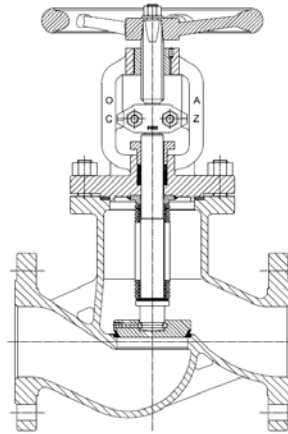
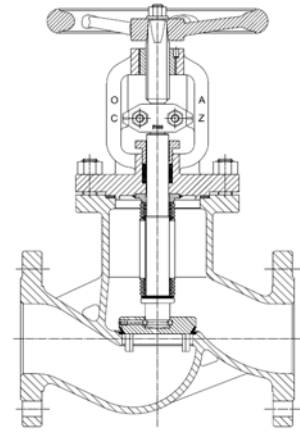


**Maintenance-free**  
**Design acc. : EN 13709**  
**Face to face : EN558-1 G1**  
**Flange end : EN1092-1**  
**Test acc. : EN12266-1**  
**Temperature range :**  
 -29°C~ +425°C(1.0619N )  
 -196°C~ +600°C(1.4408 )  
**Witzenmann Bellows**  
**circle 10 000**  
**Body : 1.0619N /1.4408**



**Fig.112**



**Fig.112-G**

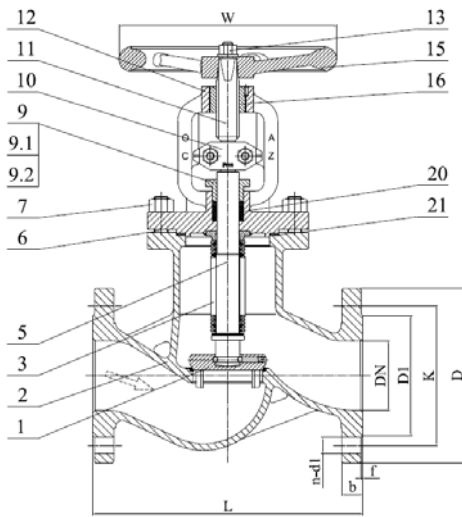


FIG.	Pressure	Material	Range
133.112	PN16	1.0619N	DN15-DN125
135.112	PN40	1.0619N	DN15-DN125
153.112	PN16	1.4408	DN15-DN125
155.112	PN40	1.4408	DN15-DN125

Design acc. : EN 13709  
 Face to face : EN558-1 Ser.1  
 Flange end : EN1092-1  
 Test acc. : EN12266-1  
 Temperature range :  
 -29°C ~ +425°C(1.0619N )  
 -196°C ~ +600°C(1.4408 )

**Material List**

NO.	Part	Material	
		FIG.153.112/155.112	FIG.133.112/135.112
1	Disk	1.4401	1.4021
1.1	Disk seal	STELLIT 6	1.4021/STELLIT 6
2	Body	1.4408/1.4409	1.0619N
2.1	Body seal	STELLIT 21	13Cr/STELLIT 21
3	Bellow	1.4571	1.4571
5	Low stem	1.4401	1.4021
6	Bolts	A4-70	1.7225(GC)
7	Nuts	A4	1.1181(YK)
9	Packing gland	1.4408	1.0619N
9.1	Gland bolt	A4	1.7225(GC)
9.2	Gland nut	A4	1.1181(YK)
10	Connecting block	1.4308	1.4308
11	Up stem	1.4401	1.4021
12	Bonnet	1.4408/1.4409	1.0619N
13	Nut	A2	YK (1.1181)
15	Handwheel	GGG40.3	GGG40.3
16	Stem nut	GGG40.3	GGG40.3
20	Packing	Graphite	Graphite
21	Body seal	Graphite +1.4401	Graphite +1.4301

**Dimension List**

PN	DN	L	D	D1	K	b	f	w	n	d1	H	Hub	Kv(m³/h)	KG
16	65	290	185	122	145	18	3	220	8	18	313	15	81.7	23
	80	310	200	138	160	20	3	250	8	18	370	25	128.4	32.5
	100	350	220	158	180	20	3	250	8	18	390	25	204.4	42
	125	400	250	188	210	22	3	350	8	18	435	30	298.6	62.5
16/40	15	130	95	45	65	16	2	120	4	14	228	6	2.8	5.4
	20	150	105	58	75	18	2	120	4	14	233	6	5.7	6.1
	25	160	115	68	85	18	2	140	4	14	238	8	9.8	7.8
	32	180	140	78	100	18	2	140	4	18	250	8	16.8	10.0
	40	200	150	88	110	18	3	160	4	18	285	15	29.0	13.0
	50	230	165	102	125	20	3	160	4	18	293	15	47.8	16.5
40	65	290	185	122	145	22	3	220	8	18	313	15	81.7	28.0
	80	310	200	138	160	24	3	250	8	18	370	25	128.4	32.0
	100	350	235	162	190	24	3	250	8	22	390	25	204.4	56.3
	125	400	270	188	220	26	3	350	8	26	435	30	298.6	75.0

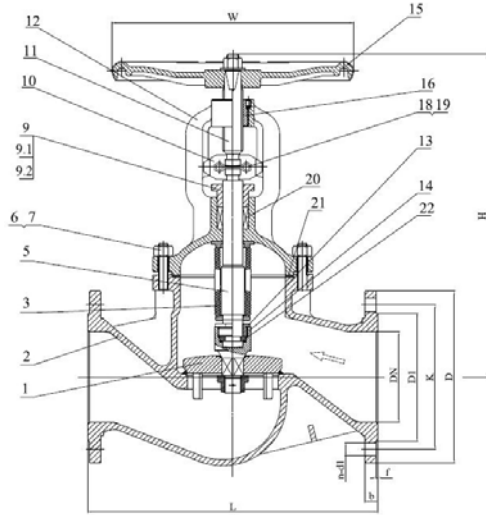


FIG.	Pressure	Material	Range
133.112	PN16	1.0619N	DN150-DN400
135.112	PN40	1.0619N	DN150-DN400
153.112	PN16	1.4408	DN150-DN400
155.112	PN40	1.4408	DN150-DN400

**Design acc. : EN 13709**  
**Face to face : EN558-1 Ser.1**  
**Flange end : EN1092-1**  
**Test acc. : EN12266-1**  
**Temperature range :**  
 -29°C ~ +425°C (1.0619N )  
 -196°C ~ +600°C (1.4408 )

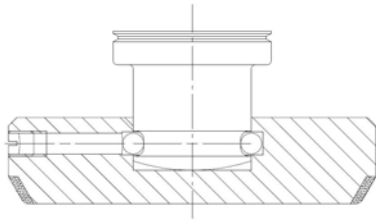
**Material List**

NO.	Part	Material	
		FIG.153.112/155.112	FIG.133.112/135.112
1	Disk	1.4401	1.0460
1.1	Disk seal	STELLIT 6	13Cr/STELLIT 6
2	Body	1.4408/1.4409	1.0619N
2.1	Body seal	STELLIT 21	13Cr/STELLIT 21
3	Bellow	1.4571	1.4571
5	Low stem	1.4401	1.4021
6	Bolts	A4	1.7225(GC)
7	Nuts	A4	1.1181(YK)
9	Packing gland	1.4408	1.0619N
9.1	Gland bolt	A4	1.7225(GC)
9.2	Gland nut	A4	1.1181(YK)
10	Connecting block	1.4308	1.4308
11	Up stem	1.4401	1.4021
12	Bonnet	1.4408/1.4409	1.0619N
13	Disc screw	1.4401	1.4006
14	Secondary disc	1.4401	1.4021
15	Handwheel	GGG40.3	GGG40.3
16	Stem nut	GGG40.3	GGG40.3
18	Nut	A2	35
19	Bolts	A2	35
20	Packing	Graphite	Graphite
21	Body seal	Graphite +1.4401	Graphite +1.4301
22	Folio ring	1.4401	1.4006

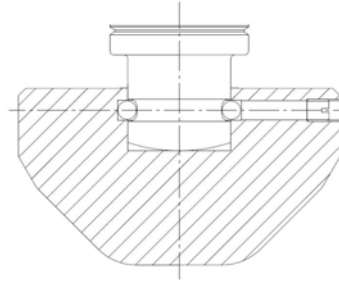
**Dimension List**

PN	DN	L	D	D1	K	b	f	w	n	d1	H	Hub	Kv(m³/h)	KG
16	150	480	285	212	240	22	3	400	8	22	470	40	415.3	89.5
	200	600	340	268	295	24	3	460	12	22	560	44	739.7	193.5
	250	730	405	320	355	26	3	600	12	26	1116	62	1157	245
	300	850	460	378	410	28	4	800	12	26	1176	80	1664	410
	350	980	520	438	470	30	4	-	16	26	-	-	-	-
	400	1100	580	490	525	32	4	-	16	30	-	-	-	-
40	150	480	300	218	250	28	3	400	8	26	470	40	415.3	106.0
	200	600	375	285	320	34	3	460	12	30	560	44	739.7	232.0
	250	730	450	345	385	38	3	600	12	33	1116	62	1157	294
	300	850	515	410	450	42	4	800	16	33	1176	80	1664	580

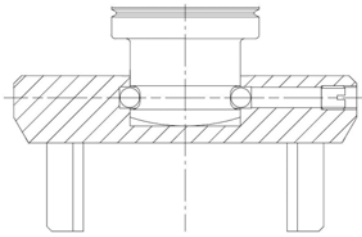
Available



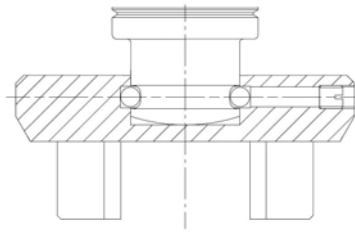
Isolation plug with marginal seat



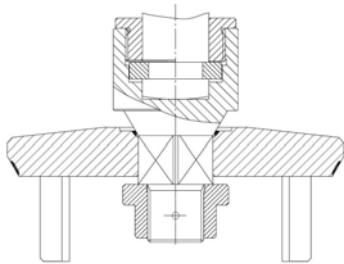
Regulating plug with marginal seat



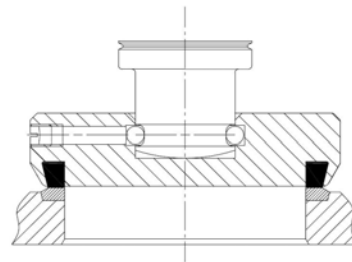
V-port plug with marginal seat



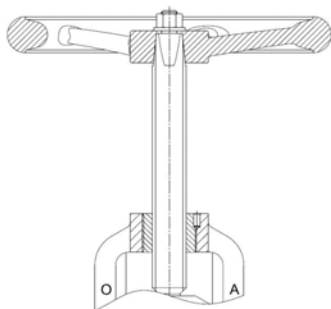
V-port regulating plug with marginal seat



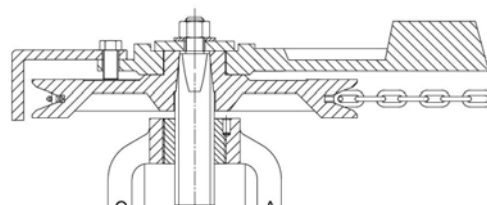
Balancing plug



Plug with soft seat  
Max.Operating temperature 200°C at PTFE



Extended stem



Chain wheel