TECHNICAL DATA SHEET

References
10AF1E0
10AF1E0R*
10AF0E0R*
(* with gearbox)

CONCENTRIC WAFER BUTTERLY VALVE INITIAL RANGE CAST IRON BODY DUCTILE IRON DISC AND EPDM SEAT - DN32/40 TO DN1000

CERTIFICAT 3.1 sur demande



References	Working pressure	∅ DN																		
		32-40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000
10AF1E0	16 bar	●	●	●	●	●	●	●	●	●	●									
10AF1E0R	16 bar					●	●	●	●	●	●									
10AF0E0R	10 bars											●	●	●	●	●	●	●	●	●

1. Standards

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

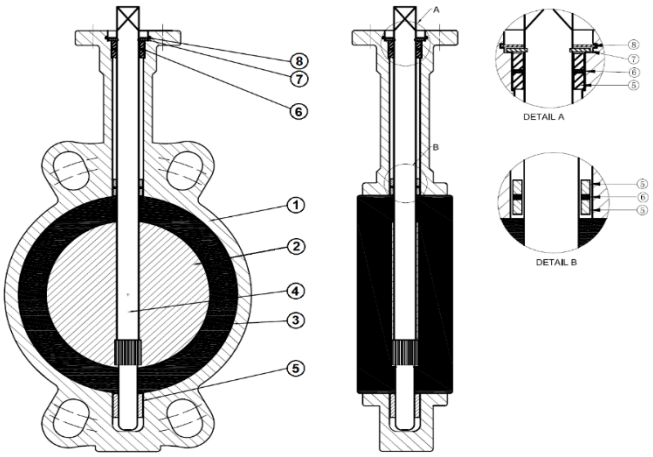
2. Features

Use :	Cold and hot water
Size :	DN32/40 to DN1000
Connection :	Between flanges PN10/16 et Class 150 (PN20) up to DN600, PN10 over
Min temperature :	-15°C
Max temperature :	+110°C (130°C temporarily)
Max pressure :	16 Bars up to DN300, 10 Bars over
Specifications :	Long neck for isolation
Materials	Ductile iron nickeled disc
	Vulcanised EPDM seat
	With 10 positions lever and locking device up to DN150

Information provided as an indication and subject to possible modification

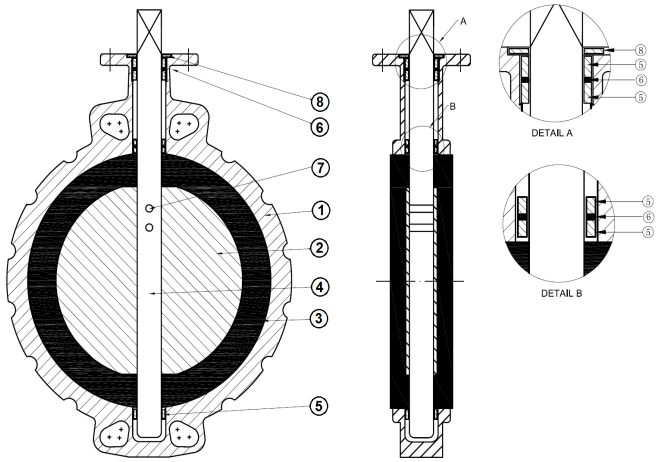
3. Materials

DN 32 to DN 300 :



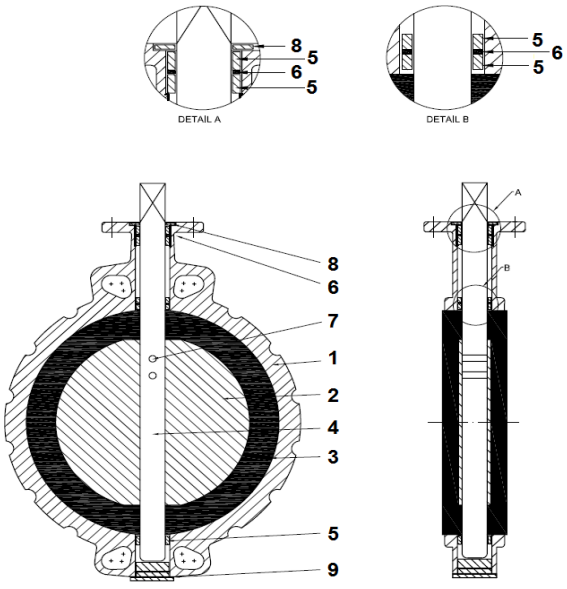
Item	Designation	Materials
1	Body	Cast iron EN GJL-250
2	Disc	Ductile iron nickeled EN GJS-400-15
3	Seat	EPDM
4	Stem	AISI 416
5	Bushing	PTFE
6	O ring	EPDM
7	Circlip	Steel
8	Circlip	Steel
	Lever	Aluminium

DN 350 :



Item	Designation	Materials
1	Body	Cast iron EN GJL-250
2	Disc	Ductile iron nickeled EN GJS-400-15
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 :

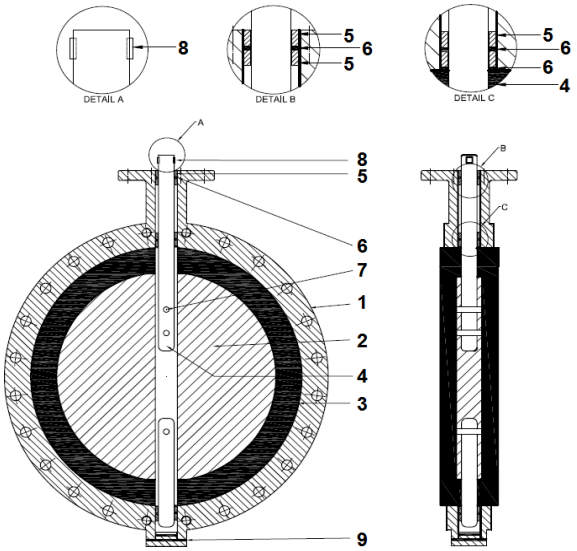


Item	Designation	Materials
1	Body	Cast iron EN GJL-250
2	Disc	Ductile iron nickeled EN GJS-400-15
3	Seat	EPDM
4	Stem	AISI 431
5	Bushing	PTFE
6	O ring	EPDM
7	Pin	AISI 316
8	Gasket	EPDM
9	Gasket	EPDM

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CONCENTRIC WAFER BUTTERLY VALVE INITIAL RANGE CAST IRON BODY DUCTILE IRON DISC AND EPDM SEAT - DN32/40 TO DN1000

DN 700 to DN 1000 :

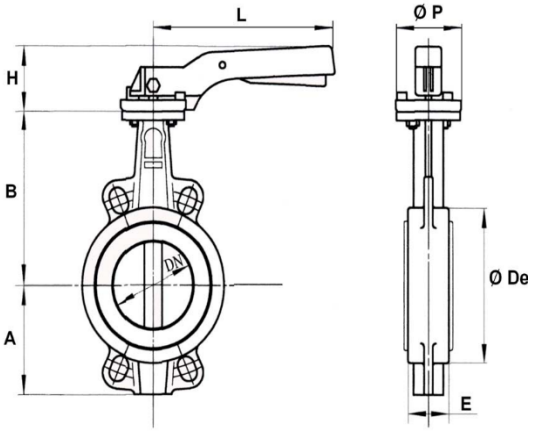


Item	Designation	Materials
1	Body	Ductile iron EN GJS-400-15
2	Disc	Ductile iron nickeled EN GJS-400-15
3	Seat	EPDM
4	Stem	AISI 431
5	Bushing	Aluminium + Bronze
6	O ring	EPDM
7	Pin	AISI 316
8	Pin	SQ 719
9	Gasket	EPDM

4. Valve sizes (mm)

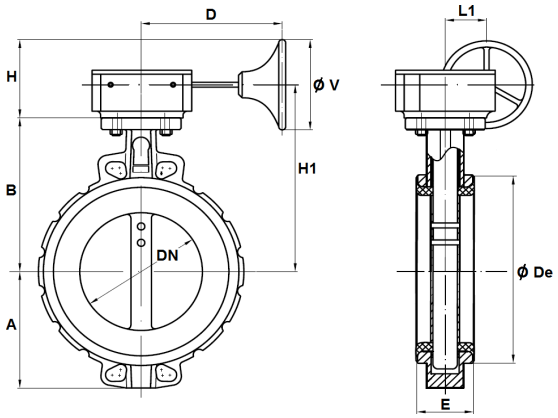
DN 32/40 to DN 300 (10AF1E0)*

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



** Gearbox available from DN100 (10AF1E0R)*

DN 350 (10AF0E0R)



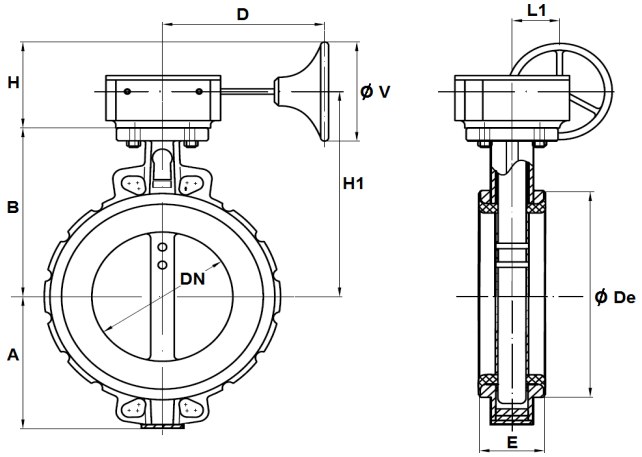
DN	A	B	D	Ø De	E	H	H1	L1	Ø V	Weight (Kg)
350	260	334	223	418	78	190	379	78	300	54,5

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CONCENTRIC WAFER BUTTERLY VALVE INITIAL RANGE CAST IRON BODY DUCTILE IRON DISC AND EPDM SEAT - DN32/40 TO DN1000

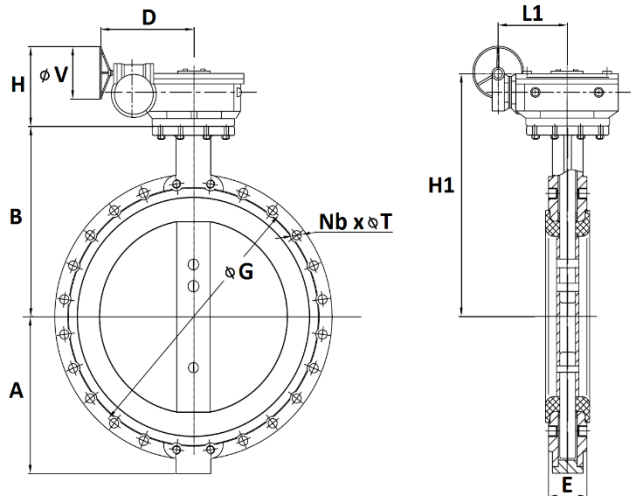
DN 400 to DN 600 (10AF0E0R)

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)	89.85	107.4	155.8	231.1



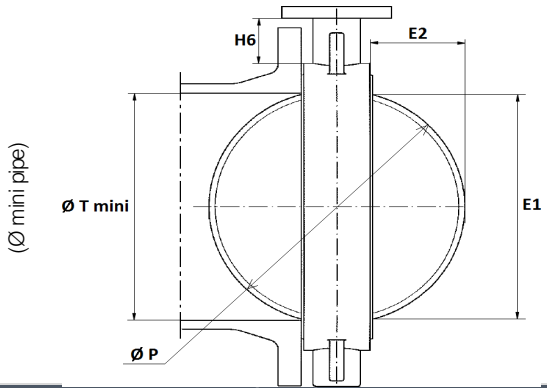
DN 700 to DN 1000 (10AF0E0R)

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	456	831	982



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

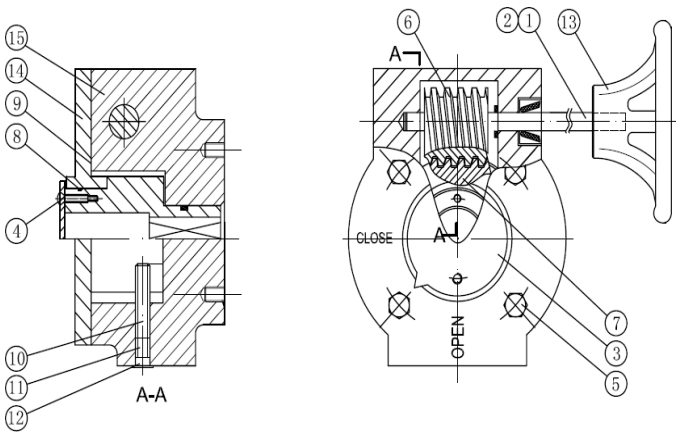


DN	700	800	900	1000
Ø T mini	694	795	865	964

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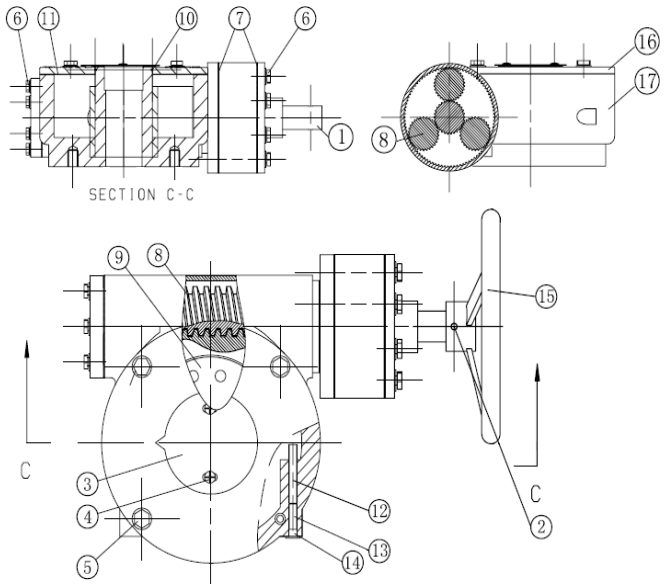
6. Gearbox materials and size

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

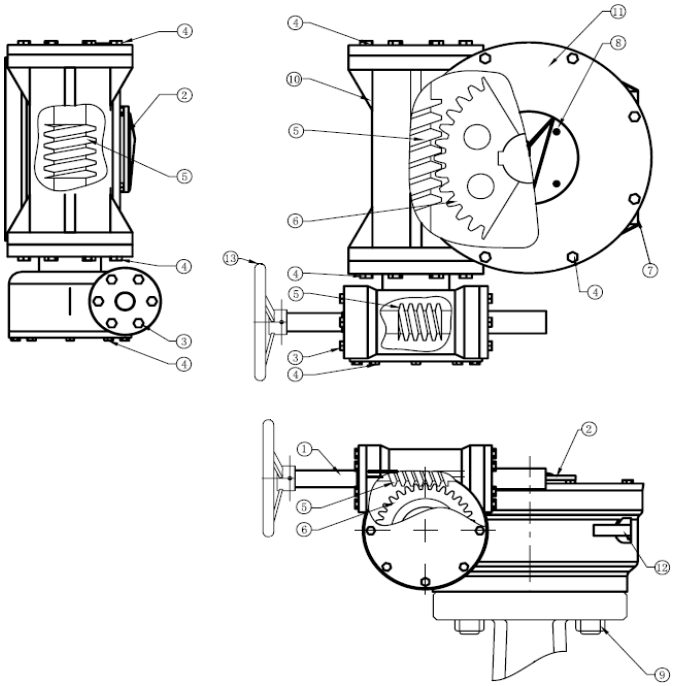
DN 500 to DN 600



Item	Designation	Materials
1	Stem	Chromed steel
2	Pin	AISI 316
3	Indicator plate	Aluminium + NBR
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

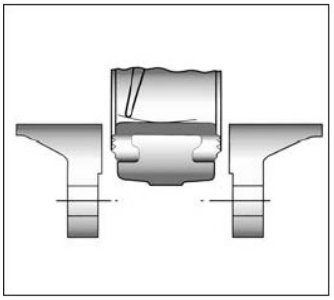
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DN 700 to DN 1000

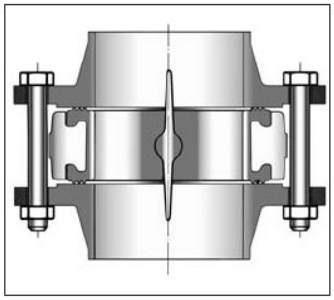


Item	Designation	Materials
1	Stem	Chromed steel
2	Indicator plate	Aluminium
3	Bolting	AISI 316
4	Bolting	AISI 316
5	Gear 1	Steel
6	Gear 2	Ductile iron EN GJS-400-15
7	External set screw	AISI 316
8	Screw	AISI 316
9	Bolting	AISI 304
10	Body	Cast iron EN GJL-250 epoxy coating
11	Bonnet	Cast iron EN GJL-250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

7. Installation instructions



Half open valve introduction



Complete opened disc valves when screw tightening

See our additional 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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