GIBSON valves

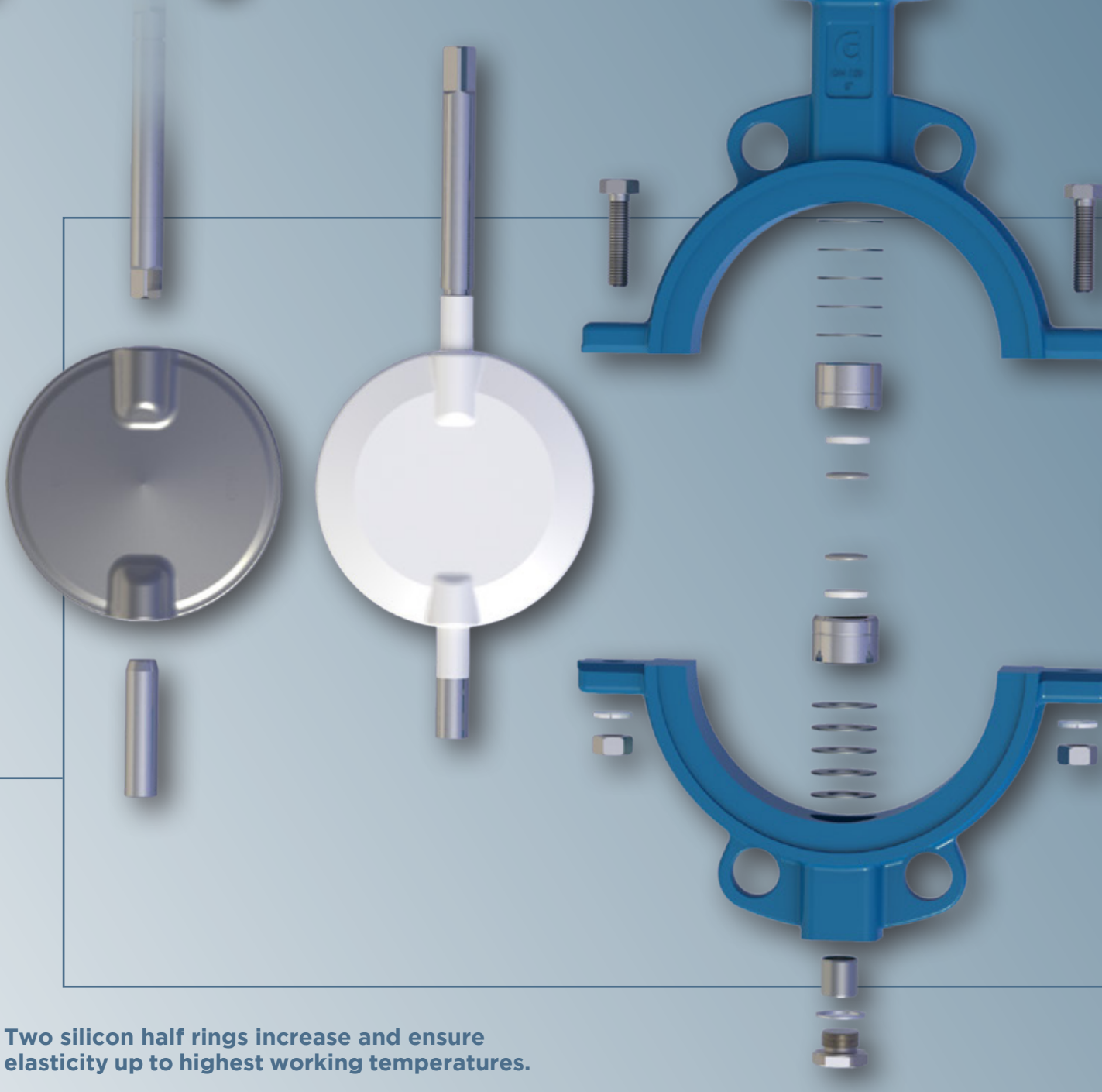
Butterfly valves

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.



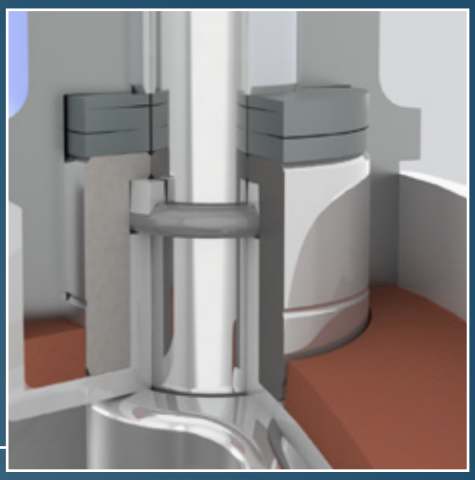
Two silicon half rings increase and ensure elasticity up to highest working temperatures.

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

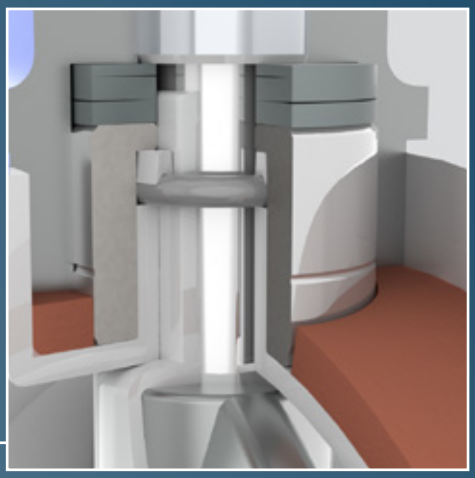
Standard shafts are in AISI316 stainless teel (Monel® or other materials on request).

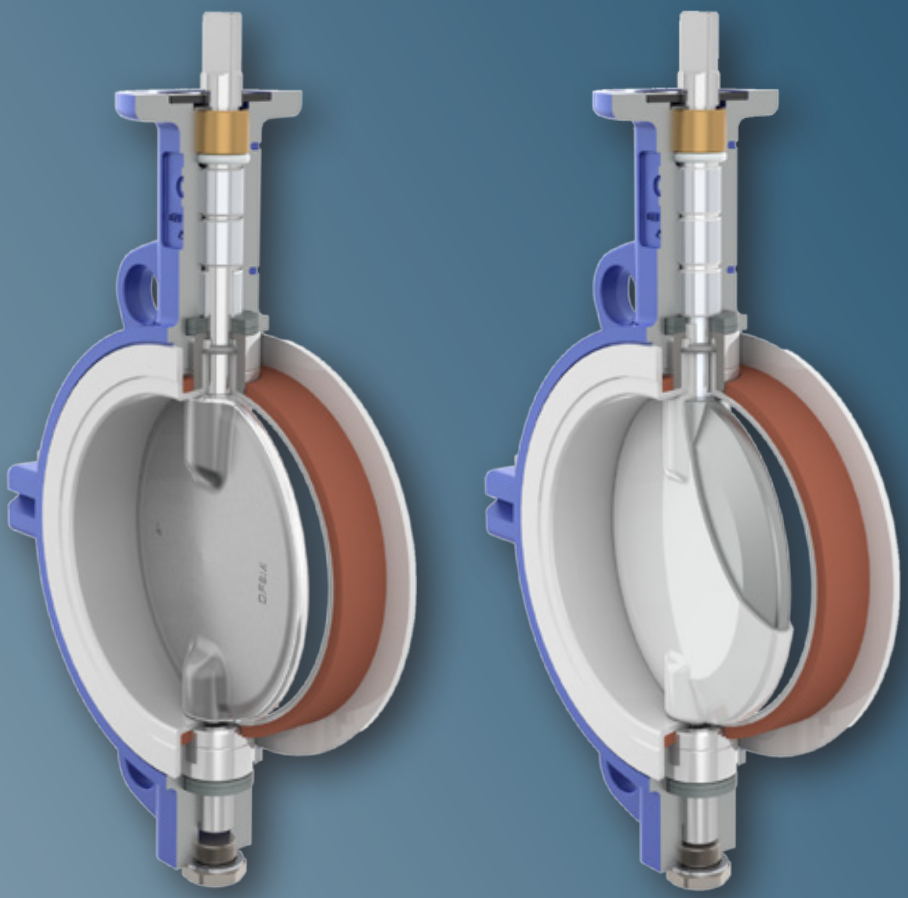
Belleville washers ensure the sealing in the upper plane of the disc.

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.

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

GHIBSON
Zola Predosa
Bologna

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:

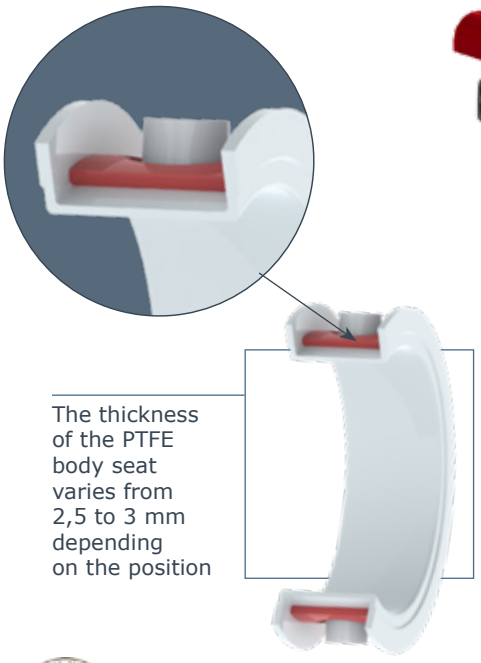
DIN EN 558-1 Series 20 ~ ISO 5752 Series 20
BS-5155 Series 4 ~ MSS-SP67
API 609 cat. A ~ NFE 29305-1

Testing:

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

Tag:

EN 19 ~ MSS SP-25



BUREAU VERITAS TYPE APPROVAL

DNV·GL TYPE APPROVAL

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

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

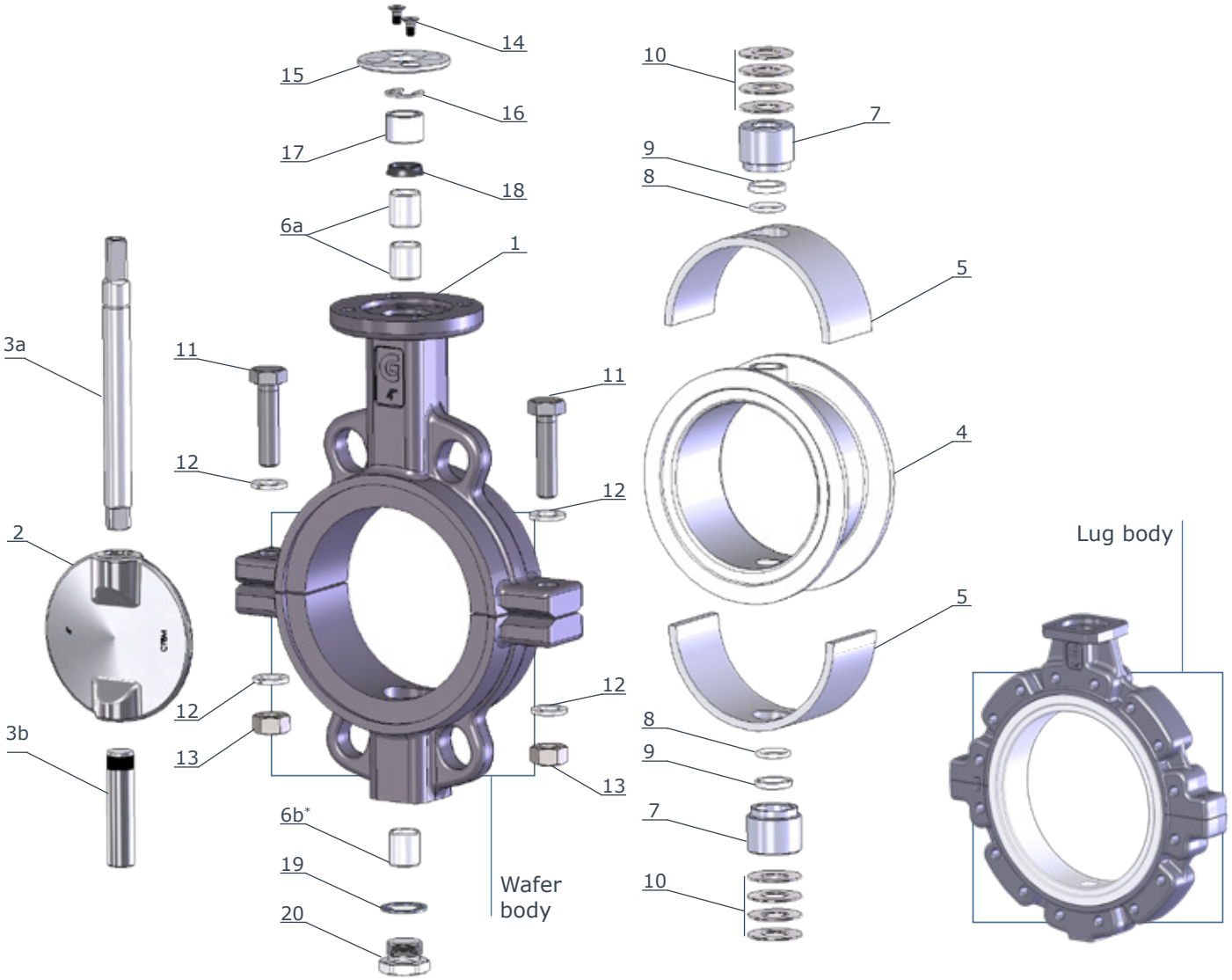
BODY SEAT

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

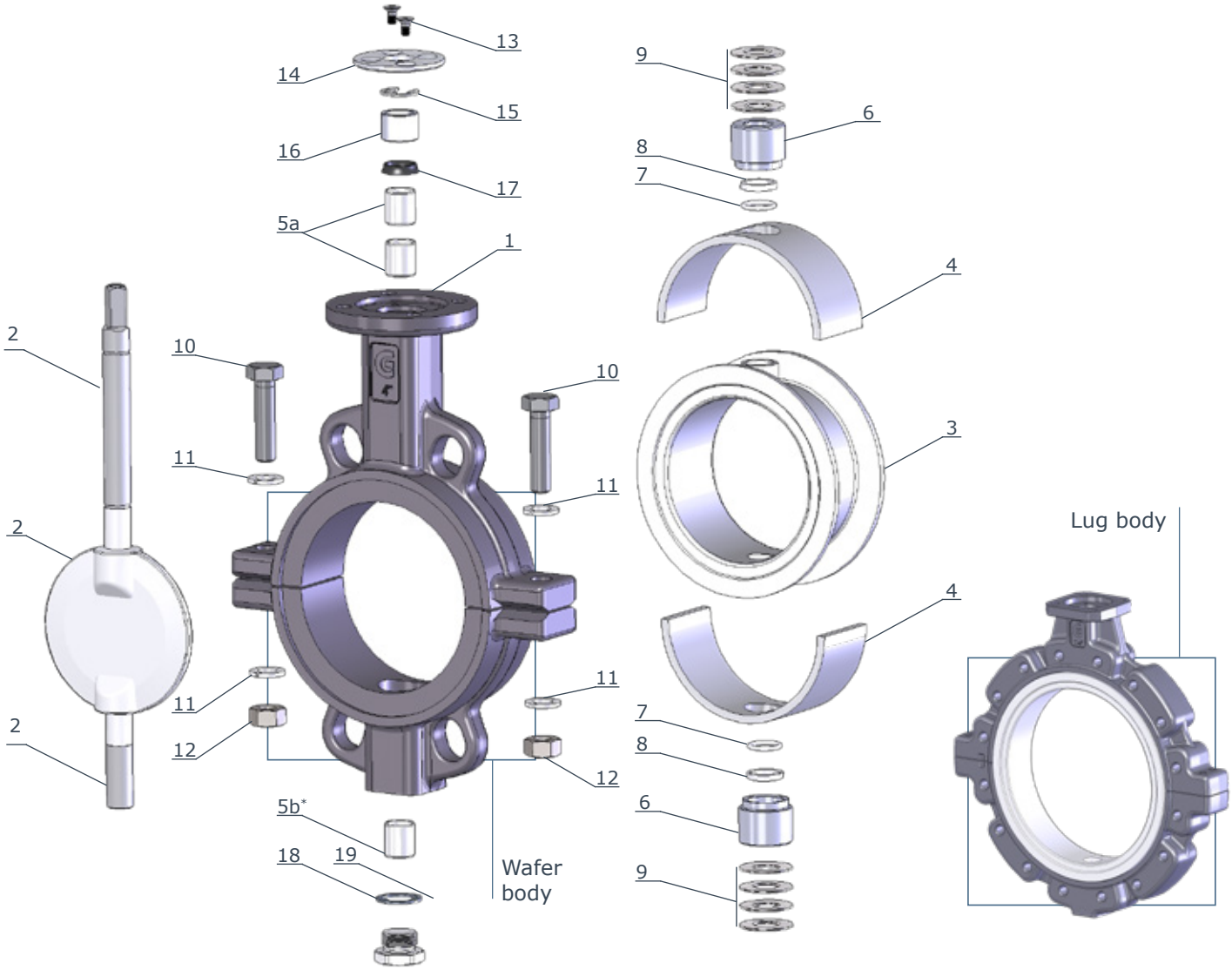
item	q.ty	part	material
11	2	screw	• zinc plated steel • AISI 316 (body AISI 316)
12	4	washer	• zinc plated steel • AISI 316 (body AISI 316)
13	2	screw nut	• zinc plated steel • AISI 316 (body AISI 316)
14	2	screw	• zinc plated steel • AISI 316 (body AISI 316)
15	1	upper flange	• IXEF (DN 50/150) • aluminium (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



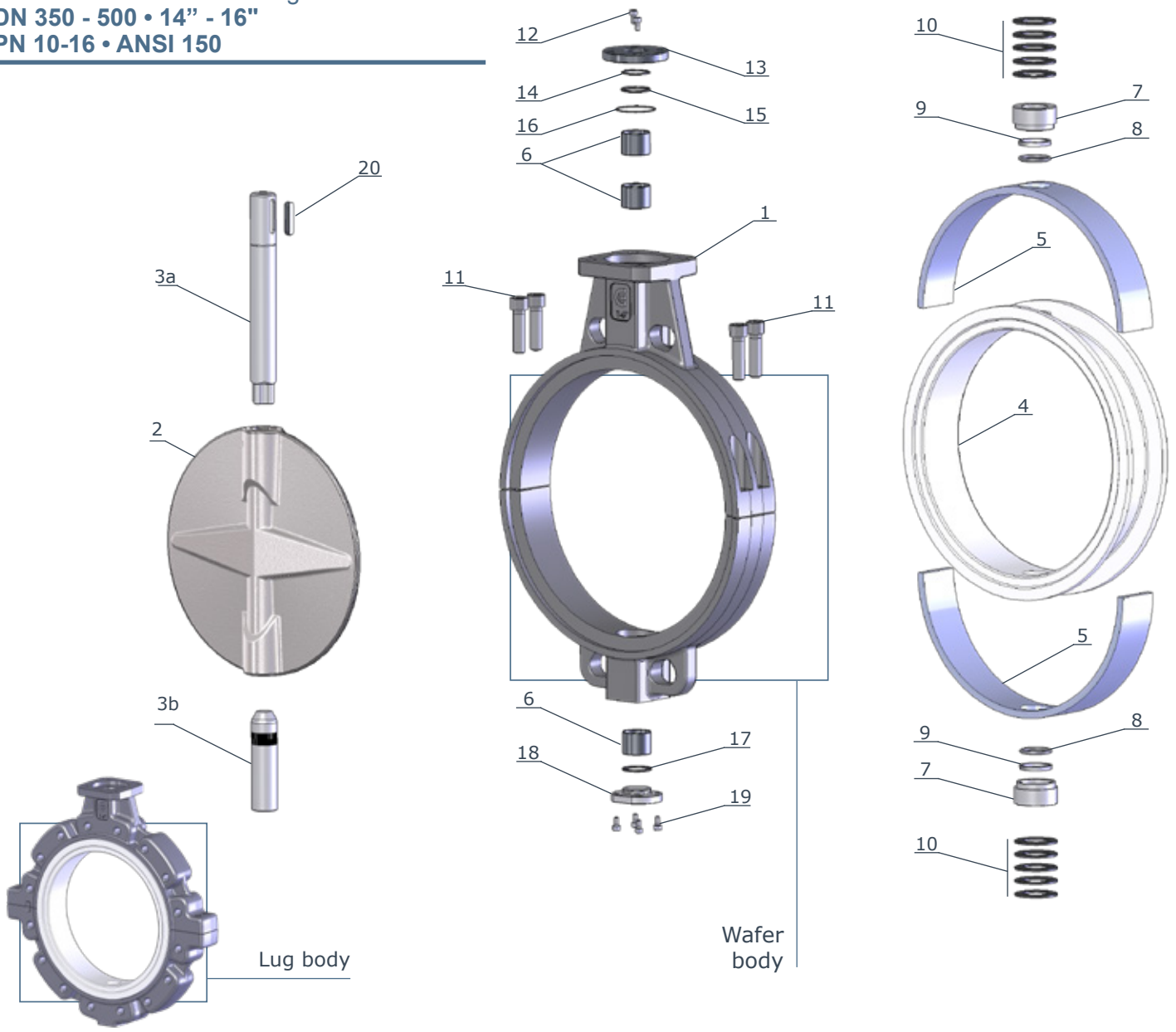
item	q.ty	part	material
1	1	body	• ductile iron GS400 • A216 - WCB • A351 - CF8M (AISI 316)
◇2	1	disc - shafts	• ASTM A564 Type 630 + PTFE
◇3	1	body seat	• PTFE
◇4	1	elastic support	• silicon
5a	1	bush upper shaft	• steel + PTFE
5b *	1	bush lower shaft	• steel + PTFE
6	2	housing	• AISI 316
◇7	1*	O. Ring	• 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

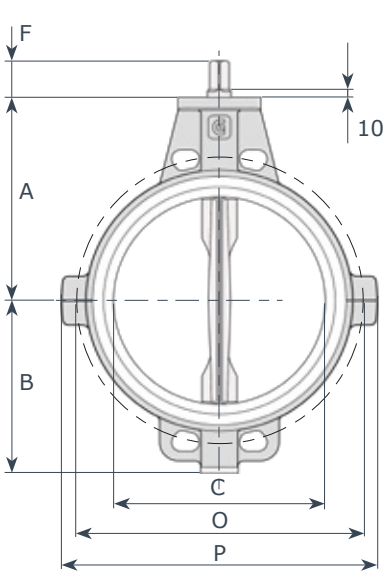


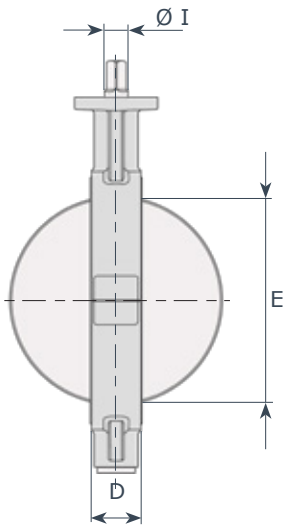
item	q.ty	part	material
1	1	body	• ductile iron GS400 • A216 - WCB • A351 - CF8M (AISI 316)
2	1	disc	• A351 - CF8M (AISI 316) • HALAR® (on request)
3a	1	upper shafts	• AISI 316
3b	1	lower shafts	• AISI 316
◇4	1	body seat	• PTFE
◇5	1	elastic support	• silicon
6	3	bush shaft	• A105 + PTFE
7	2	housing	• 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)

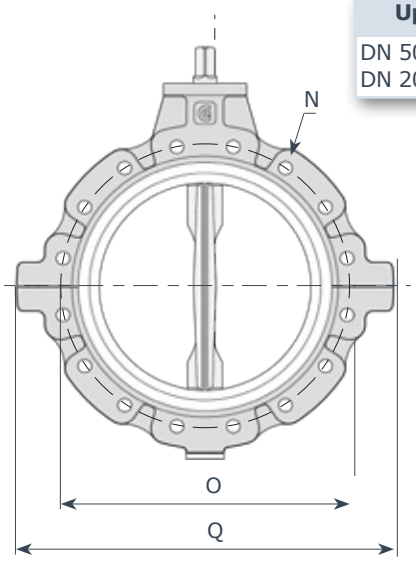
item	q.ty	part	material
12	2	screw	• zinc plated steel • AISI 316 (body AISI 316)
13	1	upper flange	• zinc plated steel • AISI 316 (body AISI 316)
◇14	1	O.Ring	• FKM (VITON®)
15	1	stop ring	• steel
◇16	1	O.Ring	• FKM (VITON®)
◇17	1	O.Ring	• FKM (VITON®)
18	1	lower flange	• zinc plated steel • AISI 316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

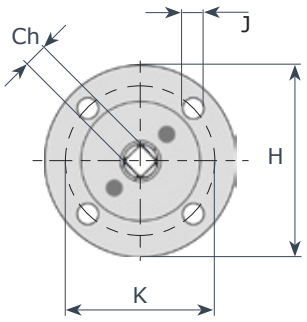
◇ *parts included in spare kit*

BVTT - Wafer **BLTT** - Lug





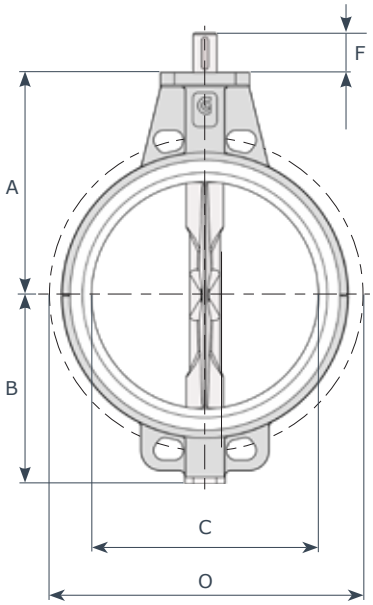


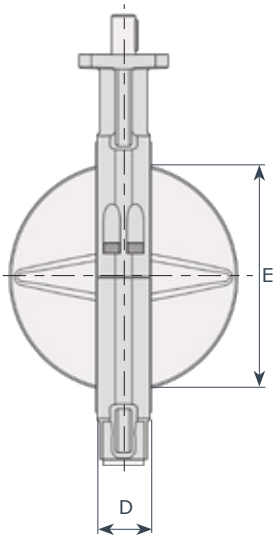


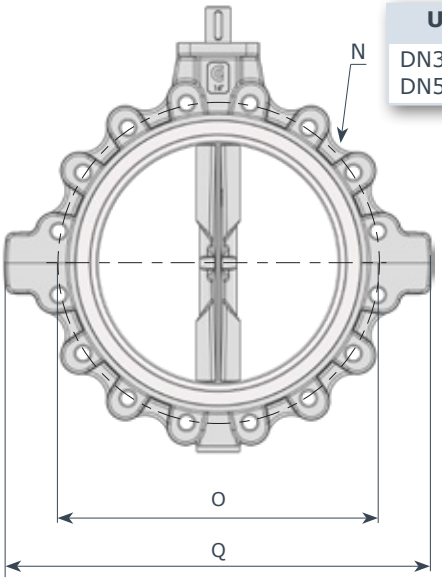
Upper flange - ISO 5211	
DN 50 - 150	F07 - 4 holes
DN 200 - 300	F10 - 4 holes

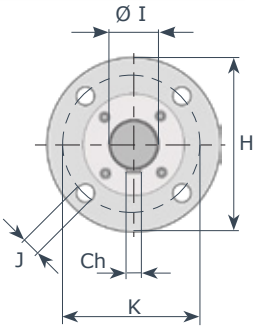
															PN 10			PN 16			ANSI 150			Kg.	
DN	"	A	B	C	D	E	F	Ø I	Ch	H	K	J	P	Q	N	n.	O	N	n.	O	N	n.	O	wafer	lug
50	2	138	81	55	43	35	34	14	11	90	70	9	165	165	M16	4	125	M16	4	125	M16	4	120.6	3.4	3.9
65	2 1/2	144	98	68	46	50	34	14	11	90	70	9	186	186	M16	8	145	M16	8	145	M16	4	139.7	4.1	4.7
80	3	158	110	81	46	67	34	14	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

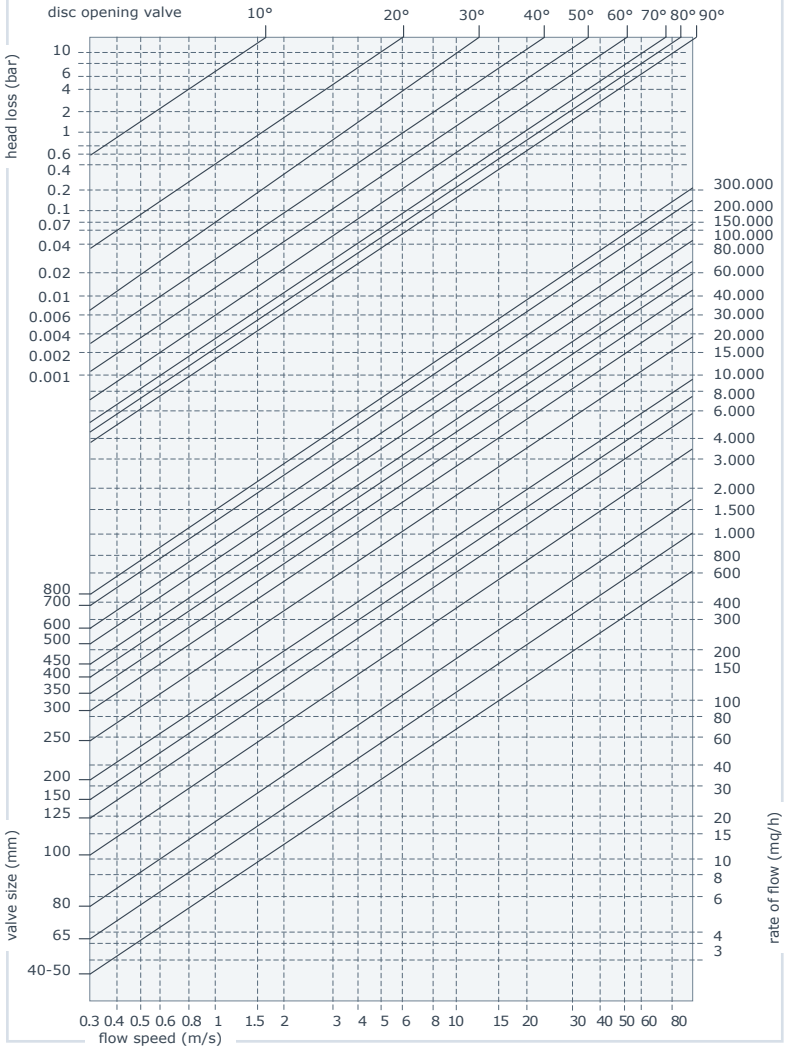
TT Series - Torque values - Nm - safety factor excluded

disc: CF8M (A316) fluid H_2O - 20°C working pressure BAR											
DN	0	6	10	DN	0	6	10	DN	0	6	10
50	13	16	19	125	45	57	75	300	214	296	366
65	15	21	24	150	53	63	94	350	400	450	550
80	28	42	52	200	128	153	188	400	700	800	1000
100	32	54	65	250	190	232	296	500	980	1250	-

disc: A564 (A630) + PTFE fluid H2O - 20°C working pressure BAR											
DN	0	6	10	DN	0	6	10	DN	0	6	10
50	12	15	18	100	30	51	62	200	122	145	180
65	14	20	23	125	42	54	71	250	180	220	280
80	26	40	49	150	50	60	89	300	205	280	350

Notes: values indicated in this page is only for information

Head losses



Formulae for calculation of rate flow

Liquids: $Q = \frac{KV}{\sqrt{\frac{PS}{\Delta P}}}$

- Q rate of flow (m^3/h)
- PS specific gravity (water=1)
- ΔP pressure drop (bar)

Gas: $Q = 28.5 \frac{KV}{\sqrt{\frac{PS}{P_2 \cdot \Delta P}}}$

- Q rate of flow (m^3/h)
- PS specific gravity (air=1)
- ΔP pressure drop (bar) (less than 1/2 inlet pressure)
- P_2 outlet pressure

Steam: $Q = 22.5 \cdot KV \cdot \sqrt{P_2 \cdot \Delta P}$

- Q rate of flow (Kg/h)
- ΔP pressure drop (bar) (less than 1/2 inlet pressure)
- P_2 outlet pressure

Calculation of the rate of flow equivalent to H_2O:

$$Qe = Q \sqrt{\frac{d}{1000}}$$

For different liquid, gas or steam head losses are determined by equivalent water rate of flow, as follows:

- Qe equivalent water flow *(mc/l o l/s)*
- Q fluid flow *(mc/l o l/s)*
- d fluid specific gravity *(Kg/mc)*

Values KV (CV = 1,16 KV)												
angle	40/50	65	80	100	125	150	200	250	300	350	400	500
5°	-	-	-	-	-	-	-	-	-	53	68	106
10°	-	-	-	-	-	-	-	21	49	123	161	246
15°	0,2	0,6	1,8	2,4	4,2	5,6	14	80	188	228	299	457
20°	0,9	2,5	5,2	9,5	15	23	110	156	280	315	412	630
25°	3	6,1	12	22	38	61	125	225	354	457	597	914
30°	6,1	11	21	39	69	112	211	310	381	661	863	1320
35°	9,9	18	33	60	105	166	303	433	521	890	1162	1778
40°	15	27	49	88	148	228	405	591	742	1184	1547	2366
45°	21	38	68	121	199	303	528	774	987	1552	2028	3102
50°	29	51	91	159	262	394	679	988	1252	2008	2620	4010
55°	39	68	119	207	338	505	863	1247	1571	2548	3318	5090
60°	53	90	156	269	434	641	1085	1591	2059	3225	4202	6442
65°	72	121	209	357	565	820	1364	2065	2807	3983	5196	7957
70°	92	161	283	487	768	1097	1788	2715	3744	5195	6775	10377
75°	109	209	381	662	1059	1507	2425	3625	4935	6964	9084	13912
80°	115	240	457	815	1303	1861	3043	4768	6831	9301	12142	18578
85°	115	253	502	906	1457	2008	3642	4890	8230	10280	13408	20533
90°	116	257	508	925	1492	2168	3838	5010	9233	10792	14082	22024

Flanges to be used

EN1092-1
Tipo 11

UNI
2280/81
2282/67

DIN
2631
2632
2633

A150
B16.5
welding neck

EN1092-1
Tipo 01

UNI
2276/77
2278/67

DIN
2575
2576
2577

A150
B16.5
slip on

EN1092-1
Tipo 02/32

UNI
6088/89
6090

DIN
2641
2642
2643

EN1092-1
Tipo 04/34

UNI
2289/90
2291

DIN
2672
2673
2674

EN1092-1
Tipo 02/33

NOTE
only valves with vulcanized seat (KA/KX) are recommended with these flanges

Compatibility flanges - body Wafer

DN	EN 1092-1 / EN 1092-2					ASME/ANSI			BS 10		JIS B2220		
	PN 6	PN 10	PN 16	PN 25	PN 40	class 125	class 150	class 300	tab D	tab E	5K	10K	16K
50	●	✓	✓	✓	✓	✓	✓	✗	●	●	●	✓	✗
65	●	✓	✓	✓	✓	✓	✓	●	●	●	●	✓	●
80	●	✓	✓	✓	✓	✓	✓	✗	●	●	●	●	✓
100	●	✓	✓	✗	✗	✓	✓	✗	●	✗	●	●	✓
125	●	✓	✓	✗	✗	✓	✓	✗	✓	✓	●	●	✓
150	●	✓	✓	●	●	✓	✓	✗	●	●	●	✓	✗
200	●	✓	✓	✗	✗	✓	✓	✗	✓	✓	●	●	✓
250	●	✓	✓	●	●	✓	✓	✗	✗	✓	✓	✓	●
300	●	✓	✓	✗	✗	✓	✓	✗	✓	✓	●	●	✗
350	●	✓	✓	✗	✗	✓	✓	✗	✓	✓	✗	✗	●
400	✗	✓	✓	✗	✗	✓	✓	✗	✗	✗	✗	●	●
500	✗	✓	✓	●	●	✓	✓	✗	✗	✗	✗	✓	●

✓ standard ● on request
✗ not possible

Compatibility flanges - body Lug

DN	EN 1092-1 / EN 1092-2					ASME/ANSI			BS 10		JIS B2220		
	PN 6	PN 10	PN 16	PN 25	PN 40	class 125	class 150	class 300	tab D	tab E	5K	10K	16K
50	●	✓	✓	✓	✓	✓	✓	✗	●	●	●	●	✗
65	●	✓	✓	✓	✓	✓	✓	✗	●	●	●	✓	●
80	●	✓	✓	✓	✓	✓	✓	✗	●	●	●	●	●
100	✗	✓	✓	●	●	✓	✓	✗	✗	●	●	●	●
125	●	✓	✓	●	●	✓	✓	✗	✓	✓	●	●	●
150	●	✓	✓	●	●	✓	✓	✗	●	●	●	✓	✗
200	●	✓	✓	✗	✗	✓	✓	✗	□	✓	●	●	●
250	●	✓	✓	●	✗	✓	✓	✗	✗	✓	●	●	✗
300	●	✓	✓	✗	✗	✓	✓	✗	✓	✓	●	✗	✗
350	●	✓	✓	✗	✗	✓	✓	✗	✓	✓	●	●	●
400	●	✓	✓	●	✓	✓	✓	✗	✗	✗	●	●	●
500	●	✓	✓	●	✓	✓	✓	✗	✗	✗	●	●	●

✓ standard ● on request
✗ not possible

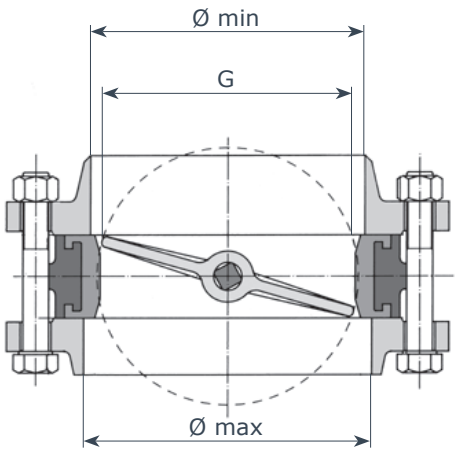
Bolts and rods dimensions

DN	Wafer valves								
	PN 10			PN 16			ANSI 150		
	Bolts	Rods	N°	Bolts	Rods	N°	Bolts	Rods	N°
40	M16x90	M16x100	4	M16x90	M16x100	4	M14x90	M14x110	4
50	M16x100	M16x120	4	M16x100	M16x120	4	M16x100	M16x130	4
65	M16x110	M16x130	8	M16x110	M16x130	8	M16x110	M16x140	4
80	M16x110	M16x130	8	M16x110	M16x130	8	M16x120	M16x150	4
100	M16x120	M16x140	8	M16x120	M16x140	8	M16x120	M16x150	8
125	M16x120	M16x150	8	M16x120	M16x150	8	M20x130	M20x160	8
150	M20x130	M20x160	8	M20x130	M20x160	8	M20x140	M20x160	8
200	M20x140	M20x170	8	M20x140	M20x170	12	M20x150	M20x170	8
250	M20x150	M20x180	12	M24x150	M24x180	12	M22x160	M22x190	12
300	M20x160	M20x190	12	M24x160	M24x190	12	M22x170	M22x210	12
350	M20x160	M20x190	16	M24x170	M24x200	16	M24x180	M24x220	12
400	M24x190	M24x220	16	M27x210	M27x240	16	M27x210	M27x250	16
450	M24x200	M24x230	20	M27x220	M27x250	20	M27x230	M27x270	16
500	M24x210	M24x240	20	M30x240	M30x280	20	M27x250	M27x290	20

DN	Lug valves					
	PN 10		PN 16		ANSI 150	
	Bolts	N°	Bolts	N°	Bolts	N°
40	M16x30	8	M16x30	8	M14x30	8
50	M16x35	8	M16x35	8	M16x35	8
65	M16x40	16	M16x40	16	M16x40	8
80	M16x40	16	M16x40	16	M16x40	8
100	M16x40	16	M16x40	16	M16x45	16
125	M16x45	16	M16x45	16	M20x50	16
150	M20x45	16	M20x45	16	M20x50	16
200	M20x50	16	M20x50	24	M20x55	16
250	M20x55	24	M24x55	24	M22x60	24
300	M20x60	24	M24x60	24	M22x60	24
350	M20x60	32	M24x65	32	M24x65	24
400	M24x70	32	M27x70	32	M27x80	32
450	M24x80	40	M27x80	40	M27x80	32
500	M24x80	40	M30x80	40	M27x90	40

NOTE 1: Screw and rod dimensions have been calculated with WELDING NECK flanges PN 6/10/16 (EN1092-1 Tipe 11) ANSI150 (ANSI B16.5)

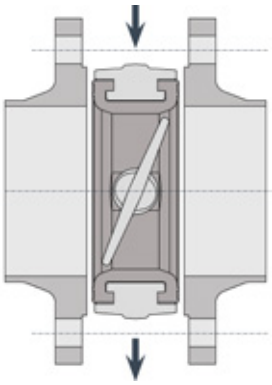
NOTE 2: Number of nMTS should be double when WAFER valves are assembled with threaded rods.



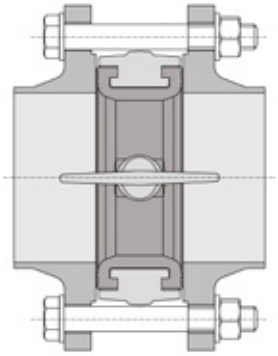
DN	40	50	65	80	100	125	150	200	250	DN	300	350	400	450	500	600	700	800
G	36	35	50	67	87	113	140	191	241	5°	289	332	376	430	479	575	670	757
Ø min	29	44	60	75	98	122	148	196	244	10°	296	332	378	428	478	566	681	782
Ø max	49	62	80	93	118	146	175	225	275	15°	330	372	422	450	500	600	717	815

Installation

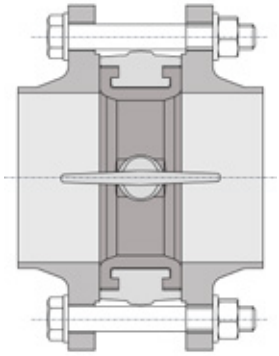
Assembly



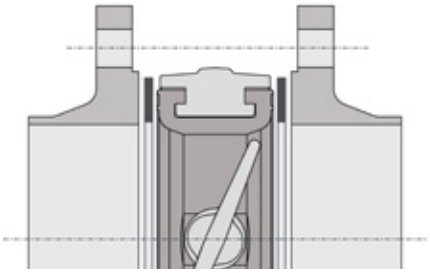
1 - Leave a space between flanges so that valve can be easily inserted and removed.



2 - Open completely the valve before tightening flanges.



3 - Tighten bolts till flanges are in contact with valve body.

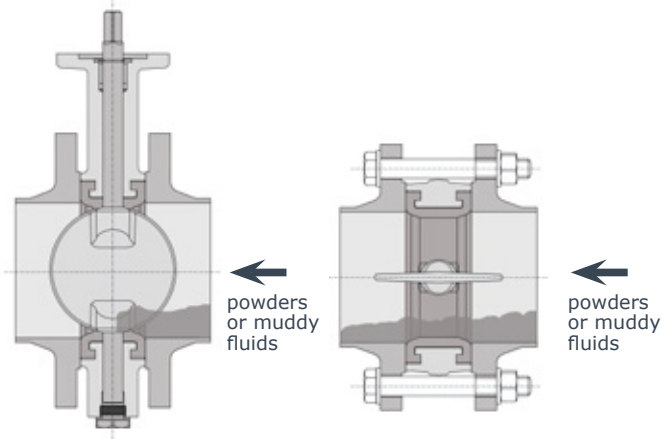


4 - NOTE: do not insert other packing between flange and valve.

NOTE: Weld the pipe only in spots with the valve between flanges.
Remove the valve before finishing welding to avoid that heat damage the seat.
Clean carefully the welding to avoid that slags damage the seat.

Installation for powders and muddy fluids

In case of use with powders or muddy fluids, install the valve with horizontal rotation axis, to allow sediments to flow easily on opening.



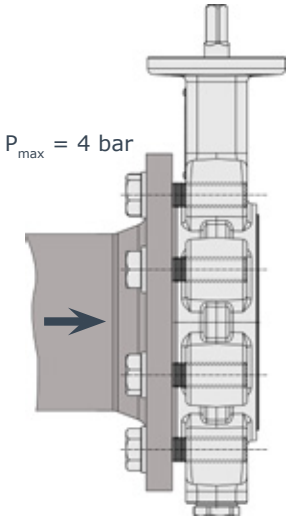
Wrong
Vertical rotation axis

Right
Horizontal rotation axis

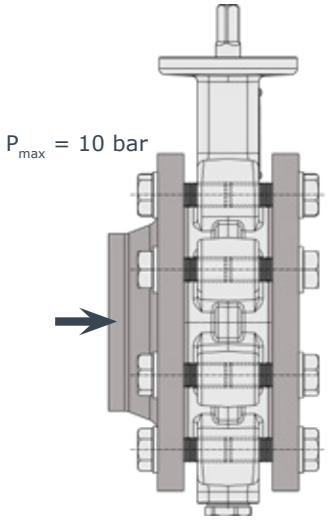
This type of installation is always advisable with valve diameters over DN 400.

End piping installation

When valves are installed end of piping, a counterflange as per dwg type B is needed to secure tightness at max pressure.

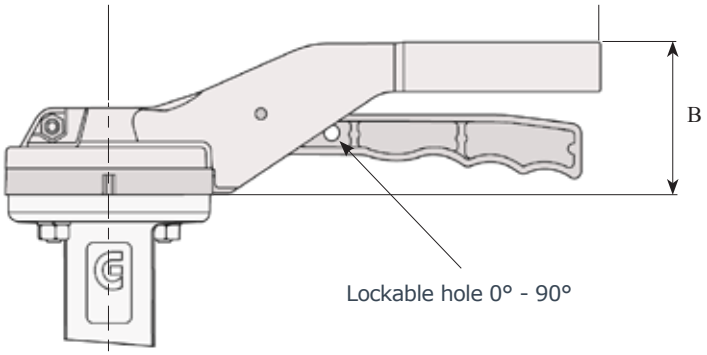


Type A installation with MT end piping



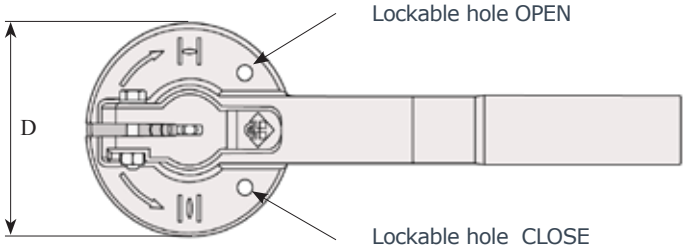
Type B installation with end piping

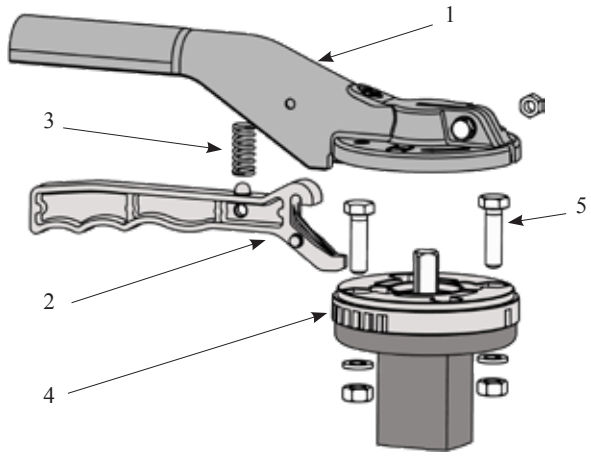
Handlevers



DN	A	B	D	Kg	
				aluminium	st. steel
40 - 100	220	67	93	0.60	1.80
125 - 150	275	67	93	0.65	2.05
200 - 300	340	76	125	1	-

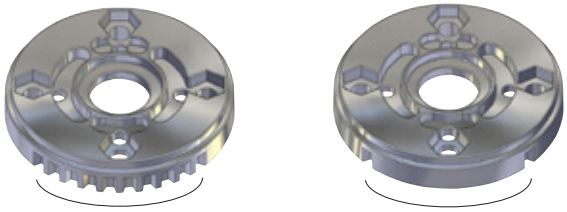
Note: DN 250 - 300 handlever not recommended





		DN40 - 300	DN40 - 150
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

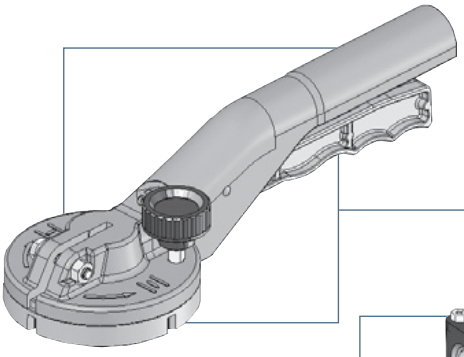
positioning disc DN 40 - 150 designed for flanges ISO 5211 F05/F07



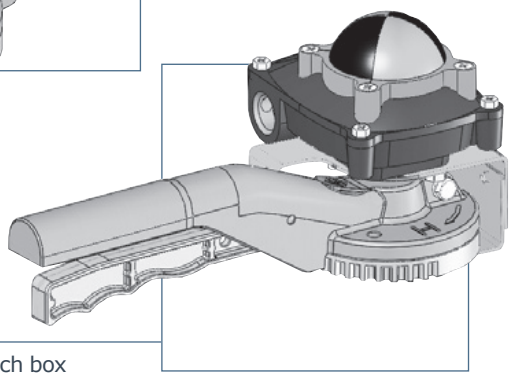
10 positions Open - Closed

positioning disc with two types of regulation: 10 positions or Open/Close

OPTIONALS

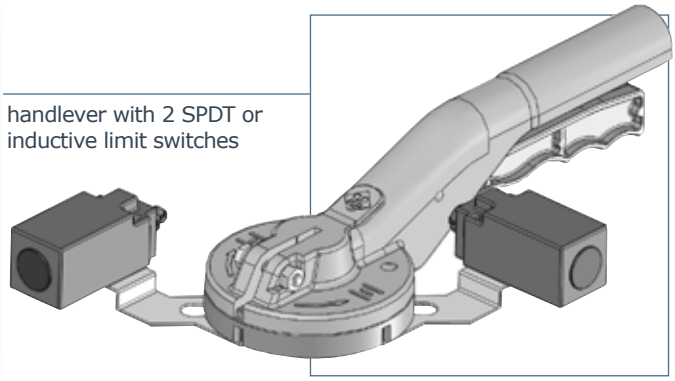


Adjustable handlever



handlever with switch box (only DN 40/300)

handlever with 2 SPDT or inductive limit switches

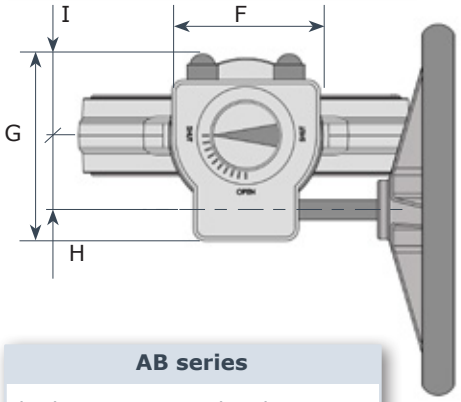


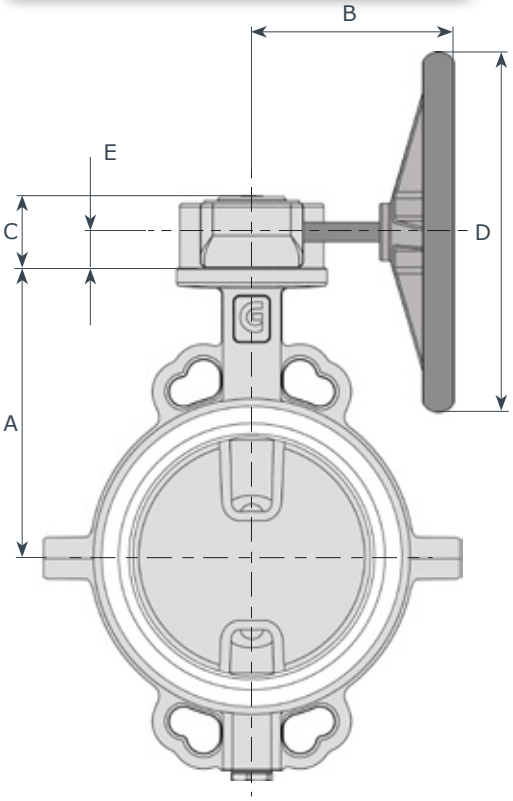
Gearboxes - Aluminium body - HW Series - Cast Iron body - AB Series

HW series

body:	aluminium
worm gears:	steel
sector gear:	ductile iron
shalt:	stainless steel
handwheel:	steel
protection:	IP65
T:	-20 / +120 °C

low/high temperature execution on request





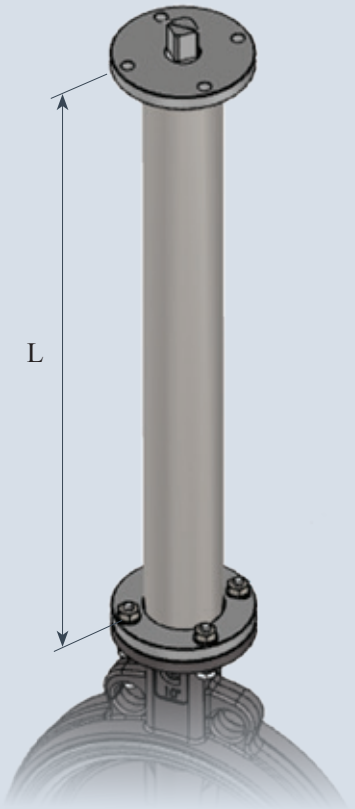
AB series

body:	ductile iron
worm gears:	steel
sector gear:	ductile iron
shaft:	steel
handwheel:	steel
protection:	IP67
T:	-20 / +120 °C

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).

"L" measure shoul be indicated when ordering.



Our tecnical department is available to solve special applications.

Dimensions

Mod. HW	B	C	D	E	F	G	H	Kg
HW 070	160	48	140	27	80	115	42	1.6
HW 102	215	56	250	33	120	150	60	3
HW 140	325	95	400*	51	185	225	80	10
HW 165	395	105	600	61	230	268	105	20

* for DN350: D=350

Mod. AB	B	C	D	E	F	G	H	I	Kg
AB150	157.5	55	125	27	80	124	43	58	2.2
AB215	217	63	200	29	102	128	52	48	3.5
AB550	282	88	300	41	138	174	71	69	8.5
AB880	282	93	400	42	200	226	86	100	14
AB1250	322	102	500	48	220	258	105	110	22
AB1950	425	126	600	55	285	323	130	143	32
AB195-PR4	398	126	600	55	285	323	130	143	39
AB680-PR4	451	159	600	59	370	407	182	170	62.5
AB680-PR6	451	159	600	59	370	407	182	170	64.2

Coupling valve - actuators

DN	"	mod. HW 10 bar	mod. AB 10 bar	A
50	2	HW070	AB150	138
65	$2^{1/2}$	HW070	AB150	144
80	3	HW070	AB150	158
100	4	HW070	AB150	173
125	5	HW070	AB150	186
150	6	HW070	AB150	202

DN	"	mod. HW 10 bar	mod. AB 10 bar	A
200	8	HW102	AB215	240
250	10	HW102	AB550	270
300	12	HW102	AB550	300
350	14	HW140	AB880	330
400	16	HW140	AB880	355
500	20	HW165	AB880	422

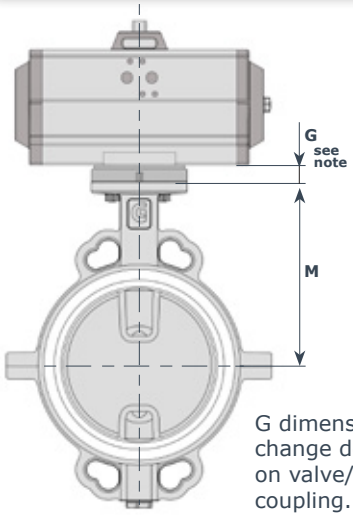
Pneumatic actuators: double effect / spring return

Rack & Pinion Actuators MT/MTS SERIES

Max air pressure:	10 bar
Temperature:	-20°C / +80°C
Torque range:	31/3564 Nm
Double travel stop open/close:	±10°

Scotch Yoke Actuators CHD Series

Max air pressure:	6 bar
Temperature:	-20 / +80°C
Torque Range:	1200/305000 Nmt
Double travel stop open/close:	±6°



G dimension can change depending on valve/actuator coupling.

Valve seat: PTFE - Fluid: H20 - T: 20° C air: 5,5 Bar

DN	M	PN 6				PN 10			
		DA		SR		DA		SR	
		mod.	G	mod.	G	mod.	G	mod.	G
50	138	MT 15	16	MTS 20	16	MT 15	16	MTS 20	16
65	144	MT 15	16	MTS 20	16	MT 15	16	MTS 25	16
80	158	MT 20	16	MTS 30	16	MT 25	16	MTS 35	16
100	173	MT 25	16	MTS 35	16	MT 25	16	MTS 35	16
125	186	MT 25	16	MTS 35	16	MT 30	16	MTS 40	16
150	202	MT 25	16	MTS 35	16	MT 35	16	MTS 45	16
200	240	MT 40	14	MTS 50	14	MT 45	14	MTS 50	14
250	270	MT 45	14	MTS 55	14	MT 50	14	MTS 60	50
300	300	MT 50	14	MTS 60	14	MT 50	14	MTS 60	50
350	330	MT 55	100	MTS 65	100	MT 60	100	MTS 70	100
400	355	MT 60	100	MTS 70	100	MT 65	100	MTS 70	100
500	422	MT 70	100	MTS 75	100	-	-	-	-

Valve seat: PTFE - Fluid: H20 - T: 20° C air: 4-5 Bar

DN	M	PN 6				PN 10			
		DA		SR		DA		SR	
		mod.	G	mod.	G	mod.	G	mod.	G
50	138	MT 15	16	MTS4 20	16	MT 17	16	MTS4 25	16
65	144	MT 17	16	MTS4 25	16	MT 20	16	MTS4 30	16
80	158	MT 25	16	MTS4 35	16	MT 30	16	MTS4 40	16
100	173	MT 30	16	MTS4 40	16	MT 35	16	MTS4 45	16
125	186	MT 30	16	MTS4 40	16	MT 35	16	MTS4 45	16
150	202	MT 30	16	MTS4 45	16	MT 35	16	MTS4 45	16
200	240	MT 45	14	MTS4 55	14	MT 45	14	MTS4 55	14
250	270	MT 50	14	MTS4 60	50	MT 55	14	MTS4 65	50
300	300	MT 55	14	MTS4 65	50	MT 55	14	MTS4 65	50
350	330	MT 60	100	MTS4 70	100	MT 60	100	MTS4 70	100
400	355	MT 70	100	MTS4 75	100	MT 70	100	CHD16-030A01	200
500	422	MT 70	100	CHD16-035A01	0	-	-	-	-

Declutchable manual gearboxes

GD Series

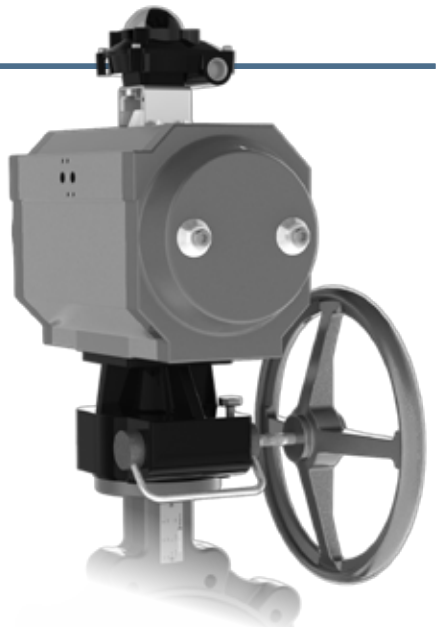
body:	aluminium	shaft:	stainless steel
worm gears:	steel	handwheel:	steel
sector gear:	ductile iron	protection:	IP65
		T:	-20 / +120 °C

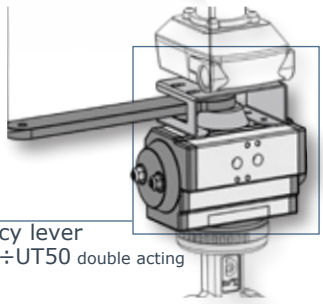
Ø valve	DA actuator double action	SR actuator spring return	emergency gearbox type
DN 40÷150	MT 20÷45	MTS 20÷35	**GD070**
DN 40÷300	MT 35÷55	MTS 35÷50	**GD102**
DN 200÷400	MT 50÷65	MTS 55÷65	**GD140**
DN 450÷500	MT 60	MTS 70÷75	**GD165**

ILGD Series

body:	ductile iron GGG40	shaft:	steel
worm gears:	steel	handwheel:	steel
sector gear:	ductile iron	protection:	IP65 (on req.)
		T:	-20 / +120 °C

Ø valve	DA actuator double action	SR actuator spring return	emergency gearbox type
DN 40÷150	MT 15÷45	MTS 15÷35	**ILGD 200**
DN 40÷300	MT 35÷55	MTS 35÷55	**ILGD 600**
DN 200÷400	MT 50÷65	MTS 50÷65	**ILGD 900**
DN 350÷500	MT 60÷70	MTS 60÷70	**ILGD 1500**
DN 450÷500	MT 75	MTS 70÷75	**ILGD 2400**





Emergency lever
only UT10÷UT50 double acting

MORE THAN 35 YEARS OF HIGH QUALITY EXPERIENCE

Ghibson Italia can now boast of more than 35 years of experience in manufacturing of industrial valves.
In these 30 years we have designed and manufactured in our facilities in Italy butterfly valves and check valves, for the most different industrial applications.

We export our products all over the world always providing our customers with the best assistance during all the phases: design, installation, maintenance.

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Steam service - Steam Turbine
Saltwater Service - District heating & cooling
Hot Air & Smokes
Chemicals storage & trasportation
Food & Beverage processes

DEPARTMENTS

- **RESEARCH & DEVELOPMENT**
- **DESIGN**
- **CUSTOMIZATION**
- **PRODUCTION & LOGISTIC**
- **SALES & MARKETING**
- **QUALITY CONTROL**
- **CERTIFICATIONS**
- **PACKING AND SHIPPING**
- **AFTER SALES SUPPORT**

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Very large choice of materials including valves of every alloy of carbon or stainless steel, bronze, aluminium, as well as with PTFE or Polypropylene.

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We can offer a total assistance:

- before selling we can start from dimensioning the valves and actuators, make selection of materials for all parts upon knowing the specification, prepare all types of drawings etc.
- after selling we make final documentation, provide installation supervision, undertake commissioning etc.

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PTFE Seated
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[PTFE 10/18 EN]