

FIG.287

 CHECK VALVE zCHE



Body material	Nominal pressure	Nominal diameter	Max. temperature
A Grey cast iron	C 16 bar	DN 15-300	300°C
C Nodular cast iron	C 16 bar D 25 bar	DN 15-200	350°C
F Cast steel	E 40 bar	DN 15-200	450°C
I Cast stainless steel	E 40 bar	DN 15-200	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 558-1 series 1
- flanges drilled according to EN 1092-1 for type F, I
- flanges drilled according to EN 1092-2 for type A, C

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	SHIPBUILDING INDUSTRY	HEATING	REFRIGERATION AND AIR CONDITIONING	CHEMICAL INDUSTRY		
media							
	GLYCOL	INDUSTRIAL WATER	DIATHERMIC OIL	STEAM	COMPRESSED AIR	NEUTRAL FLUIDS	HYDROGEN

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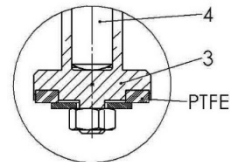
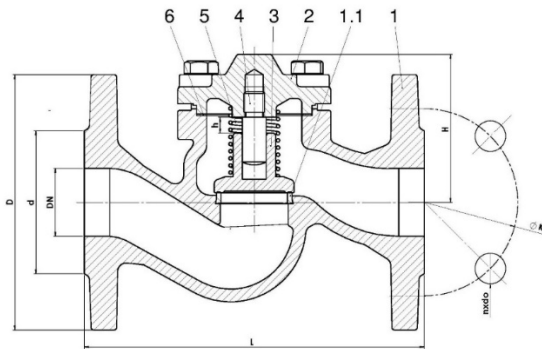
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FIG.287
MATERIALS, DIMENSIONS

Type 38* DN 15-150



* (max. temperature 200°C – on request)

	Body material	A	C	A	C
	Type	31; 41		33; 43	
1	Body	EN – GJL-250 5.1301 (ex. JL1040)	EN – GJS-400-18 5.1303 (ex. JS1025)	EN – GJL-250 5.1301 (ex. JL1040)	EN – GJS-400-18 5.1303 (ex. JS1025)
1.1	Seat ring	X20Cr13 1.4021		CuSn10	
2	Cover	EN – GJL-250 5.1301 (ex. JL1040)	EN – GJS-400-18 5.1303 (ex. JS1025)	EN – GJL-250 5.1301 (ex. JL1040)	EN – GJS-400-18 5.1303 (ex. JS1025)
3	Disc	X12Cr13 1.4021		CuSn10	
4	Stem	X12Cr13 1.4021		CuSn10	
5	Spring	X17CrNi16-2 1.4057		CuSn6	
6	Gasket	Graphite CrNi			
Max. temperature		300°C	350°C	225°C	

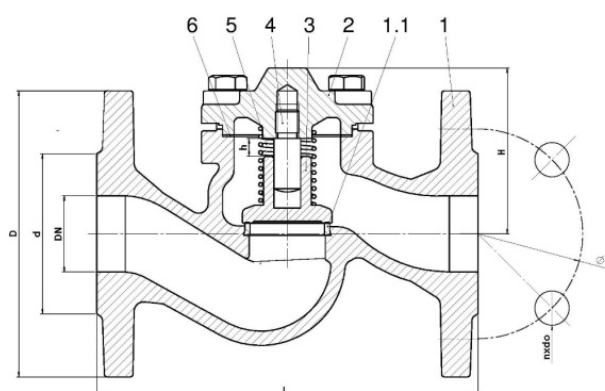
DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300
L		130	150	160	180	200	230	290	310	350	400	480	600	730	850
PN16 EN – GJL-250 EN – GJS-400-18	D	95	105	115	140	150	165	185	200	220	250	285	340	405	460
	d	46	56	65	76	84	99	118	132	156	184	211	266	319	370
	K	65	75	85	100	110	125	145	160	180	210	240	295	355	410
	nxdo	4x14	4x14	4x14	4x19	4x19	4x19	4x19	8x19	8x19	8x19	8x23	12x23	12x28	12x28
PN25 EN – GJS-400-18	D	95	105	115	140	150	165	185	200	235	270	300	360	-	-
	d	46	56	65	76	84	99	118	132	156	184	211	274	-	-
	K	65	75	85	100	110	125	145	160	190	220	250	310	-	-
	nxdo	4x14	4x14	4x14	4x19	4x19	4x19	8x19	8x19	8x23	8x28	12x28	12x28	-	-
PN16, PN25 EN – GJL-250 EN – GJS-400-18	h	5	5	8	8	11	14	17	21	25	32	38	50	65	95
	H	56	56	67	76	89	96	104	124	161	174	197	248	295	315
	Kvs (m3/h)	5,6	7,8	12,8	19,8	28,4	46,6	77,5	108	169	263	366	592	1065	1553
	Weight (kg) A,C	2,4	2,8	4,0	5,5	7,4	9,5	13,6	19	27,4	45,1	66,2	111	196	302
Weight (kg) E		3,5	4,0	5,0	6,0	8,5	11	15	20	25	40	55	95	140	250

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FIG.287
MATERIALS, DIMENSIONS
DN 15-200


	Body material	F	I
	Type	31	31
1	Body	GP240GH	GX5CrNiMo19-11-2
1.1	Paddingweld	G18 8Mn 1.4370	G 19 9 LSi
2	Cover	P265GH	GX5CrNiMo19-11-2
3	Disc	X20Cr13 1.4021	X6CrNiMoTi17-12-2 1.4571
4	Stem	X20Cr13 1.4021	X6CrNiMoTi17-12-2 1.4571
5	Spring	X17CrNi16-2 1.4057	
6	Gasket	Graphite	
Max. temperature		450°C	400°C

Body material	I, F											
DN	15	20	25	32	40	50	65	80	100	125	150	200
L (mm)	130	150	160	180	200	230	290	310	350	400	480	600
D (mm)	95	105	115	140	150	165	185	200	235	270	300	375
d (mm)	45	58	68	78	88	102	122	138	162	188	218	280
K (mm)	65	75	85	100	110	125	145	160	190	220	250	320
nxdo	14X4	14X4	14X4	18X4	18X4	18X4	18X8	18X8	22X8	26X8	26X8	30x12
H (mm)	56	56	80	105	112	122	150	170	195	198	220	268
h (mm)	7	7	8	8	10	10	16	20	25	31	38	50
Kvs (m3/h)	5,7	9,2	15,3	27,8	27,3	52,9	74,9	106,3	168,3	279,0	360,2	473,6
Weight (kg)	3,0	3,8	4,3	9,1	10,4	12,6	20,0	31,0	41,0	54,0	76,0	150,0

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FIG.287

PRESSURE-TEMPERATURE RATINGS

Acc. EN 1092-2	PN		-60°C ÷ <-10°C		-10°C ÷ 120°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
EN-GJL250	6	bar	-----		6	5,4	4,8	4,2	3,6	---	---	---
	16		-----		16	14,4	12,8	11,2	9,6	---	---	---
EN-GJS400-18 LT	16		-----		16	15,5	14,7	13,9	12,8	11,2	---	---
	25		-----		25	24,3	23	21,8	20	17,5	---	---
Acc. EN 1092-1			-20°÷<-10°C	-10°÷<50°C	50°C÷100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
GP240GH +N	40	bar	30	40	37,1	35,2	33,3	30,4	27,6	25,7	23,8	13,1
Acc. EN 1092-1			-60°÷<-10°C		10°C÷100°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
G-X5CrNiMo19-11-2	40	bar	40		40	36,3	33,7	31,8	29,7	28,5	27,4	---

Other type of valves on request.

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FIG.287

TYPE

Figure		Body material	Nominal diameter	Nominal pressure	Type
287		A Grey cast iron EN-GJL-250	15-300 mm	C 16 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel
			15-150 mm	C 16 bar	38 loose disc with spring; stem, disc and seat ring - stainless steel; disc gasket PTFE (120°C)
			15-300 mm	C 16 bar	41 loose disc without spring; stem, disc and seat ring - stainless steel
			15-300 mm	C 16 bar	33 loose disc with spring; stem, disc and seat ring - bronze
			15-300 mm	C 16 bar	43 loose disc without spring; stem, disc and seat ring - bronze
287		C Nodular cast iron EN-GJS-400-18-LT	15-200 mm	C 16 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel
			15-150 mm	C 16 bar	38 loose disc with spring; stem, disc and seat ring - stainless steel; disc gasket PTFE (120°C)
			15-200 mm	C 16 bar	41 loose disc without spring; stem, disc and seat ring - stainless steel
			15-200 mm	C 16 bar	33 loose disc with spring; stem, disc and seat ring - bronze
			15-200 mm	C 16 bar	43 loose disc without spring; stem, disc and seat ring - bronze
			15-200 mm	D 25 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel
			15-150 mm	D 25 bar	38 loose disc with spring; stem, disc and seat ring - stainless steel; disc gasket PTFE (120°C)
			15-200 mm	D 25 bar	41 loose disc without spring; stem, disc and seat ring - stainless steel
			15-200 mm	D 25 bar	33 loose disc with spring; stem, disc and seat ring - bronze
			15-200 mm	D 25 bar	43 loose disc without spring; stem, disc and seat ring - bronze
287		F Cast steel GP240GH 1.0619	15-200 mm	E 40 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel
287		I Cast stainless steel GX5CrNiMo19-11-2	15-200 mm	E 40 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel
			15-200 mm	E 40 bar	31-H loose disc with spring; stem, disc and seat ring - stainless steel, type for hydrogen

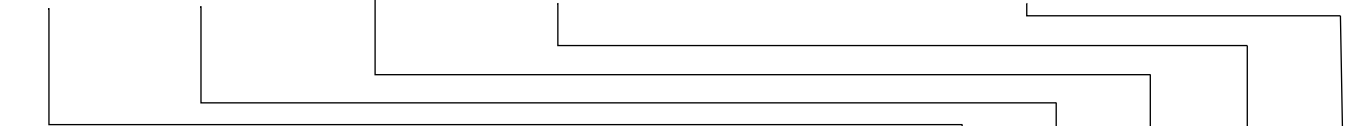
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FIG.287

ORDERING

Figure	Body material	Nominal diameter	Nominal pressure	Type
287	A Grey cast iron EN-GJL-250	15-300 mm	C 16 bar	31 loose disc with spring; stem, disc and seat ring - stainless steel



Order example acc. index

287 A 050 C 31

Check valves, ends flanged, form straight	287	A	050	C	31
Grey cast iron EN-GJL-250					
Nominal diameter(mm)					
Nominal pressurePN 16					
Loose disc with spring; stem, disc and seat ring - stainless steel					