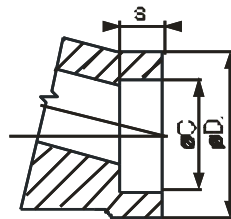
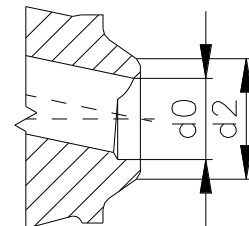
1) Application over 400 °C only for medium, which does not cause the intercrystalline corrosion.

2) Application for temperature from - 196 °C to +400 °C; Material variant 2

3) DN10, 15 without spring

DIMENSIONS**Weld, socket weld and threaded ends**

Face-to-face: acc. to tables
Weld ends: DIN 3239 – Part 1
Groove form: DIN 2559 – Sheet 1, Form 22
Socket weld end: B16.11, DIN 3239- Part 2,
On your request: ČSN 13 1075, EN 12 627, Socket weld ends acc. to EN 12 760 and other within the B_{min} , A_{min} dimensions.

Butt - weld ends, not machined**Socket weld ends****Butt - weld ends**

Nominal size	Face-to-face	Centre-to-top	Butt-weld ends acc. to DIN 3239-1 Groove forms acc. to DIN 2559 – Sheet 1, Form 22				Socket weld ends to ASME B16.11 , DIN 3239-2			Not machined butt weld ends		Weight approximately
			PN 63, 100		PN 160		PN 63 - 160					
DN	L	h	d ₂	d ₀	d ₂	d ₀	ØD ₁ -0,5	ØC ^{+0,2}	b _{min}	A _{max}	B _{min}	m [kg]
10	150	71	18	13,0	18	13,0	33	18	9,5	35	9	1,7
15	150	71	22	17,0	22	17,0	33	22	9,5	35	14	1,8
20	160	83	28	22,0	28	22,0	48	27,5	12,7	50	19	2,6
25	160	83	34	28,5	34	27,5	48	34,5	12,7	50	24	2,6
32	250	111	43	37,0	43	36,0	76	43	12,7	75	29	7,8
40	250	111	49	43,0	49	41,0	76	49	12,7	75	35	7,8
50	250	111	61	54,0	61	52,5	76	61	15,9	75	35	7,8

Nominal size	Face-to-face	Centre-to-top	Butt-weld ends acc. to DIN 3239-1 Groove forms acc. to DIN 2559 – Sheet 1, Form 22				Socket weld ends to ASME B16.11 , DIN 3239-2			Not machined butt weld ends		Weight approximately
			PN 250		PN 320		PN 250 - 320					
DN	L	h	d ₂	d ₀	d ₂	d ₀	øD ₁ -0,5	øC ^{+0,2}	b _{min}	A _{max}	B _{min}	m [kg]
10	150	71	18	12	18	12,0	33	18	9,5	35	9	1,7
15	150	71	22	16	22	15,0	33	22	9,5	35	14	1,8
20	160	83	28	20	28	19,0	48	27,5	12,7	50	19	2,6
25	160	83	35	26,5	35	24,0	48	34,5	12,7	50	24	2,6
32	250	111	43	34	43	31	76	43	12,7	75	29	7,8
40	250	111	49	38,5	49	36,0	76	49	12,7	75	35	7,8
50	250	111	61	45	77	59,5	76	61	15,9	75	35	7,8

Nominal size	Face-to-face	Centre-to-top	Butt-weld ends acc. to DIN 3239-1 Groove forms acc. to DIN 2559 – Sheet 1, Form 22				Not machined butt weld ends		Weight approximately
			PN 400		PN 500				
DN	L	h	d ₂	d ₀	d ₂	d ₀	A _{max}	B _{min}	m [kg]
10	150	71	18	10	22	11,5	35	9	1,7
15	150	71	28	17	33	16,5	35	14	1,8
20	160	83	34	19,5	38	20,5	48	18	2,6
25	160	83	44	28	48	23,5	48	22	2,6
32	250	111	49	29,5	61	33,5	78	30	7,8
40	250	111	61	39	76	42	78	32	7,8
50	250	111	76	49	76	43,5	78	38	7,8

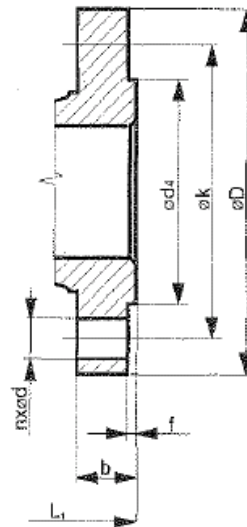
d₀ = d_p to DIN 3239

Pipe dimension							
DN	PN 63	PN 100	PN 160	PN 250	PN 320	PN 400	PN 500
10	17,2 x 2,0	17,2 x 2,0	17,2 x 2,0	17,2 x 2,6	17,2 x 2,6	17,2x3,6	21,3x5,0
15	21,3 x 2,0	21,3 x 2,0	21,3 x 2,0	21,3 x 2,6	21,3 x 3,2	26,9x5,0	32x8,0
20	26,9 x 2,3	26,9 x 2,3	26,9 x 2,3	26,9 x 3,6	26,9 x 4,0	32x6,3	38x8,8
25	33,7 x 2,6	33,7 x 2,6	33,7 x 3,2	33,7 x 3,6	33,7 x 5,0	42,4x8,0	48,3x12,5
32	42,4 x 2,6	42,4 x 2,6	42,4 x 3,6	42,4 x 4,5	42,4 x 6,3	48,3 x 10	60,3 x 14,2
40	48,3 x 2,6	48,3 x 2,6	48,3 x 3,6	48,3 x 5,0	48,3 x 6,3	60,3x11	76,1x17,5
50	60,3 x 3,2	60,3 x 3,2	60,3 x 4,0	60,3 x 8,0	76,1 x 8,8	76,1x14,2	76,1 x 17,5

DIMENSIONS

Flanged

Face-to-face dimensions: acc. to the tables
Flanges: EN1092-1, (DIN 2501/1972)
Raised face: EN1092-1 – Form B1, (DIN 2526/1975 – Form E)
Design variants on request: ČSN 13 1160, and other
Flanges design on request: grooved form EN 1092-1 – Form C or Form D (previously DIN 2512/1975 – Form F or Form N), recessed or spigot EN 1092-1 – Form E or Form F (previously DIN 2513/1966 – Form V13 eor Form R13), lens shaped joint type DIN 2698
Other flanges design variants on your request



Dimensions in mm

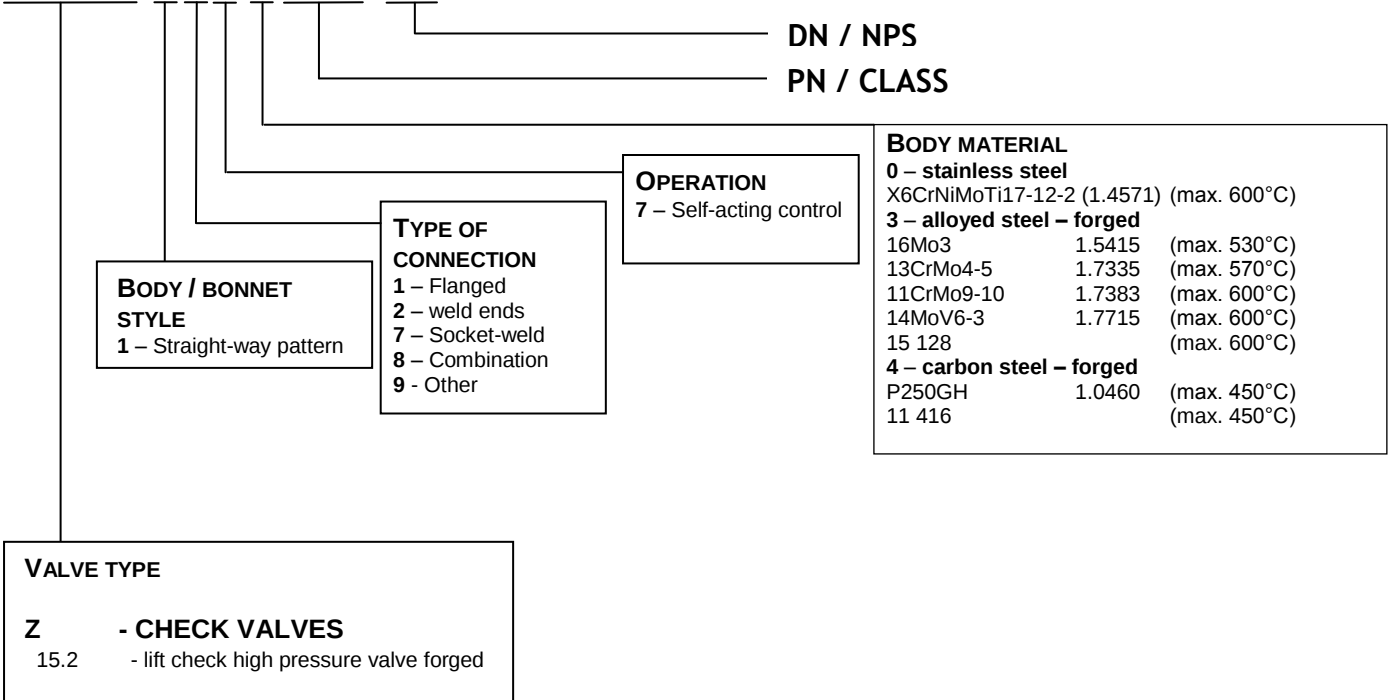
Nominal size	Face-to-face dimension	PN 63							PN 100						
		Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Weight approx.	Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Weight approx.
DN	L1	n	ød	øk	øD	b	ød ₄ xf	m [kg]	n	ød	øk	øD	b	ød ₄ xf	m [kg]
10	230	4	14	70	100	20	40x2	2,7	4	14	70	100	20	40x2	2,7
15	230	4	14	75	105	20	45x2	3,0	4	14	75	105	20	45x2	3,0
20	260	4	18	90	130	22	58x2	4,6	4	18	90	130	22	58x2	4,6
25	260	4	18	100	140	24	68x2	5,1	4	18	100	140	24	68x2	5,2
32	390	4	22	110	155	24	78x2	10,8	4	22	110	155	24	78x2	11,0
40	390	4	22	125	170	26	88x3	11,8	4	22	125	170	26	88x3	12,0
50	390	4	22	135	180	26	102x3	12,3	4	26	135	180	28	102x3	13,6

Nominal size	Face-to-face dimension	PN 160							PN 250						
		Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Weight approx.	Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Weight approx.
DN	L1	n	ød	øk	øD	b	ød ₄ xf	m [kg]	n	ød	øk	øD	b	ød ₄ xf	m [kg]
10	230	4	14	70	100	20	40x2	2,8	4	18	85	125	24	40x2	3,8
15	230	4	14	75	105	20	45x2	3,0	4	18	90	130	26	45x2	4,3
25	260	4	18	100	140	24	68x2	5,2	4	22	105	150	28	68x2	6,2
40	390	4	22	125	170	28	88x3	12,2	4	26	135	185	34	88x3	14,5
50	390	4	26	145	195	30	102x3	14,2	8	26	150	200	38	102x3	16,0

Nominal size	Face-to-face dimension	PN 320							PN 400						
		Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Weight approx.	Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Weight approx.
DN	L1	n	ød	øk	øD	b	ød ₄ xf	m [kg]	n	ød	øk	øD	b	ød ₄ xf	m [kg]
10	230	4	18	85	125	24	40x2	3,9	4	18	85	125	28	40x2	4,3
15	230	4	18	90	130	26	45x2	4,3	4	22	100	145	30	45x2	5,4
25	260	4	22	115	160	34	68x2	7,8	4	26	130	180	38	68x2	10,1
40	390	4	26	145	195	38	88x3	16,5	4	30	165	220	48	88x3	21,9
50	390	8	26	160	210	42	102x3	18,5	8	30	180	235	52	102x3	24,5

VALVE DESCRIPTION CODE

Z15.2 117-3250-25



VALVE INSTALLATION:

Lift check valve must always be installed in the line position. Medium has to enter the valve underneath the cone in correspondence with the arrow marked on the valve body. During the installation and use of the valve following points have to be respected:

- Maximum working parameters mustn't exceed the maximum values from the table above.
- Right function and service life duration of the valve depends on presence of impurities in the medium. Keep the medium and piping clean by use of strainers
- Medium has to be in correspondence with the corrosive resistance of the valve
- The valve must not be mechanical damaged during its service life

Duration of service life depends on regular maintenance.

High-pressure lift check valve Z15.4

PN 63 - 160, DN 50 – 150, T_{max}: 550°C

Check valve with flanges or butt weld ends, with non-asbestos gasket
Meets the requirements of **PED 97/23/EC**

- **LONG SERVICE LIFE** - SEATS ARE HARD FACED WITH WEAR RESISTANT AND CORROSION PROOF 17 CR METAL OR STELLITE
- **EASY MAINTENANCE** - THE SEAT CAN BE EASILY REPAIRED THANKS TO CONVENIENT ACCESS AND FLAT SEAT DESIGN
- **CUSTOMER RELATED SOLUTION** – DESIGN VARIANTS AND MATERIALS COMBINATION ON REQUEST, DIFFERENT CONNECTION TYPES, CORROSION RESISTANT MATERIALS FOR AGGRESSIVE FLUIDS



BASIC PARAMETERS

TYPE	High-pressure lift check valve Z15	
PN	63, 100, 160	
DN	50, 65, 80, 100, 125, 150	
APPLICATION	Water, steam, gas, oil, crude oil products, non-aggressive substances	
OPERATING TEMPERATURE [°C]	-10 ÷ 450	-10 ÷ 550
BODY MATERIALS	GP240GH (1.0619)	G17CrMo5-5 (1.7357)
OTHER MATERIALS ON REQUEST	42 2744 (to ČSN 42 0006), GX5CrNiMo19-11-2 (1.4408) and other	
CONNECTION	Butt weld ends, flanged, EN, ČSN, DIN	
FACE-TO-FACE DIMENSIONS	Butt weld ends acc to EN 12982, DIN 3203 or customers request Flanged acc. to EN 558	
OPERATION		
DESIGN	High-pressure lift check valve: ▪ straight – way pattern ▪ check valve disc ▪ to horizontal and vertical position	▪ seat/plug interface made of wear and corrosion resistant Cr steel or stellite ▪ with non asbestos gasket ▪ testing acc to. EN 12266-1
BASIC DESIGN OPTIONS	▪ Other designs of flanged and Butt-weld ends on your request ▪ Weld on connection branch from different forged materials	▪ Free from oil and grease ▪ Other testing requirements on request ▪ Delivery according to AD 2000 Merkblatt A4, TRD 110 and other standards on request

* We reserve the right to make design changes without any previous announcement.



PRESSURE-TEMPERATURE-RATINGS

Material	PN	Admissible operating pressure PS [bar] at operating temperature TS [°C]																		
		-50	-10	50	100	150	200	250	300	350	400	450	475	500	510	520	530	540	550	575
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	22	22	22	
	100	-	100	100	100	100	100	98	91	84	80	76	75	61	52	42	35	35	35	
	160	-	160	160	160	160	160	160	160	152	146	139	127	118	97	79	62	46	35	

MATERIALS:

Pos.	Part	Material	
1	Body	GP240GH (1.0619)	G17CrMo5-5 (1.7357)
	Welded seat	17Cr	Stellite
2	Cover	13CrMo4-5 (1.7335)	
3	Check plug	P250GH (1.0460)	13CrMo4-5 (1.7335)
	Welded seat	17CrMo	Stellite
4	Bolt	21CrMoV5-7 (1.7709)	21CrMoV5-7 (1.7709)
5	Hex. nut	25CrMo4 (1.7218)	25CrMo4 (1.7218)
6	Spring	Cr-Ni steel 17 242 to ČSN 417242	
7	Gasket	Graphite - camprofile	
8	Branch	P250GH (1.0460)	13CrMo4-5 (1.7335)

VALVE DIMENSIONS:

Flanged

Face-to-face dimensions:

Flanges:

Raised face:

Design variants on request:

Flanges design on request:

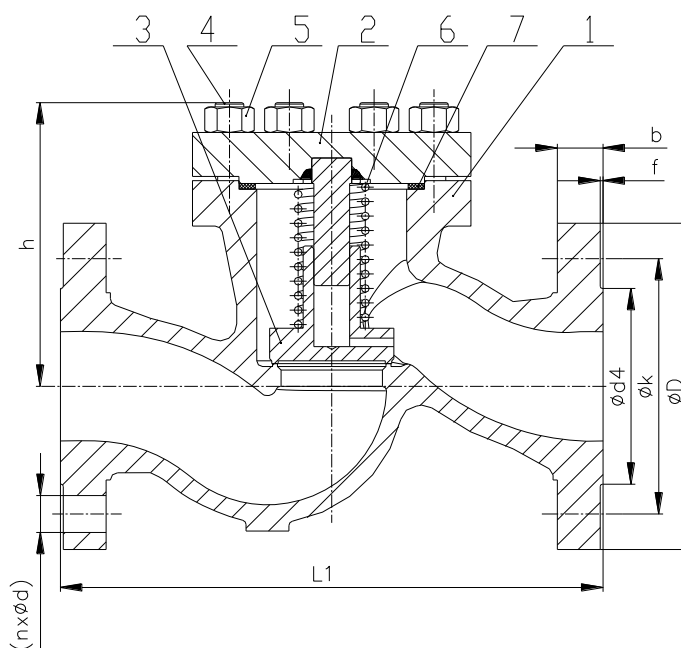
EN 558 – Line 2

EN 1092-1 (DIN 2501/1972)

EN 1092-1 Form B1 (DIN 2526/1975 - Form E)

ČSN 13 1160, and other

grooved or tongue EN 1092-1 Form C or Form D (previously DIN 2512/1975 – Form F or Form N), recessed or spigot EN 1092-1 – For, E or Form F (previously DIN 2513/1966 – Form V13 or Form R13), etc.



PN	DN	L ₁ (mm)	h (mm)	n	ød (mm)	øk (mm)	øD (mm)	b (mm)	ød _x f (mm)	m (kg)
63	50	300	148	4	22	135	180	26	102x2	24
	65	340	172	8	22	160	205	26	122x2	35
	80	380	200	8	22	170	215	28	138x2	42
	100	430	220	8	26	200	250	30	162x2	63
	125	500	240	8	30	240	295	34	188x2	87
100	150	550	275	8	33	280	345	36	218x2	140
	50	300	148	4	26	145	195	28	102x2	26
	65	340	172	8	26	170	220	30	122x2	39
	80	380	200	8	26	180	230	32	138x2	49
	100	430	220	8	30	210	265	36	162x2	74
160	125	500	240	8	33	250	315	40	188x2	101
	150	550	275	12	33	290	355	44	218x2	144
	50	300	148	4	26	145	195	30	102x3	27
	65	340	172	8	26	170	220	34	122x3	40
	80	380	200	8	26	180	230	36	138x3	50
160	100	430	220	8	30	210	265	40	162x3	75
	125	500	240	8	33	250	315	44	188x3	102
	150	550	275	12	33	290	355	50	218x3	146

VALVE DIMENSIONS

Weld ends

Face-to-face dimensions with connection branches:

Weld ends:

Groove form:

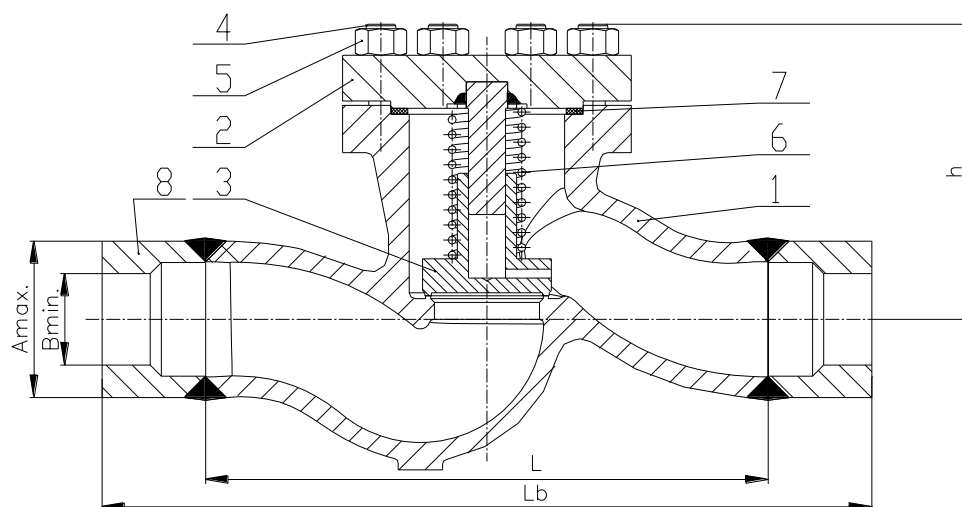
On your request:

as per table (Lb) on your request

DIN 3239 – Part 1

DIN 2559 - Sheet 1, Form 22

ČSN 13 1075, EN 12 627 and other



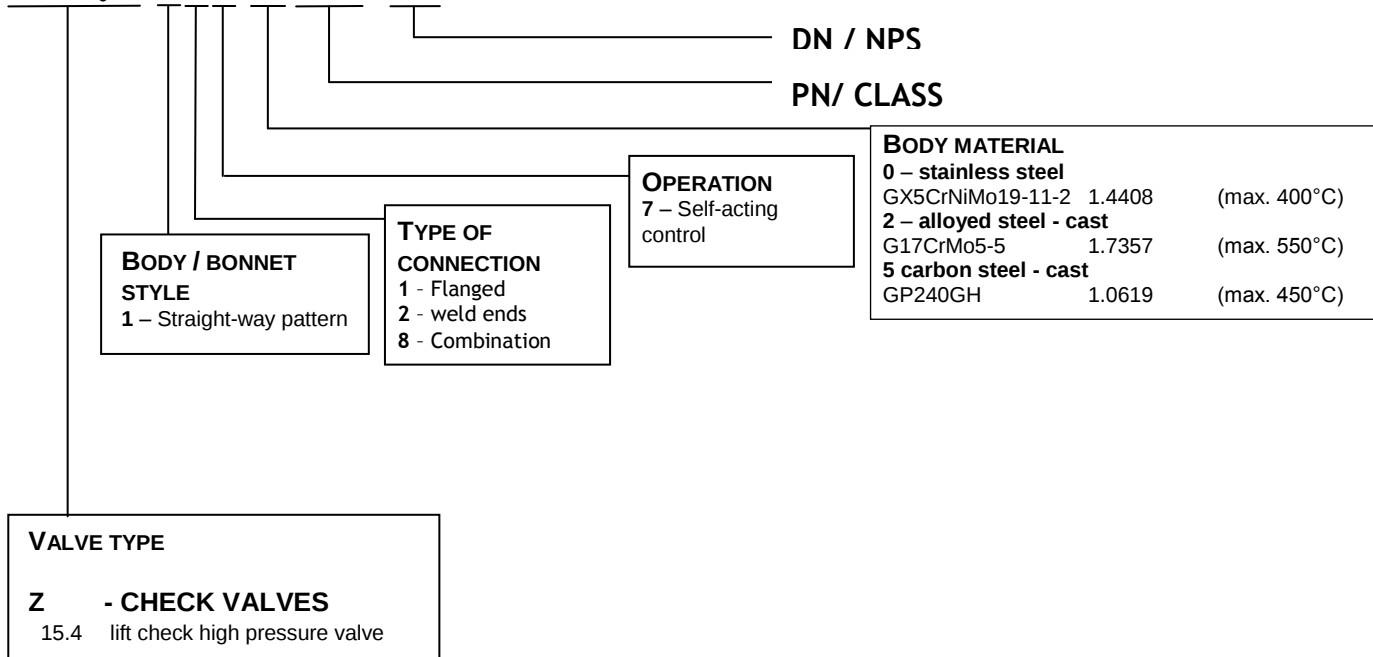
Nominal size	Face-to-face with out connection branches	Face-to-face with connection branches	Centre-to-top	Not machined butt weld ends		Butt-weld ends acc. to DIN 3239-1 Groove forms acc. to DIN 2559 – Sheet 1, Form 22				Hmotnost bez nátrubku [kg]		
						PN 63, 100	PN 63	PN100	PN160	PN 63	PN100	PN160
DN	L	Lb	h	Amax	Bmin	ød ₂	ød ₀	ød ₀	ød ₀			
50	260	400	148	74	42	61	54	54	52,5	32	35	36
65	340	480	172	94	52	77	69	69	65	44	52	53
80	380	520	200	105	62	90	81	81	76,5	50	63	64
100	430	570	220	126	78	115	104	104	98,5	75	97	98
125	500	650	240	145	109	141	130,5	127	120,5	113	134	135
150	550	710	275	175	125	170	156,5	154	144,5	192	196	198

Nominal size	Pipe dimension		
DN	PN63	PN100	PN160
50	60,3x3,2	60,3x3,2	60,3x4
65	76,1x3,6	76,1x3,6	76,1x5,6
80	88,9x4,0	88,9x4,0	88,9x6,3
100	114,3x5,0	114,3x5,0	114,3x8
125	139,7x4,5	139,7x6,3	139,7x10
150	168,3x5,6	168,3x7,1	168,3x12,5



VALVE DESCRIPTION CODE

Z15.4 117-2100-50



VALVE INSTALLATION:

Valve can be installed in any position. Medium has to enter the valve in correspondence with the arrow marked on the valve body. During the installation and use of the valve following points have to be respected

- Maximum working parameters mustn't exceed the maximum values from the table above.
- Right function and service life duration of the valve depends on presence of impurities in the medium. Keep the medium and piping clean by use of strainers
- Medium has to be in correspondence with the corrosive resistance of the valve
- The valve must not be mechanical damaged during its service life

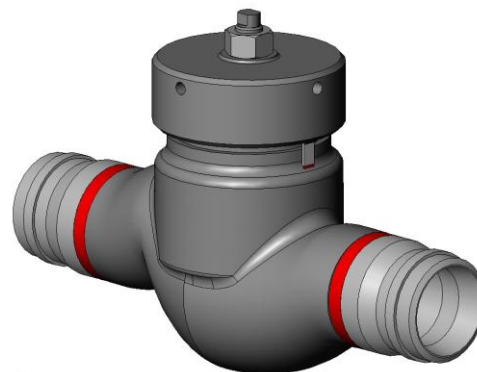
Duration of service life depends on regular maintenance.

High-pressure lift check valve Z15

PN 160 - 400, DN 65 – 150, T_{max}: 550°C

High-pressure lift check valve Z15 with flanges or butt weld ends, with non-asbestos gasket
Meets the requirements of **PED 97/23/EC**.

- **LONG SERVICE LIFE** - SEATS ARE HARD FACED WITH WEAR RESISTANT AND CORROSION PROOF 13 CR METAL OR STELLITE
- **EASY MAINTENANCE** - THE SEAT CAN BE EASILY REPAIRED THANKS TO CONVENIENT ACCESS AND FLAT SEAT DESIGN
- **CUSTOMER RELATED SOLUTION** – DESIGN VARIANTS AND MATERIALS COMBINATION ON REQUEST, DIFFERENT CONNECTION TYPES, CORROSION RESISTANT MATERIALS FOR AGGRESSIVE FLUIDS



BASIC PARAMETERS

TYPE	High-pressure lift check valve Z15	
PN	160, 250, 320, 400	
DN	65, 80, 100, 125, 150	
APPLICATION	Water, steam, oil, crude oil products, non-aggressive substances	
OPERATING TEMPERATURE [°C]	-10 ÷ 400	-10 ÷ 550
BODY MATERIALS	GP240GH (1.0619)	G17CrMo5-5 (1.7357)
OTHER MATERIALS ON REQUEST	acc to EN, ČSN, DIN	
CONNECTION	Butt weld ends, flanged, EN, ČSN, DIN	
FACE-TO-FACE DIMENSIONS	Flanged and butt weld ends acc, to manufacturers standard or customers request	
OPERATION		
DESIGN	High-pressure lift check valve: ▪ straight – way pattern ▪ check valve disc	▪ seat/plug interface made of wear and corrosion resistant Cr steel or stellite ▪ with non asbestos gasket ▪ testing acc to. DIN 3230-3 other on request
BASIC DESIGN OPTIONS	▪ Other designs of flanged and Butt-weld ends on your request ▪ Weld on connection branch from different forged materials	▪ Free from oil and grease ▪ Other testing requirements on request ▪ Delivery according to AD 2000 Merkblatt A4, TRD 110 and other standards on request

* We reserve the right to make design changes without any previous announcement.

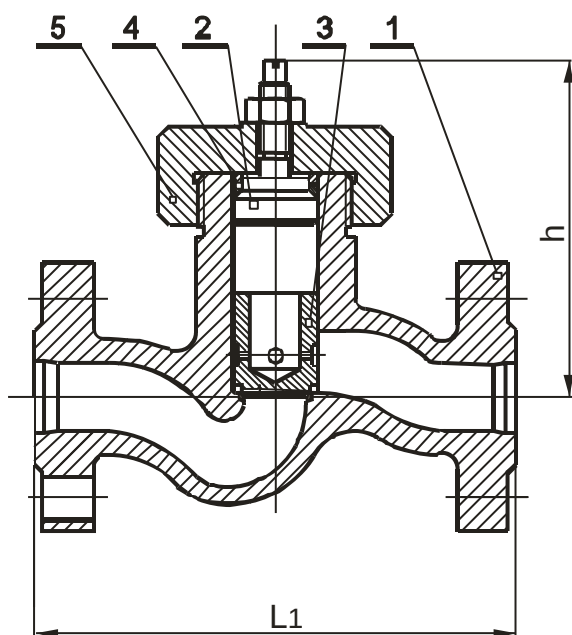
PRESSURE-TEMPERATURE-RATINGS

Material	PN	Admissible operating pressure PS [bar] at operating temperature TS [°C]																				
		-60	-10	50	100	150	200	250	300	350	400	425	450	475	500	510	520	530	540	550	560	575
GP240GH (1.0619)	160	-	160	160	160	157	128	110	94,1	88,3	78,5	-	-	-	-	-	-	-	-	-	-	-
	250	-	250	250	250	245	196	172	147	167	123	-	-	-	-	-	-	-	-	-	-	-
	320	-	320	320	320	314	245	221	188	177	157	-	-	-	-	-	-	-	-	-	-	-
	400	-	400	400	400	392	314	275	235	221	196	-	-	-	-	-	-	-	-	-	-	-
G17CrMo5-5 (1.7357)	160	-	160	160	160	160	160	160	157	150	143	139	136	129	116	98,1	77,5	60,8	45,1	34,3	-	-
	250	-	250	250	250	250	250	250	245	233	223	218	213	202	180	151	122	95,1	71,6	53	-	-
	320	-	320	320	320	320	320	320	314	298	286	279	273	259	232	196	155	122	91,2	67,7	-	-
	400	-	400	400	400	400	400	400	392	373	357	349	341	324	289	245	194	152	114	85,3	-	-

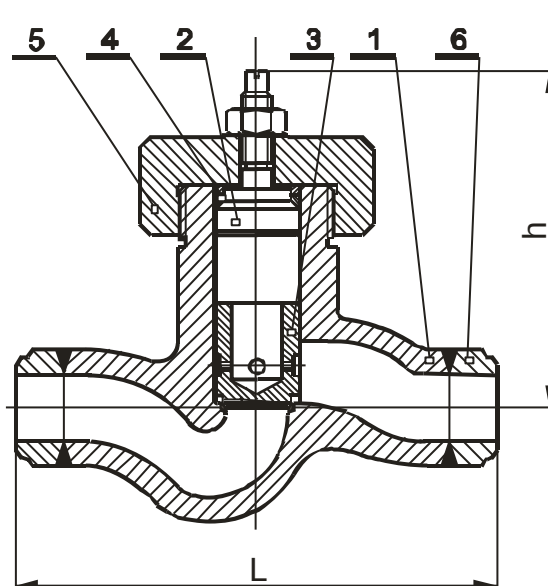
MATERIALS:

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

PN 160 - PN 250



PN 160 - PN 400



VALVE DIMENSIONS:

Weld ends

Face-to-face dimensions:

Butt weld ends:

Groove form:

On your request:

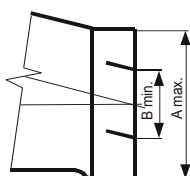
acc. to the tables (EN 12 982, part. 65, DIN 3202 – Part 2, Line S3)

DIN 3239 – Part 1 (EN 12 627)

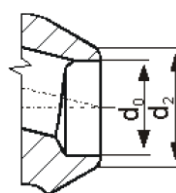
DIN 2559 – Sheet 1, Form 22

ČSN 13 1075 and other

Butt-weld ends



Butt weld end



Nominal pressure	Nominal size	Centre-to-top	Centre-to-top	But weld ends not machined		Butt-weld ends acc. to DIN 3239-1 Groove forms acc. to DIN 2559 – Sheet 1, Form 22		Weight approximately	Pipe dimensions
PN	DN	L	~h	ø A _{max}	ø B _{min}	ø d ₂	ø d ₀	m [kg]	
160	65	500	180	77	62	76,1	62,1	43	76,1x7
	80	600	240	89	73	80	76,5	76	88,9x8
	100	600	240	114,3	88	115	98,5	126	1)
	125	900	365	140	110	141	120,5	182	1)
	150	900	365	168,3	131	170	144,5	255	1)
250	65	500	180	76	52	77	59,5	43	76,1x8,8
	80	600	240	116	62	115	93	76	114,3x11
	100	600	240	138	84	117	1)	126	1)
	125	900	365	170	106	144	1)	182	1)
	150	900	365	198	133	172	1)	255	1)
320	65	500	180	93	48	90	68	2)	88,9x11
	80	600	240	116	62	115	87,5	2)	114,3x14,2
	100	600	240	138	84	117	1)	2)	1)
	125	900	365	179	106	144	1)	2)	1)
	150	900	365	198	133	172	1)	2)	1)
400	65	500	180	2)	2)	77	2)	2)	1)
	80	600	240	2)	2)	115	81	2)	1)
	100	600	240	2)	2)	117	1)	2)	1)
	125	900	365	2)	2)	144	1)	2)	1)
	150	900	365	2)	2)	172	1)	2)	1)

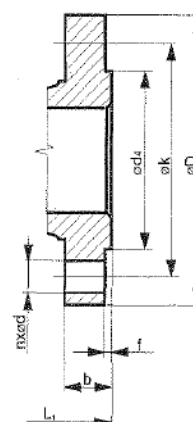
VALVE DIMENSIONS:

Flanged

Face-to-face dimensions: DIN 3202-Part 1 – Line F2 (PN160), DIN 3202-Part 1 – Line F3 (PN250)
Flanges: EN 1092-1 (DIN 2501/1972)
Raised face: EN 1092-1 – Form B1 (previously DIN 2526 - Form E)
Design variants on request: ČSN 13 1160 and other
Flanges design on request: grooved or tongue EN 1092-1 – Form C or Form D (previously DIN 2512/1975 – Form F or Form N), recessed or spigot EN 1092-1 – Form E or Form F (previously DIN 2513/1966 – Form V13 or R13), etc.

Other flanges design variants on your request.

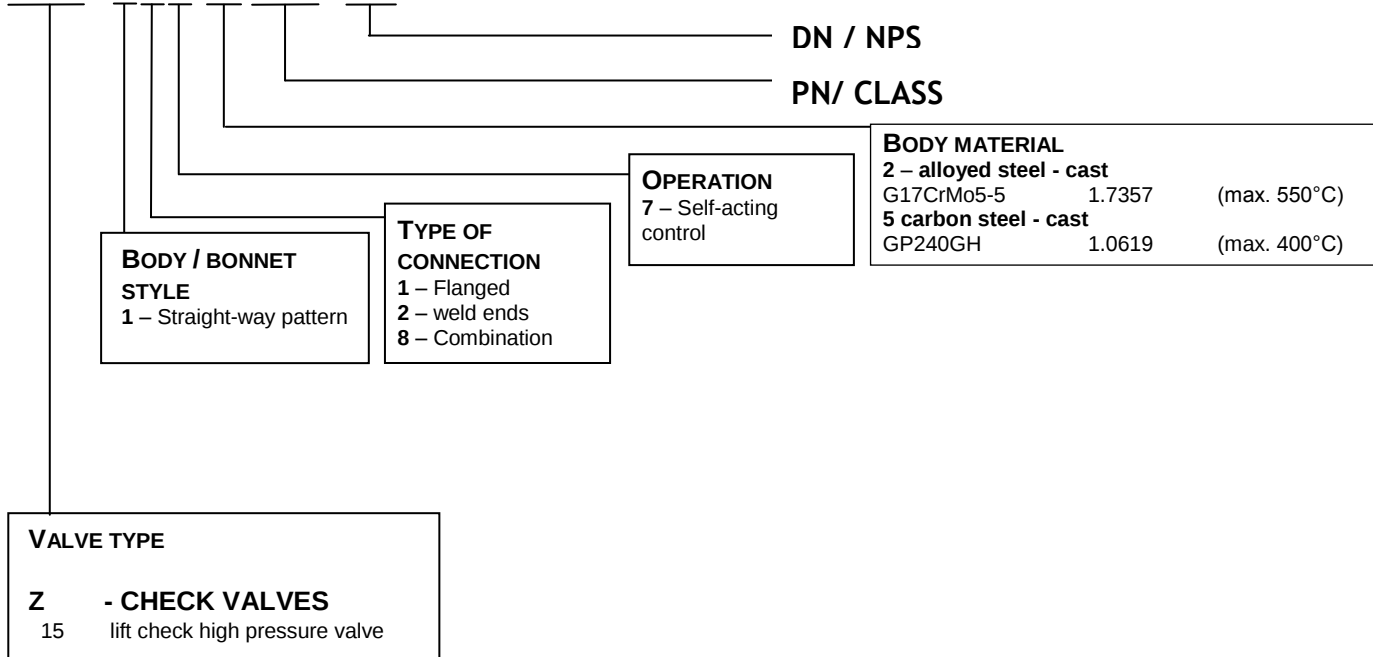
Nominal size	Centre-to-top	Disassembly height	PN 160						
			Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Weight approx.
DN	L ₁	h	n	ød	øk	øD	b	ød ₄ xf	m [kg]
65	340	180	8	26	170	220	34	122x3	54
80	380	240	8	26	180	230	36	138x3	90
100	430	240	8	30	210	265	40	162x3	139
125	500	365	8	33	250	315	44	188x3	213
150	550	365	12	33	290	355	50	218x3	296



Nominal size	Centre-to-top	Disassembly height	PN 250						
			Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Weight approx.
DN	L ₁	h	n	ød	øk	øD	b	ød ₄ xf	m [kg]
65	400	180	8	26	180	230	42	122x3	64
80	450	240	8	30	200	255	46	138x3	100
100	520	240	8	33	235	300	54	162x3	149
125	600	365	12	33	275	340	60	188x3	225
150	700	365	12	36	320	390	68	218x3	295

VALVE DESCRIPTION CODE

Z15 117-2160-65



VALVE INSTALLATION:

Lift check valve must always be installed in the line position. Medium has to enter the valve underneath the cone in correspondence with the arrow marked on the valve body. During the installation and use of the valve following points have to be respected:

- Maximum working parameters mustn't exceed the maximum values from the table above.
- Right function and service life duration of the valve depends on presence of impurities in the medium. Keep the medium and piping clean by use of strainers
- Medium has to be in correspondence with the corrosive resistance of the valve
- The valve must not be mechanical damaged during its service life

Duration of service life depends on regular maintenance.

Vertical lift check valve Z35

PN 16-250, DN 65-150 (DN 80 and DN125 only up to PN100), T_{max}: 300°C

Vertical lift check valve Z 35 with flanges.
Meets the requirements of **PED 97/23/EC**, EN 13709.



- **LONG SERVICE LIFE** - SEATS ARE HARD FACED WITH WEAR RESISTANT AND CORROSION PROOF 13 CR METAL OR STELLITE
- **EASY MAINTENANCE** - THE SEAT CAN BE EASILY REPAIRED THANKS TO CONVENIENT ACCESS AND FLAT SEAT DESIGN
- **CUSTOMER RELATED SOLUTION** – DESIGN VARIANTS AND MATERIALS COMBINATION ON REQUEST, DIFFERENT CONNECTION TYPES, CORROSION RESISTANT MATERIALS FOR AGGRESSIVE FLUIDS

BASIC PARAMETERS

TYPE	Vertical lift check valve Z35	
PN	16, 40, 63, 100, 160, 250	
DN	65, 80, 100, 125, 150 (DN80 and DN125 only up to PN100)	
APPLICATION	Water, non-aggressive liquids	
OPERATING TEMPERATURE [°C]	-10 ÷ 300	
BODY MATERIALS	GP240GH (1.0619)	
OTHER MATERIALS ON REQUEST	42 2643, 42 2714, 42 2744 (to ČSN 42 0006), GX5CrNiMo19-11-2 (1.4408)	
CONNECTION	Flanged, EN, ČSN, DIN	
FACE-TO-FACE DIMENSIONS	Flanged acc. to EN 558	
OPERATION		
DESIGN	Vertical lift check valve: ▪ Straight – way pattern ▪ Check valve disc	▪ Seat interface made of wear and corrosion resistant Cr steel or stellite ▪ Testing acc to. ČSN EN12 2661, part 3, BA other on request
BASIC DESIGN OPTIONS	▪ Other designs of flanged	▪ Other testing requirements on request ▪ Delivery according to AD 2000 Merkblatt A4, TRD 110 and other standards on request

* We reserve the right to make design changes without any previous announcement.

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
GP240GH (1.0619)	16	16	16	14,9	13,9	12,4	11,4	10,3	-	-	-
	25	25	25	23,3	21,7	19,4	17,8	16,1	-	-	-
	40	40	40	37,3	34,7	30,2	28,4	25,8	-	-	-
	63	63	63	58,8	54,6	47,6	44,8	40,6	-	-	-
	100	100	100	93,3	86,7	75,6	71,1	64,4	-	-	-
	160	160	160	160	157	128	110	94,1	-	-	-
	250	250	250	250	245	196	172	147	-	-	-

MATERIALS:

Pos.	Part	Material
1	Body	GP240GH (1.0619)
	Welded seat	13 Cr
2	Disk	X20Cr13 (1.4021)

VALVE DIMENSIONS:

Flanged

Face-to-face dimensions:

see table

Flanges:

EN 1092-1, (DIN 2501/1972)

Raised face:

EN 1092-1 – Form B1 (previously DIN 2526 - Form E)

Design variants on request:

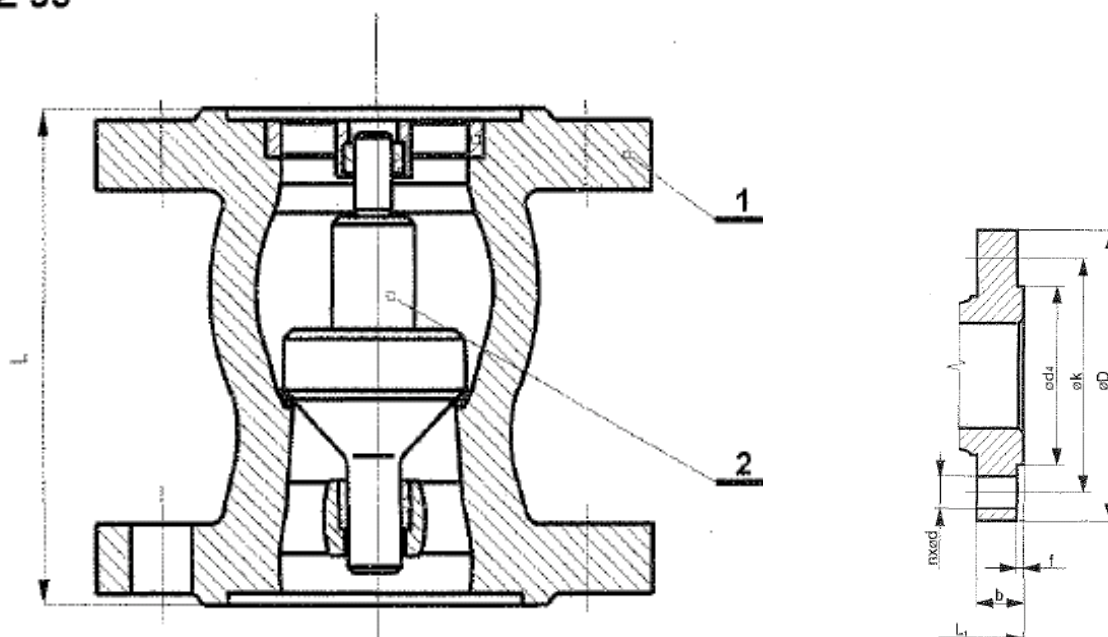
ČSN 13 1160, and other

Flanges design on request:

grooved or tongue EN 1092-1 – Form C or Form D (previously DIN 2512/1975 – Form F or Form N), recessed or spigot EN 1092-1 – Form E or Form F (previously DIN 2513/1966 – Form V13 or Form R13), etc.

Other flanges design variants on your request.

Z 35



Vertical lift check valve Z35, PN16-250

Catalogue page 431
11-2013en



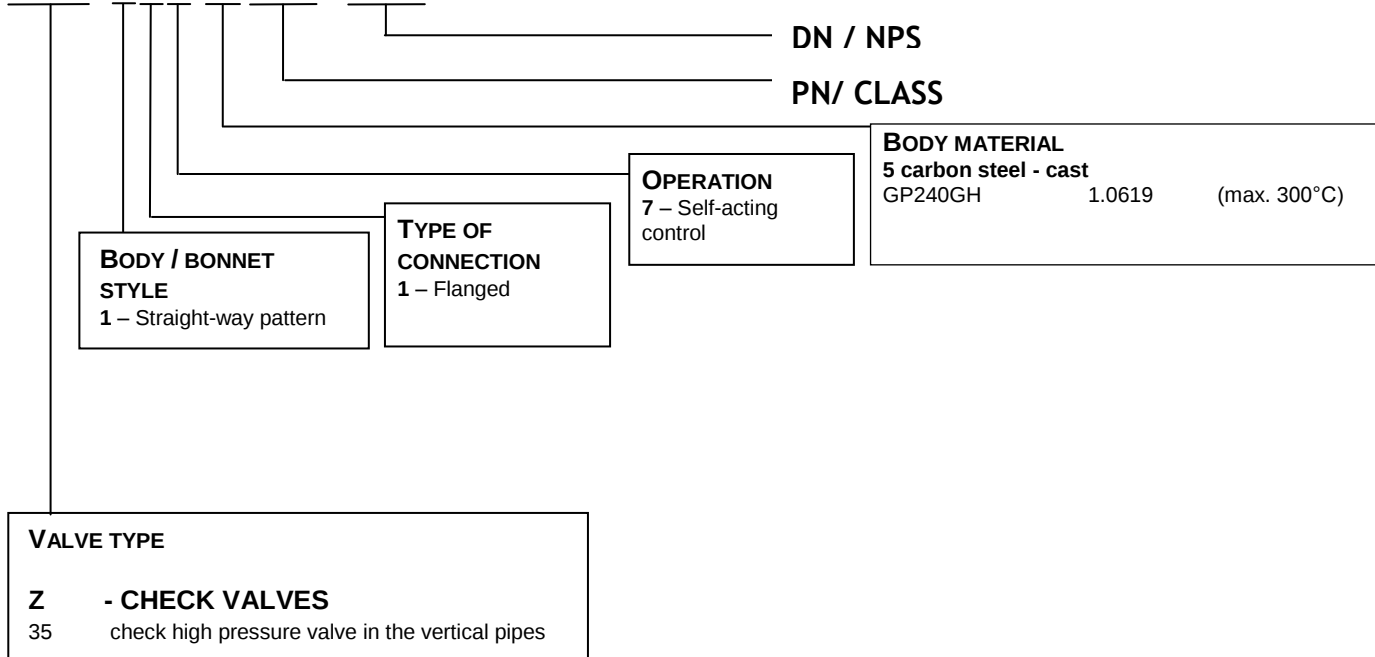
Nominal size	Face-to-face dimension	PN 16							PN 40						
		Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Weight approx.	Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Weight approx.
DN	L	n	ød	øk	øD	a	ød ₄ xf	m [kg]	n	ød	øk	øD	a	ød ₄ xf	m [kg]
65	180	8	18	145	185	18	122x3	12,0	8	18	145	185	22	122x3	12,8
80	200	8	18	160	200	20	138x3	15,4	8	18	160	200	24	138x3	16,9
100	230	8	18	180	220	20	158x3	18,5	8	22	190	235	24	162x3	21,0
125	280	8	18	210	250	22	188x3	28,0	8	26	220	270	26	188x3	31,0
150	330	8	22	240	285	22	212x3	43,0	8	26	250	300	28	218x3	47,0

Nominal size	Face-to-face dimension	PN 63							PN 100						
		Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Weight approx.	Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Weight approx.
DN	L	n	ød	øk	øD	a	ød ₄ xf	m [kg]	n	ød	øk	øD	b	ød ₄ xf	m [kg]
65	180	8	22	160	205	26	132x3	16,3	8	26	170	220	30	140x3	19,6
80	200	8	22	170	215	28	142x3	20,0	8	26	180	230	32	150x3	23,0
100	230	8	26	200	250	30	170x3	27,1	8	30	210	265	36	175x3	32,0
125	280	8	30	240	295	34	205x3	44,0	8	33	250	315	40	210x3	52,0
150	330	8	33	280	345	36	240x3	66,0	12	33	290	355	44	250x3	76,0

Nominal size	Face-to-face dimension	PN 160							PN 250						
		Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Weight approx.	Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Weight approx.
DN	L	n	ød	øk	øD	a	ød ₄ xf	m [kg]	n	ød	øk	øD	a	ød ₄ xf	m [kg]
65	200	8	26	170	220	42	120x3	25,0	8	26	180	230	48	130x3	30,0
100	230	8	30	210	265	50	160x3	46,0	8	33	235	300	57	170x3	62,0
150	300	12	33	290	355	62	220x3	104,0	12	36	320	390	70	240x3	133,0

VALVE DESCRIPTION CODE

Z35 117-5100-150



VALVE INSTALLATION:

Lift check valve must always be installed in the vertical position. Medium has to enter the valve underneath the cone in correspondence with the arrow marked on the valve body. During the installation and use of the valve following points have to be respected:

- Maximum working parameters mustn't exceed the maximum values from the table above.
- Right function and service life duration of the valve depends on presence of impurities in the medium. Keep the medium and piping clean by use of strainers
- Medium has to be in correspondence with the corrosive resistance of the valve
- The valve must not be mechanical damaged during its service life

Duration of service life depends on regular maintenance.

Vertical lift check valve with automatic relief Z40

PN 16-100, DN 65-150, T_{max}: 300°C

Vertical lift check valve with automatic relief Z40 with flanges
Meets the requirements of **PED 97/23/EC**, EN 13709.

- **LONG SERVICE LIFE** - SEATS ARE HARD FACED WITH WEAR RESISTANT AND CORROSION PROOF 13 CR METAL OR STELLITE
- **EASY MAINTENANCE** - THE SEAT CAN BE EASILY REPAIRED THANKS TO CONVENIENT ACCESS AND FLAT SEAT DESIGN
- **CUSTOMER RELATED SOLUTION** – DESIGN VARIANTS AND MATERIALS COMBINATION ON REQUEST, DIFFERENT CONNECTION TYPES, CORROSION RESISTANT MATERIALS FOR AGGRESSIVE FLUIDS



BASIC PARAMETERS

TYPE	Vertical lift check valve with automatic relief Z40	
PN	16, 40, 63, 100	
DN	65, 80, 100, 125, 150	
APPLICATION	Water, non-aggressive liquids	
OPERATING TEMPERATURE [°C]	-10 ÷ 300	
BODY MATERIALS	GP240GH (1.0619)	
OTHER MATERIALS ON REQUEST	42 2643, 42 2714, 42 2744 (to ,CSN 42 0006), GX5CrNiMo19-11-2 (1.4408)	
CONNECTION	Flanged, EN, ČSN, DIN	
FACE-TO-FACE DIMENSIONS	Flanged acc. to EN 558	
OPERATION		
DESIGN	Vertical lift check valve: ▪ Straight – way pattern ▪ Check valve disc	▪ Seat interface made of wear and corrosion resistant Cr steel or stellite ▪ Testing acc to. DIN 3230, part 3, BA other on request
BASIC DESIGN OPTIONS	▪ Other designs of flanged	▪ Other testing requirements on request ▪ Delivery according to AD 2000 Merkblatt A4, TRD 110 and other standards on request
ON ALL ENQUIRIES/ORDERS PLEASE SPECIFY	▪ Pressure before expander ▪ Needed pressure behind an expander ▪ Needed flow quantity over expander	▪ Medium ▪ Temperature of medium

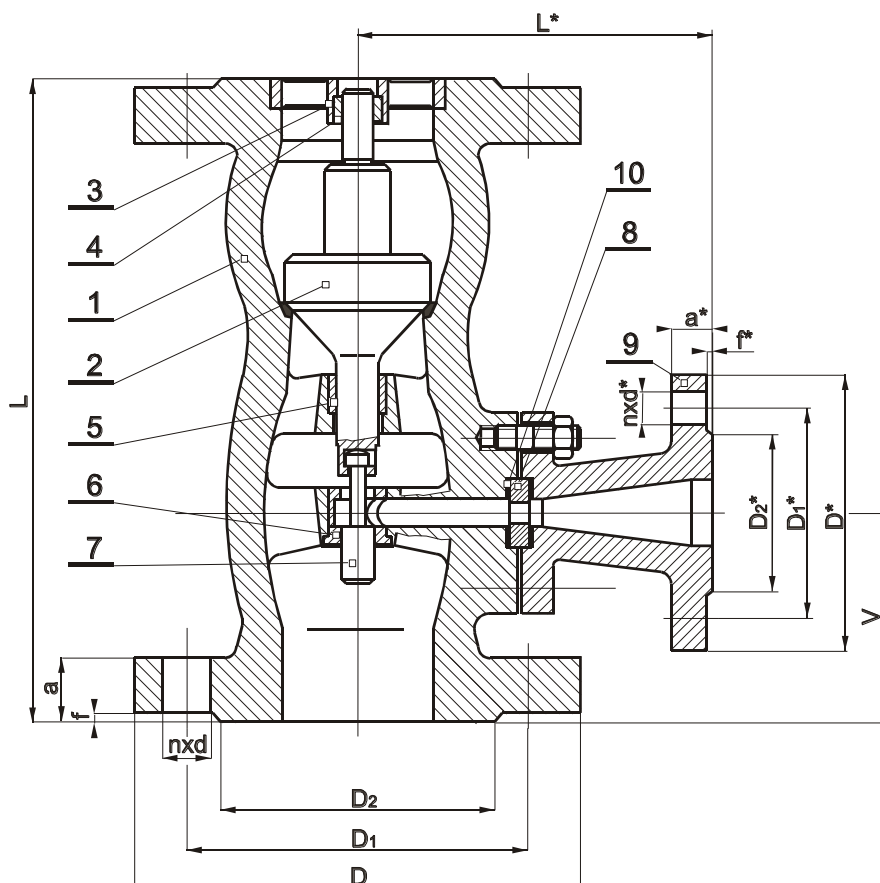
* We reserve the right to make design changes without any previous announcement.

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
GP240GH (1.0619)	16	16	13	14,9	13,9	12,4	11,4	10,3	-	-	-
	40	40	40	37,3	34,7	30,2	28,4	25,8	-	-	-
	63	63	63	58,8	54,6	47,6	44,8	40,6	-	-	-
	100	100	100	93,3	86,7	75,6	71,1	64,4	-	-	-

MATERIALS:

Pos.	Part	Material
1	Body	GP240GH (1.0619)
	Body seat surface	13 Cr
2	Disk	X20Cr13 (1.4021)
3	Disk guide	11 523
4, 5	Bushing	ČSN 02 3499
6	Bushing	17 023
7	Relief piston	17 029
8	Orifice plate	REAL 096
9	Relief branch	P265GH (1.0425)
10	Gasket	Non asbestos
11	Bolt	25CrMo4 (1.7218)
12	Nut	C35E+QT (1.1181)



VALVE DIMENSIONS:

Flanged

Face-to-face dimensions:

Flanges:

Raised face:

Design variants on request:

Flanges design on request:

EN 558 - Part 1 (PN16-40), EN 558 - Part 2 (PN63-100)

EN 1092-1, (DIN 2501/1972)

EN 1092-1 – Form B1 (previously DIN 2526 - Form E)

ČSN 13 1160, and other

grooved or tongue EN 1092-1 – Form C or Form D (previously DIN 2512/1975 – Form F or Form N), recessed or spigot EN 1092-1 – Form E (previously DIN 2513/1966 – Form V13), EN1092-1 – Form B1 (previously DIN 2526 – Form E), etc.

EN 1092-1 – Form B1 (previously DIN 2526 – Form E)

Other flanges design variants on your request.

Nominal size	Face-to-face dimension	Face-to-face dimension	Disassembly height	PN 16												
				Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Weight approx.
DN	L	L*	V	n	ød	øD1	øD	a	øD ₂ xf	n	ød*	øD1*	øD*	øa*	øD ₂ *xf	m [kg]
65	290	150	90	4	18	145	185	18	122x3	4	14	85	115	16	68x2	24,0
80	310	154	100	4	18	160	200	20	138x3	4	14	85	115	16	68x2	26,0
100	350	200	110	8	18	180	220	20	158x3	4	18	110	145	18	88x3	41,0
125	400	210	125	8	18	210	250	22	188x3	4	18	110	145	18	88x3	55,0
150	480	260	160	8	23	240	285	22	212x3	8	18	145	180	22	122x3	80,0

Nominal size	Face-to-face dimension	Face-to-face dimension	Disassembly height	PN 40												
				Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Weight approx.
DN	L	L*	V	n	ød	øD1	øD	a	øD ₂ xf	n	ød*	øD1*	øD*	øa*	øD ₂ *xf	m [kg]
65	290	150	90	8	18	145	185	22	122x3	4	14	85	115	18	68x2	24,0
80	310	154	100	8	18	160	200	24	138x3	4	14	85	115	18	68x2	26,0
100	350	200	110	8	26	190	235	24	162x3	4	18	110	145	18	88x3	41,0
125	400	210	125	8	27	220	270	26	188x3	4	18	110	145	18	88x3	55,0
150	480	260	160	8	27	250	300	28	218x3	8	18	145	180	22	122x3	80,0

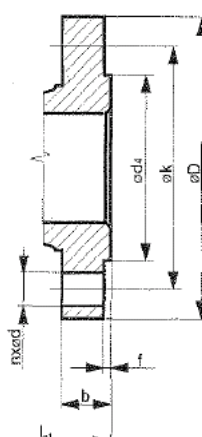
Vertical lift check valve with automatic relief Z40, PN16-100

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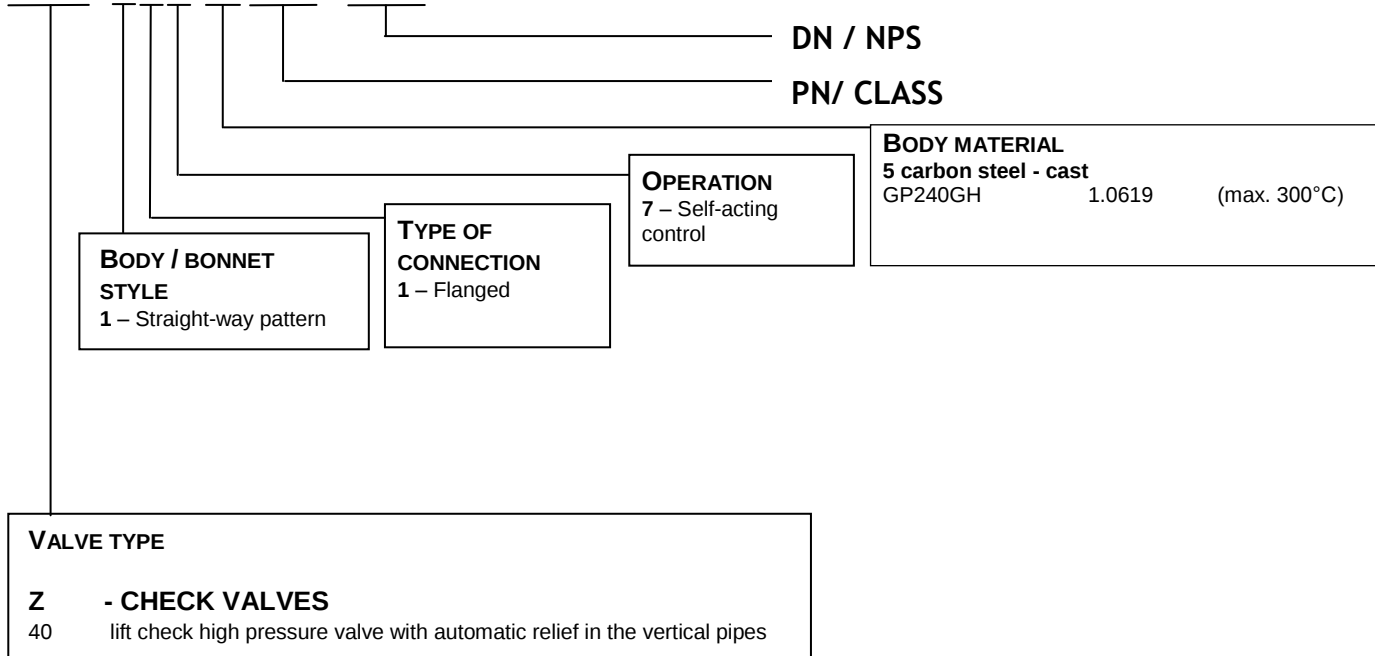


Nominal size	Face-to-face dimension	Face-to-face dimension	Disassembly height	PN 63												Weight approx.
				Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	
DN	L	L*	V	n	ød	øD1	øD	a	øD ₂ xf	n	ød*	øD1*	øD*	øa*	øD ₂ *xf	m [kg]
65	340	192	110	8	23	160	205	26	110x3	4	18	100	135	24	58x3	40,0
80	380	200	120	8	23	170	215	28	121x3	4	18	100	135	24	58x3	46,0
100	430	215	125	8	27	200	250	30	150x3	4	23	125	165	26	76x3	64,0
125	500	230	140	8	30	240	295	34	176x3	4	23	125	165	26	76x3	68,0
150	550	230	190	8	33	280	345	36	204x3	8	27	170	220	30	110x3	120,0

Nominal size	Face-to-face dimension	Face-to-face dimension	Disassembly height	PN 100												Weight approx.
				Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	
DN	L	L*	V	n	ød	øD1	øD	a	øD ₂ xf	n	ød*	øD1*	øD*	øa*	øD ₂ *xf	m [kg]
65	340	192	110	8	27	170	220	30	110x3	4	18	100	135	24	58x3	45,0
80	380	200	120	8	27	180	230	32	121x3	4	18	100	135	24	58x3	50,0
100	430	215	125	8	30	210	265	36	150x3	4	23	125	165	26	76x3	64,0
125	500	230	140	8	33	250	315	40	176x3	4	23	125	165	26	76x3	72,0
150	550	230	190	12	33	290	355	44	204x3	8	27	170	220	30	110x3	136,0



Z40 117-5100-150



VALVE INSTALLATION:

Lift check valve must always be installed in the vertical position. Medium has to enter the valve underneath the cone in correspondence with the arrow marked on the valve body. During the installation and use of the valve following points have to be respected:

- Maximum working parameters mustn't exceed the maximum values from the table above.
- Right function and service life duration of the valve depends on presence of impurities in the medium. Keep the medium and piping clean by use of strainers
- Medium has to be in correspondence with the corrosive resistance of the valve
- The valve must not be mechanical damaged during its service life

Duration of service life depends on regular maintenance.