CONCENTRIC WAFER BUTTERFLY VALVE - CAST IRON BODY - STAINLESS STEEL DISC AND EPDM SEAT - DN32/40 TO DN1000

References
10AF1E1
10AF1E1R*
10AF0E1R*
(*with gearbox)



References	Working pressure	∅ DN																		
		32-40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000
10AF1E1	16 BAR	●	●	●	●	●	●	●	●	●	●									
10AF1E1R	16 BAR					●	●	●	●	●	●									
10AF0E1R	10 BAR											●	●	●	●	●	●	●	●	●

1. Standards

- ✓ Manufacturer certified ISO 9001:2015
- ✓ Designing according to API 609
- ✓ DIRECTIVE 2014/68/EU : CE N° 0035 (up to DN600) Risk category III module H (up to DN600)
- ✓ Certificate 3.1 on request
- ✓ Pressure tests according to API 598, table 6
- ✓ Length according to ISO 5752 series 20, EN 558 series 20 (NF 29305)
- ✓ ISO 5211 mounting pad
- ✓ Between flanges according to EN 1092-1 PN6-PN10/16 and ASME B16.5 Class 150 (PN20)
- ✓ 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

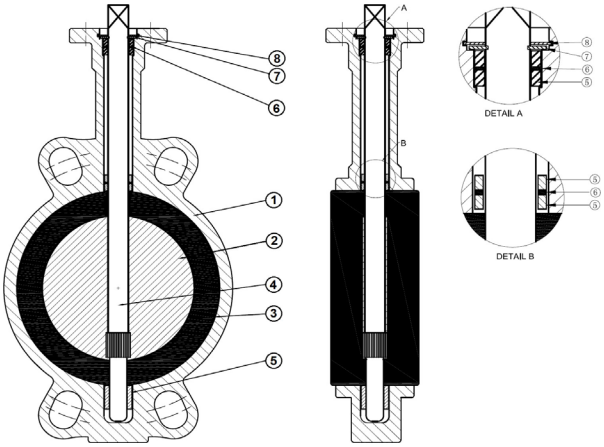
2. Features

Use:	Cold and hot water, sea water, demineralized water, alcohol, milk of lime, mercury, alcalins, hydroxid of soda
Size :	DN32 to DN 1000
Connection :	Between flanges PN10/16 and Class 150 (PN20)
Min. temperature :	-15°C
Max temperature :	+110°C (130° C temporarily)
Max working pressure :	16 Bars up to DN 300
Specifications :	Long neck for isolation Stainless steel disc Vulcanised EPDM seat ISO 5211 mounting pad
Materials :	Cast iron EN GJL250 body, EPDM SEAT

Information provided as an indication and subject to possible modification

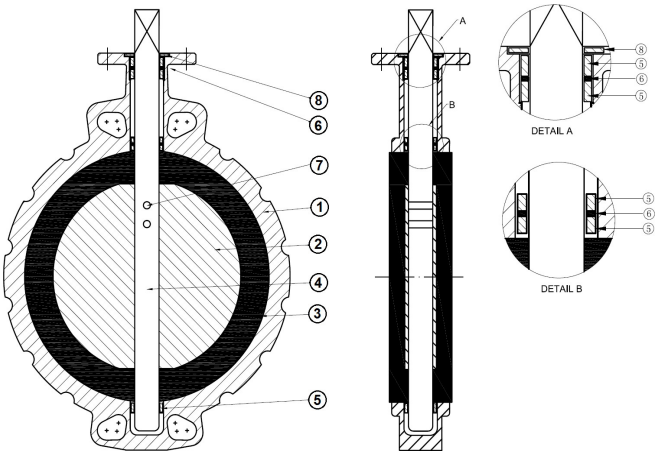
3. Materials

DN 32 to DN300



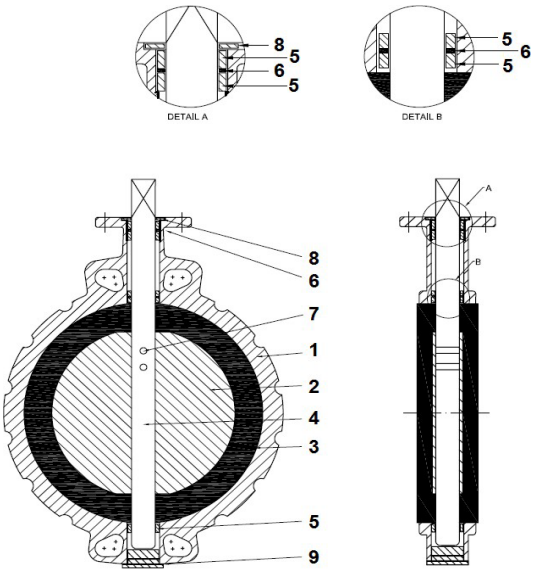
Item	Designation	Materials
1	Body	Cast iron EN GJL-250
2	Disc	ASTM A351 CF8M
3	Seat	EPDM
4	Stem	AISI 416
5	Bushing	PTFE
6	O ring	EPDM
7	Circlip	Steel
8	Circlip	Steel
	Lever	Aluminium

DN 350



Item	Designation	Materials
1	Body	Cast iron EN GJL-250
2	Disc	ASTM A351 CF8M
3	Seat	EPDM
4	Stem	AISI 431
5	Bushing	PTFE
6	O ring	EPDM
7	Pin	AISI 316
8	Gasket	EPDM

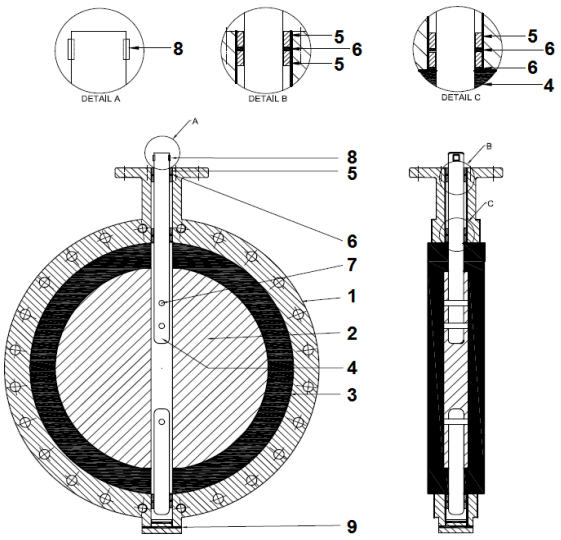
DN 400 to DN 600



Item	Designation	Materials
1	Body	Cast iron EN GJL-250
2	Disc	ASTM A351 CF8M
3	Seat	EPDM
4	Stem	AISI 431
5	Bushing	PTFE
6	O ring	EPDM
7	Pin	AISI 316
8	Gasket	EPDM
9	Joint	EPDM

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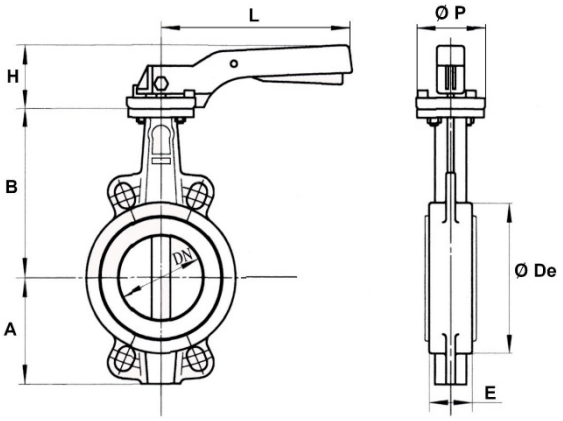
DN 700 to DN 1000



Item	Designation	Materials
1	Body	Ductile iron EN GJS-400-15
2	Disc	ASTM A351 CF8M
3	Seat	EPDM
4	Stem	AISI 431
5	Bushing	Aluminium + Bronze
6	O ring	EPDM
7	Pin	AISI 316
8	Pin	SQ 719
9	Gasket	EPDM

4. Valve size (in mm)

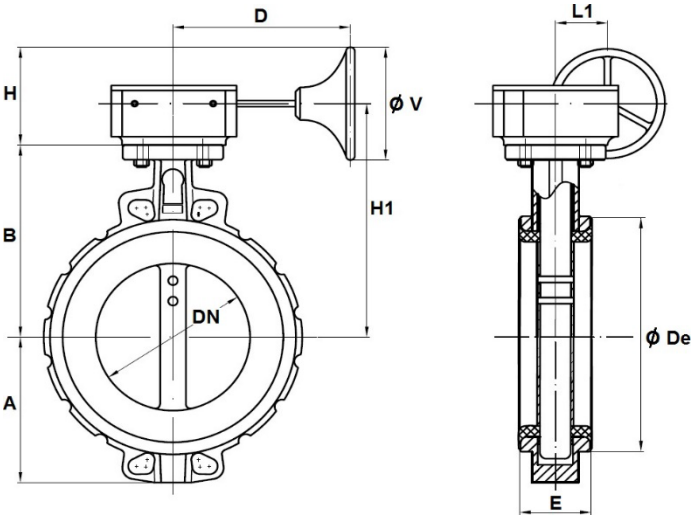
DN 32 to DN 300 (with Lever) : Ref : 10AF1E1



DN	32/40	50	65	80	100	125	150	200	250	300
A	61	77	87,5	95	107	121,5	144	171	205	235
B	130	136,5	142	158	180	192	215	242	280	310
Ø De	82	95	109	121	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)	1.85	2.53	2.86	3.16	4.21	6.67	7.66	14.67	23.4	33.8

DN 350 (with gearbox) : Ref : 10AF0E1R

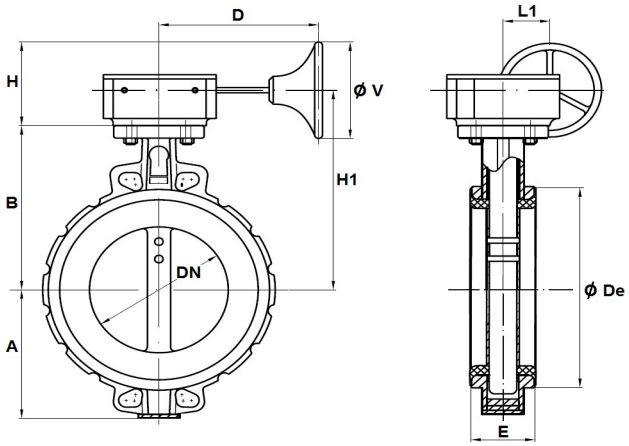
DN	350
A	260
B	334
D	223
Ø De	418
E	78
H	190
H1	379
L1	78
Ø V	300
weight (Kg)	54.5



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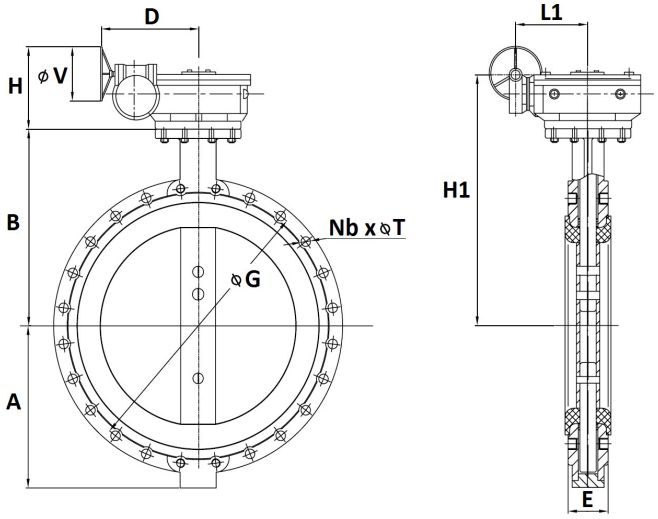
CONCENTRIC WAFER BUTTERFLY VALVE - CAST IRON BODY - STAINLESS STEEL DISC AND EPDM SEAT - DN32/40 TO DN1000

DN400 to DN 600 (with gearbox) Ref : 10AF0E1R



DN	400	450	500	600
A	307	339	368	459
B	361	401	480	565
D	270	270	339	339
Ø De	470	525	570	697
E	102	114	127	154
H	208	258	222	222
H1	423	463	545	630
L1	120	120	120	120
Ø V	400	400	300	300
weight (Kg)	77.4	107.4	155.8	231.1

DN 700 to DN 1000 (with gearbox) Ref : 10AF0E1R



DN	700	800	900	1000
A	520	591	656	721
B	624	672	720	800
D	355	355	377.5	377.5
E	163	188	203	216
H	357	357	370	370
H1	781	829	890	970
L1	228	228	243	243
Ø V	400	400	400	400
Ø G	840	950	1050	1160
Nb x Ø T	24 x Ø31	24 x Ø34	28 x Ø34	28 x Ø37
weight (Kg)	372	428	831	982

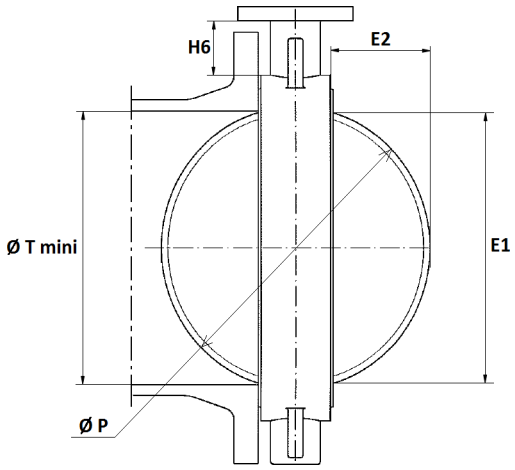
Information provided as an indication and subject to possible modification

5. Neck and disc size

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

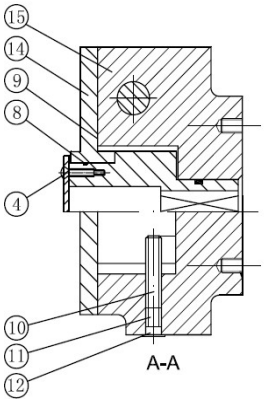
DN	700	800	900	1000	1200
Ø T mini	694	795	865	964	1158

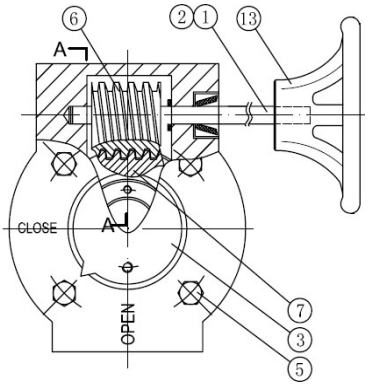
(Ø mini pipe)



6. Gearbox materials

DN 40 to DN 450

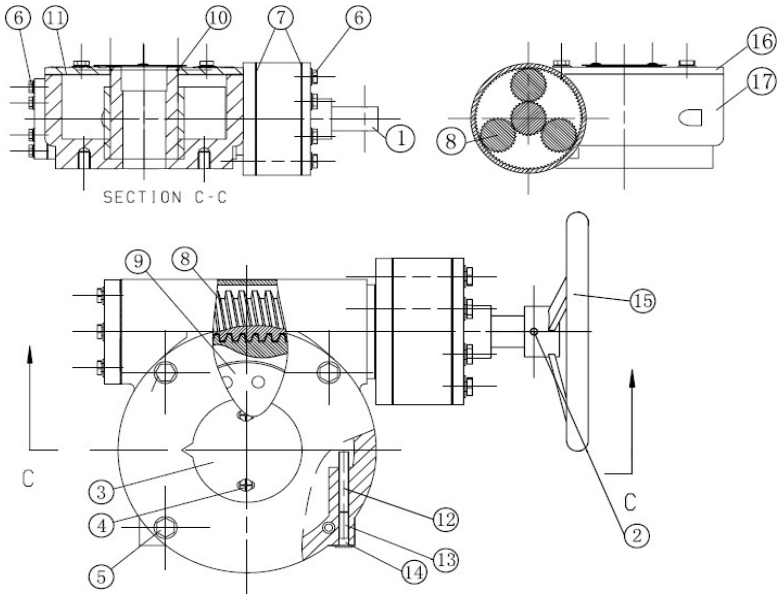




Item	Designation	Materials
1	Stem	Chromed steel
2	Pin	AISI 316
3	Indicator plate	Aluminium + NBR gasket
4	Indicator bolt, washer	AISI 316
5	Bolt, washer	AISI 316
6	Gear 1	Steel
7	Gear 2	Ductile iron EN GJS-400-15
8	O ring	NBR
9	Bonnet gasket	NBR
10	Internal set screw	Carbon steel
11	External set screw	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

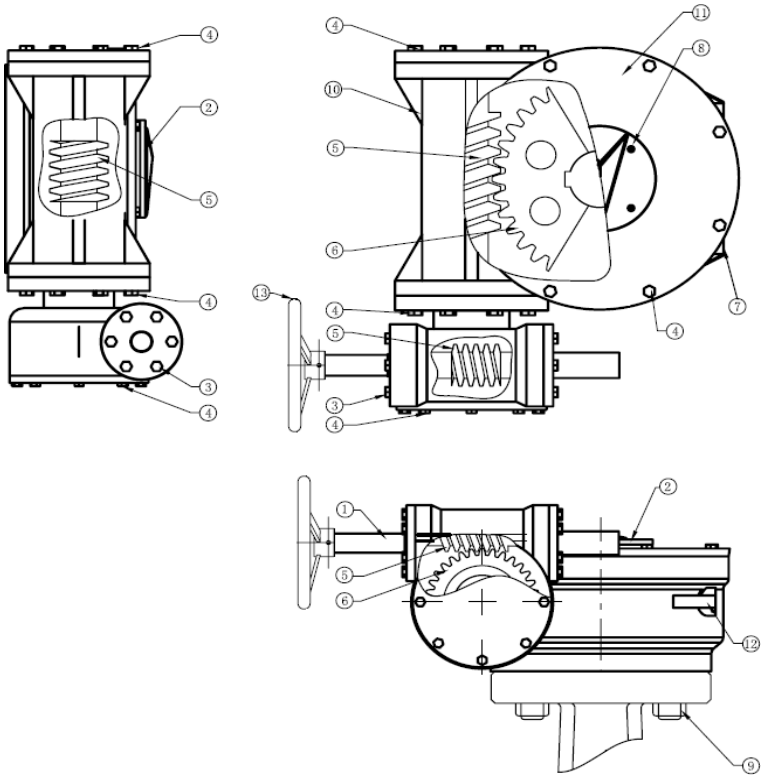
Information provided as an indication and subject to possible modification

DN 500 to DN 600



Item	Designation	Materials
1	Stem	Chromed steel
2	Pin	AISI 316
3	Indicator plate	Aluminium + NBR
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	Acier
13	External set screw	AISI 316
14	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

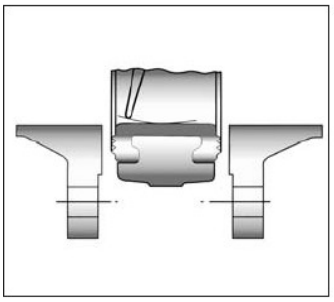
DN 700 to DN 1000



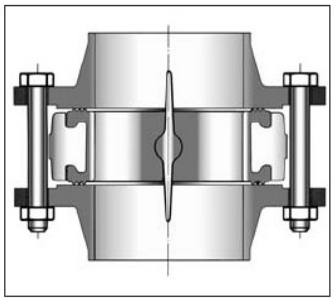
Item	Designation	Materials
1	Stem	Chromed steel
2	Indicator plate	Aluminium
3	Bolting	AISI 316
4	Bolting	AISI 316
5	Gear 1	Steel
6	Gear 2	Ductile iron EN GJS-400-15
7	External set screw	AISI 316
8	Screw	AISI 316
9	Bolting	AISI 304
10	Body	Cast iron EN GJL-250 epoxy coating
11	Bonnet	Cast iron EN GJL-250 epoxy coating
12	Internal set screw	Steel
13	Handwheel	Ductile iron EN GJS-400-15 epoxy coating

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7. Installation instructions



Half open valve introduction



Complete opened disc valves when screw tightening

OPTIONS

We can provide you :

- ✓ Stainless steel levers
- ✓ Chain gearbox
- ✓ Square adaptor for lever wrench (30 x 30 mm)
- ✓ Extensions

See our additionnal technical documentation including:

- ✓ Flow coefficients
- ✓ Pressure loss calculation
- ✓ Pressure/temperature curve (excluding steam)
- ✓ Gearbox specifications including: ratio factor, turn number for closing / opening, input/output torques.

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