INDUSTRIAL VALVE SOLUTION
MIX FLOW
Grupa Baltina www.mixflow.com.pl

DOUBLE ECCENTRIC BVHD / BLHD
Pmax: 25 bar | PN10-16-25 | DN40 – DN600

Series BVHD – Wafer | BLHD – Lug

Max working pressure:
BVHD/BLHD DN 40÷600: **25 Bar**
Flange: ***PN 10-16-25 • A150***

Design:
EN 593~EN 736
EN 12516~EN 1092~EN12266
ISO 5211~DIN 3337~API 609~ASME B16.34
PED 2014/68/EU - Mod. H

Face to face:
DIN EN 558 Series 20~ISO 5752 Series 20
BS-5155 Series 4~MSS-SP67
NFE 29305-1
API 609 cat.B
API 609 cat.A (DN 350 excluded)

Testing:
EN 12266-1 Rate A (supersedes DIN 3230)
ISO 5208 Rate A ~ API 598
FIRE TEST API 607 VI Ed. September
Class V - Met/Met

Tag:
EN 19 ~ MSS SP-25



All valves are supplied with a metallic label in compliance with PED directive.



TYPE APPROVED PRODUCT DNV DNV.COM/AF
BUREAU VERITAS TYPE APPROVAL
EAC
CE 0497 [PED]
Ex II 2 GD Ex h X X (see ATEX accompanying instructions)
Fire-Safe ANSI/API 607 - ISO 10497-5
SIL safety integrity level
FUGITIVE EMISSIONS TA-Luft ISO 15848-1

BODY			
material	references	standard coating	DN
Carbon steel (wafer, lug)	EN 1.0619 (ASTM A216-WCB)	High-temp coating - grey color	40-600
Stainless steel (wafer, lug)	EN 1.4408 (A351 CF8M)	-	40-600
Austenitic Stainless steel	EN 1.4547 (A351 CK3MCuN)	-	40-600
SUPERDUPLEX	EN 1.4469 (A890 Gr. 5A)	-	40-600

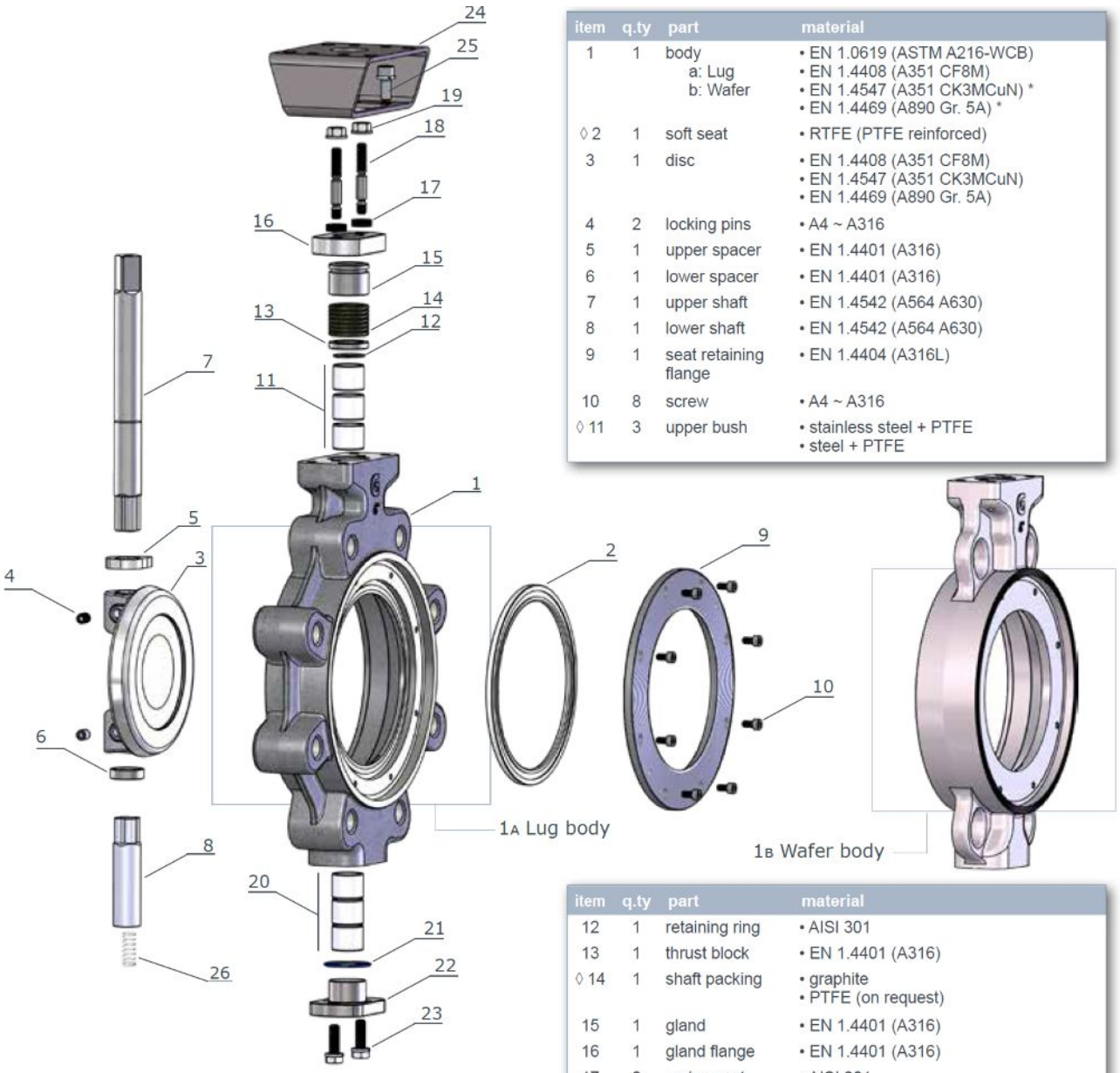
DISC		
material	references	DN
Stainless steel	EN 1.4408 (A351 CF8M)	40-600
Austenitic Stainless steel	EN 1.4547 (A351 CK3MCuN)	40-600
SUPERDUPLEX	EN 1.4469 (A890 Gr. 5A)	40-600

SEDE		
ref.	material	working temp.
RT	RTFE (PTFE reinforced)	Min: -55°C - Max: +230°C
IN	Inconel 625	Min: -55°C - Max: +450°C
FS	RTFE + Inconel 625	Min: -55°C - Max: +230°C / +450°C

On request can be supplied other materials as: LCB, Hastelloy, Uranus, Alloy, Super Duplex, Special steels, Special bronzes.
Special coating on request.

DOUBLE ECCENTRIC BVHD / BLHD
Pmax: 25 bar | PN10-16-25 | DN40 – DN600

Construction Seat: RTFE
DN 40 - 600 [1"1/2 – 24"], PN 10 - 16 - 25 | ANSI 150



item	q.ty	part	material
1	1	body a: Lug b: Wafer	• EN 1.0619 (ASTM A216-WCB) • EN 1.4408 (A351 CF8M) • EN 1.4547 (A351 CK3MCuN) * • EN 1.4469 (A890 Gr. 5A) *
◊ 2	1	soft seat	• RTFE (PTFE reinforced)
3	1	disc	• EN 1.4408 (A351 CF8M) • EN 1.4547 (A351 CK3MCuN) • EN 1.4469 (A890 Gr. 5A)
4	2	locking pins	• A4 ~ A316
5	1	upper spacer	• EN 1.4401 (A316)
6	1	lower spacer	• EN 1.4401 (A316)
7	1	upper shaft	• EN 1.4542 (A564 A630)
8	1	lower shaft	• EN 1.4542 (A564 A630)
9	1	seat retaining flange	• EN 1.4404 (A316L)
10	8	screw	• A4 ~ A316
◊ 11	3	upper bush	• stainless steel + PTFE • steel + PTFE

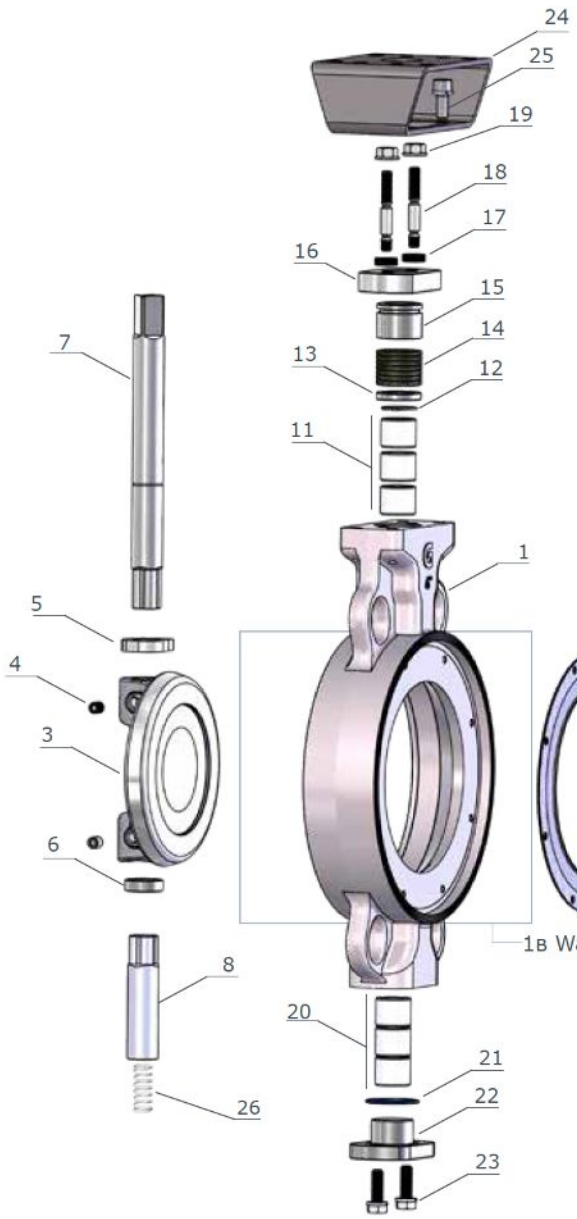
item	q.ty	part	material
12	1	retaining ring	• AISI 301
13	1	thrust block	• EN 1.4401 (A316)
◊ 14	1	shaft packing	• graphite • PTFE (on request)
15	1	gland	• EN 1.4401 (A316)
16	1	gland flange	• EN 1.4401 (A316)
17	2	springs set	• AISI 301
18	2	rods	• A4 ~ A316
19	2	nut	• A2 ~ A304
◊ 20	3	lower bush	• stainless steel + PTFE • steel + PTFE
◊ 21	1	O-ring	• PTFE
22	1	lower plug	• EN 1.4401 (A316)
23	2	screw	• A4 ~ A316
24	1	upper flange	• steel epoxy coated
25	4	screw	• A4 ~ A316
26	1	spring	• 1.4401 ~ A316 (antistatic device)

◊ parts included in spare kit

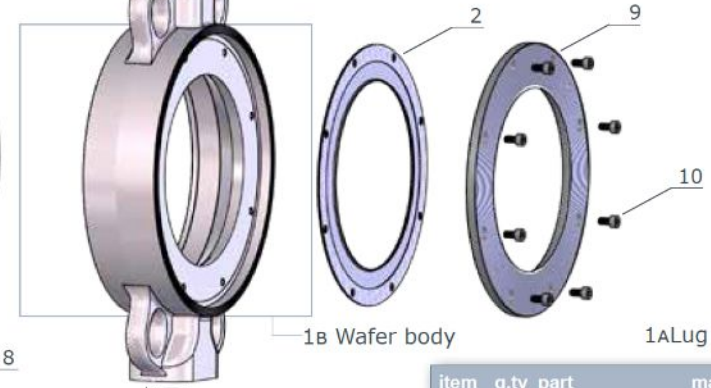
* with special material body the components in contact with the fluid will also be in a suitable material

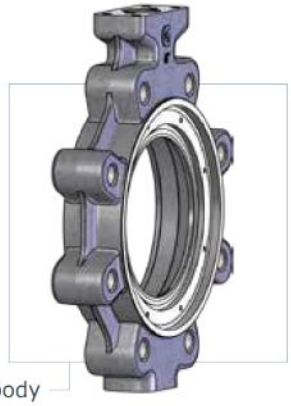
DOUBLE ECCENTRIC BVHD / BLHD
Pmax: 25 bar | PN10-16-25 | DN40 – DN600

Construction Seat: Inconel seat
DN 40 - 600 [1"1/2 – 24"], PN 10 - 16 - 25 | ANSI 150



item	q.ty	part	material
1	1	body A: Lug B: Wafer	• EN 1.0619 (ASTM A216-WCB) • EN 1.4408 (A351 CF8M) • EN 1.4547 (A351 CK3MCuN) * • EN 1.4469 (A890 Gr. 5A) *
◊ 2	1	metallic seat	• Inconel 625 + graphite
3	1	disc	• EN 1.4408 (A351 CF8M) • EN 1.4547 (A351 CK3MCuN) • EN 1.4469 (A890 Gr. 5A)
4	2	locking pins	• A4 ~ A316
5	1	upper spacer	• EN 1.4401 (A316)
6	1	lower spacer	• EN 1.4401 (A316)
7	1	upper shaft	• EN 1.4542 (A564 A630)
8	1	lower shaft	• EN 1.4542 (A564 A630)
9	1	seat retaining flange	• EN 1.4404 (A316L)
10	8	screw	• A4 ~ A316
◊ 11	3	upper bush	• stainless steel + PTFE • steel + PTFE





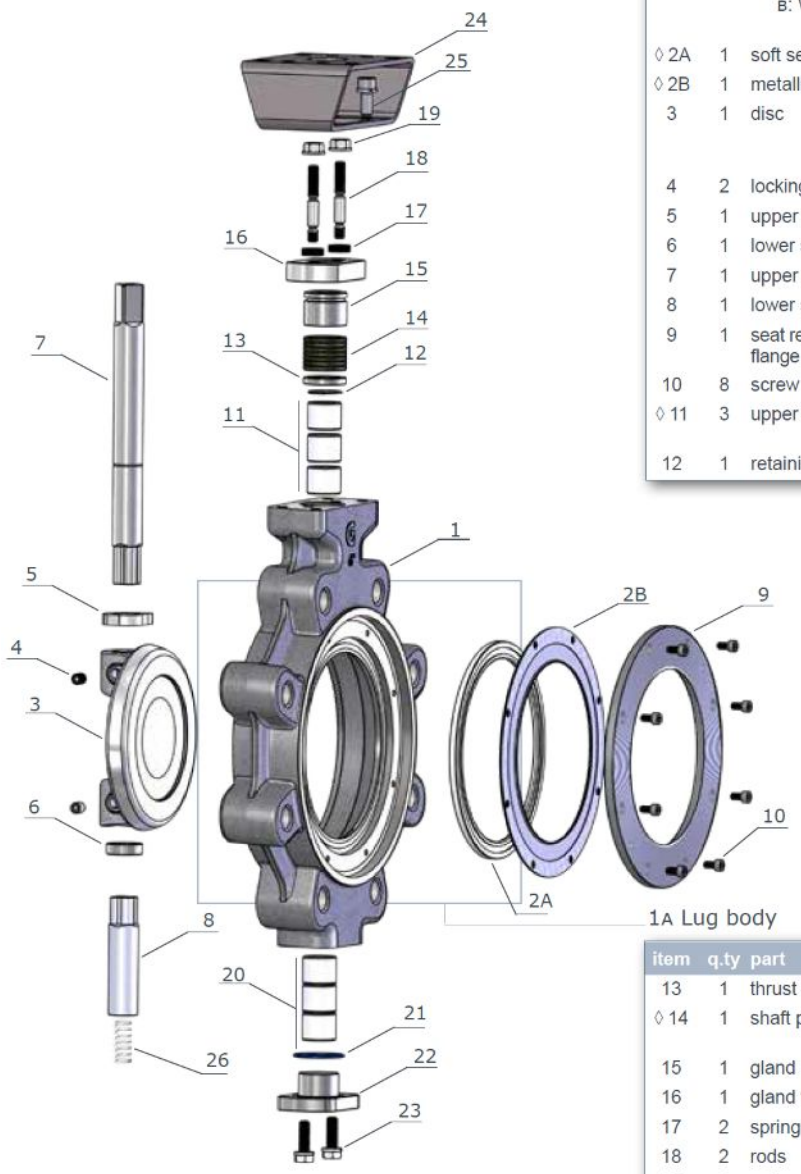
item	q.ty	part	material
12	1	retaining ring	• AISI 301
13	1	thrust block	• EN 1.4401 (A316)
◊ 14	1	shaft packing	• graphite • PTFE (on request)
15	1	gland	• EN 1.4401 (A316)
16	1	gland flange	• EN 1.4401 (A316)
17	2	springs set	• AISI 301
18	2	rods	• A4 ~ A316
19	2	nut	• A2 ~ A304
◊ 20	3	lower bush	• stainless steel + PTFE • steel + PTFE
◊ 21	1	packing	• graphite
22	1	lower plug	• EN 1.4401 (A316)
23	2	screw	• A4 ~ A316
24	1	upper flange	• steel epoxy coated
25	4	screw	• A4 ~ A316
26	1	spring	• 1.4401 ~ A316 (antistatic device)

◊ parts included in spare kit

* with special material body the components in contact with the fluid will also be in a suitable material

DOUBLE ECCENTRIC BVHD / BLHD
Pmax: 25 bar | PN10-16-25 | DN40 – DN600

Construction "FIRE SAFE" design
DN 40 - 600 [1"1/2 – 24"], PN 10 - 16 - 25 | ANSI 150



item	q.ty	part	material
1	1	body A: Lug B: Wafer	• EN 1.0619 (ASTM A216-WCB) • EN 1.4408 (A351 CF8M) • EN 1.4547 (A351 CK3MCuN) * • EN 1.4469 (A890 Gr. 5A) *
◊ 2A	1	soft seat	• RTFE (PTFE reinforced)
◊ 2B	1	metallic seat	• Inconel 625 + graphite
3	1	disc	• EN 1.4408 (A351 CF8M) • EN 1.4547 (A351 CK3MCuN) • EN 1.4469 (A890 Gr. 5A)
4	2	locking pins	• A4 ~ A316
5	1	upper spacer	• EN 1.4401 (A316)
6	1	lower spacer	• EN 1.4401 (A316)
7	1	upper shaft	• EN 1.4542 (A564 A630)
8	1	lower shaft	• EN 1.4542 (A564 A630)
9	1	seat retaining flange	• EN 1.4404 (A316L)
10	8	screw	• A4 ~ A316
◊ 11	3	upper bush	• stainless steel + PTFE • steel + PTFE
12	1	retaining ring	• AISI 301



1A Lug body

1B Wafer body

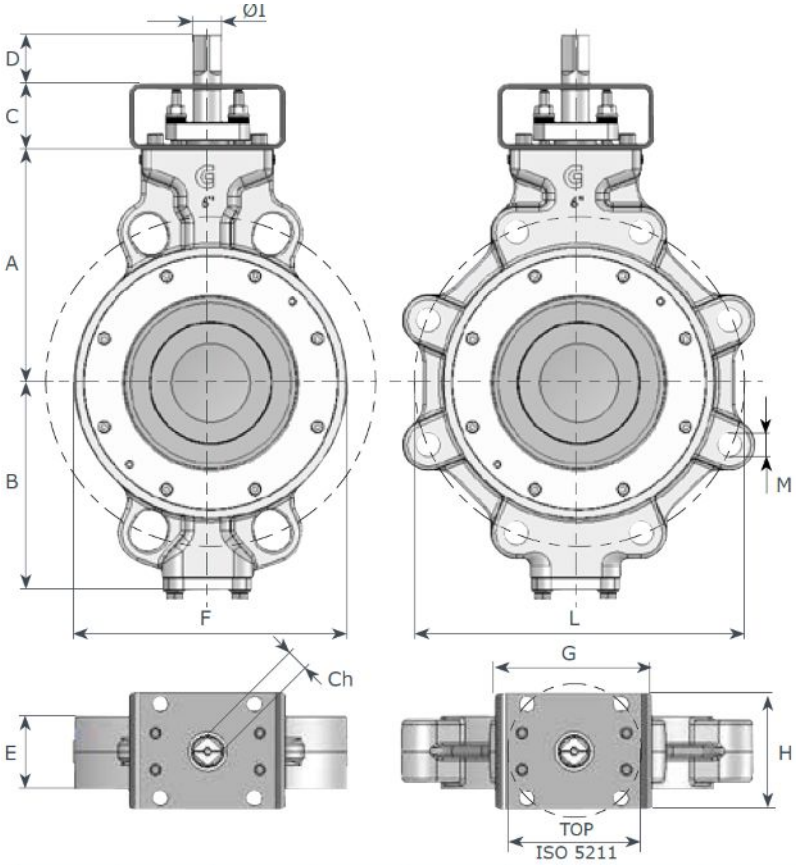
item	q.ty	part	material
13	1	thrust block	• EN 1.4401 (A316)
◊ 14	1	shaft packing	• graphite • PTFE (on request)
15	1	gland	• EN 1.4401 (A316)
16	1	gland flange	• EN 1.4401 (A316)
17	2	springs set	• AISI 301
18	2	rods	• A4 ~ A316
19	2	nut	• A2 ~ A304
◊ 20	3	lower bush	• stainless steel + PTFE • steel + PTFE
◊ 21	1	packing	• graphite
22	1	lower plug	• EN 1.4401 (A316)
23	2	screw	• A4 ~ A316
24	1	upper flange	• steel epoxy coated
25	4	screw	• A4 ~ A316
26	1	spring	•1.4401 ~ A316 (antistatic device)

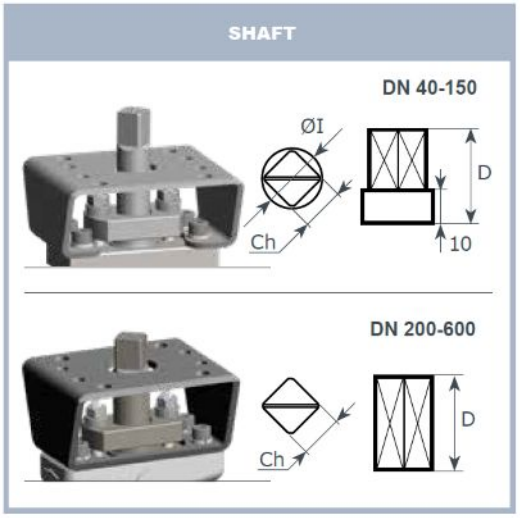
◊ parts included in spare kit

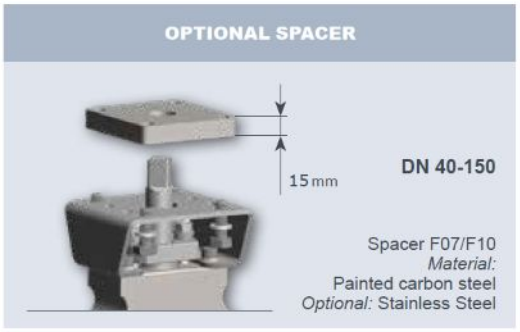
* with special material body the components in contact with the fluid will also be in a suitable material

DOUBLE ECCENTRIC BVHD / BLHD
Pmax: 25 bar | PN10-16-25 | DN40 – DN600

Dimensions







DN	"	A	B	C	D	E	F	G	H	Ø I	Ch	TOP
40	1 1/2	113	76	50	34	39	85	100	70	14	11	F05/F07
50	2	117	81	50	34	43	95	100	70	14	11	F05/F07
65	2 1/2	120	93	50	34	46	105	100	70	14	11	F05/F07
80	3	129	101	50	34	46	127	100	70	14	11	F05/F07
100	4	160	128	50	34	52	150	100	70	18	14	F05/F07
125	5	170	159	50	38	56	174	120	95	22	17	F07/F10
150	6	179	168	50	38	56	210	120	95	22	17	F07/F10
200	8	218	207	60	23	61	270	120	95	28	22	F07/F10
250	10	257	232	80	23	69	325	160	130	30	22	F12/F14
300	12	300	270	80	28	78	378	160	130	35	27	F12/F14
350	14	328	304	100	28	92	432	200	140	40	27	F14
400	16	387	340	100	37	102	485	200	160	45	36	F16
500	20	451	427	100	47	127	580	210	160	60	46	F16
600	24	515	460	150	56	154	694	300	300	70	55	F25

DN	PN 10			PN 16			PN 25			ANSI 150			Kg.	
	M	n.	L	M	n.	L	M	n.	L	M [1]	n.	L	wafer	lug
40	M16	4	110	M16	4	110	M16	4	110	M14	4	98,4	4,0	4,0
50	M16	4	125	M16	4	125	M16	4	125	M16	4	120.7	3.5	5.7
65	M16	8	145	M16	8	145	M16	8	145	M16	4	139.7	4.0	7
80	M16	8	160	M16	8	160	M16	8	160	M16	4	152.4	4.8	7.6
100	M16	8	180	M16	8	180	M20	8	190	M16	8	190.5	8	9.7
125	M16	8	210	M16	8	210	M24	8	220	M20	8	215.9	10.1	14.8
150	M20	8	240	M20	8	240	M24	8	250	M20	8	241.3	13.5	17.6
200	M20	8	295	M20	12	295	M24	12	310	M20	8	298.5	22	32
250	M20	12	350	M24	12	355	M27	12	370	M22	12	362.0	35	46
300	M20	12	400	M24	12	410	M27	16	430	M22	12	431.8	50	62
350	M20	16	460	M24	16	470	M30	16	490	M24	12	476.3	83	110
400	M24	16	515	M27	16	525	M33	16	550	M27	16	539.8	107	140
500	M24	20	620	M30	20	650	M33	20	660	M27	20	635.0	200	250
600	M27	20	725	M33	20	770	M36	20	770	M33	20	749,3	280	350

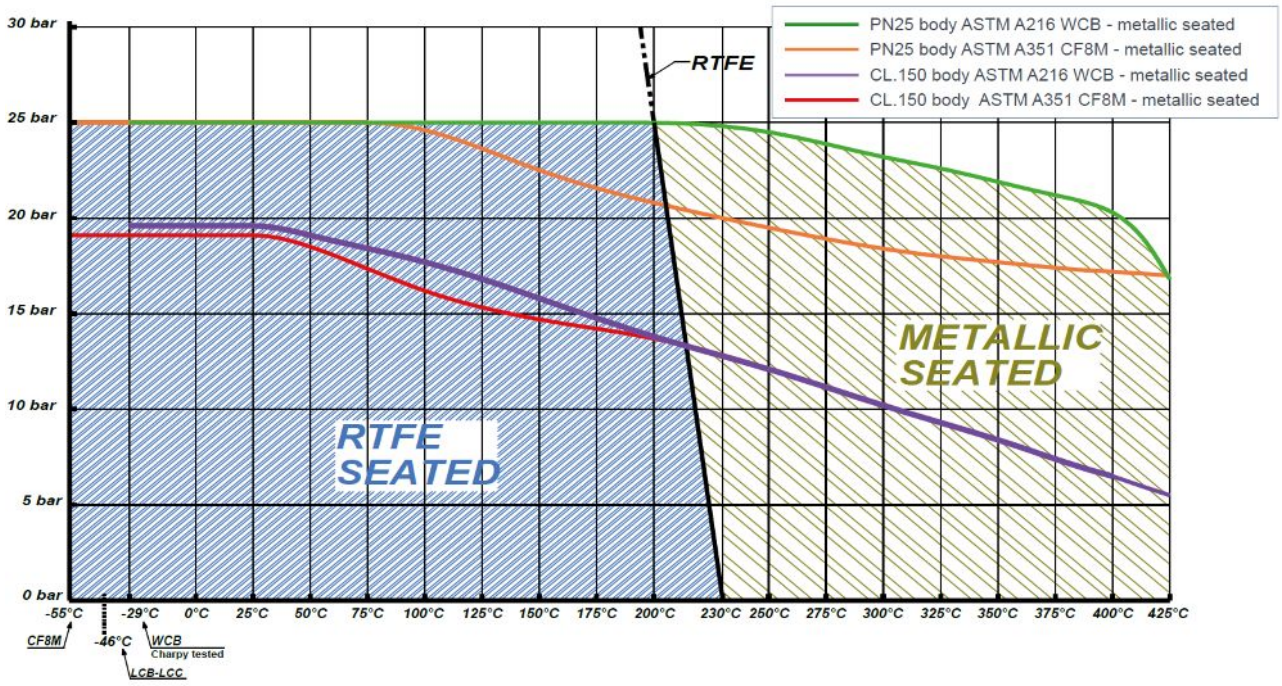
NOTE [1]: in case of ANSI150 flanges, threading can be ANSI B1.1 UNC2B

DOUBLE ECCENTRIC BVHD / BLHD
Pmax: 25 bar | PN10-16-25 | DN40 – DN600

Torque values - Nm | safety factor excluded

seat: RTFE - fluid: H_2O - 20°C working pressure: BAR					seat: INCONEL - fluid: H_2O - 20°C working pressure: BAR				
DN	10	16	20	25	DN	10	16	20	25
40	21	27	36	42	40	32	40	52	61
50	24	30	40	47	50	36	44	58	68
65	34	38	48	60	65	51	56	70	86
80	38	45	54	68	80	57	67	78	97
100	45	56	62	81	100	68	83	89	114
125	85	90	105	120	125	124	133	154	168
150	130	145	170	210	150	186	212	248	302
200	155	251	326	423	200	261	350	392	570
250	330	450	520	580	250	480	668	765	848
300	580	640	740	850	300	848	941	1085	1244
350	780	1030	1190	1550	350	950	1250	1500	1850
400	850	1400	1750	2275	400	1750	2180	2470	2830
500	1925	2560	2980	3875	500	2740	3445	3910	4500
600	3550	4700	5600	6600	600	5000	6300	7450	8000

Pressure / Temperature



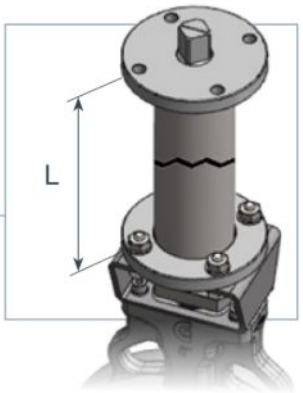
Waterproof valve shaft extension

When necessary, it's possible to extend the valve shaft as indicated in the figure. Construction is in carbon steel with protective paint (on request stainless steel).

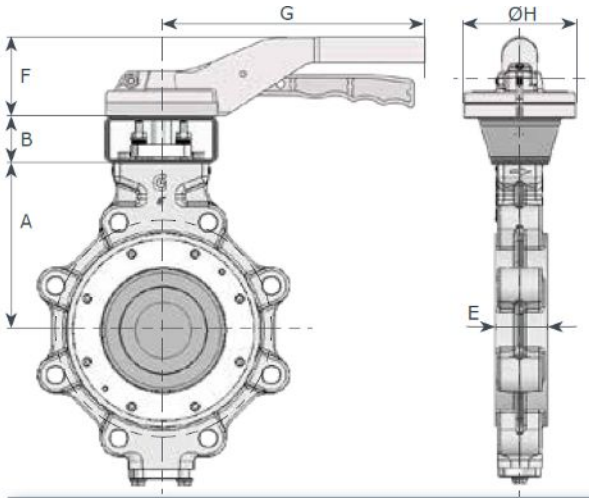
NOTE

Our tecnical department is available to solve special applications.

"L" measure should be indicated when ordering.



Handlever



DN	"	A	B	E	F	G	ØH	aluminium Weight (Kg) wafer	aluminium Weight (Kg) lug	St.steel Weight (Kg) wafer	St.steel Weight (Kg) lug
40	1 1/2	113	50	39	67	220	93	4.6	4.6	5.7	5.7
50	2	117	50	43	67	220	93	4.1	6.3	5.2	7.4
65	2 1/2	120	50	46	67	220	93	4.6	7.6	5.7	8.7
80	3	129	50	46	67	220	93	5.4	8.2	6.5	9.3
100	4	160	50	52	67	275	93	8.7	10.4	10.0	11.7
125	5	170	50	56	76	340	125	11.1	15.8	-	-
150	6	179	50	56	76	340	125	14.5	18.6	-	-

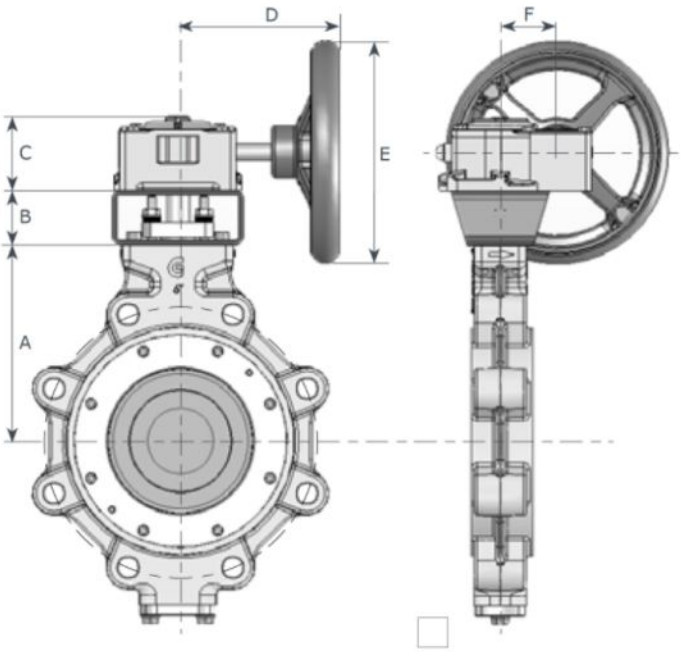
COMPONENTS



		DN 40-150	DN 40-100
1	lever	aluminium	A351 CF8M
2	trigger	aluminium	A351 CF8M
3	spring	stainless steel	stainless steel
4	disc positioning	aluminium	A351 CF8M
5	screws	stainless steel	stainless steel

DOUBLE ECCENTRIC BVHD / BLHD
Pmax: 25 bar | PN10-16-25 | DN40 – DN600

Gearboxes - coupling and dimensions



GH series		
body:	ductile iron GGG40	
worm gears:	steel	
sector gear:	ductile iron	
shaft:	steel	
handwheel:	steel	
protection:	IP67	*low/high temperature execution on request*
T: -20 / +80 °C		

RTFE seated valve / fluid: H2O / T: 20°C

DN	"	A	B	C	D	E	F	type	Weight (Kg) wafer	Weight (Kg) lug
40	1 1/2	113	50	64	170	200	44	GH 10	6.3	6.3
50	2	117	50	64	170	200	44	GH 10	5.8	8
65	2 1/2	120	50	64	170	200	44	GH 10	6.3	9.3
80	3	129	50	64	170	200	44	GH 10	7.1	9.9
100	4	160	50	64	170	200	44	GH 10	10.3	12
125	5	170	50	66	179	200	52	GH 20	13.7	18.4
150	6	179	50	66	179	200	52	GH 20	17.1	21.2
200	8	218	60	73	214	300	62	GH 21	27	37
250	10	257	80	89	265	350	79	GH 30	47	58
300	12	300	80	99	300	400	89	GH 55	62	74
350	14	328	100	92	275	500	101	GH 66	97	124
400	16	387	100	115	350	500	112	GH 88	127	160
500	20	451	100	126	430	600	129	GH195 BR3.5	235	285
600	24	515	150	154	435	600	157	GH300 BR5	330	400

INCONEL seated valve / fluid: H2O / T: 20°C

DN	"	A	B	C	D	E	F	type	Weight (Kg) wafer	Weight (Kg) Lug
40	1 1/2	113	50	64	170	200	44	GH 10	6.3	6.3
50	2	117	50	64	170	200	44	GH 10	5.8	8
65	2 1/2	120	50	64	170	200	44	GH 10	6.3	9.3
80	3	129	50	64	170	200	44	GH 10	7.1	9.9
100	4	160	50	64	170	200	44	GH 10	10.3	12
125	5	170	50	66	179	200	52	GH 20	13.7	18.4
150	6	179	50	66	179	200	52	GH 20	17.1	21.2
200	8	218	60	73	214	300	62	GH 21	27	37
250	10	257	80	89	265	350	79	GH 30	47	58
300	12	300	80	99	300	400	89	GH 55	62	74
350	14	328	100	92	275	500	101	GH 66	97	124
400	16	387	100	115	350	500	112	GH 88	127	160
500	20	451	100	126	430	600	129	GH195 BR3.5	235	285
600	24	515	150	154	451	600	157	GH300 BR6	340	410

INDUSTRIAL VALVE SOLUTION
MIX FLOW
Grupa Baltina www.mixflow.com.pl

MIXFLOW – ENERGY
PL 80 – 067 Gdańsk,
ul. Równa 19/21
Tel: +48 58 676 55 39
info@mixflow.com.pl

Przepustnice (zawory motylkowe) przedstawione w niniejszym katalogu wyprodukowane zostały na terenie UE przez Ghibson Italia srl zgodnie ze specyfikacją firmy MIXFLOW – ENERGY.