GIBSON valves

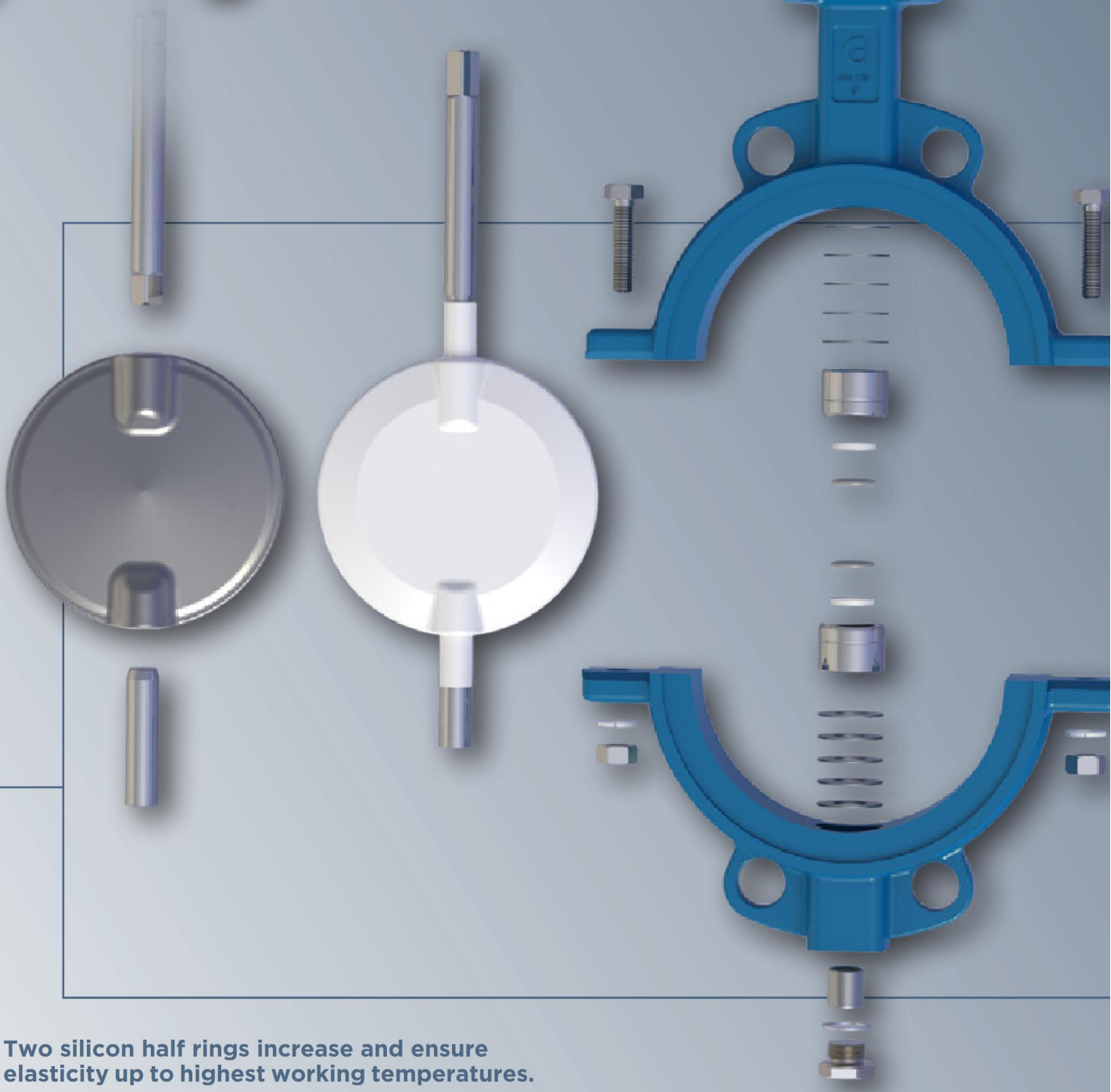
Butterfly valves

PTFE Seated

Butterfly valves

PTFE SEATED

PTFE body seat has a thickness varying from 2,5 to 3 mm depending on the position, even in the shaft area.



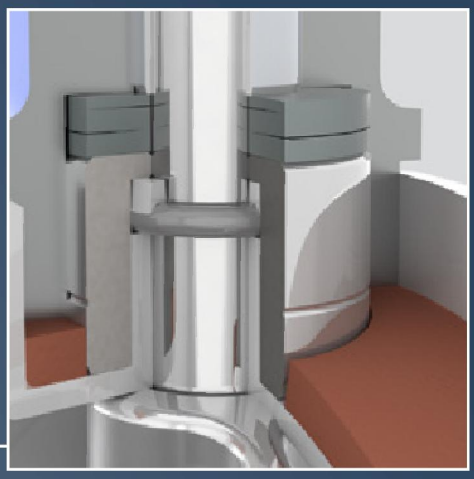
Two silicon half rings increase and ensure elasticity up to highest working temperatures.

Discs are available in stainless steel (AISI316, HASTELLOY®, DUPLEX®, SUPERDUPLEX®, INCONEL®, etc.), and in stainless steel coated with HALAR® or PTFE.

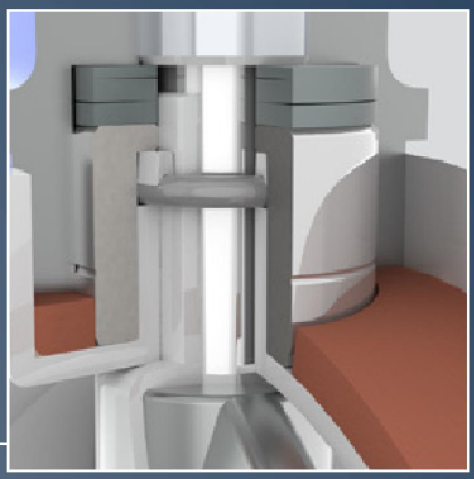
Standard shafts are in AISI316 stainless teel (Monel® or other materials on request).

Belleville washers ensure the sealing in the upper plane of the disc.

Furthermore a double packing consisting in a FEP coated FKM O Ring and a PTFE C-ring will avoid any leakage along the shaft.



In the TT-valve series the PTFE lining covers the shaft beyond the FEP coated FKM O Ring so that the fluid never contacts the metal core of the disc.



Butterfly valves

PTFE SEATED

Ghibson PTFE seated butterfly valves TT series are available in a wide range of materials combinations, and specifically designed for the chemical industry and heavy duty applications.

TT Series	**1**
• technical data	1
• components DN 50-300	2
Stainless steel disc	2
Stainless steel + PTFE disc	3
• components DN 350-500	4
• dimensions	5
• torque values	6
Flanges	**7**
Bolts and rods dimensions	**8**
Installation instructions	**9**
Tests	**9**
Handlever	**10**
Gearbox	**11**
Actuators coupling	**12**
• pneumatic actuators	12
• declutchable gearboxes	12
• emergency handlever	12

DVP DIGITAL VALVES PLATFORM
visit ***ghibson.it/dvp*** to download 2D and 3D technical drawing.

GHIBSON
Zola Predosa
Bologna

Ghibson Italia srl reserves the right to change and/or update data/content without previous notice.

BVTT - Wafer
DN 50 - 500 • 2” - 20”

BLTT - Lug
DN 50 - 500 • 2” - 20”

Max working pressure:

BVTT/BLTT DN 50÷400: **10 Bar**
Flange: ***PN 10-16-A150***
BVTT/BLTT DN 500: **6 Bar**
Flange: ***PN 10-16-A150***

To be used for vacuum
(not with PTFE disc)

Design:

EN 593 ~ EN 736 ~ EN 12516 ~ EN 1092
ISO 5211 ~ DIN 3337 ~ API 609
PED 97/23/EC (cat III) Mod H

Face to face:

DIN EN 558-1 Series 20 ~ ISO 5752 Series 20
BS-5155 Series 4 ~ MSS-SP67
API 609 cat. A ~ NFE 29305-1

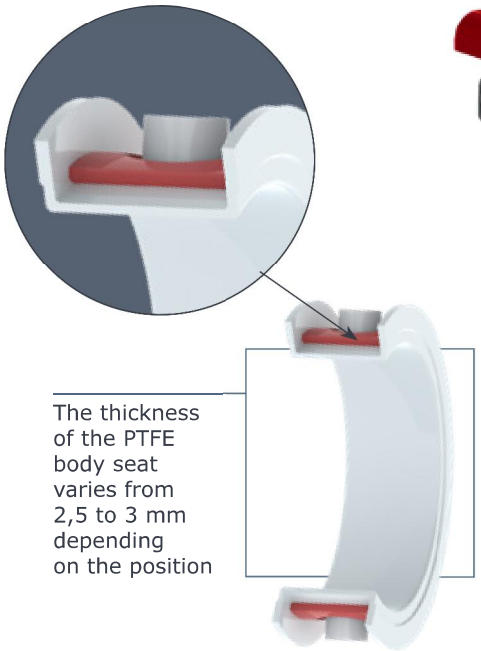
Testing:

EN 12266-1 Rate A (supersedes DIN 3230)
ISO 5208 Rate A ~ API 598

Tag:

EN 19 ~ MSS SP-25

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



BUREAU VERITAS TYPE APPROVAL

DNV·GL TYPE APPROVAL

SIL safety integrity level

EAC

CE 0497 [PED]

Ex II 2 GD c TX

TÜV TA-Luft

BODY

material	references	standard coating	lug	wafer
Ductile iron (wafer, lug)	EN-GJS 400-15 (GS400)	Epoxy RAL 5009	50-500	50-500
Carbon steel (wafer)	ASTM A216-WCB	Epoxy RAL 9005	-	50-500
Stainless steel (wafer)	ASTM A351 CF8M (A316)	-	-	50-500

DISC

material	references	standard coating	coating on request	DN
Stainless steel	ASTM A351 CF8M (A316)	-	HALAR®, PFA	50-500
Stainless steel	ASTM A564 Type 630	PTFE	-	50-300
Hastelloy®	ASTM A494 CX2MW	-	-	50-500
Monel®	ASTM A494 M35-1	-	-	50-500

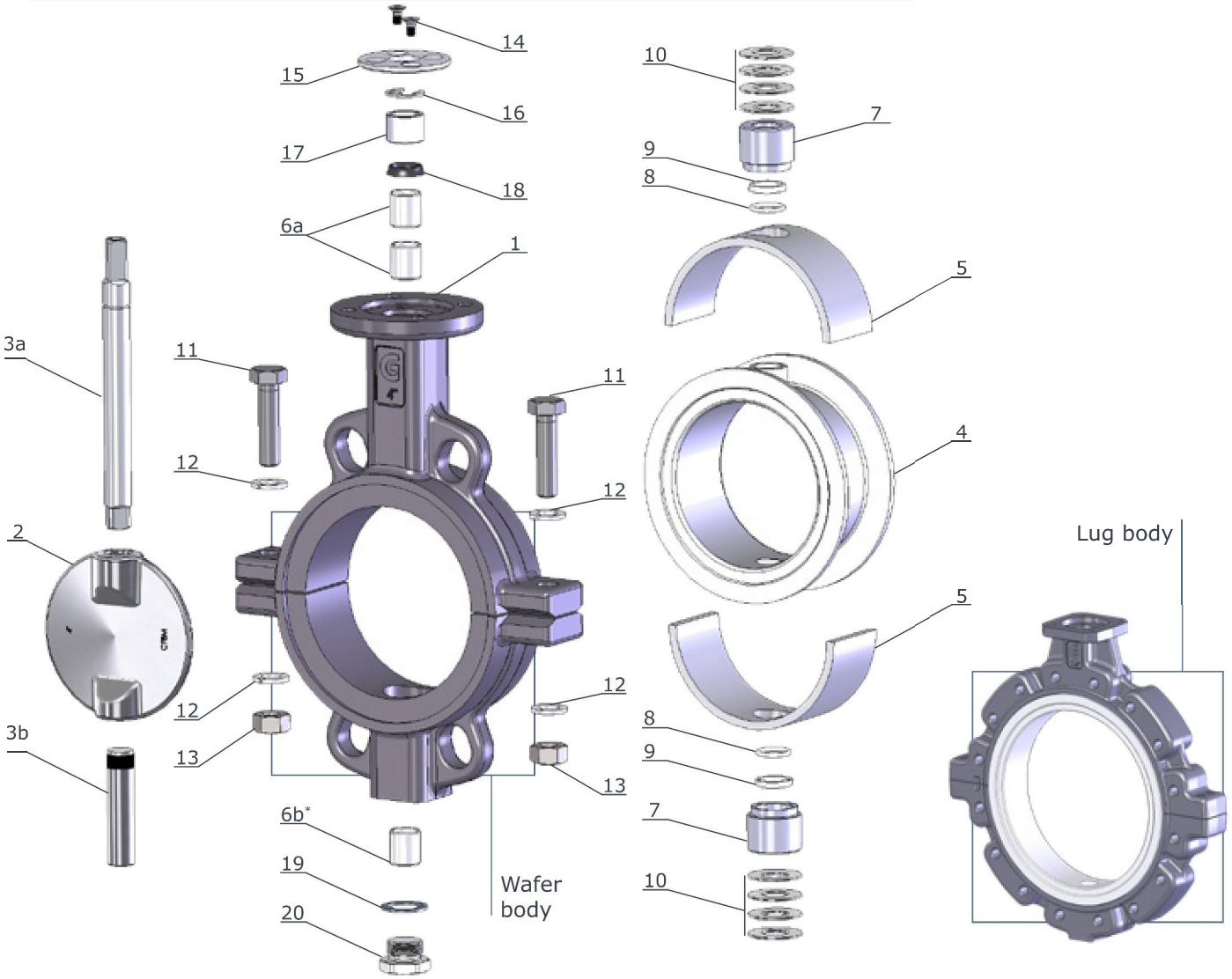
BODY SEAT

ref.	designation	trade name	working temp.	appications
PTFE	polytetrafluorethylene	TEFLON®	-60°C / +190°C	acids, foods, solvents

On request can be supplied other materials as: LCB, Hastelloy, Monel, Uranus, Alloy, DUPLEX, Special steels, Special bronzes.
Coating on request: RILSAN®, Halar®, Chenisil®, PFA

BVTT - Wafer **BLTT** - Lug
DN 50 - 300 • 2" - 12"
PN 10-16 • ANSI 150

Stainless steel (ASTM A351 CF8M) disc



item	q.ty	part	material
1	1	body	• ductile iron GS400 • A216 - WCB • A351 - CF8M (AISI 316)
2	1	disc	• A351 - CF8M (AISI 316) • HALAR® (on request)
3a	1	upper shaft	• AISI 316
3b	1	lower shaft	• AISI 316
◇4	1	body seat	• PTFE
◇5	1	elastic support	• silicon
6a	2	bush upper shaft	• steel + PTFE
6b *	1*	bush lower shaft	• steel + PTFE
7	2	housing	• AISI 316
◇8	2	O. Ring	• FEP + FKM (VITON®)
◇9	2	C. Ring	• PTFE
10	2	springs set	• steel

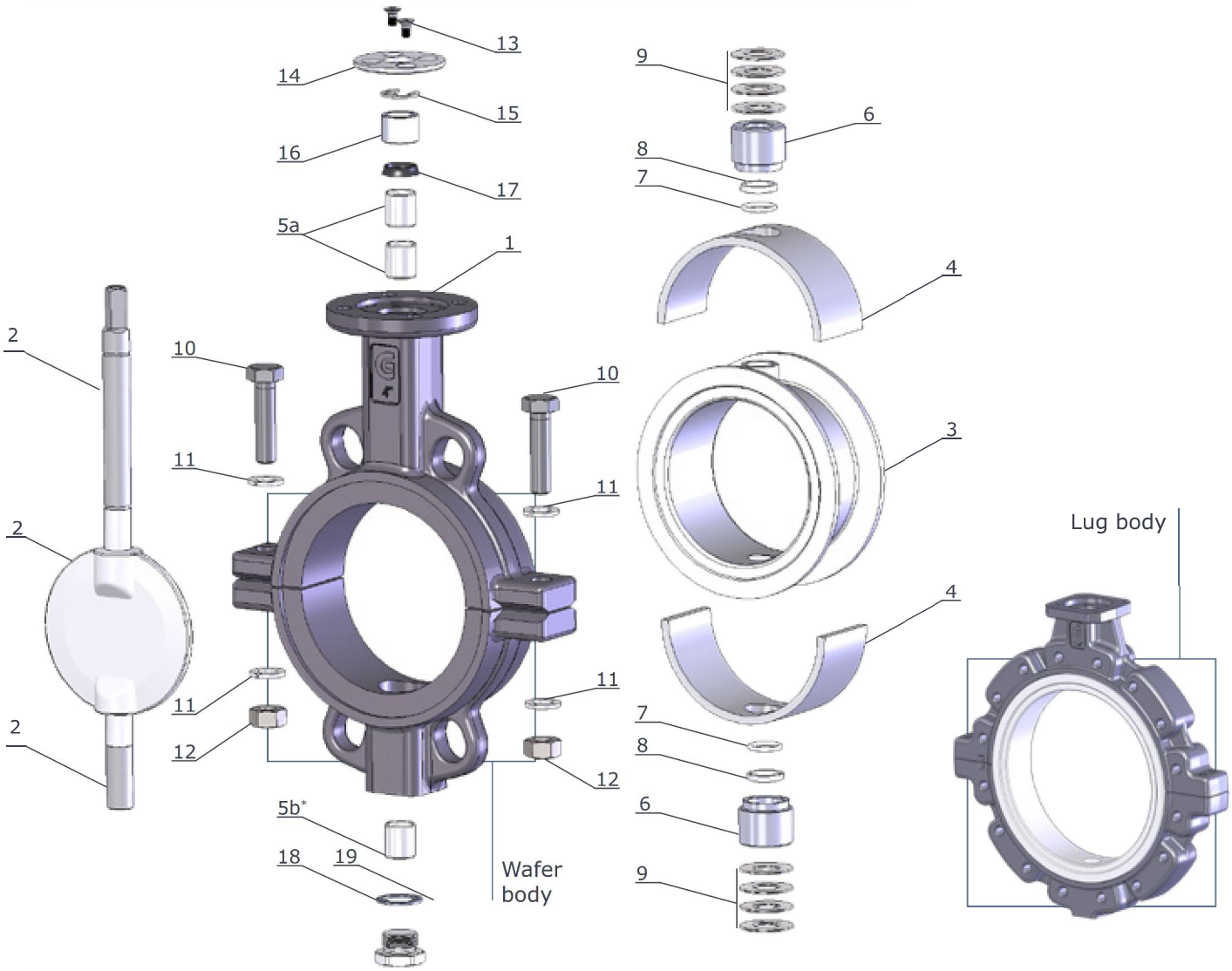
item	q.ty	part	material
11	2	screw	• zinc plated steel • AISI 316 (body AISI 316)
12	4	washer	• zinc plated steel • AISI 316 (body AISI 316)
13	2	screw nut	• zinc plated steel • AISI 316 (body AISI 316)
14	2	screw	• zinc plated steel • AISI 316 (body AISI 316)
15	1	upper flange	• IXEF (DN 50/150) • aluminium (DN 200/300)
16	1	stop ring	• steel
◇17	1	upper bush	• PFTE
◇18	1	O.Ring	• FKM (VITON®)
19	1	plug packing	• aluminium • PTFE (body AISI 316)
20	1	threaded plug	• zinc plated steel • AISI 316 (body AISI 316)

** only DN200/300*

◇ parts included in spare kit

BVTT - Wafer **BLTT** - Lug
DN 50 - 300 • 2” - 12”
PN 10-16 • ANSI 150

Stainless steel disc (ASTM A564 Type 630) PTFE coated



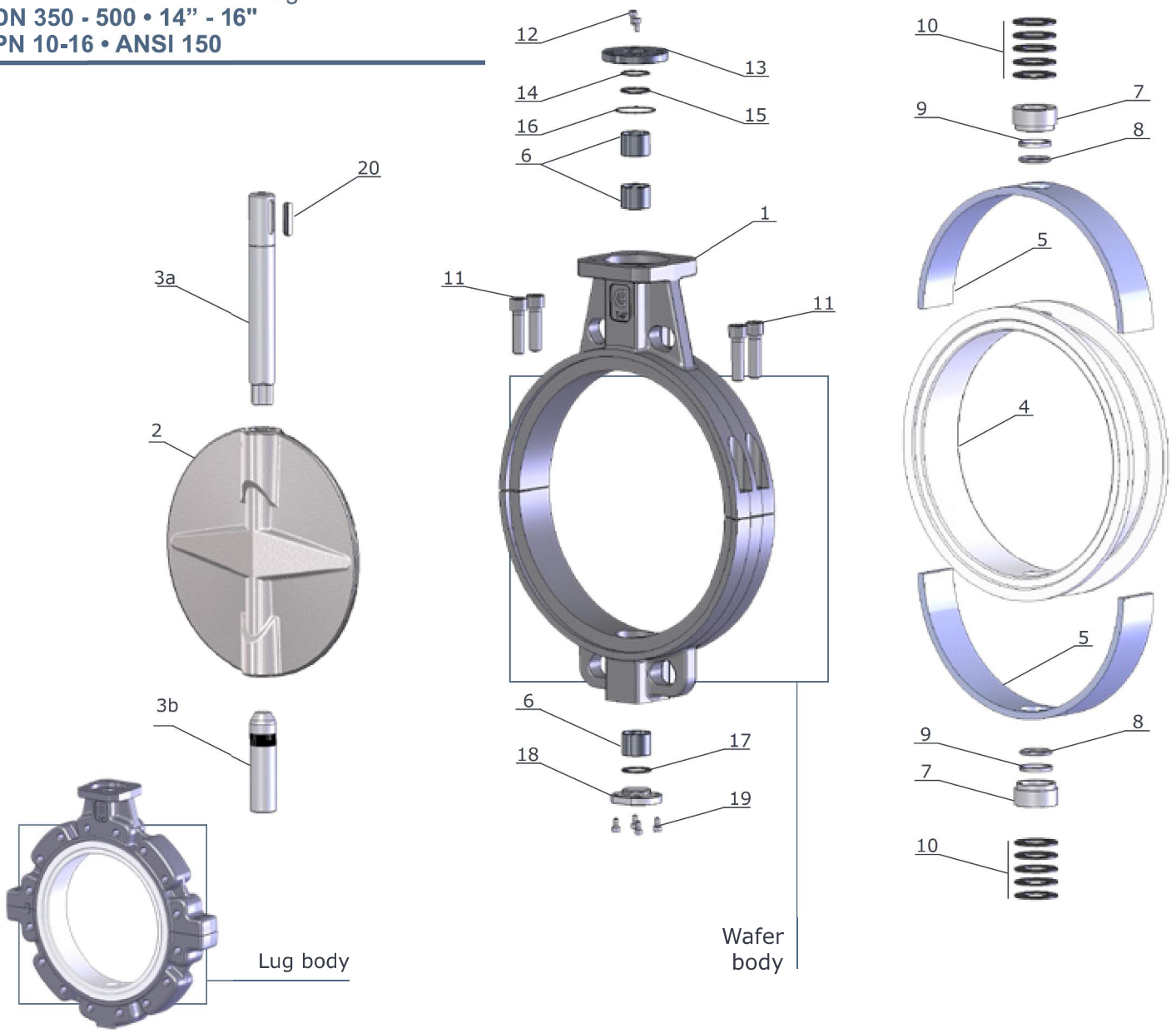
item	q.ty	part	material
1	1	body	• ductile iron GS400 • A216 - WCB • A351 - CF8M (AISI 316)
◇2	1	disc - shafts	• ASTM A564 Type 630 + PTFE
◇3	1	body seat	• PTFE
◇4	1	elastic support	• silicon
5a	1	bush upper shaft	• steel + PTFE
5b *	1	bush lower shaft	• steel + PTFE
6	2	housing	• AISI 316
◇7	1*	O. Ring	• FEP + FKM (VITON®)
◇8	2	C. Ring	• PTFE
9	2	springs set	• steel
10	2	screw	• zinc plated steel • AISI 316 (body AISI 316)

item	q.ty	part	material
11	2	washer	• zinc plated steel • AISI 316 (body AISI 316)
12	2	screw nut	• zinc plated steel • AISI 316 (body AISI 316)
13	4	screw	• zinc plated steel • AISI 316 (body AISI 316)
14	2	upper flange	• IXEF (DN 50/150) • aluminium (DN 200/300)
15	2	stop ring	• steel
◇16	1	upper bush	• PFTE
◇17	1	O.Ring	• FKM (VITON®)
18	1	plug packing	• aluminium • PTFE (body AISI 316)
19	1	threaded plug	• zinc plated steel • AISI 316 (body AISI 316)

** only DN200/300*

◇ parts included in spare kit

BVTT - Wafer **BLTT** - Lug
DN 350 - 500 • 14" - 16"
PN 10-16 • ANSI 150

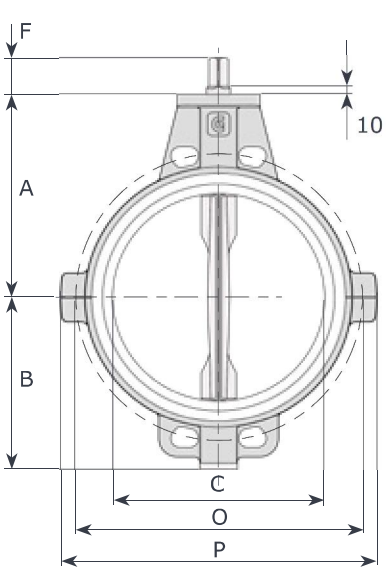


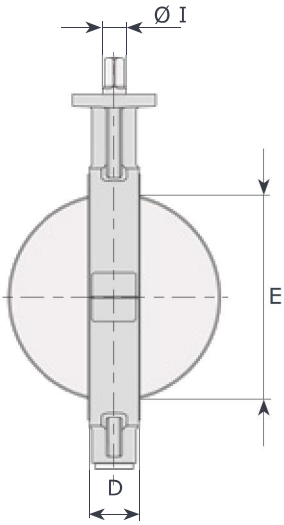
item	q.ty	part	material
1	1	body	• ductile iron GS400 • A216 - WCB • A351 - CF8M (AISI 316)
2	1	disc	• A351 - CF8M (AISI 316) • HALAR® (on request)
3a	1	upper shafts	• AISI 316
3b	1	lower shafts	• AISI 316
◇4	1	body seat	• PTFE
◇5	1	elastic support	• silicon
6	3	bush shaft	• A105 + PTFE
7	2	housing	• AISI 316
◇8	2	O. Ring	• FEP + FKM (VITON®)
◇9	2	C. Ring	• PTFE
10	2	springs set	• steel
11	4	screw	• zinc plated steel • AISI 316 (body AISI 316)

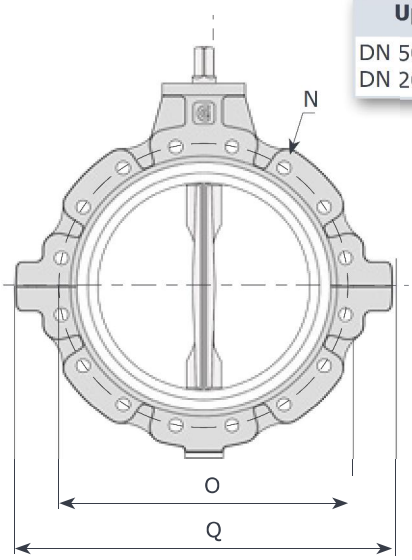
item	q.ty	part	material
12	2	screw	• zinc plated steel • AISI 316 (body AISI 316)
13	1	upper flange	• zinc plated steel • AISI 316 (body AISI 316)
◇14	1	O.Ring	• FKM (VITON®)
15	1	stop ring	• steel
◇16	1	O.Ring	• FKM (VITON®)
◇17	1	O.Ring	• FKM (VITON®)
18	1	lower flange	• zinc plated steel • AISI 316 (body AISI 316)
19	4	screw	• zinc plated steel • AISI 316 (body AISI 316)
20	1	key	• steel C40

◇ *parts included in spare kit*

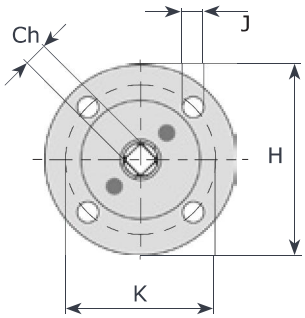
BVTT - Wafer BLTT - Lug





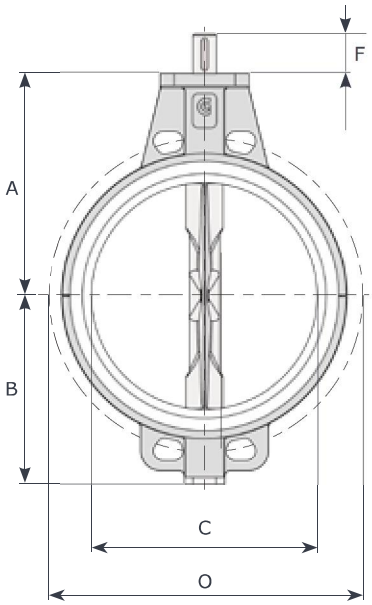


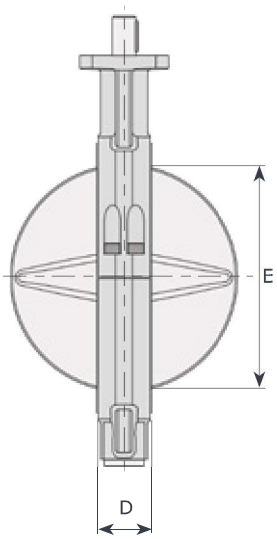
Upper flange - ISO 5211	
DN 50 - 150	F07 - 4 holes
DN 200 - 300	F10 - 4 holes

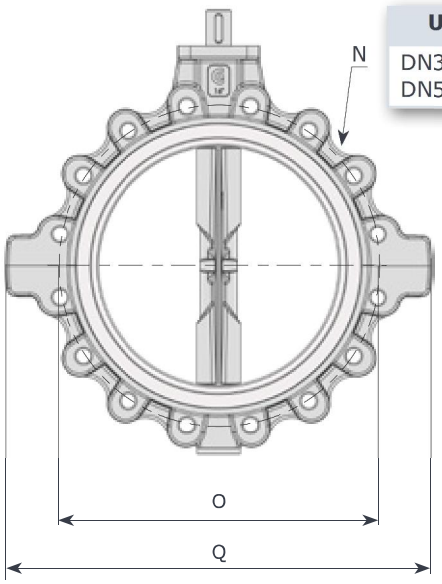


															PN 10			PN 16			ANSI 150			Kg.	
DN	"	A	B	C	D	E	F	Ø I	Ch	H	K	J	P	Q	N	n.	O	N	n.	O	N	n.	O	wafer	lug
50	2	138	81	55	43	35	34	14	11	90	70	9	165	165	M16	4	125	M16	4	125	M16	4	120.6	3.4	3.9
65	2 1/2	144	98	68	46	50	34	14	11	90	70	9	186	186	M16	8	145	M16	8	145	M16	4	139.7	4.1	4.7
80	3	158	110	81	46	67	34	14	11	90	70	9	196	242	M16	8	160	M16	8	160	M16	4	152.4	4.4	7.6
100	4	173	128	101	52	87	34	16	11	90	70	9	220	270	M16	8	180	M16	8	180	M16	8	190.5	6.8	8.4
125	5	186	140	126	56	113	34	18	14	90	70	9	250	297	M16	8	210	M16	8	210	M20	8	215.9	8.8	11.2
150	6	202	155	150	56	140	34	18	14	90	70	9	278	321	M20	8	240	M20	8	240	M20	8	241.3	10.5	12.9
200	8	240	190	200	60	191	38	22	17	125	102	11	355	420	M20	8	295	M20	12	295	M20	8	298.4	15.2	25.0
250	10	270	220	250	68	241	38	30	22	125	102	11	398	472	M20	12	350	M24	12	355	M22	12	361.9	24.5	30.0
300	12	300	247	298	78	289	38	30	22	125	102	11	455	540	M20	12	400	M24	12	410	M22	12	431.8	32.0	45.0

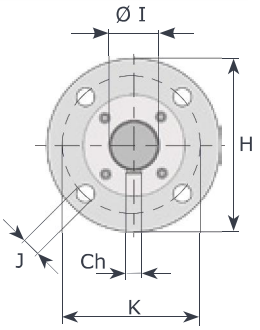
Note: in case of ANSI 150 flanges, threading can be ANSI B1.1 UNC2B







Upper flange - ISO 5211	
DN350-400	F12-4 holes
DN500	F16-4 holes



DN	"	A	B	C	D	E	F	Ø I	Ch	H	K	J	Q	PN10			PN16			ANSI150			kg.	
														N	n.	O	N	n.	O	N	n.	O	wafer	lug
350	14	330	280	341	78	332	60	35	10	150	125	14	600	M20	16	460	M24	16	470	M24	12	476	54	73
400	16	355	305	390	102	376	60	40	12	150	125	14	690	M24	16	515	M27	16	525	M27	16	539	68	104
500	20	422	366	485	127	468	60	45	12	210	165	22	820	M24	20	620	M30	20	650	M27	20	635	149	179