BUTTERFLY LUG VALVE SERIE 10A CORPS CAST IRON BODY – DUCTILE IRON DISC AND EPDM SEAT - DN40 TO DN600

References
10AF120 – 10AF120R*
10AF020 – 10AF020R*
10AF02P0R*
(*with gearbox)

CERTIFICAT 3.1 sur demande | CE | Lloyd's Register TYPE APPROVAL | TÜVRheinland PED/2014/68/UE



Références	Pression de service	∅ DN														
		40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
10AF120	16 BAR	●	●	●	●	●	●	●	●	●	●					
10AF120R	16 BAR					●	●	●	●	●	●					
10AF020	10 BAR								●	●	●	●	●	●	●	●
10AF020R	10 BAR								●	●	●	●	●	●	●	●
10AF02P0R	10 BAR											●	●	●	●	●

1. Standards

- ✓ Manufacturer certified ISO 9001:2015
- ✓ Designing according to API 609
- ✓ DIRECTIVE 2014/68/UE : CE N° 0035 risk category III module H
- ✓ Certificat 3.1 on request
- ✓ Pressure test according to API 598, table 6
- ✓ Length according to ISO 5752 series 20, EN 558 series 20 (NF29305)
- ✓ ISO 5211 Mounting pad
- ✓ Between flanges according to EN 1092-1 PN10/16
- ✓ Valves according to LR Rules and Regulation for the classification of Ships, July 2018 (Type Approval Certificate) Marine LLOYD'S REGISTER. Marine and offshore subject to the valves complying LR Rules and Regulations for the particular services
  - API 607 – 2016
  - ISO 19921 :2005
  - GB/T 22218 - 2008

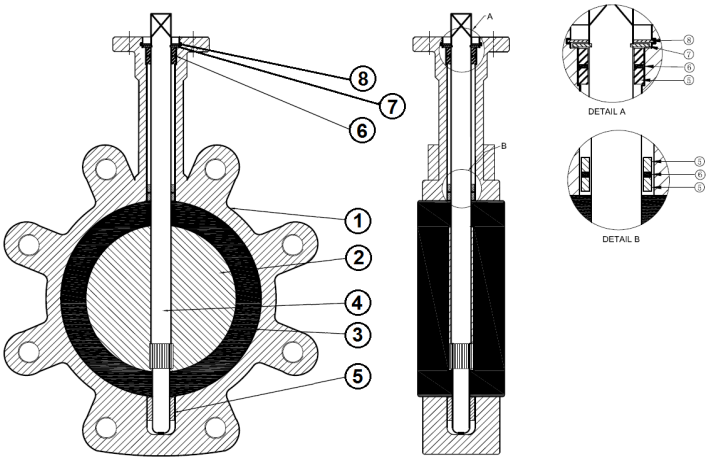
2. Features

Use:	Cold and hot water
Dimensions :	DN40 to DN600
Connection :	Between flanges PN10/16
Mini temperature :	-15°C
Maxi temperature :	+110°C (130°C temporarily)
Maxi pressure :	16 Bars up to DN300, 10 bars over
Sepcifications :	Long neck for isolation Lug type Vulcanised EPDM seat ISO 5211 mounting pad
Materials :	Cast iron EN GJL250 body

Information provided as an indication and subject to possible modification

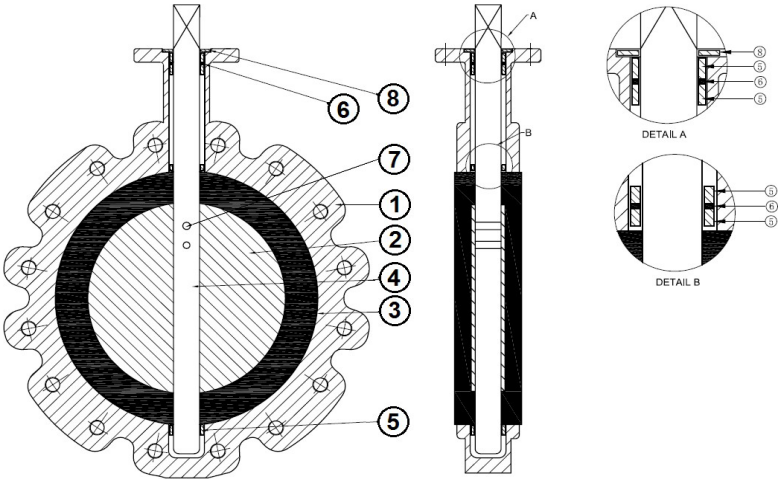
3. Materials

DN 40 to DN 300



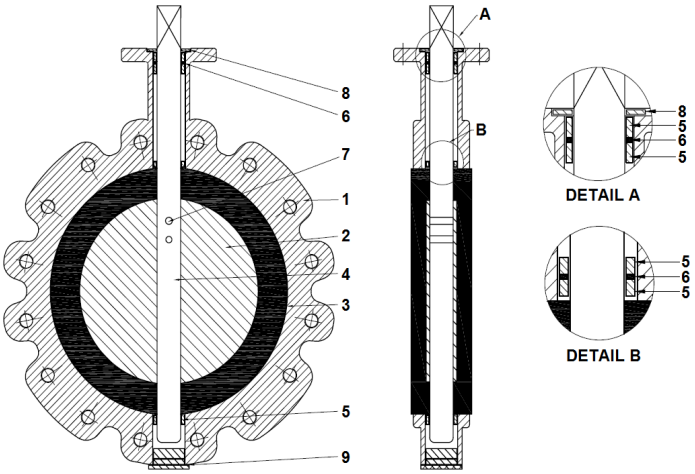
Item	Designation	Materials
1	Body	Cast iron EN GJL-250
2	Disc	Ductile iron EN GJS-400-15 nickeled coated
3	Seat	EPDM
4	Stem	AISI 416
5	Bearing	PTFE
6	O ring	EPDM
7	Circlip	Steel
8	Circlip	Steel
	Lever	Aluminium

DN 350



Item	Designation	Materials
1	Body	Cast iron EN GJL-250
2	Disc	Ductile iron EN GJS-400-15 nickeled coated
3	Seat	EPDM
4	Stem	AISI 431
5	Bearing	PTFE
6	O ring	EPDM
7	Pin	AISI 316
8	Gasket	EPDM

DN 400 to DN 600

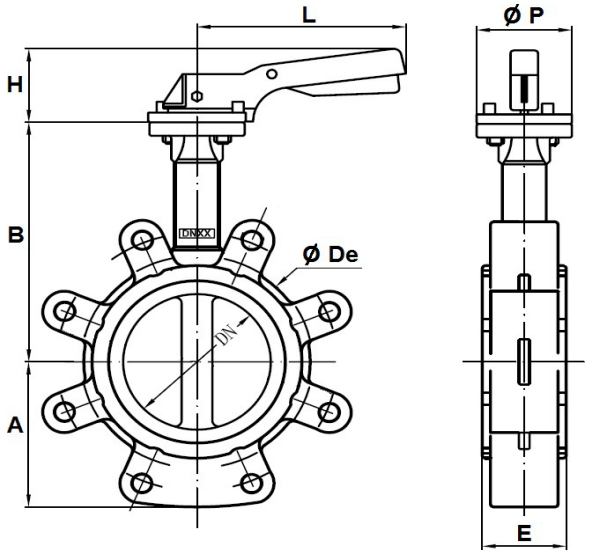


Item	Designation	Materials
1	Body	Cast iron EN GJL-250
2	Disc	Ductile iron EN GJS-400-15 nickeled coated
3	Seat	EPDM
4	Stem	AISI 431
5	Bushing	PTFE
6	O ring	EPDM
7	Pin	AISI 316
8	Gasket	EPDM
9	Gasket	EPDM

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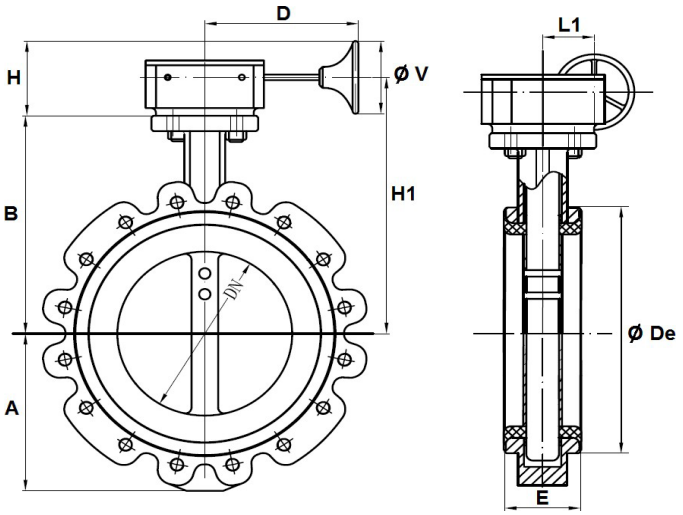
4. Valve size (in mm)

DN 40 to DN 300 (with lever)



DN	40	50	65	80	100	125	150	200	250	300
A	61	77	88	95	107	122	144	171	205	235
B	130	137	142	158	180	192	215	242	280	310
Ø De	82	95	109	127	152	180	207	260	315	370
E	33	43	46	46	52	56	56	60	68	78
H	70	70	70	70	70	71	71	40	44	44
L	195	195	195	195	195	278	278	355	507	507
Ø P	65	65	65	65	65	90	90	125	150	150
weight (Kg)	2.43	3.13	3.73	4.98	5.64	9.06	10.96	16.67	31.4	42

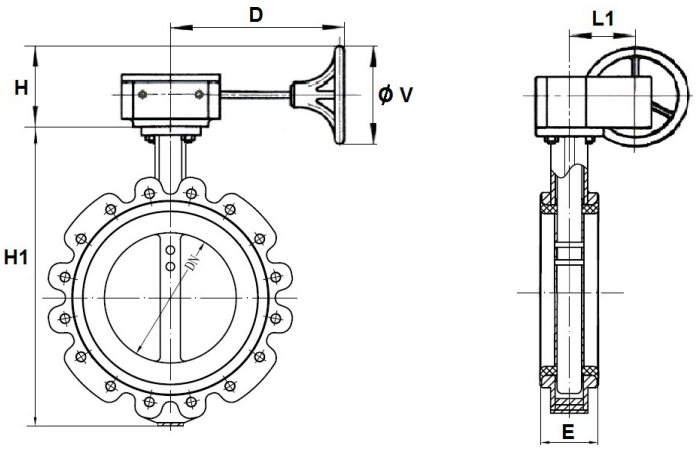
DN 350 (with gearbox)



DN	350
A	266
B	367
D	223
Ø De	418
E	78
H	190
H1	412
L1	78
Ø V	300
weight (Kg)	75.9

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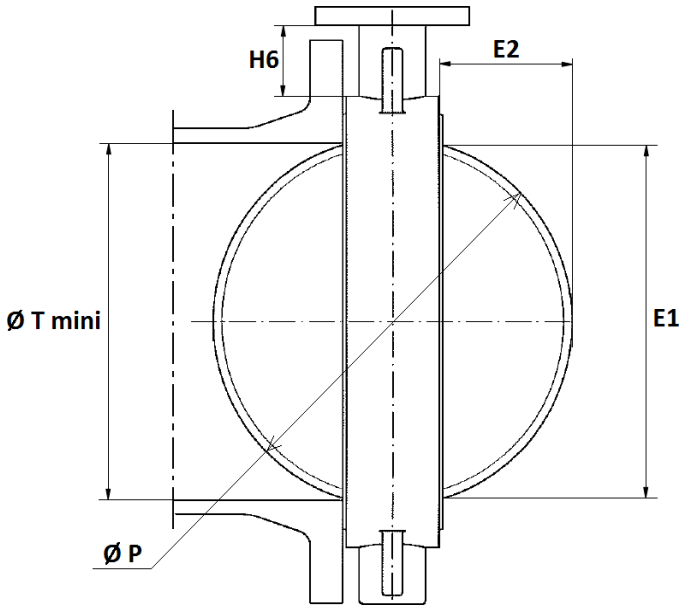
DN 400 to DN 600 (with gearbox)



DN	400	450	500	600
A	324	341	374	478
B	394	419	474	565
D	270	270	339	339
Ø De	470	525	570	697
E	102	114	127	154
H	208	258	222	222
H1	456	481	539	630
L1	120	120	120	120
Ø V	400	400	300	300
weight (Kg)	115.5	147	202.8	309.8

5. Disc and neck size (in mm)

(Ø min pipe)

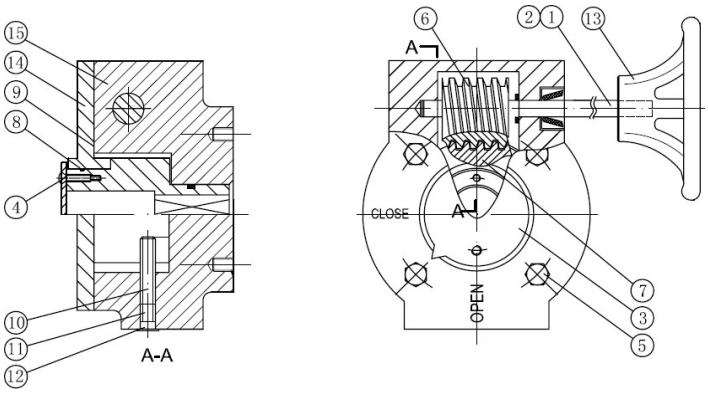


DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
E1	37.7	47.06	59.81	75.56	98.37	117.02	147.65	195.3	242.5	292.6	325.4	379.8	429	480.2	580.5
E2	4.9	5	9.4	16.5	26.1	33.9	49.7	71.2	91.2	111.8	127.8	143.9	163.3	182.3	219.3
H6 ±2	76.7	79	79	87.5	92.3	90.3	99.2	99.5	103.8	105.8	105.8	109.5	113	172	192
Ø P	42.8	53	64.8	79.1	104.25	123.8	155.4	202.4	250.5	301.6	333.7	389.8	440.7	491.8	592.7
Ø T mini	43	53	65	79.5	104.5	124	155.5	202.5	250.5	302	334	390	441	492	593

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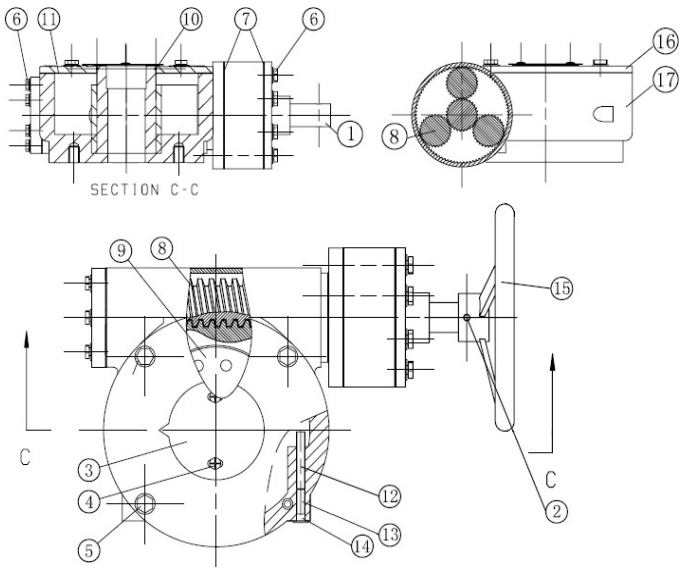
6. Gearbox materials

DN 40 to DN 450



Item	Designation	Materials
1	Stem	Chromed steel
2	Pin	AISI 316
3	Indicator plate	Aluminium + NBR gasket
4	Indicator bolt, washer	AISI 316
5	Bolt, washer	AISI 316
6	Gear 1	Steel
7	Gear 2	Ductile iron EN GJS-400-15
8	O ring	NBR
9	Bonnet gasket	NBR
10	Internal set screw	Carbon steel
11	External set screw	AISI 316
12	Plastic cap	Plastic
13	Handwheel	Cast iron EN GJL-250 epoxy coating
14	Bonnet	Cast iron EN GJL-250 epoxy coating
15	Body	Cast iron EN GJL-250 epoxy coating
	Bolting to fix on valve	AISI 304

DN 500 to DN 600

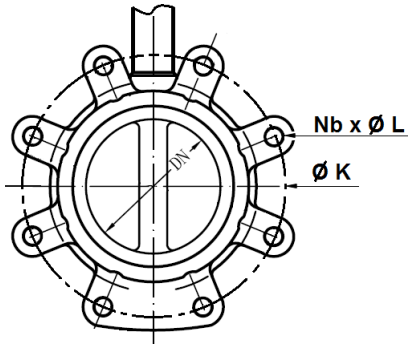


Item	Designation	Materials
1	Stem	Chromed steel
2	Pin	AISI 316
3	Indicator plate	Aluminium + NBR gasket
4	Indicator bolt, washer	AISI 316
5	Bolt, washer	AISI 316
6	Bolting	AISI 316
7	Body gasket	NBR
8	Gear 1	Steel
9	Gear 2	Ductile iron EN GJS-400-15
10	O ring	NBR
11	Bonnet gasket	NBR
12	Internal set screw	Carbon steel
13	External set screw	AISI 316
14	Plastic cap	Plastic
15	Handwheel	Cast iron EN GJL-250 epoxy coating
16	Bonnet	Cast iron EN GJL-250 epoxy coating
17	Body	Cast iron EN GJL-250 epoxy coating
	Bolting to fix on valve	AISI 304

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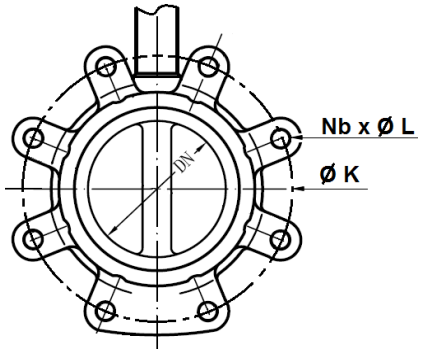
7. Between flanges size (in mm)

Flange lug size PN10/16 (in mm)



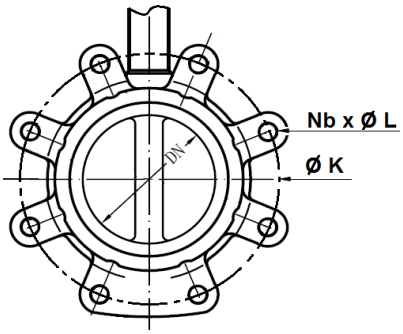
DN	40	50	65	80	100	125	150
Ø K	110	125	145	160	180	210	240
Nb x ØL	4 x M16	4 x M16	4 x M16	8 x M16	8 x M16	8 x M16	8 x M20

Flange lug size PN10 (in mm)



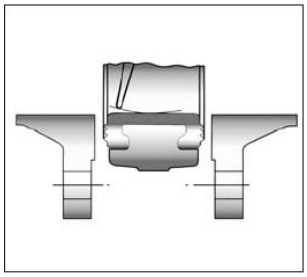
DN	200	250	300	350	400	450	500	600
Ø K	295	350	400	460	515	565	620	725
Nb x ØL	8 x M20	12 x M20	12 x M20	16 x M20	16 x M24	20 x M24	20 x M24	20 x M27

Flanges lug size PN16 (en mm)

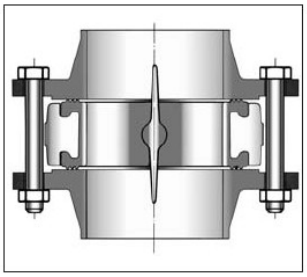


DN	200	250	300	350	400	450	500	600
Ø K	295	355	410	470	525	585	650	770
Nb x ØL	12 x M20	12 x M24	12 x M24	16 x M24	16 x M27	20 x M27	20 x M30	20 x M33

8. Installation instructions



Half open valve introduction



Complete opened disc valves when screw tightening

Information provided as an indication and subject to possible modification