

FIG.297 (ex.292s, 444s)



CHECK VALVE zCHE



Body material	Nominal pressure	Nominal diameter	Max. temperature
G Forged steel	E 40 bar	DN 15-50	450°C
F Cast steel	E 40 bar	DN 65-300	450°C
M Stainless steel	E 40 bar	DN 15-25	400°C
I Cast stainless steel	E 40 bar	DN 32-300	400°C



correspond to the pressure equipment directive 2014/68/UE marking CE for DN≥32

FEATURES

- closing tightness class D acc. to EN -12266-1
- compact settlement
- environment-friendly
- no maintenance
- face-to-face dimension according to EN 558 series 1

APPLICATION *

* not all of the applications are suitable for all of the executions
On the website www.zetkama.com.pl is a Chemical Resistance List, which specifies the parameters of work for a given medium

industries



INDUSTRY



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INDUSTRY

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INDUSTRIAL
WATER



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STEAM



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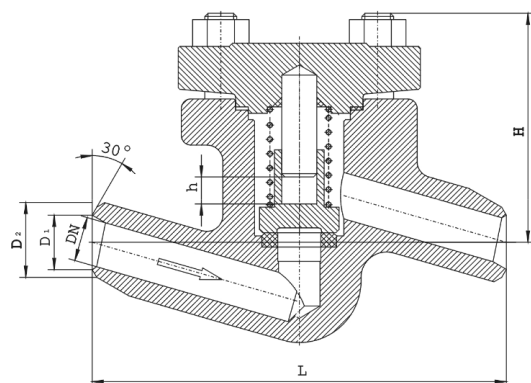
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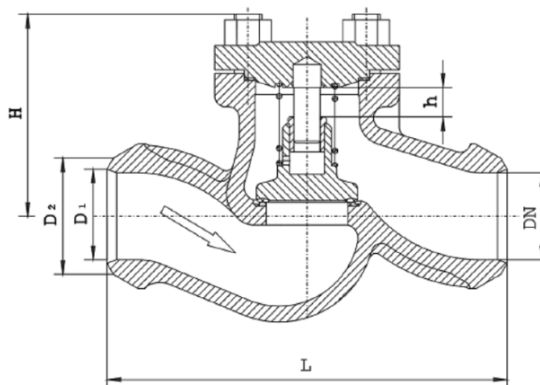
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MATERIAŁY, WYMIARY

Body material M DN 15-25
Body material G DN 15-50



Body material I DN 32-300
Body material F DN 65-300



	Body material	G DN 15-50	F DN 65-300	M DN 15-25	I DN 32-300
	Type	31	31	31	31
1	Body	P245GH	GP240GH	X6CrNiTi18-10	GX5CrNiMo19-11-2
2	Cover	P265GH	P265GH	X6CrNiTi18-10	X6CrNiTi18-10
3	Disc	X20Cr13	X20Cr13 DN 15-80 / P245GH DN 100-200 / P265GH DN250-300 (Seat 18-8 CrNi DN 100-300)	X6CrNiTi18-10	GX5CrNiMo19-11-2
4	Gasket	Graphite CrNi			
Max. temperature		450°C			400°C

Body material	F, I													
DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
D1 (mm)	17	22	28	37	43	54	70	82	105	132	159	208	257	325
D2 (mm)	22	28	34	43	49	61	83	96	121	147	176	228	282	331
L (mm)	130	130	130	160 (180)	180 (200)	210 (230)	290	310	350	400	480	600	730	850
H (mm)	56	56	80	105	112	122	150	170	195	203	223	274	360	420
h (mm)	7	7	8	8	10	10	16	20	25	32	45	60	65	110
Weight (kg)	1,3	1,8	2,5	6,0	8,0	12,0	16,0	24,0	35,0	42,0	68,0	120,0	165,0	280,0

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PRESSURE-TEMPERATURE RATINGS

	PN		-29÷ -10°C	-10÷ 50°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
GP240GH P250 GH	40	bar	30	40	37,1	35,2	33,3	30,4	27,6	25,7	23,8	13,1
X6CrNiTi18-10 GX5CrNiMo19-11-2	40	bar	30	40	40	36,3	33,7	31,8	29,7	28,5	27,4	-

Other type of valves on request.

TYPE

Figure	Body material	Nominal diameter	Nominal pressure	Type
297	G Forged steel P245GH	15-50 mm	E 40 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel
297	F Cast steel GP240GH	65-300 mm	E 40 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel
297	M Stainless steel X6CrNiTi18-10	15-25 mm	E 40 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel
297	I Cast stainless steel GX5CrNiMo19-11-2	32-300 mm	E 40 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel

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FIG.297 (ex.292s, 444s)

ORDERING

Figure	Body material	Nominal diameter	Nominal pressure	Type
297	G Forged steel P245GH	15-50 mm	E 40 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel

Order example acc. index

297 G 050 E 31

297 G 050 E 31

Check valves, ends welded, form straight
Forged steel P245GH
Nominal diameter (mm)
Nominal pressure PN 40
Loose disc with spring; stem, disc and seat ring - stainless steel



CHECK VALVE zCHE



Body material	Nominal pressure	Nominal diameter	Max. temperature
G Forged steel	F 63 bar	DN 15-25	450°C
	G 100 bar	DN 15-25	
	H 160 bar	DN 15-50	
F Cast steel	F 63 bar	DN 32-200	450°C
	G 100 bar	DN 32-200	
	H 160 bar	DN 65-200	
Q Alloy steel	F 63 bar	DN 15-200	550°C
	G 100 bar		
	H 160 bar		



correspond to the pressure equipment directive 2014/68/UE marking CE for DN≥32

FEATURES

- closing tightness class D acc. to EN -12266-1
- compact settlement
- environment-friendly
- tests acc. to EN - 12266 - 1

APPLICATION *

* not all of the applications are suitable for all of the executions
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industries



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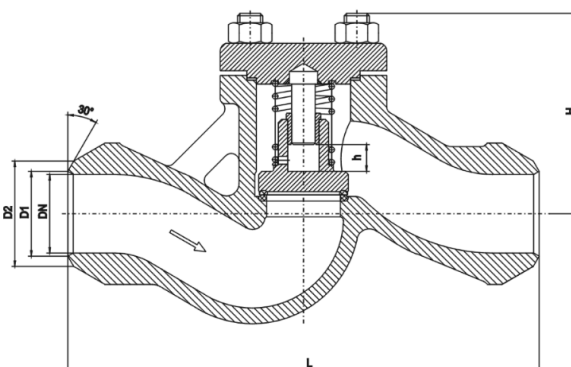
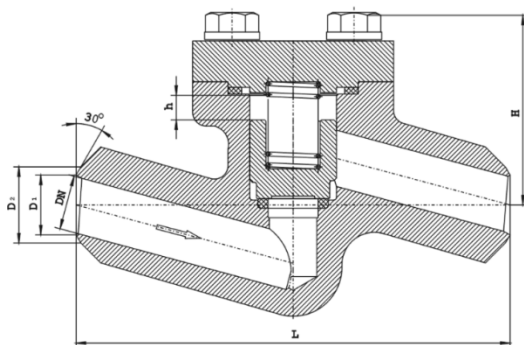
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MATERIALS, DIMENSIONS

DN 15-25 PN63, 100
DN 15-50 PN160

DN 32-200 PN63, 100
DN 65-200 PN160



	Body material	G	F	Q	Q
	Type	31	31	31	31
	PN	63 – 100 DN15-25 160 DN15-50	63 – 100 DN32-200 160 DN65-200	63 – 100 DN15-25 160 DN15-50	63 – 100 DN32-200 160 DN65-200
1	Body	P245GH	GP240GH	13 Cr Mo 4 5	G17 CrMo 9- 10
2	Seat ring	18-8 Cr Ni	18-8 Cr Ni	Stellite	Stellite
3	Cover	P245 GH	P245 GH	13 Cr Mo 4 5	13 Cr Mo 4 5
5	Disc (padding)	18-8 Cr Ni		Stellite	
6	Gasket	Graphite			
Max. temperature		450°C		550°C	

DN	15	20	25	32	40	50	65	80	100	150	200
L(mm)	160	160	160	230	230	300	340	380	430	550	65
H (mm)	52	56	65	100	120	125	160	175	235	337	415
h (mm)	10	12	15	22	22	22	41	46	42	83	70
Weight (kg)	1,5	2,1	2,8	6,6	8,9	13,5	25	29	45	101	---

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PRESSURE-TEMPERATURE RATINGS

		Temperature [° C]																		
Material	PN	-10 < do <50	100	150	200	250	300	350	400	450	460	470	480	490	500	510	520	530	540	550
P245GH GP240 GH	63	63	58,5	55,5	52,5	48,0	43,5	40,5	37,5	20,7	-	-	-	-	-	-	-	-	-	-
	100	100	92,8	88,0	83,3	76,1	69,0	64,2	59,5	32,8	-	-	-	-	-	-	-	-	-	-
	160	160	148,5	140,9	133,3	121,9	110,4	102,8	95,2	52,5	-	-	-	-	-	-	-	-	-	-
13CrMo4-5	63	63	63	63	63	63	63	60,0	56,7	53,1	50,5	47,9	45,4	42,8	41,1	34,8	28,2	23,4	18,3	14,7
	100	100	100	100	100	100	100	95,2	90,0	84,2	80,2	76,1	72,0	68,0	65,2	55,2	44,7	37,1	29,0	23,3
	160	160	160	160	160	160	160	152,3	144,0	134,8	128,3	121,8	115,3	108,8	104,3	88,3	71,6	59,4	46,4	37,3

DIMENSIONS OF WELDING ENDS

DN		15	20	25	32	40	50	65	80	100	150	200
PN63	D1 (mm)	17	22	28	37	43	54	70	82	104	154	204,5
	D2 (mm)	22	28	34	43	54	67	83	96	115	176	223
PN100	D1 (mm)	17	22	28	37	43	54	70	82	104	154	199,5
	D2 (mm)	22	28	34	43	54	67	83	96	115	176	223
PN160	D1 (mm)	17	22	27	35	41	51	65	76,5	98,5	144,5	189
	D2 (mm)	24	28	34	43	49	62	77	91	117	172	223

Other type of valves on request:

- stellited seat
- hardened disc
- stellited disc
- other

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TYPE

Figure	Body material	Nominal diameter	Nominal pressure	Type
297	G Forged steel P245GH	15-50 mm	H 160 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel
		15-25 mm	G 100 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel
		15-25 mm	F 63 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel
	F Cast steel GP240GH	65-200 mm	H 160 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel
		32-200 mm	G 100 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel
		32-200 mm	F 63 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel
	Q Alloy steel 13CrMo4-5	15-50 mm	H 160 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel
		15-25 mm	G 100 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel
		15-25 mm	F 63 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel
	Q Alloy steel G17 CrMo 9- 10	65-200 mm	H 160 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel
		32-200 mm	G 100 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel
		32-200 mm	F 63 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel

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ORDERING

Figure	Body material	Nominal diameter	Nominal pressure	Type
297	G Forged steel P245GH	15-50 mm	H 160 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel

Order example acc. index

297 G 050 H 31

Check valves, ends welded, form straight

Forged steel P245GH

Nominal diameter (mm)

Nominal pressure PN 160

Loose disc with spring; stem, disc and seat ring - stainless steel

297 G 050 H 31

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