



## 🇬🇧 BELLOWS SEALED GLOBE VALVE ANGLED TYPE

### FIG. VBS-GL235-A

#### DESCRIPTION

Bellows sealed valve angle pattern outside screw and yoke flanged body stainless trim.

#### FEATURES

- high sealing (leakproofness class - A acc. EN -12266 - 1)
- compact right angle design ideal flow path
- environment-friendly no stem leakage to atmosphere
- tests acc. EN - 12266 - 1
- flanges drilled according to EN 1092-2 for iron body material
- flanges drilled according to EN 1092-1 for steel & stainless body material
- face-to-face dimension according to EN 558 series 8

TRIM OPTIONS - STELLITED SEAT / HARDENED DISC

as well as disc type - standard - throttling - balanced.



#### APPLICATIONS

Steam Industry various uses particularly main steam stop.  
Glycol, Diaithermic oil, shipbuilding, HVAC & Chemical services

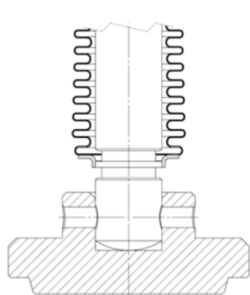
Body material	Nominal pressure	Nominal diameter	Max. temperature
Grey cast iron	16 bar	DN 15-250	300°C
Nodular cast iron	16 bar	DN 15-200	350°C
	25 bar	DN 15-80	
Cast steel	40 bar	DN 15-250	450°C
Cast stainless steel	40 bar	DN 15-250	400°C



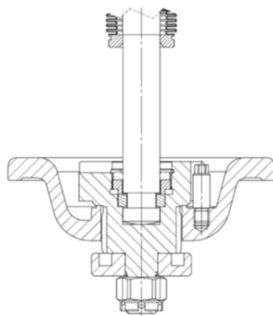
correspond to the pressure equipment directive 2014/68/UE marking CE for DN≥32

The bellows design gland area is sealed for life " 0 " leakage

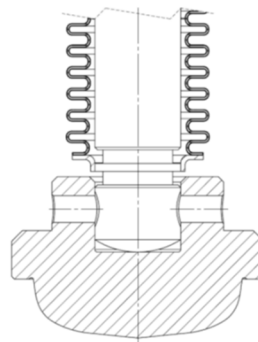
For ANSI flanging valves on indent or use the standard packed gland angle valve VCS figure No. VGLC305RA.



Standard Disc



Balanced Disc

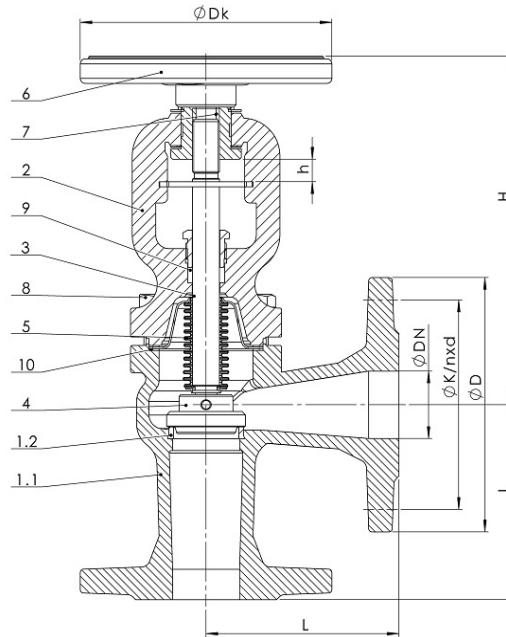


Throttling Disc



## FIG. VBS-GL235-A

### MATERIALS, DIMENSIONS



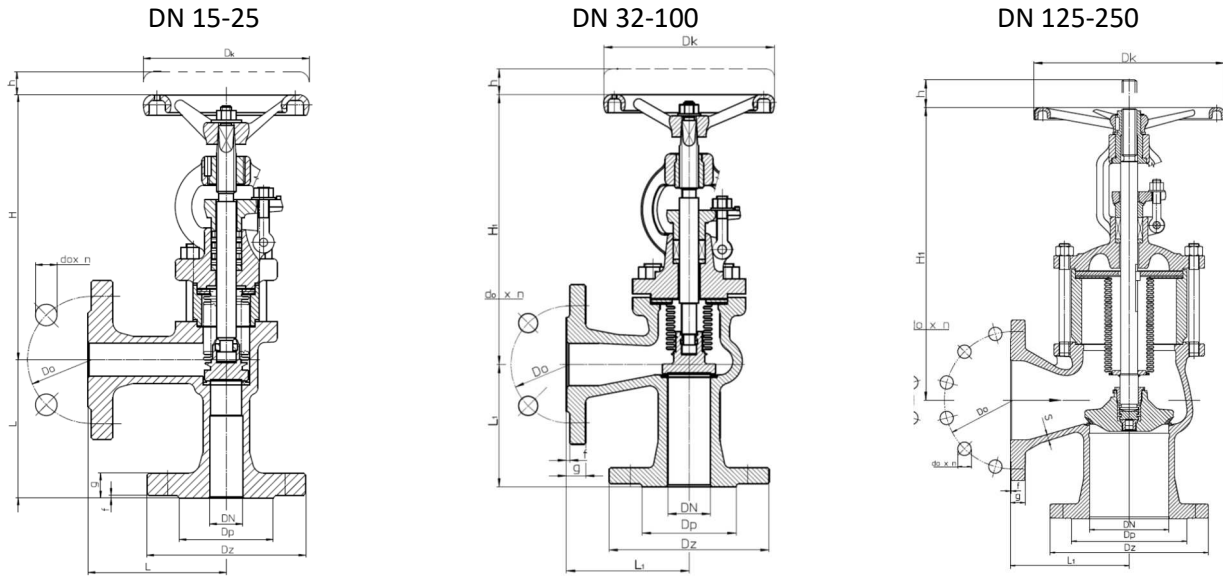
	Body material	CAST IRON	NODULAR IRON
	Type	Standard - Balanced - Throttling	Standard - Balanced - Throttling
1.1	Body	EN – GJL-250 5.1301 (ex. JL1040)	EN – GJS-400 – 18-LT 5.3103 (ex.JS1025)
1.2	Seat ring	X12Cr13 1.4021	
2	Bonnet	EN – GJS-400 – 18-LT 5.3103 (ex.JS1025)	
3	Stem	X20Cr13 1.4021	
4	Disc	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	
K <sub>vs</sub> (m <sup>3</sup> /h)	Std Bal	7,2	9,2	16,0	22,0	37,0	51,0	98,5	143,0	226,0	291,0	455,0	625,0	-----
	Throt	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)	Std Bal	3,2	3,7	4,9	6,5	8,8	9,7	13,8	18,0	31,0	44,0	69,0	110,5	-----
	Throt	3,2	3,9	5,0	6,7	9,1	10,2	14,3	18,9	33,0	46,5	71,0	-----	-----



# FIG. VBS-GL235-A

## MATERIALS, DIMENSIONS



	Body material	CAST STEEL	STAINLESS STEEL
	Type	Standard - Balanced	Standard - Balanced
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
<b>Max. temperature</b>		<b>450°C</b>	<b>400°C</b>

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



## FIG. VBS-GL235-A

### 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 (steel and stainless)

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