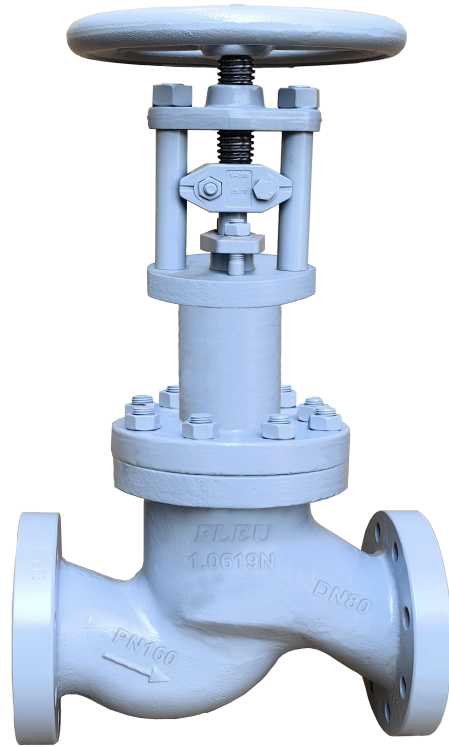


**DIN High-pressure Bellows seal globe valve for the containment and isolation of hazardous liquids and gases**



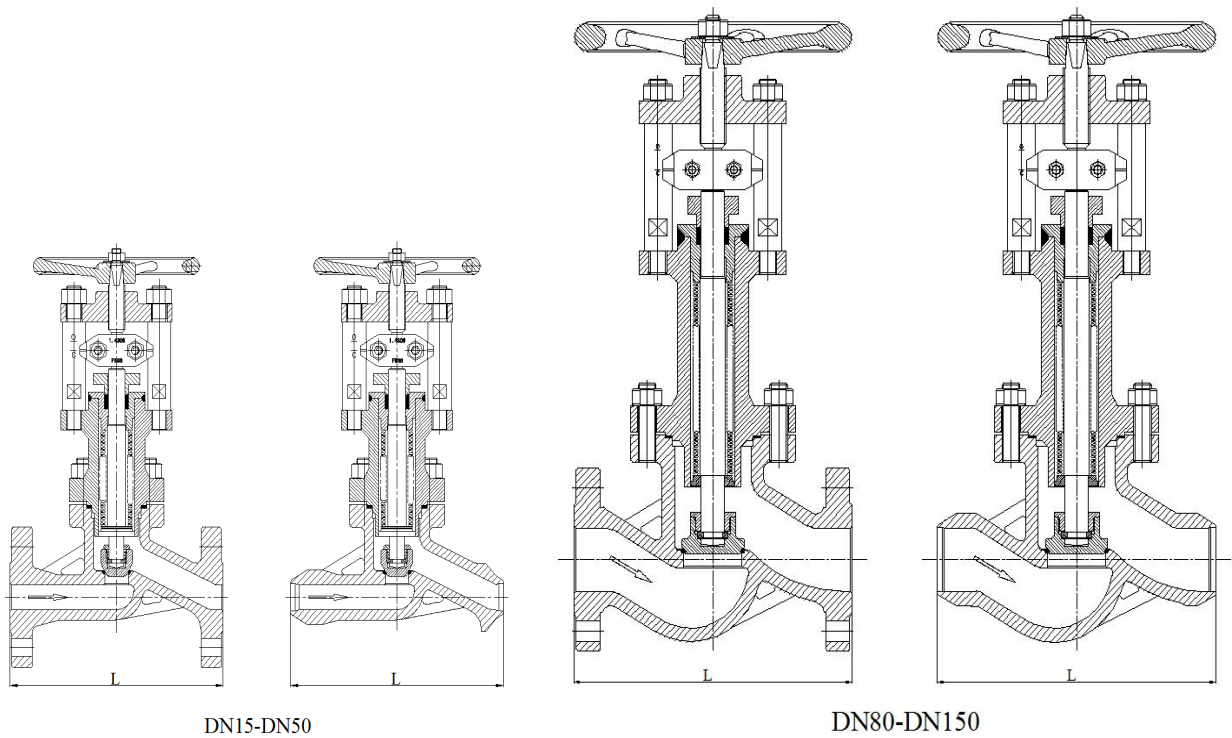
**Fig.112**  
**DN15-DN150**  
**PN63 PN100 PN160**  
**Body 1.0619N/1.4408**  
**10 000 cycles 1.4571 Witzenmann bellows**

**Design features**

- Straight type,seat hardfaced ,conical plug
- Bellows protected in extended bonnet or by protecting plate against direct impingement from product flow
- Multiple walls and hydroformed Witzenmann bellows,and 10 000 cycles operations guaranteed
- two-piece stem protects the bellows against torque stress
- design eliminates stem bearings along with their maintenance needs
- Fire safe per EN ISO 10497 applicable
- Fugitive emissions test per EN ISO 15848 applicable

**Applications**

Fig.112 is design guarantees reliable and excellent protections against leaks and fugitive emissions.The stem seal requires virtually no maintenance due to leak free weld connections of the bellows with bonnet and stem. The valve is designed for critical service applications involving lethal,toxic,corrosive,inflammable,volatile,radiating,or expensive fluids.

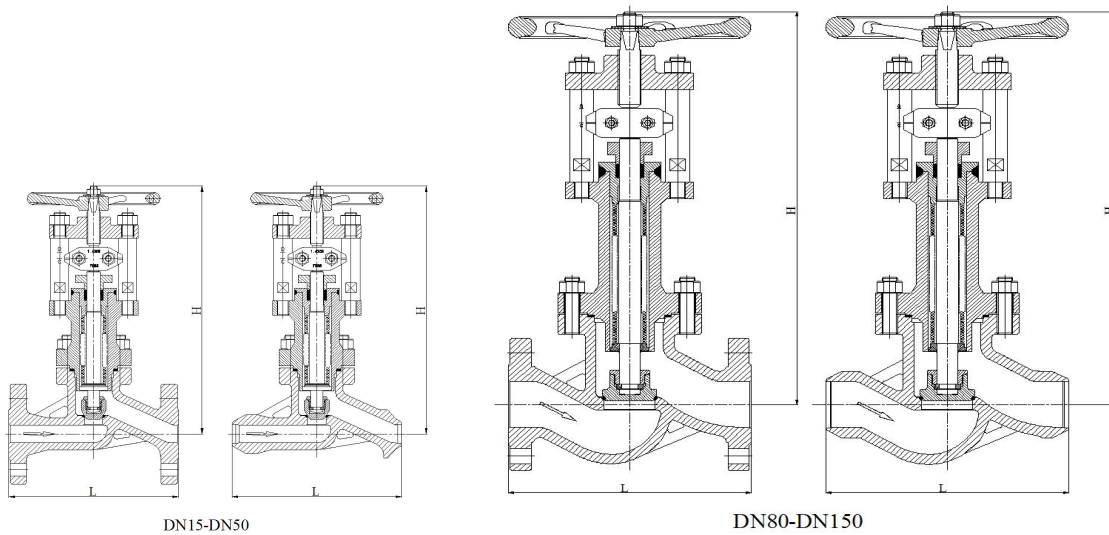


Desgin acc.to AD 2000 A4, ATEX 2014/34/EU, EN 12516 , EN 13709  
 Flange ends acc. to EN 1092-1; BW ends acc. to EN 12627  
 Standard test acc. to EN 12266 / ISO 5208  
 FTT (ETE) dimension acc. to EN 558-1,G2 / EN 12982,G2

FIG.	PN	Material	Range
136.112/136.112-BW	PN63	1.0619N	DN15-DN150
137.112/137.112-BW	PN100	1.0619N	DN15-DN150
138.112/138.112-BW	PN160	1.0619N	DN15-DN150
156.112/156.112-BW	PN63	1.4408	DN15-DN150
157.112/157.112-BW	PN100	1.4408	DN15-DN150
158.112/158.112-BW	PN160	1.4408	DN15-DN150

**Material List**

Component	C.S.	S.S.
Body	1.0619N	1.4408
Body seat	Stellit 21	Stellit 21
Disc	1.4021 QT for ≤DN80 / 1.0460 for ≥DN100	1.4401
Disc seat	1.4021 QT for ≤DN80 / Stellit 6 for ≥DN100	Stellit 6
Lower stem/Upper stem	1.4401/1.4057	1.4401/1.4057
Bellows	1.4571	1.4571
Bolts	1.7225(GC)	A4-70
Nuts	1.1181(YK)	A4-70

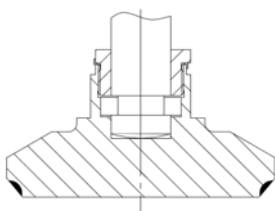


**Dimension List**

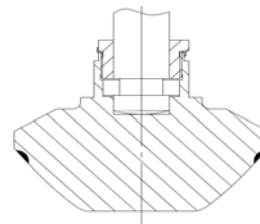
PN	DN	L (FTF/ETE)	H	Connecting end	*W.T.(kg)≈
PN63 PN100 PN160	DN15	210	305	Flange end acc. to EN 1092-1,form B1 / BW end acc. to EN 12627	13
	DN20	230	320		16
	DN25	230	348		20
	DN40	260	450		30
	DN50	300	470		46
	DN80	380	685		101
	DN100	430	700		160
	DN150	550	880	230	

\* The W.T. value is based on PN160 flanged type model, the PN63 PN100 valve could be little lighter due to the difference in the weight of the flange.

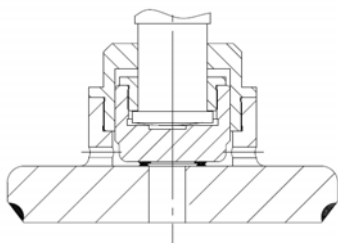
**Available**



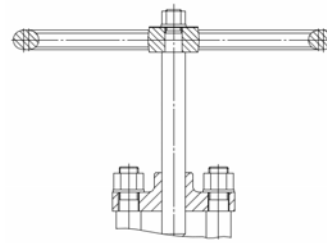
Isolation plug with marginal seat



Regulating plug with marginal seat



Balancing plug  
(Recommended for  $\geq$ DN100)



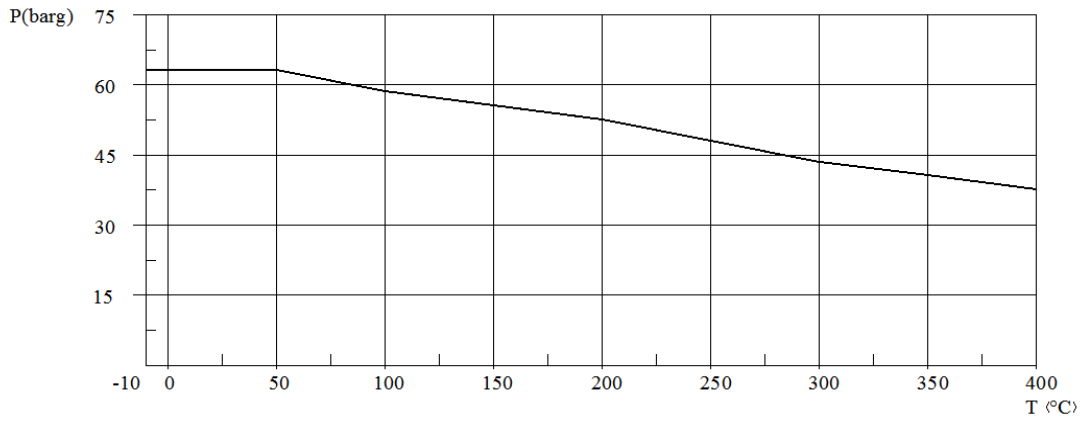
Extended stem

Pressure-temperature limit rating table

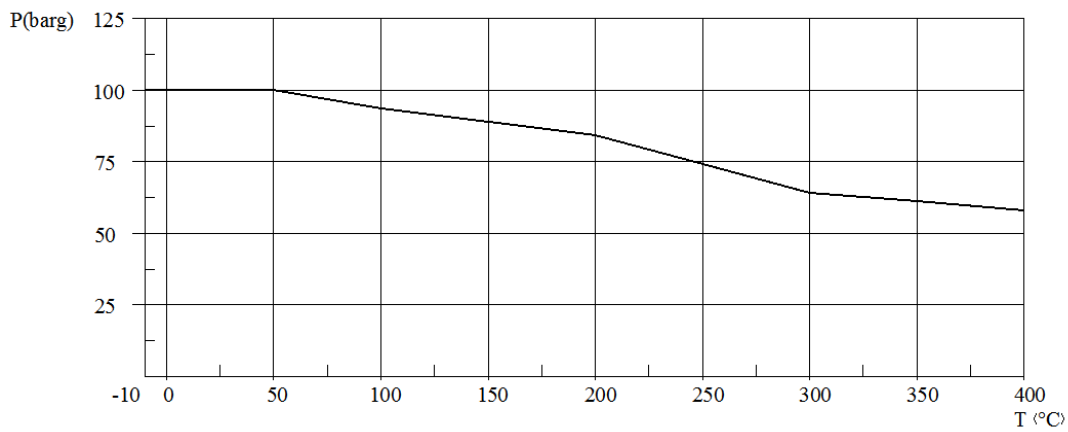
Body Material	Nominal Pressure(PN)	Temperature(°C)	Pressure(barg)
1.0619N	63	-10	63
		20	63
		100	58.5
		150	55.5
		200	52.5
		250	48
		300	43.5
		350	40.5
		400	37.5
		1.0619N	100
20	100		
100	93.6		
150	88.8		
200	84		
250	74		
300	64		
350	61		
400	58		
1.0619N	160		
		20	160
		100	148.5
		150	140.9
		200	133.3
		250	121.9
		300	110.4
		350	102.8
		400	95.2
		1.4408	63
20	63		
100	60		
150	53.8		
200	47.6		
250	44.1		
300	40.6		
350	38.8		
400	37		
1.4408	100		
		20	100
		100	95.2
		150	85.4
		200	75.6
		250	70
		300	64.4
		350	61.6
		400	58.8
		1.4408	160
20	160		
100	152.4		
150	136.7		
200	121.0		
250	112.1		
300	103.1		
350	98.6		
400	94.1		

Pressure-temperature rating curve

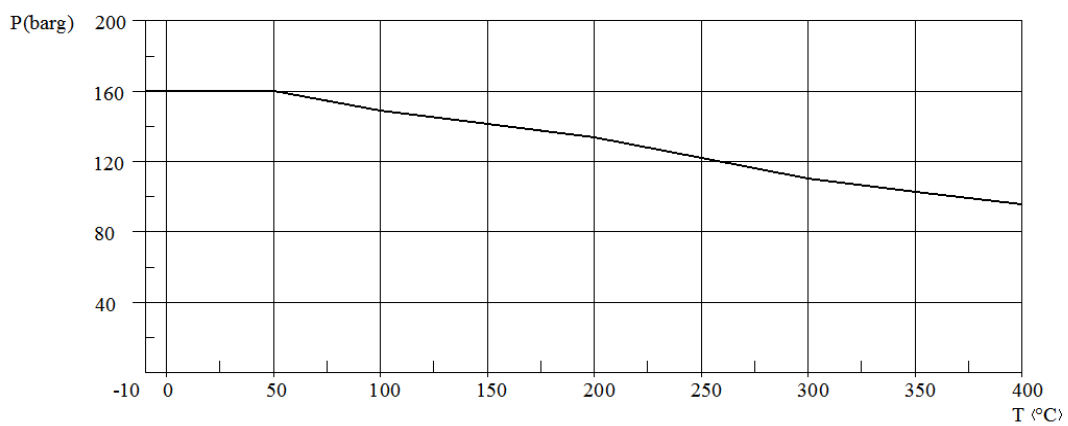
1.0619N PN63



1.0619N PN100

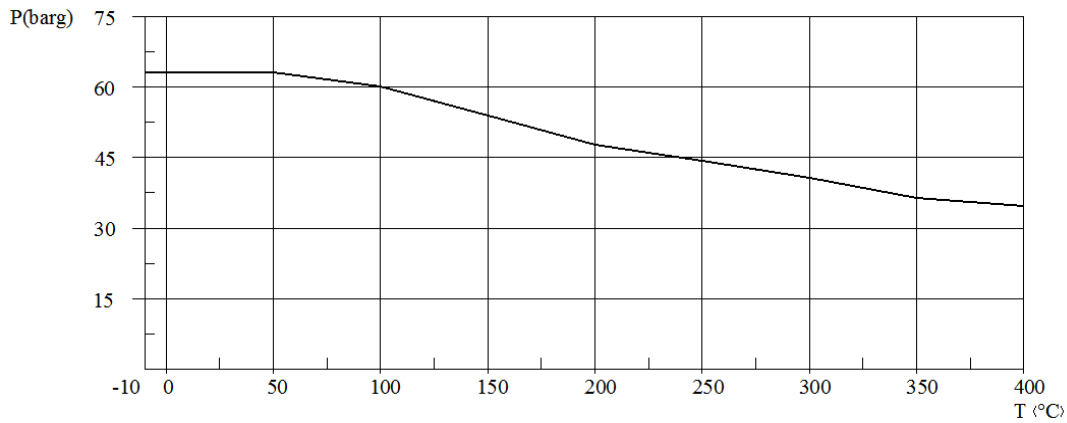


1.0619N PN160

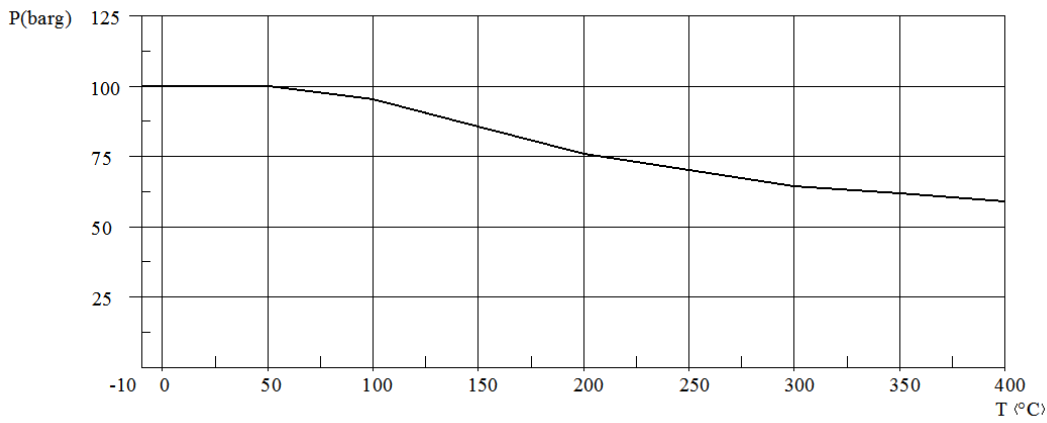


Pressure-temperature rating curve

1.4408 PN63



1.4408 PN100



1.4408 PN160

