

Description

Centric butterfly valve plastomer lined for On/off and control service for aggressive and corrosive fluids and high purity application

Product features

- Body construction B1 Wafer Sizes 1 1/4" to 24"
B3 Lug Sizes 1 1/4" to 16"
B4 U-section Sizes 18" to 36"
- Face to face dimension according to ISO 5752/20, EN 558-1/20
- Top flange according to EN ISO 5211
- Max. working pressure 232 psi (1 1/4"-6"), 145 psi (8"-12"),
87 psi (14"-28"), 36 psi (30"),
87 psi bar (32"-36")
- Rating ANSI cl. 150, PN10, PN16
- Temperature range -4°F to 392°F according to working
conditions, other temperatures on request
- Work's tests Porosity check of the liner and overmolded
disc according to DIN EN 60243-1. Test
certificates on request. Tightness test
according to EN 12266-1/P12 leakage
rate A.

The torque of each valve is registered.

The butterfly valves BIANCA meet the safety requirements of the pressure Equipments Directive 97/23/EC (PED) appendix 1 for fluids of the groups 1 and 2.

Butterfly valves BIANCA are suitable to be operated in safety related systems according to IEC 61508 / 61511, Safety Integrity Level SIL 2

Special versions of the Bianca valves may be used in explosive atmospheres.

See brochure BIANCA ATEX.

VDI 2440 as option

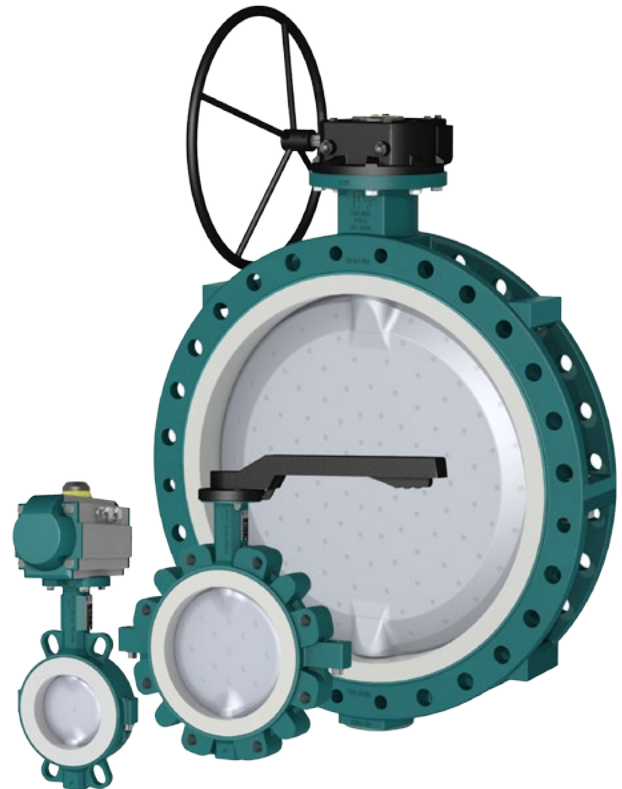
CE

SIL



ATEX

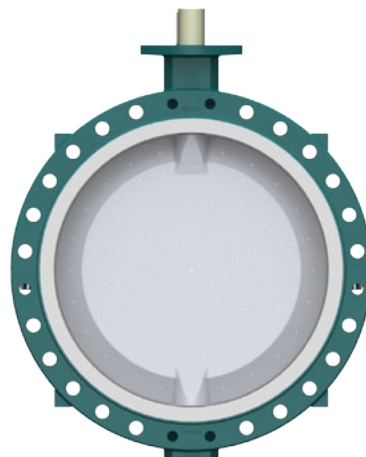
TA-Luft



B1
Wafer

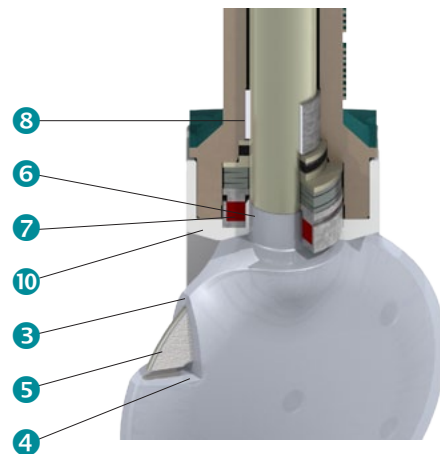
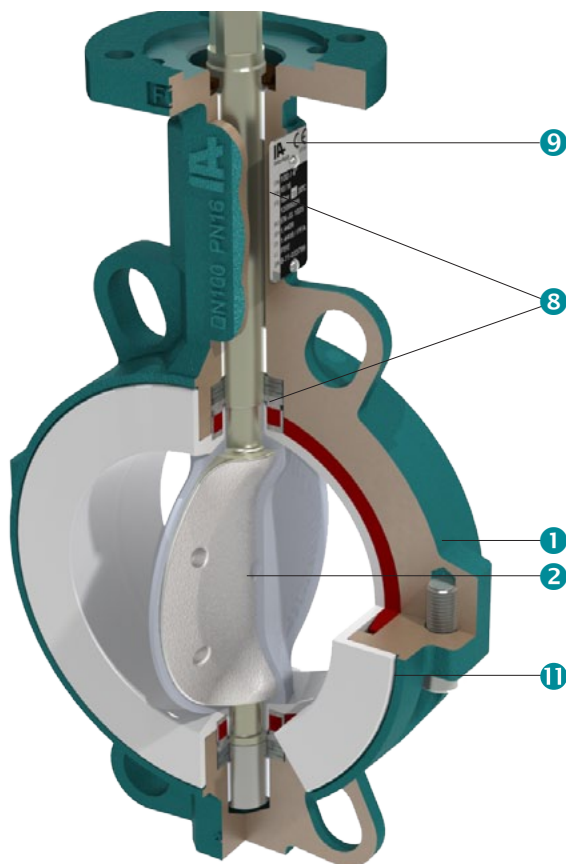


B3
Lug



B4
U-section

Construction



1	Two-piece body in GGG40.3 / EN-GJS-400-18-LT
2	One-piece, blow out proof disc/shaft
3	Overmolding with a min. thickness of 0.118" (3 mm)
4	Overmolding is mechanically locked on the disc
5	Thin core, allows high c_v flow rate
6	Shaft overmolded in the shaft sealing area
7	Shaft sealing by prestressed safety packing
8	Self-lubricating shaft bushing
9	External shaft sealing
10	Chambered liner, prevents radial cold-flow
11	Elastomer back-up, immersed in body

BIANCA HP cleanroom production



Decontamination by ultrasonic cleaning



Material lock



Assembling, testing, packaging in clean room class 10'000



Tightness test with HP nitrogen

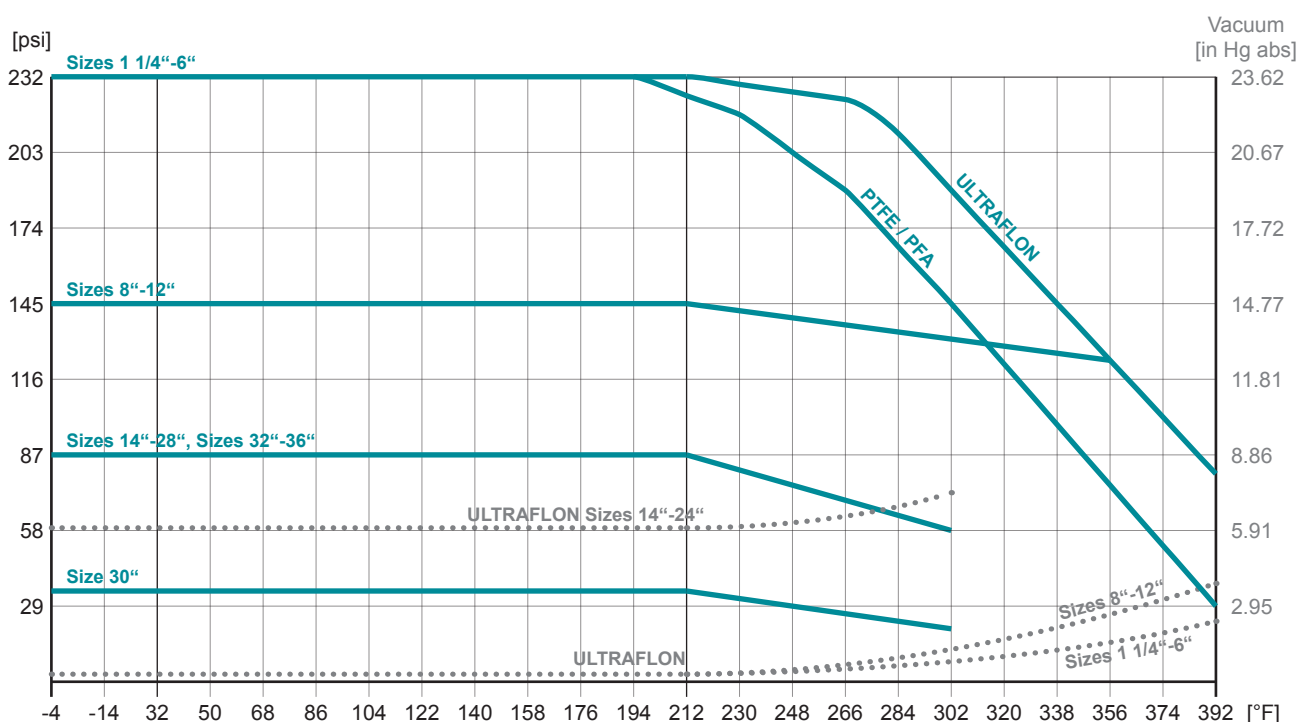
Torques with PTFE liner, security factor included

Inch	1¼ - 1½	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	28	30	35	36
Lb-Ins	310	372	372	522	664	797	1390	2390	3319	4514	5974	7966	9736	11506	15489	18587	22127	27437	35403

Cv values

Sizes [INCH]	Opening angle of the valve							
	20°	30°	40°	50°	60°	70°	80°	90°
1 1/4 - 1 1/2	4,6	9,2	19,7	34,7	52	75,1	98,3	110
2	5,8	12,7	27,7	48,6	74	106	136	155
2 1/2	9,2	22	47,4	80,9	125	179	231	262
3	17,3	38,2	83,2	145	220	312	387	453
4	23,1	55,5	110	187	295	445	561	676
5	43,9	94,8	191	295	526	746	942	1173
6	69,4	150	272	457	746	1104	1410	1728
8	110	266	538	919	1364	2098	2786	3526
10	202	405	821	1341	1861	2798	4220	5214
12	306	603	1150	1988	3081	4584	6890	8335
14	405	763	1364	2081	3330	5260	8301	10127
16	590	1139	1711	2832	4890	7572	10694	13122
18	769	1451	2578	4451	7226	10636	14162	17226
20	1029	1873	3445	6185	9422	13642	17989	20810
24	1121	2486	4832	8578	13122	19018	24509	28324
28	1225	2960	5628	9725	16600	27632	43513	56225
30	1407	3398	6460	11185	19057	31720	49952	64544
32	1621	3848	7342	12912	22050	37081	59909	73881
36	2214	4924	9130	16011	27616	47530	77194	93663

Pressure / temperature diagram

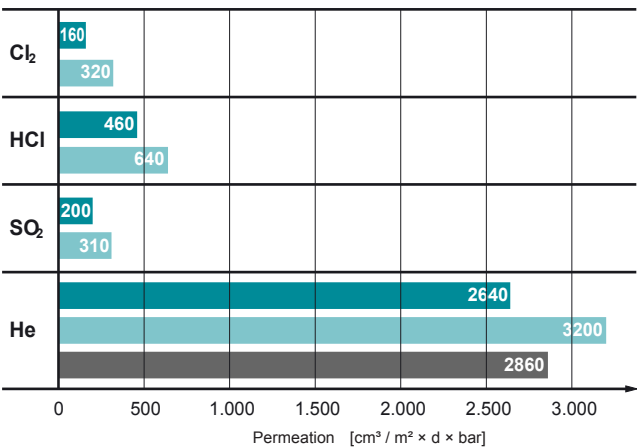


Please consult our technical department for higher temperatures.

Advantage of ULTRAFLON® liner

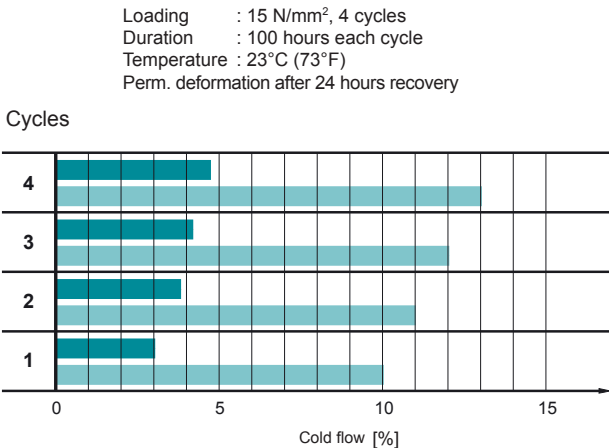
Permeation

Comparison of ULTRAFLON® - PTFE - PFA (film thickness 0.0394")

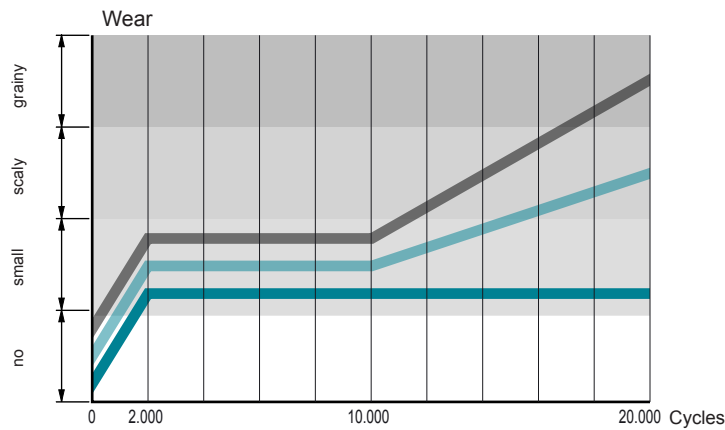
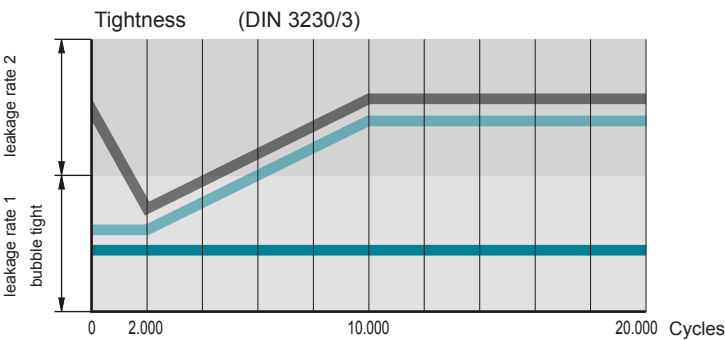


Deformation

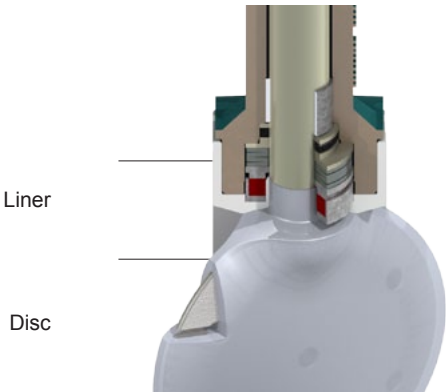
under repeated load „Cold flow behavior“



Endurance test (tightness)



ULTRAFLON®
PTFE
PFA



BIANCA - Butterfly valves Sizes 1 1/4" to 36"

Type code

B1 0100 . 3 3 . 2BE . 4GT . TS . xx			
1 Body type	B1	Wafer	Sizes 1 1/4"-24"
	B3	LUG body	Sizes 1 1/4"-16"
	B4	U-section body	Sizes 18"-36"
2 Nominal diameter	0032-0900	mm	
3 Working pressure	0	2,5 bar	Size 30"
	1	6 bar	Sizes 14"-28" and 32"-36"
	2	10 bar	Sizes 8"-12"
	3	16 bar	Sizes 1 1/4"-6"
4 Rating	**	PN10/16/ANSI B16.5 cl150 see table below	
5 Body	2BE	Ductile iron EN-JS 1025 (GGG40.3), Epoxy coated 80µ	
	3HE	Cast steel 1.0619, Epoxy coated 80µ	Sizes 1 1/4"-12" (on request)
	4B0	Stainless steel 1.4409	Sizes 1 1/4"-12"
6 Disc-shaft, one piece	4G0	Stainless steel 1.4408	Sizes 1 1/4"-12"
		Stainless steel 1.4404	Sizes 14"-36"
	4GP	Stainless steel 1.4408 polished Ra < 0,8	Sizes 1 1/4"-12"
		Stainless steel 1.4404 polished Ra < 0,8	Sizes 14"-36"
	4GJ	Stainless steel 1.4435, Ferrite < 1%, e-polished Ra < 0,4	Sizes 1 1/4"-12"
	4GT	Stainless steel PFA coated	Sizes 1 1/4"-12" (>12" on request)
	3BT	Disc carbon steel PFA coated, shaft stainless steel	Sizes 14"-36"
	**A	PFA antistatic	
	4D0	Uranus 1.4539	(on request)
	7H0	Hastelloy 2.4602	(on request)
7 Liner / backup	TS	PTFE / MVQ	
	TE	PTFE / EPDM	
	TV	PTFE / FPM	
	**V	ULTRAFLON® (UF) for Vacuum or Chlorine applications	
	**A	PTFE or ULTRAFLON® antistatic	
8 Special execution	LF	without painting adhesion interfering substance	
	HP	High purity: The valve is cleaned, mounted, proofed and packed under cleanroom conditions. (US federal standard 209b, class 10000)	
	Ex	ATEX execution see brochure BIANCAATEX	
	180	TA-Luft VDI 2440	

Other executions on request !

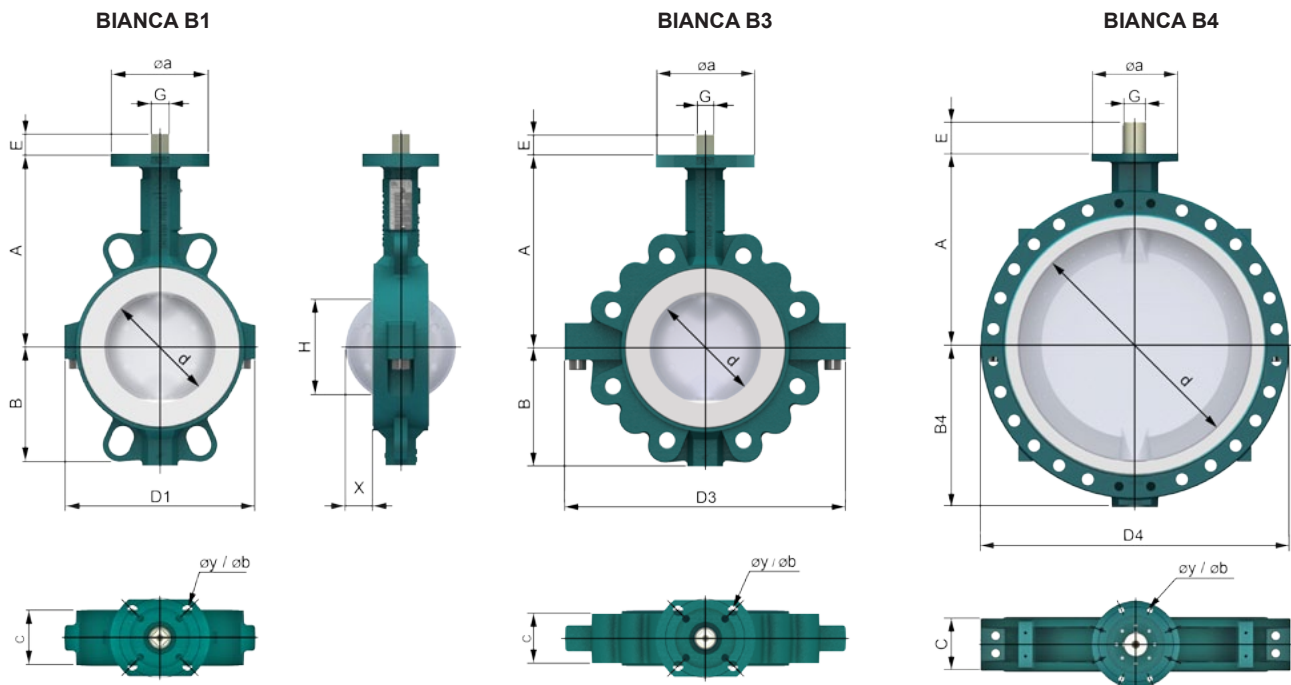
**Rating (Code)

BIANCA	INCH→	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	28	30	32	36
 B1	PN10	3										2									
	PN16	3										A									
	ANSI cl.150	3										A									
 B3	PN10	3										2									
	PN16	3										A									
	ANSI cl.150	A										A									
 B4	PN10															2				2	
	PN16															3				3	
	ANSI cl.150															A				A	

When mounting the valve at the end of a line please note:

- Body type **B3, B4**
- Temperature 50 to 86°F
- Medium only for non hazardous liquids
- Max. working pressure Sizes 1 1/4"-24" 87 psi
- no water hammer !!! > DN24" on request

Dimensions



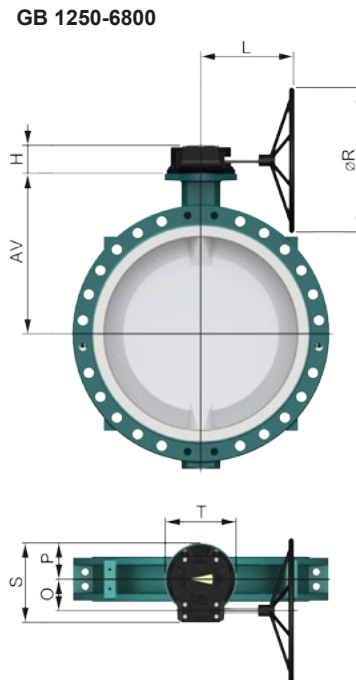
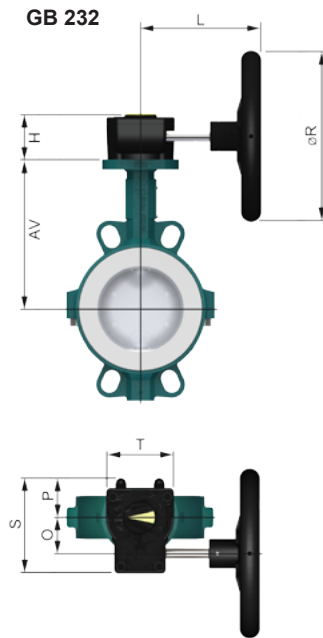
Inch	d	A	B	B4	C	H	D1	D3	D4	ISO	a	y	b	G	E	B1[lb]	B3[lb]	B4[lb]
1 1/4-1 1/2	1,57	4,92	2,72	-	1,30	1,10	4,17	5,35	-	F05	2,56	4x .28	1,97	0,43	0,75	3.7	5.3	-
2	1,96	5,28	2,68	-	1,69	1,85	4,66	6,38	-	F05	2,56	4x .28	1,97	0,43	0,75	5.1	7.1	-
2 1/2	2,56	5,71	3,07	-	1,81	1,73	5,22	6,85	-	F05	2,56	4x .28	1,97	0,43	0,75	6.4	9	-
3	3,15	6,23	3,62	-	1,81	2,72	5,67	8,50	-	F05	2,56	4x .28	1,97	0,43	0,75	7.5	13.7	-
4	3,94	6,89	4,17	-	2,05	3,50	6,81	10,00	-	F05/07	3,54	4x .28/.35	1,97/2.76	0,55	0,75	11.2	20.5	-
5	4,92	7,64	4,72	-	2,20	4,53	8,62	11,54	-	F05/07	3,54	4x .28/.35	1,97/2.76	0,55	0,75	15.2	23.6	-
6	5,91	8,27	5,28	-	2,20	5,59	9,72	12,40	-	F07	3,54	4x .35	2,76	0,67	0,98	22	28.4	-
8	7,87	9,41	6,38	-	2,36	7,64	11,61	15,31	-	F07/F10	4,92	4x .35/.43	2,76/4.02	0,67	0,98	31	49.2	-
10	9,84	10,83	7,83	-	2,68	9,57	14,45	19,02	-	F10	4,92	4x .43	4,02	0,87	1,26	50.5	71.4	-
12	11,81	12,20	9,06	-	3,07	11,50	16,50	21,38	-	F10	4,92	4x .43	4,02	0,87	1,26			-
14	13,35	13,78	10,12	-	3,07	13,11	16,85	22,20	-	F12	6,10	4x .53	4,92	1,06	1,57	110,20	191,80	-
16	15,75	14,96	11,34	-	4,02	15,35	18,82	24,61	-	F12	6,10	4x .53	4,92	1,06	1,57	149,90	216,10	-
18	17,72	16,77	12,60	12,60	4,49	17,24	21,14	-	24,80	F14	6,89	4x .71	5,51	Ø 1.77	2,56	220,50	-	308,60
20	19,69	17,76	14,17	14,17	5,00	19,13	23,43	-	27,56	F14	6,89	4x .71	5,51	Ø 1.77	2,56	269,00	-	385,80
24	23,62	21,85	16,30	16,30	6,06	22,95	27,28	-	32,28	F16	8,27	4x .87	6,50	Ø 2.66	3,54	396,80	-	606,30
28	27,56	23,82	-	18,98	6,50	26,89	-	-	36,61	F16	8,27	4x .87	6,50	Ø 2.83	3,15	-	-	932,60
30	29,53	24,80	-	19,25	7,48	28,66	-	-	38,19	F16	8,27	4x .87	6,50	Ø 2.36	3,54	-	-	844,40
32	31,50	25,91	-	21,97	7,48	30,71	-	-	41,73	F25	11,81	8x .71	10,00	Ø 3.15	4,33	-	-	1477,10
36	35,43	27,95	-	24,09	7,99	34,61	-	-	45,67	F30	13,78	8x .87	11,73	Ø 3.86	5,04	-	-	1940,10

Dimensions X and H are without safety!

The customer must define safety distances to secure accurate installation of the valve.

Dimensions

Gearbox



Inch		AV	H	L	O	P	R	S	T	n**	[lb]*
1 1/4-1 1/2	GB232-05.F05-F0711.100	4,92	2,09	4,76	1,67	1,89	3,94	4,49	3,15	10	1,8
2	GB232-05.F05-F0711.100	5,28	2,09	4,76	1,67	1,89	3,94	4,49	3,15	10	1,8
2 1/2	GB232-05.F05-F0711.100	5,71	2,09	4,76	1,67	1,89	3,94	4,49	3,15	10	1,8
3	GB232-05.F05-F0711.100	6,23	2,09	4,76	1,67	1,89	3,94	4,49	3,15	10	1,8
4	GB232-05.F05-F0714.100	6,89	2,09	4,76	1,67	1,89	3,94	4,49	3,15	10	1,8
5	GB232-05.F05-F0714.100	7,64	2,09	4,76	1,67	1,89	3,94	4,49	3,15	10	1,8
6	GB232-06.F05-F0717.160	8,27	2,32	7,05	1,67	1,89	6,30	4,49	3,15	10	2,0
8	GB232-08.F07-F1017.250	9,41	2,64	8,23	1,97	2,20	9,84	5,16	3,94	9,25	3,4
10	GB232-08.F07-F1022.250	10,83	2,64	8,23	1,97	2,20	9,84	5,16	3,94	9,25	3,4
12	GB232-13.F10-F1222.300	12,20	3,31	14,21	3,15	3,27	11,81	8,23	6,89	10	11,9
14	GB232-13.F10-F1227.400	13,78	3,31	14,80	3,15	3,27	15,75	8,23	6,89	10	11,9
16	GB232-13.F10-F1227.500	14,96	3,31	15,59	3,15	3,27	19,69	8,23	6,89	10	11,9
18	GB232-14.F1445.500	16,77	3,31	15,59	3,15	3,27	19,69	8,23	6,89	10	11,9
20	GB232-14.F1445.600	17,76	3,31	15,59	3,15	3,27	23,62	8,23	6,89	10	11,9
24	GB1250N.F1660.500	21,85	3,94	13,62	4,13	4,33	19,69	10,16	8,66	13,75	48,5
28	GB1950N.F1672.600	23,82	4,96	15,24	5,12	5,59	23,62	12,68	11,22	13	70,5
30	GB1250N.F1660.700	24,80	3,94	13,62	4,13	4,33	19,69	10,16	8,66	13,75	48,5
32	GB1950N/HR.F2580.600	25,91	4,96	15,24	5,12	5,59	23,62	12,68	11,22	21	70,5
36	GB6800NSP4.F3098.400	27,95	6,30	19,69	10,35	6,69	15,75	18,98	14,57	79,25	154,3

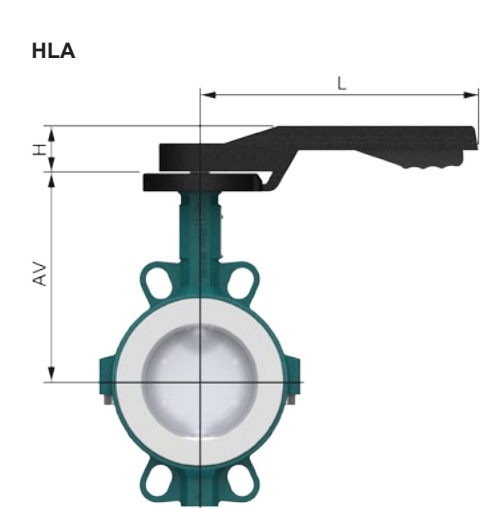
Material: GB 232 Aluminium, Polyurethane coated
GB1250-GB6800 GG25 / A48-40 B Polyurethane coated

* [lb] weight without butterfly valve

** n = Handwheel turns ON/OFF

Dimensions

Handlever



HLA : Aluminum Epoxy coated

Inch		AV	H	L	[lb]*
1¼-1½	HLA.F0511.180	4,92	1,61	7,09	0,9
2	HLA.F0511.240	5,28	1,69	9,57	1,1
2 1/2	HLA.F0511.240	5,71	1,69	9,57	1,1
3	HLA.F0511.240	6,23	1,69	9,57	1,1
4	HLA.F0714.340	6,89	1,69	13,39	1,3
5	HLA.F0714.340	7,64	1,69	13,39	1,3
6	HLA.F0717.340	8,27	2,01	13,39	1,3

* [lb] weight without butterfly valve

Further documentation

Pneumatic actuators, Electric actuators, Accessories according separate data sheets.
Installation guide, Maintenance guide, Flanges: Please consult these guides for the installation and maintenance of our butterfly valves.

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