

OMEAX

Specialist in industrial valves

Centric butterfly valve

Mercure



Presentation



Advantages

Technical performance: Thanks to the through monobloc shaft and hexagonal coupling transmission, the operating torque is reduced. The circlip eliminates the risk of leakage, promoting planned preventive maintenance rather than unexpected and costly replacement interventions.

Optimal sealing: Ensured by the spherical machining of the butterfly, the specific dovetail design of the sleeve, and secondary sealing guaranteed by an O-ring.

Complete range: Suitable for both drinking water and industrial applications, thanks to a wide range of materials.

Repairability: All parts, including the liners, disc, and shaft, can be easily replaced.

Corrosion protection: Full epoxy coating of 120 µm, with additional thickness available upon request.

Actuation: Upper connection plate compliant with ISO 5211 standard.

Compatible with various types of actuators thanks to the mounting flange.

Specifications

Design and technical data

DN mm	DN25 - DN2400
DN inch	1"-96"
Temperature	Standard up to 50°C. Other options depending on material selection.
Type of connection	Wafer or lug
Pressure range	PN10 to PN16
Standard	EN 558 serie 20
Standard design	EN593
Test standard	EN12266-1: Resistance and sealing of the body: test P11 (1.5 x maximum allowable pressure) Seat sealing: test P12 rate A (1.1 x maximum allowable pressure)
Application	1. Water treatment, 2. Transfer pipelines, 3. Desalination, 4. Distribution network, 5. Industrial water networks, 6. Irrigation.

Dimensions

Type of connection:



Wafer

Only allows in-line mounting.
No possibility of dismantling
with full differential pressure.
No deadline installation.



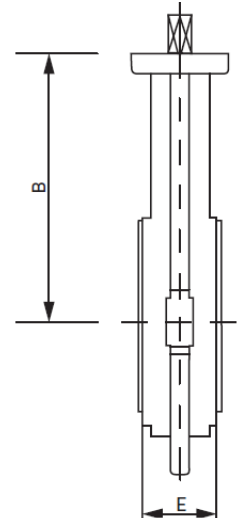
Lug

Allows deadline installation
without the need to drain
the pipeline.



Flanged

Allows deadline installation
without the need to drain the
pipeline.



DN	E mm	B mm	Weight max* kg			Lug							Wafer							Flanged			
			Wafer	Lug	Flanged	EN1092 -PN6	EN1092 -PN10	EN1092 -PN16	ANSI-150	BS Table D	BS Table E	JIS 5K	JIS 10K	EN1092 -PN6	EN1092 -PN10	EN1092 -PN16	ANSI-150	BS Table D	BS Table E	JIS 5K	JIS 10K	EN1092 -PN10	EN1092 -PN16
32	33	125	1,2	1,75		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
40	33	125	1,52	1,84		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
50	43	140	2,14	2,5		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
65	46	156	2,98	3,62		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
80	46	161	3,2	5,39		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
100	52	181	4,49	7,73		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
125	56	195	7,6	9,96		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
150	56	210	8,8	10,97		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
200	60	237	12,5	17,88		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
250	68	262	20,34	27,2	30	x	x	x	x	x	x	x	x		x	x	x	x	x		x	x	x
300	78	300	31,1	39,1	40	x	x	x	x	x	x				x	x	x	x	x		x	x	x
350	78	340	45		50										x	x	x				x	x	x
400	102	360	65		71										x	x	x				x	x	x
450	114	390	95		110										x	x	x				x	x	x
500	127	420	125		150										x	x	x				x	x	x
600	154	495	185		225										x	x	x				x	x	x
700	165	575	300		370										x	x	x				x	x	x
800	190	620			510																x	x	x
900	203	690			650																x	x	x
1000	216	750			835																x	x	x
1100	216	795			900																x	x	x
1200	254	865			1070																x	x	x
1400	279	980			1280																x	x	x
1600	318	1090			2100																x	x	x
1800	356	1290			-																x	x	

Same product - * The maximum weight of the valve with a bare shaft, without actuator, may be lighter depending on the PN drilling of the flanges.

Description

Numerous combinations for various applications

Actuators

- Manuals :
 - Handle
 - Gearbox
- Pneumatic:
 - Double acting
 - Double acting with emergency handwheel
 - Single acting
 - Single acting with emergency handwheel
- Electric actuators:
 - Quarter turn
 - Multiturn gearbox
- Actuation options:
 - Chain wheel
 - Extension
 - Position indicator
 - Limit switch box
 - Positioner
 - Solenoid valve



EOT



EOM



EMT



EMD

Operating shaft

- AISI 420
- AISI 316
- AISI 316L
- Duplex



Butterfly

- GJS 400-15 + epoxy
- GJS 400-15 + Halar® coating
- CF 8M (AISI 316)
- CF 8M (AISI 316) polished
- CF 3M (AISI 316 L)
- Duplex ASTM A 890 Gr 5A / 6A
- Others available upon request.



Sleeve

- EPDM
- EPDM (high temperature)
- NBR
- NBR carboxylic
- FPM (VITON®)
- Silicon steam

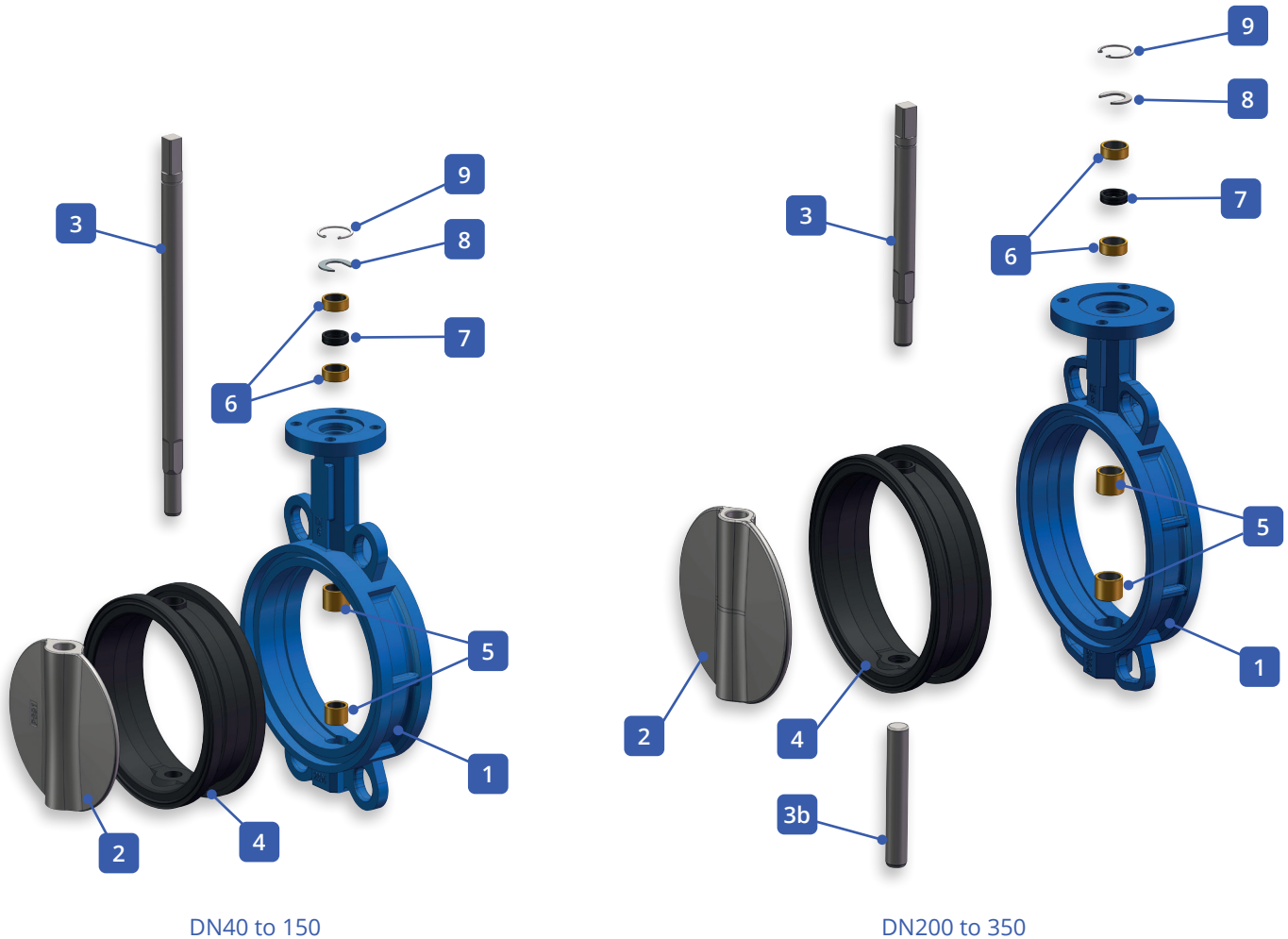
Body/Connection

- EN 1092 PN6/10/16
- ANSI-150
- BS Table E/D
- JIS 5K/10K



Partlist

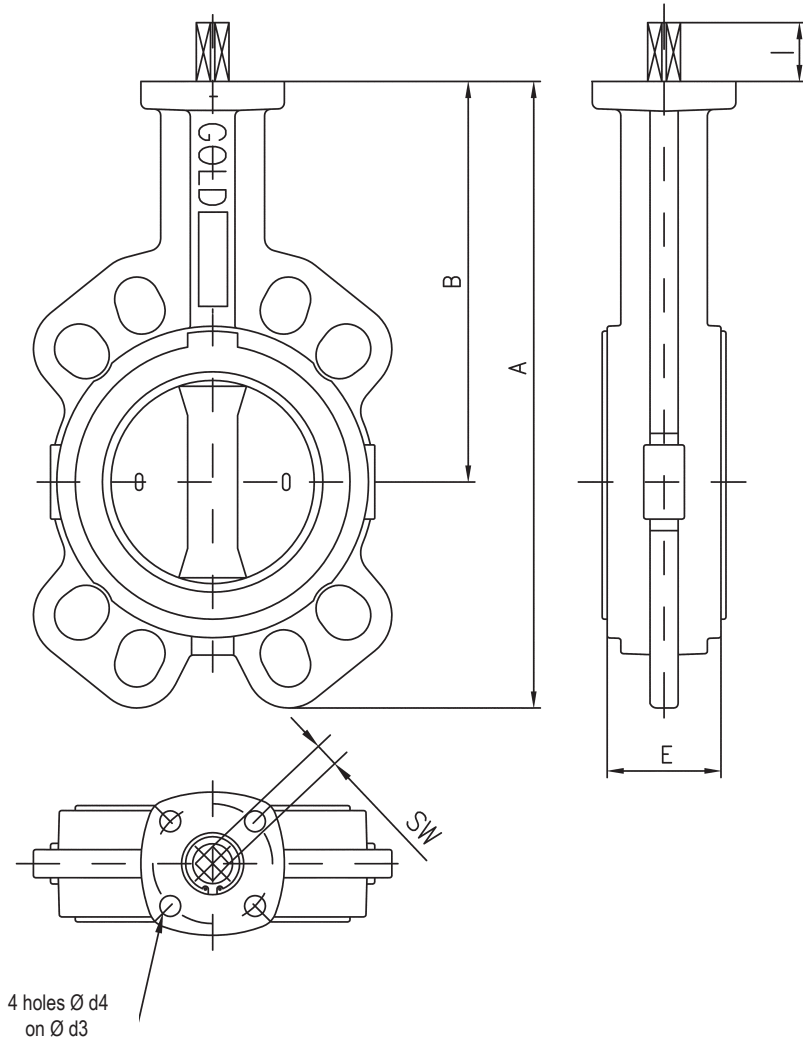
Type Wafer - DN40 to 350



N°	Description	Qty		Materials
		DN40 to 150	DN200 to 350	
01	Body	1	1	GGG40
02	Butterfly	1	1	GGG40/CF8
03	Upper shaft	1	1	SS410
03b	Lower shaft	-	1	SS410
04	Sleeve	1	1	EPDM
05	Lower bearing	2	2	SF-1
06	Upper bearing	2	2	SF-1
07	O-ring	1	1	NBR
08	Washer	1	1	A235
09	Circlip	1	1	65Nm

Dimensions

Type Wafer - DN40 to 350



DN	Inch	A	B	E	I	SW	Base	K	d3	d4
40	1.5	120	60	34	30	9	F05	70	50	4-7
50	2	140	60	43	30	9	F05	70	50	4-7
65	2.5	150	68	46	30	9	F05	70	50	4-7
80	3	158	80	46	30	9	F05	70	50	4-7
100	4	176	94	52	30	11	F05	70	50	4-7
125	5	190	113	56	30	14	F07	90	70	4-10
150	6	212	125	56	30	14	F07	90	70	4-10
200	8	235	160	60	35	17	F10	125	102	4-12
250	10	266	196	68	35	22	F10	125	102	4-12
300	12	305	230	78	35	22	F10	125	102	4-12
350	14	368	267	78	45	22	F10	125	102	4-12

Partlist

Type Wafer - DN400 to 1200



DN400 to 600

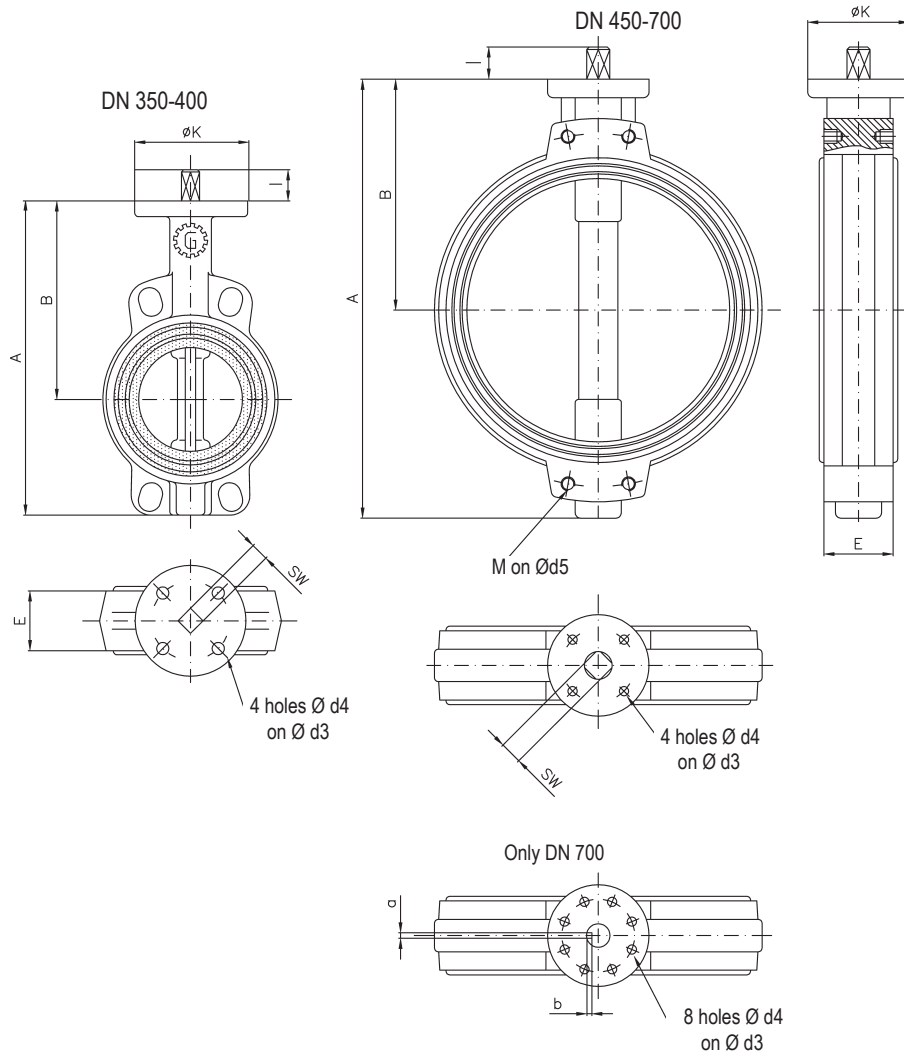


DN700 to 1200

N°	Description	Qty		Materials
		DN400 to 600	DN700 to 1200	
01	Body	1	1	GGG40
02	Butterfly	1	1	GGG40/CF8
03	Upper shaft	1	1	SS410
03b	Lower shaft	1	1	SS410
04	Sleeve	1	1	EPDM
05	Lower bearing	2	2	SF-1/H59
06	Upper bearing	1	1	SF-1/H59
07	O-ring	1	1	NBR
08	Washer	1	1	A235
09	Upper cover	1	1	65Nm
10	Screws/bolts	4	4	SUS201
11	Cap	1	1	GGG40
12	Screws/bolts	2	4	SUS201

Dimensions

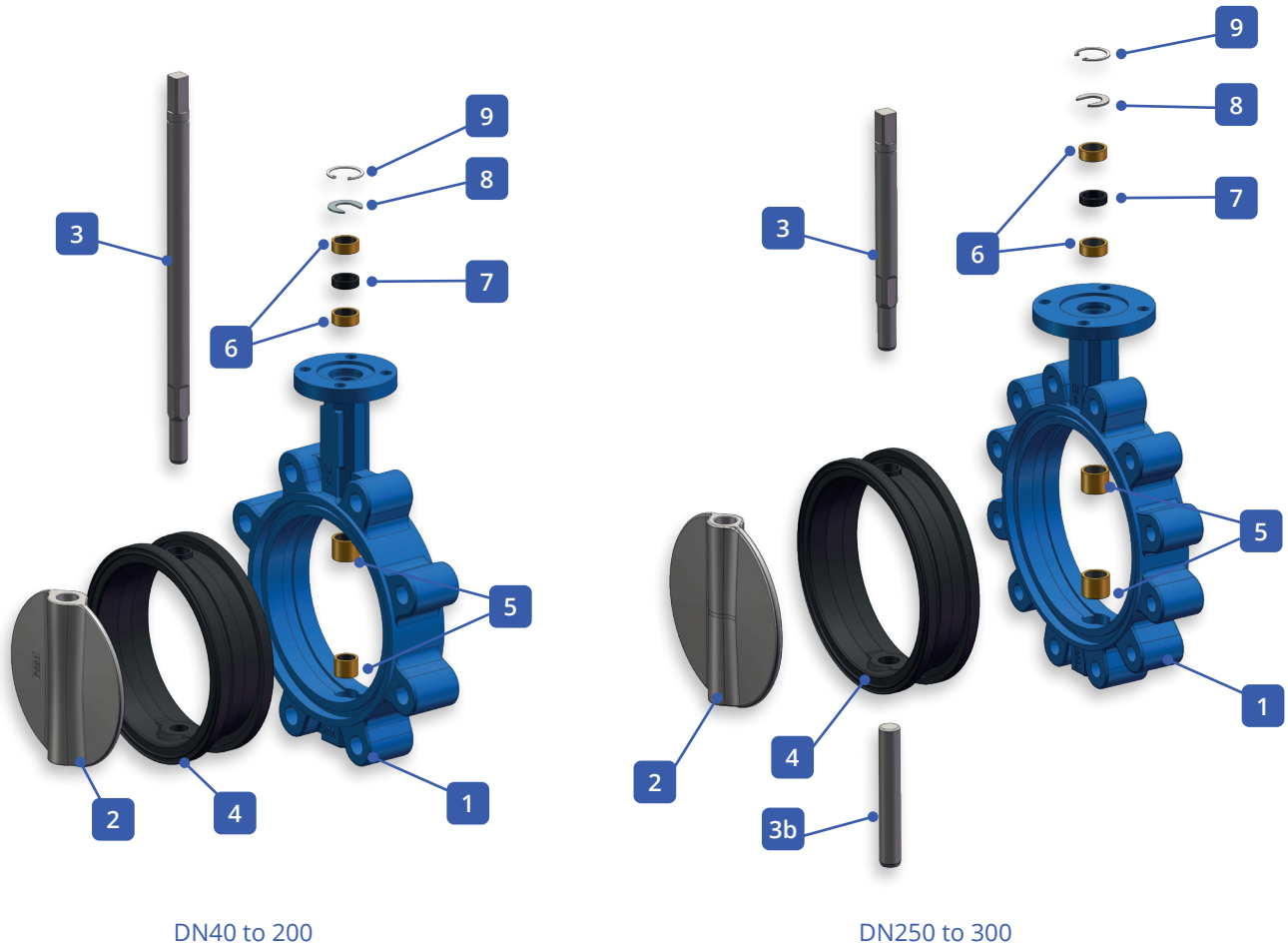
Type Wafer - DN350 to 700



DN	Inch	A	B	E	I	SW	KEY	Base	K	d3	d4
400	16	400	309	102	52	27		F14	175	140	4-18
450	18	422	328	114	52	27		F14	175	140	4-18
500	20	480	361	127	65	36		F14	175	140	4-18
600	24	562	459	154	72	36		F16	210	165	4-22
700	28	624	540	165	80		2-18	F25	300	254	8-18
800	32	672	590	190	80		2-18	F25	300	254	8-18
900	36	724	656	203	118		2-20	F25	300	254	8-18
1000	40	800	735	216	142		2-22	F25	300	254	8-18
1200	48	941	835	254	154		2-28	F30	350	298	8-22

Partlist

Type Lug - DN40 to 300



DN40 to 200

DN250 to 300

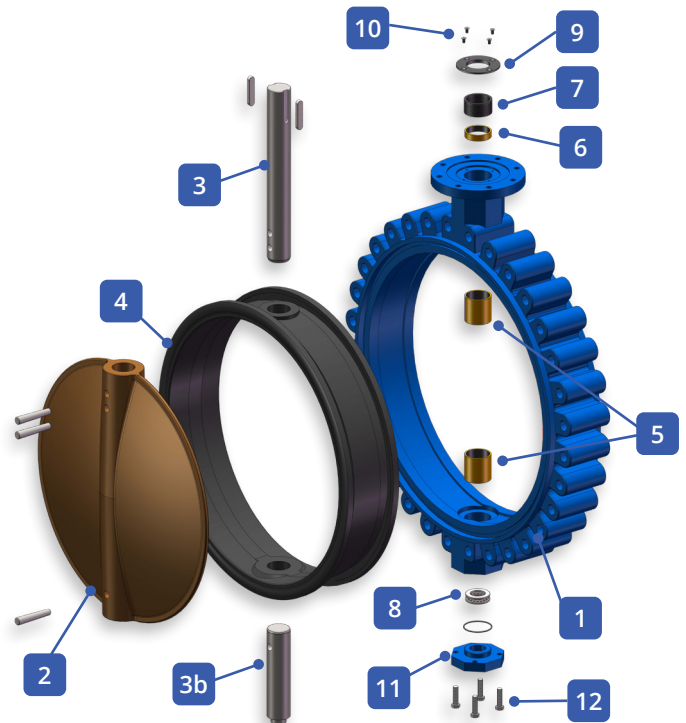
N°	Description	Qty		Materials
		DN40 to 150	DN200 to 350	
01	Body	1	1	GGG40
02	Butterfly	1	1	GGG40/CF8
03	Upper shaft	1	1	SS410
03b	Lower shaft	-	1	SS410
04	Sleeve	1	1	EPDM
05	Lower bearing	2	2	SF-1
06	Upper bearing	2	2	SF-1
07	O-ring	1	1	NBR
08	Washer	1	1	A235
09	Circlip	1	1	65Nm

Partlist

Type Lug - DN400 to 1200



DN400 to 600

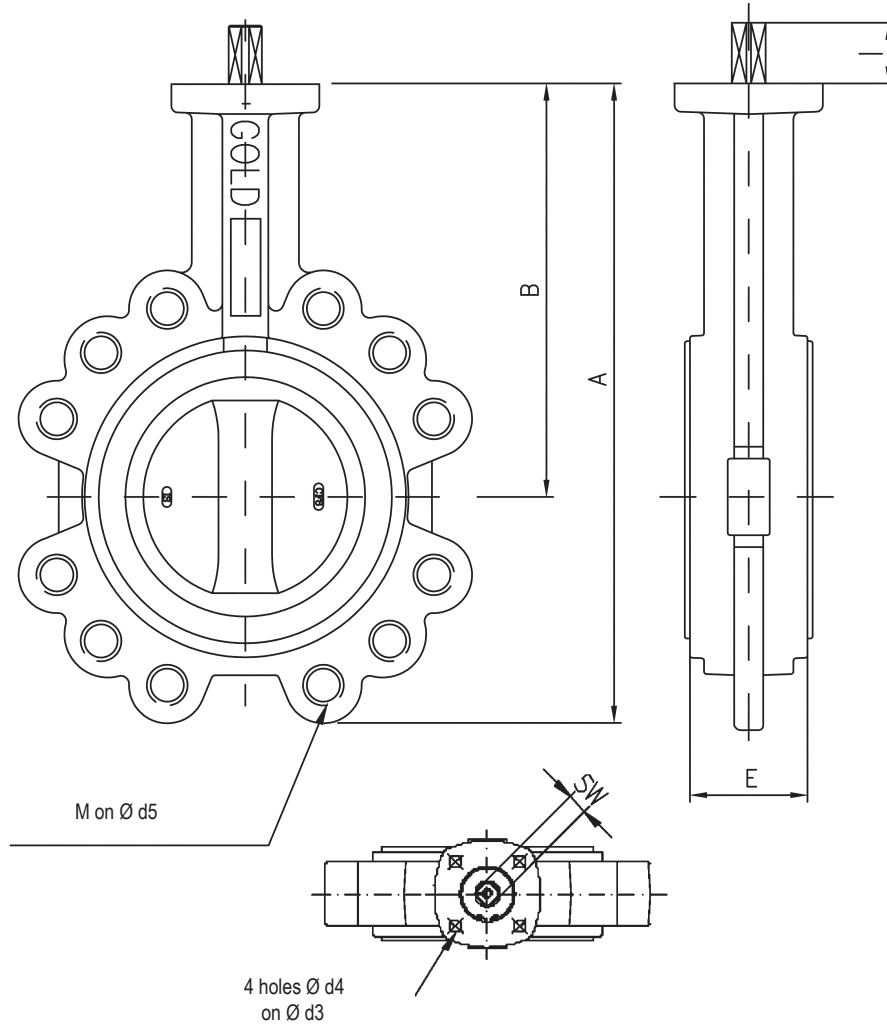


DN700 to 1200

N°	Description	Qty		Materials
		DN400 to 600	DN700 to 1200	
01	Body	1	1	GGG40
02	Butterfly	1	1	GGG40/CF8
03	Upper shaft	1	1	SS410
03b	Lower shaft	1	1	SS410
04	Sleeve	1	1	EPDM
05	Lower bearing	2	2	SF-1/H59
06	Upper bearing	1	1	SF-1/H59
07	O-ring	1	1	NBR
08	Washer	1	1	A235
09	Upper cover	1	1	65Nm
10	Screws/bolts	4	4	SUS201
11	Cap	1	1	GGG40
12	Screws/bolts	2	4	SUS201

Dimensions

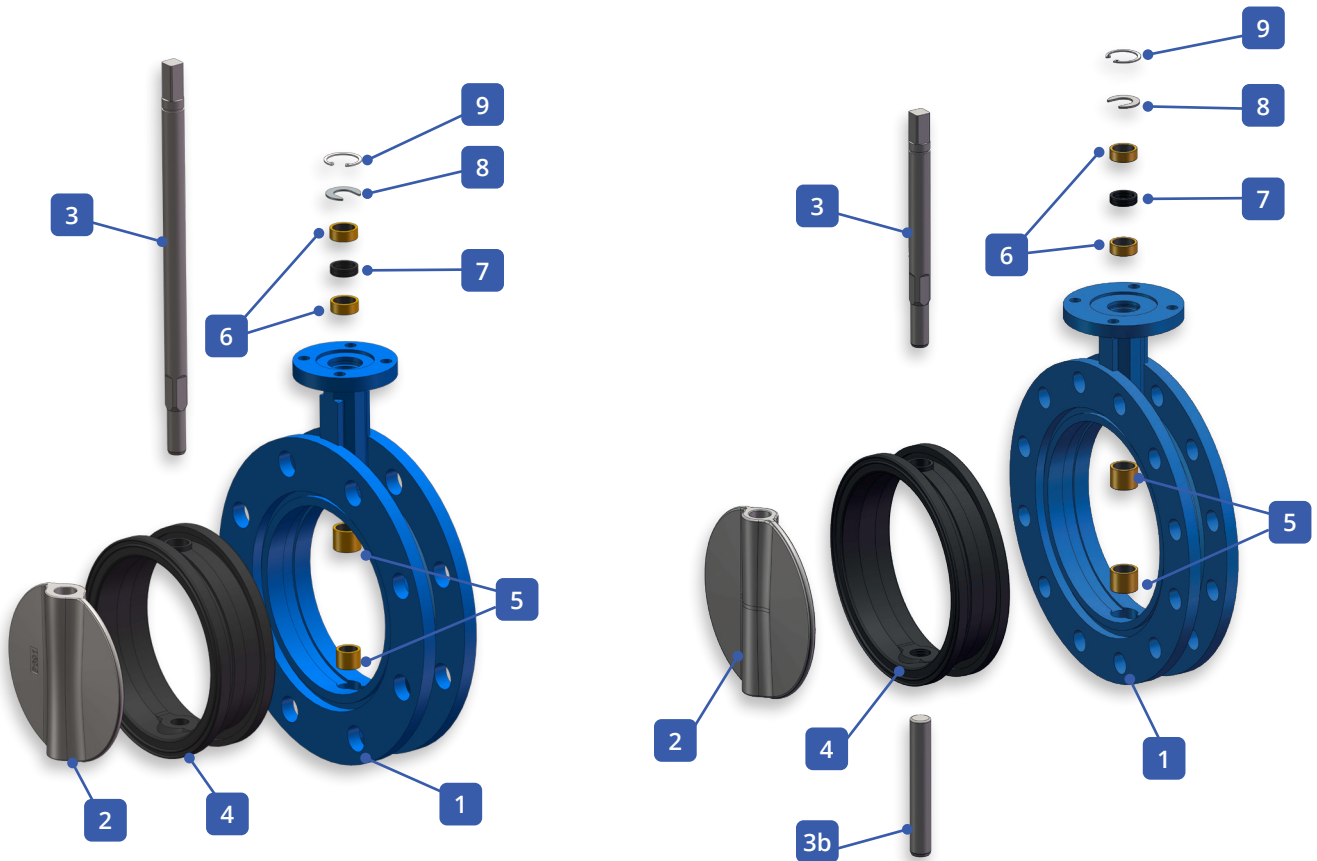
Type Lug - DN40 to 300



DN	Inch	A	B	E	I	SW	KEY	Base	K	d3	d4
50	2	140	65	43	30	9		F05	70	50	4-7
65	2.5	150	72	46	30	9		F05	70	50	4-7
80	3	158	86	46	30	9		F05	70	50	4-7
100	4	176	98	52	30	11		F05	70	50	4-7
125	5	190	125	56	30	14		F07	90	70	4-10
150	6	212	132	56	30	14		F07	90	70	4-10
400	16	400	309	102	52	27		F14	175	140	4-18
450	18	422	328	114	52	27		F14	175	140	4-18
500	20	480	361	127	65	36		F14	175	140	4-18
600	24	562	459	154	72	36		F16	210	165	4-22
700	28	624	535	165	80		2-18	F25	300	254	8-18
800	32	672	595	190	80		2-18	F25	300	254	8-18
900	36	724	640	203	118		2-20	F25	300	254	8-18
1000	40	800	735	216	142		2-22	F25	300	254	8-18
1200	48	941	825	254	154		2-28	F30	350	298	8-22

Partlist

Type Flanged - DN50 to 350



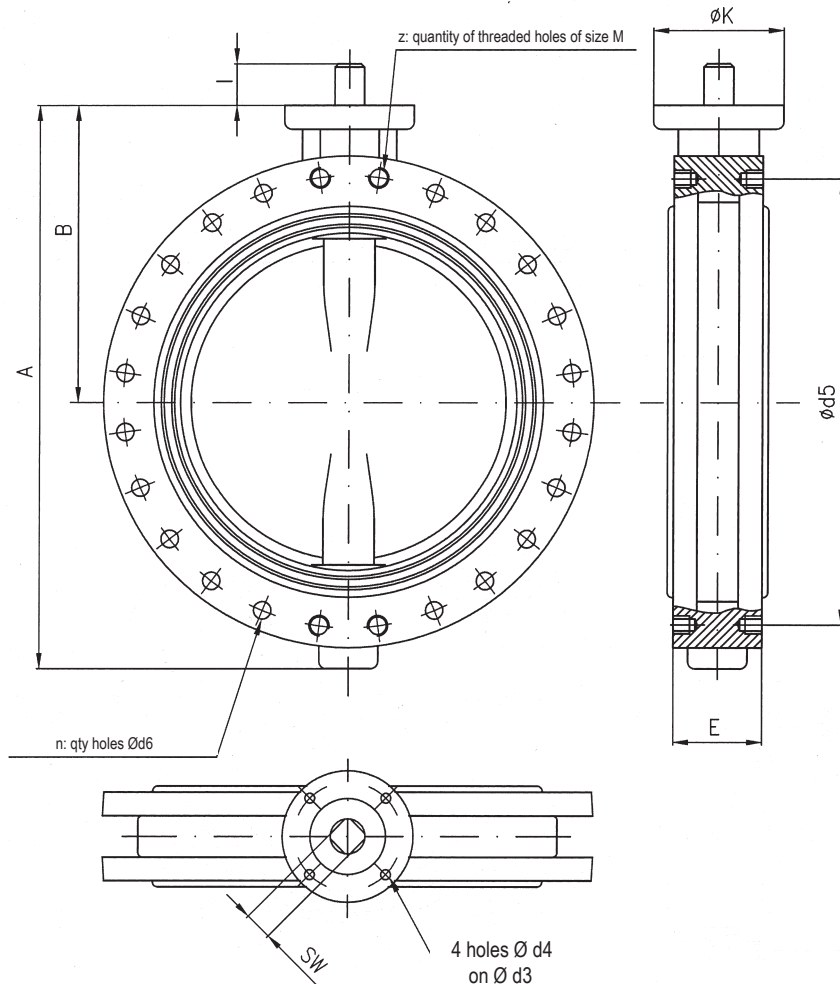
DN50 to 150

DN200 to 350

N°	Description	Qty		Materials
		DN50 to 150	DN200 to 350	
01	Body	1	1	GGG40
02	Butterfly	1	1	GGG40/CF8
03	Upper shaft	1	1	SS410
03b	Lower shaft	-	1	SS410
04	Sleeve	1	1	EPDM
05	Lower bearing	2	2	SF-1
06	Upper bearing	2	2	SF-1
07	O-ring	1	1	NBR
08	Washer	1	1	A235
09	Circlip	1	1	65Nm

Dimensions

Type Flanged - DN50 to 600



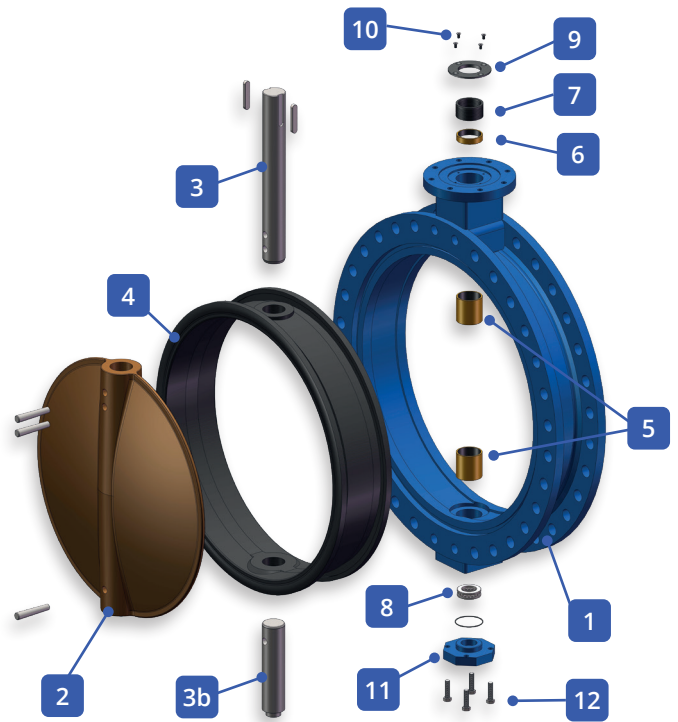
DN	Inch	A	B	E	I	SW	KEY	Base	K	d3	d4
50	2	140	65	43	30	9		F05	70	50	4-7
65	2.5	150	72	46	30	9		F05	70	50	4-7
80	3	158	86	46	30	9		F05	70	50	4-7
100	4	176	98	52	30	9		F05	70	50	4-7
125	5	190	125	56	30	14		F07	90	70	4-10
150	6	212	132	56	30	14		F07	90	70	4-10
200	8	235	160	60	35	17		F10	125	102	4-12
250	10	266	196	68	35	22		F10	125	102	4-12
300	12	305	230	78	35	22		F10	125	102	4-12
350	14	368	267	78	45	22		F10	125	102	4-12
400	16	400	309	102	52	27		F14	175	140	4-18
450	18	422	328	114	52	27		F14	175	140	4-18
500	20	480	361	127	65	36		F14	175	140	4-18
600	24	562	459	154	72	36		F16	210	165	4-22

Partlist

Type Flanged - DN700 to 1200



DN400 to 600

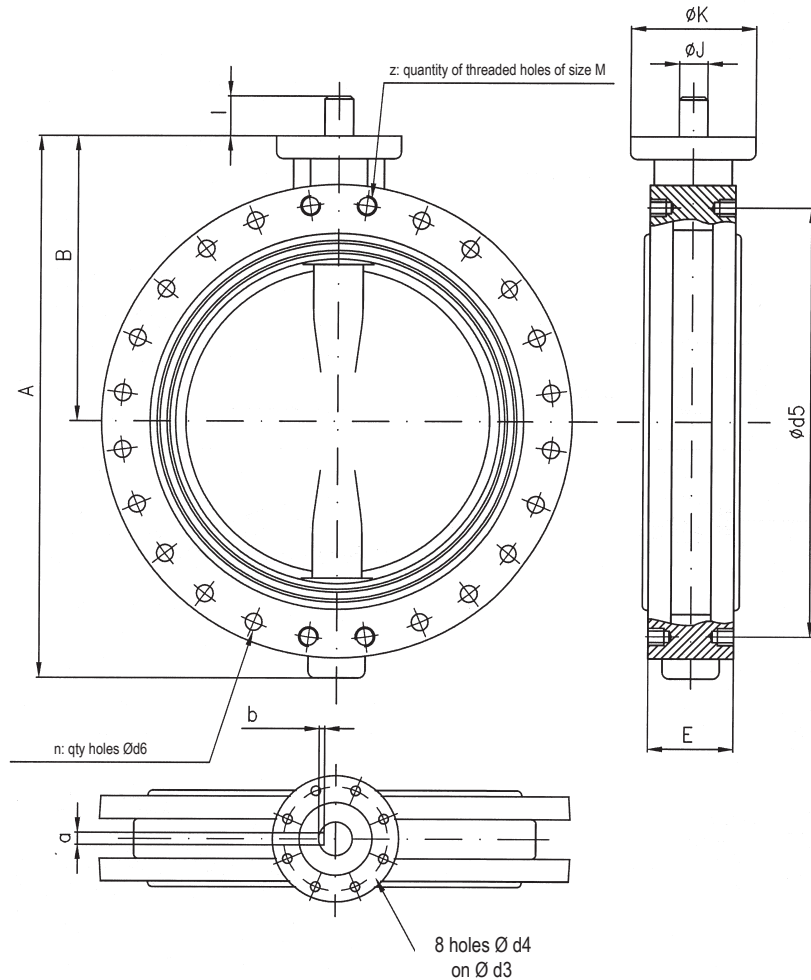


DN700 to 1200

N°	Description	Qty		Materials
		DN400 to 600	DN700 to 1200	
01	Body	1	1	GGG40
02	Butterfly	1	1	GGG40/CF8
03	Upper shaft	1	1	SS410
03b	Lower shaf	1	1	SS410
04	Sleeve	1	1	EPDM
05	Lower bearing	2	2	SF-1/H59
06	Upper bearing	1	1	SF-1/H59
07	O-ring	1	1	NBR
08	Washer	1	1	A235
09	Upper cover	1	1	65Nm
10	Screws/bolts	4	4	SUS201
11	Cap	1	1	GGG40
12	Screws/bolts	2	4	SUS201

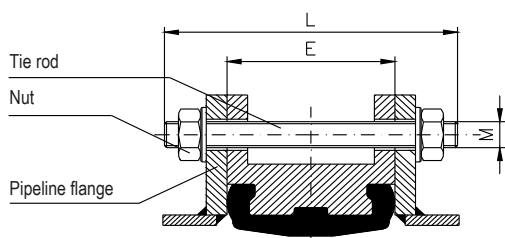
Dimensions

Type Flanged - DN700 to 1200

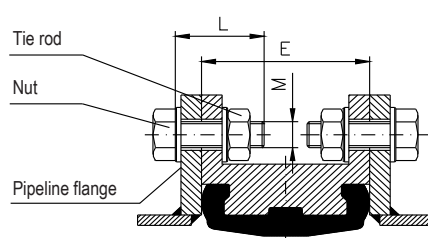


DN	Inch	A	B	E	I	SW	KEY	Base	K	d3	d4
700	28	624	535	165	80		2-18	F25	300	254	8-18
800	32	672	595	190	80		2-18	F25	300	254	8-18
900	36	724	640	203	118		2-20	F25	300	254	8-18
1000	40	800	735	216	142		2-22	F25	300	254	8-18
1200	48	941	825	254	154		2-28	F30	350	298	8-22

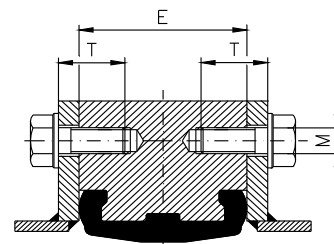
Installation and assembly



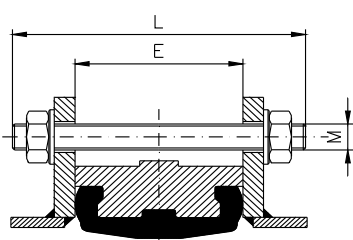
Flange type 1



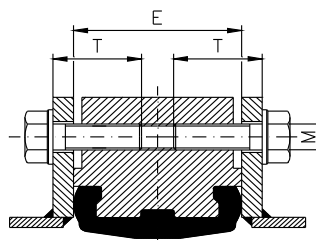
Flange type 2



Bolts



Wafer



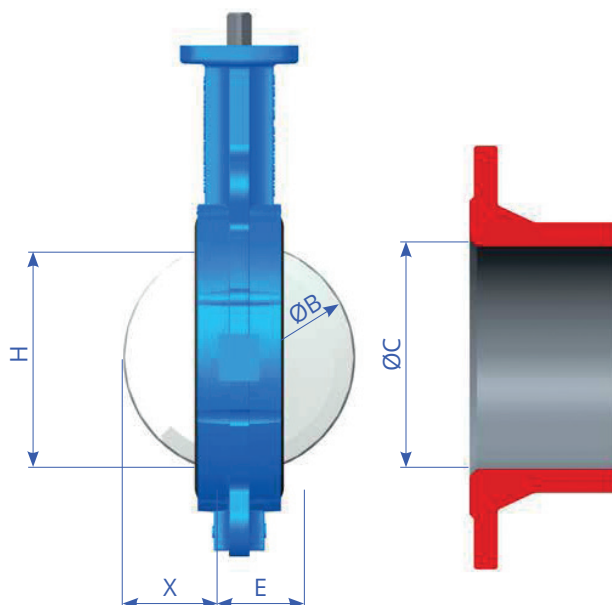
Lug

E = Valve face-to-face distance
L = Tie rod length
T = Bolt length
M = Size of tie rod, bolt, nut
N° = Quantity of tie rods or bolts

DN	PN10				PN16			
	Entraxe	Ø	N°	Threading	Entraxe	Ø	N°	Threading
40	110	19	4	M16	110	19	4	M16
50	125	19	4	M16	125	19	4	M16
65	145	19	4	M16	145	19	4	M16
80	160	19	8	M16	160	19	4	M16
100	180	19	8	M16	180	19	8	M16
125	210	19	8	M16	210	19	8	M16
150	240	23	8	M20	240	23	8	M20
200	295	23	8	M20	295	23	12	M20
250	350	23	12	M20	350	28	12	M24
300	400	23	12	M20	400	28	12	M24
350	460	23	16	M20	460	28	16	M24
400	515	28	16	M24	515	31	16	M27
450	565	28	20	M24	565	31	20	M27
500	620	28	20	M24	620	34	20	M30
600	725	31	20	M27	725	37	20	M33
700	840	31	24	M27	840	37	24	M33
800	950	34	24	M30	950	41	24	M36
900	1050	34	28	M30	1050	41	28	M36
1000	1160	37	28	M33	1160	44	28	M39
1100	1270	37	32	M33	1270	44	32	M39
1200	1380	41	32	M36	1380	50	32	M45
1400	1590	44	36	M39	1590	50	36	M45
1600	1820	50	40	M39	1820	57	40	M52
1800	2020	50	44	M45	2020	57	44	M52

Installation and assembly

Dimensions for installation



During the installation and bolting of the valve, the butterfly must never be in the closed position.

DN	H	X	E	B	C min	C max
50	26,5	3,75	43	50,5	40	61,5
65	46,6	9,75	46	65,5	56	77,5
80	64,7	16,7	46	79,4	72	90,5
100	88,2	25,2	52	102,4	95	116
125	111,7	34,5	56	125	117	141,5
150	138,9	46,9	56	149,8	145	170,5
200	190,3	69,7	60	199,5	196	221,5
250	239,7	90,6	68	249,2	243	276,5
300	289,3	110,5	78	299	295	327,5
350	332,4	131,7	78	341,4	340	359
400	377	144,3	102	390,6	385	411
450	425,3	163	114	440,3	435	462
500	472,2	181	127	489	482	513,5
600	573,17	219	154	593,5	585	616,5
700	677,2	266	165	697	688	725
800	768,8	300,9	190	791,9	775	820
900	865,5	342,4	203	889	877	925
1000	969,6	388,7	216	993,4	982	1045
1100	1081,6	443,5	216	1103	1093	1140
1200	1157,7	463,3	260	1186,5	1180	1260
1400	1359,7	554,5	279	1388	1370	1465
1600	1559,9	637	318	1592	1575	1665

Installation and assembly

Installation of the valve on the pipeline

1. The assembly must be done with standardized flanges.

Leave sufficient space between the connection flanges to insert the valve without damaging the body or the sleeve.

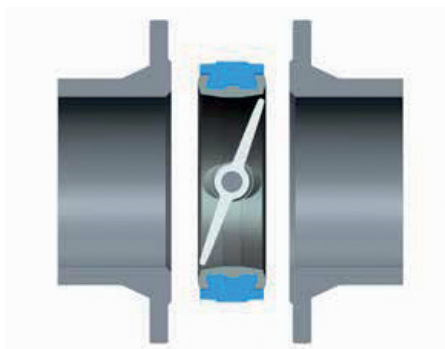


Fig. A

2. Before tightening the bolts,

Fully open the valve to check the free movement of the butterfly. The butterfly should be in the position shown below.

(NEVER CLOSED).

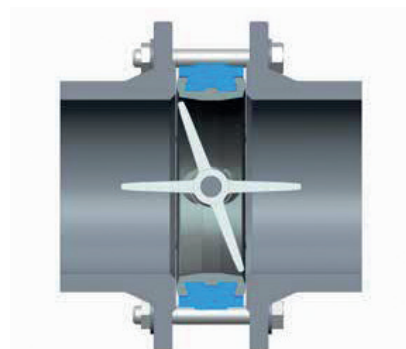
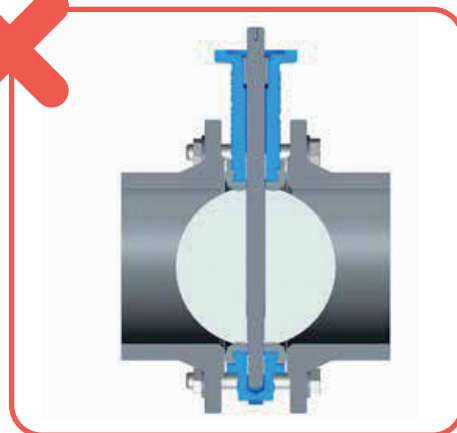


Fig. B



For valves up to DN300 in potable water, the shaft can remain in the vertical or horizontal position. For other valves, mounting with the shaft in the horizontal position is mandatory. The connection flanges must be flat and perfectly match with the valve when tightening is performed, ensuring a good seal.

DANGER

Never weld the connection flanges to the piping while the valve is installed. The body and the sleeve may be damaged by the heat. It is strictly forbidden to use an additional gasket between the valve and the connection flanges, as the valve sleeve serves as the only gasket.

OMEAX

SIMPLIFIES LIFE !

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