

BELLOW VALVE zBEL



Body material	Nominal pressure	Nominal diameter	Max. temperature
A Grey cast iron	C 16 bar	DN 15-250	300°C
C Nodular cast iron	C 16 bar D 25 bar	DN 15-200 DN 15-80	350°C
F Cast steel	E 40 bar	DN 15-250	450°C
I Cast stainless steel	E 40 bar	DN 15-250	400°C

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

FEATURES

- high tightness (leakproofness class - A acc. EN -12266 - 1)
- compact settlement
- environment-friendly
- tests acc. EN - 12266 - 1
- flanges drilled according to EN 1092-2 for body material A,C
- flanges drilled according to EN 1092-1 for body material F, I
- face-to-face dimension according to EN 558 series 8

APPLICATION *

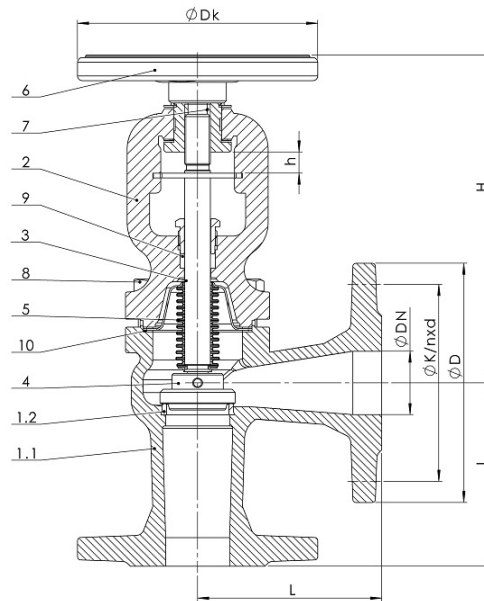
*not all of the applications are suitable for all of the executions

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

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MATERIALS, DIMENSIONS



	Body material	A	C
	Type	01; 04; 71	01; 04; 71
1.1	Body	EN – GJL-250 5.1301 (ex. JL1040)	EN – GJS-400 – 18-LT 5.3103 (ex.JS1025)
1.2	Seat ring	X12Cr13 1.4021	
2	Bonnet	EN – GJS-400 – 18-LT 5.3103 (ex.JS1025)	
3	Stem	X20Cr13 1.4021	
4	Disc	X20Cr13+GT 1.4021	
5	Bellow	X6CrNiMoTi-17-12-2	
6	Hand-wheel	Steel	
7	Sleeve	11SMnPb30	
8	Hexagon bolt	5.6 A3A	A2-70
9	Gland packing	Graphite	
10	Bonnet gasket	Graphite + CrNiSt	
	Max. temperature	300°C	350°C

DN	15	20	25	32	40	50	65	80	100	125	150	200	250	
L (mm)	90	95	100	105	115	125	145	155	175	200	225	275	325	
Dk (mm)	125	125	125	125	150	150	175	200	250	300	400	500	500	
H (mm)	181	178	192	188	205	211	242	251	307	337	366	493	531	
h (mm)	5	5	7	8	10	13	17	20	25	32	38	50	63	
Kvs (m³/h)	01;04	7,2	9,2	16,0	22,0	37,0	51,0	98,5	143,0	226,0	291,0	455,0	625,0	-----
	71	3,3	6,3	9,0	16,3	24,4	32,7	57,9	84,1	133,9	206,5	291,1	569,0	-----
Weight (kg)	01;04	3,2	3,7	4,9	6,5	8,8	9,7	13,8	18,0	31,0	44,0	69,0	110,5	-----
	71	3,2	3,9	5,0	6,7	9,1	10,2	14,3	18,9	33,0	46,5	71,0	-----	-----

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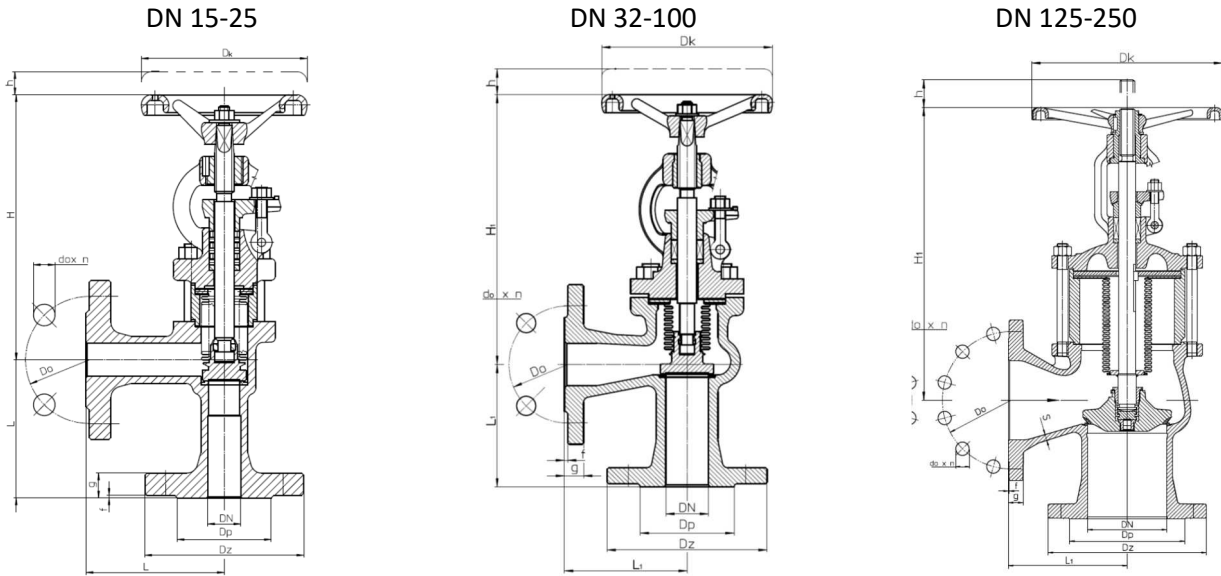
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FIG.235

MATERIALS, DIMENSIONS



	Body material	F	I
	Type	01 04	01 04
1	Body	GP240GH	G-X5CrNiMo19-11-2
2	Seat ring	18-8 Cr-Ni	G-X5CrNiMo19-11-2
3	Bonnet	GP240GH	G-X5CrNiMo19-11-2 DN 65-250 X6CrNiMoTi17-12-2 DN 15-50
4	Stem	X30Cr13	X6CrNiTi18-10
5	Disc	18-8 Cr-Ni	18-8 Cr-Ni
	Bellow	18-8 Cr-Ni	18-8 Cr-Ni
6	Gasket	Graphite	Graphite
	Max. temperature	450°C	400°C

DN	15	20	25	32	40	50	65	80	100	125	150	200	250
Dz (mm)	95	105	115	140	150	165	185	200	235	270	300	375	450
Dp (mm)	45	58	68	78	88	102	122	138	162	188	218	285	345
Do	65	75	85	100	110	125	145	160	190	220	250	320	385
doxn	14x4	14x4	14x4	18x4	18x4	18x4	18x8	18x8	22x8	26x8	26x8	30x12	33x12
L	90	95	100	105	115	125	145	155	175	200	225	275	325
f	2	2	2	2	2	2	2	2	2	2	2	2	2
g	16	18	18	18	18	20	22	24	24	26	28	34	38
H	200	200	200	240	250	255	290	320	360	524	554	610	730
h	10	10	10	10	13	13	15	16	18	37	50	50	75
Dk	120	120	120	160	160	160	200	250	320	320	360	400	500
Weight(kg)	4,5	5,2	5,3	10,6	13,6	17,0	28,0	37,4	50,0	80,0	99,0	181,0	330,0

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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°C ÷ <-10°C	-10°C ÷ <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°C ÷ <-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	---

FLANGE DIMENSIONS ACC. PN-EN 1092-2

DN		15	20	25	32	40	50	65	80	100	125	150	200	250
PN16	D (mm)	95	105	115	140	150	165	185	200	220	250	285	340	405
	K (mm)	65	75	85	100	110	125	145	160	180	210	240	295	355
	nxd (mm)	4x14	4x14	4x14	4x19	4x19	4x19	4x19	8x19	8x19	8x19	8x23	12x23	12x28
PN25	D (mm)	95	105	115	140	150	165	185	200	-----	----	-----	-----	-----
	K (mm)	65	75	85	100	110	125	145	160	-----	-----	-----	-----	-----
	nxd (mm)	4x14	4x14	4x14	4x19	4x19	4x19	8x19	8x19	-----	-----	-----	-----	-----

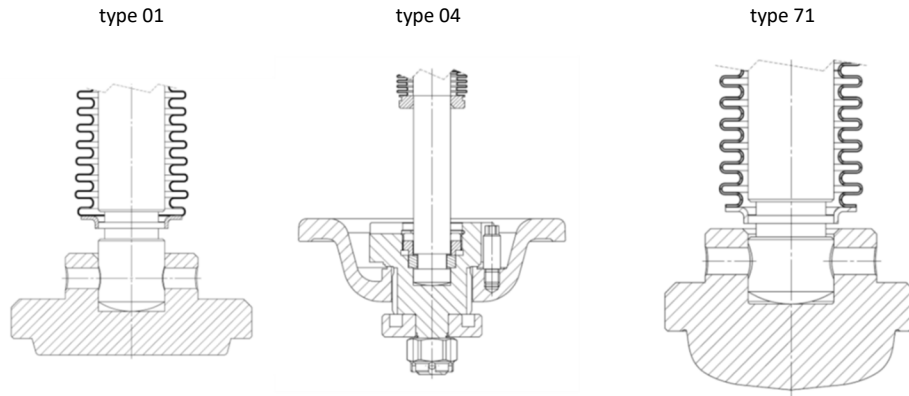
FLANGE DIMENSIONS ACC. PN-EN 1092-1 (F, I)

DN		15	20	25	32	40	50	65	80	100	125	150	200	250	300
PN40	D (mm)	95	105	115	140	150	165	185	200	235	270	300	375	450	515
	K (mm)	65	75	85	100	110	125	145	160	190	220	250	320	385	450
	nxd (mm)	4x14	4x14	4x14	4x18	4x18	4x18	8x18	8x18	8x22	8x26	8x26	12x30	12x33	16x33

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DISC



Other type of valves on request:

- stellite seat
- hardened disc
- other

TYPE

Figure	Body material	Nominal diameter	Nominal pressure	Type
235	A Grey cast iron EN-GJL-250	15-150 mm	C 16 bar	01 stem connected with bellow; stem, disc, bellow and seat ring - stainless steel
		200-250 mm	C 16 bar	04 stem connected with bellow; stem, balancing disc; bellow and seat ring - stainless steel
		15-200 mm	C 16 bar	71 stem connected with bellow; stem, throttling disc; bellow and seat ring - stainless steel
235	C Nodular cast iron EN-GJS-400-18-LT	15-150 mm	C 16 bar	01 stem connected with bellow; stem, disc, bellow and seat ring - stainless steel
		200 mm	C 16 bar	04 stem connected with bellow; stem, balancing disc; bellow and seat ring - stainless steel
		15-200 mm	C 16 bar	71 stem connected with bellow; stem, throttling disc; bellow and seat ring - stainless steel
		15-80 mm	D 25 bar	01 stem connected with bellow; stem, disc, bellow and seat ring - stainless steel
		15-80 mm	D 25 bar	71 stem connected with bellow; stem, throttling disc; bellow and seat ring - stainless steel

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FIG.235

235	F Cast steel GP240GH 1.0619	15-100 mm	E 40 bar	01 stem connected with bellow; stem, disc, bellow and seat ring - stainless steel
		125-250 mm	E 40 bar	04 stem connected with bellow; stem, balancing disc; bellow and seat ring - stainless steel
235	I Cast stainless steel G-X5CrNiMo19-11-2	15-100 mm	E 40 bar	01 stem connected with bellow; stem, disc, bellow and seat ring - stainless steel
		125-250 mm	E 40 bar	04 stem connected with bellow; stem, balancing disc; bellow and seat ring - stainless steel

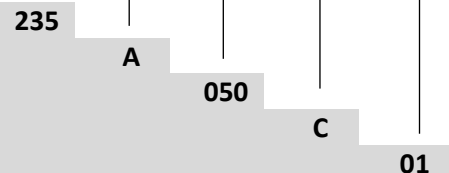
RDERING

Figure	Body material	Nominal diameter	Nominal pressure	Type
235	A Grey cast iron EN-GJL-250	15-150 mm	C 16 bar	01 stem connected with bellow; stem, disc, bellow and seat ring - stainless steel

Order example acc. index

235 A 050 C 01

Bellow sealed stop valves, ends flanged, form angle
 Grey cast iron EN-GJL-250
 Nominal diameter (mm)
 Ciśnienie nominalne PN 16
 Stem connected with bellow; stem, disc and seat ring stainless steel



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