

Gemini Valve B.V.

Zijperstraat 29, 1823CX Alkmaar, Netherlands
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GV1123



CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY STAINLESS STEEL DISC AND EPDM SEAT

Wafer butterfly valve initial range for cold and hot water, sea water, demineralized water, alcohol, milk of lime, mercury, alcalins, hydroxid of soda.

Cast iron EN GJL-250 or ductile iron EN-GJS-400-15 body, stainless steel disc and EPDM seat.

Between flanges PN6, PN10, PN16, Class 150 or JIS10K according to DN. 5 years of warranty.

Handling possible with gearbox.

Thanks to the ISO 5211 plate, an actuator can be installed on the valve.



Certificate
3.1



*Painting color is actually
changing for RAL5005*



New painting



Old painting

Size : DN32/40 to DN1200

Connection : Between flanges PN6, PN10/16, Class 150 or JIS10K*

Min Temperature : -15°C

Max Temperature : +110°C (130°C temporarily)

Max Pressure : 16 Bars up to DN300

Specifications : Long neck for isolation
Stainless steel disc
Vulcanised EPDM seat
ISO 5211 mounting pad

Materials : Cast iron body EN GJL-250 or EN GJS-400-15

CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY STAINLESS STEEL DISC AND EPDM SEAT

SPECIFICATIONS :

- Long neck for isolation
- ISO 5211 mounting pad
- Wafer type
- Between flanges PN6 from DN40 to 150, PN10/16 from DN32 to 600, Class 150 (PN20) from DN40 to 350 and from DN450 to 600
- Between flanges JIS10K from DN40 to 300
- Between flanges PN10 from DN 700 to DN1200
- Full crossing stem up to DN600
- With 10 positions lever and locking device up to DN150
- Double PTFE seal on stem up to DN600
- Stainless steel disc
- Epoxy painting RAL003 80 microns thickness, **painting color is actually changing for RAL5005**
- **Modification in progress for body material for ductile iron EN GJS-400-15 (EN-JS1030)**
- Vulcanised EPDM seat

USE :

- Cold and hot water, sea water, demineralized water, alcohol, milk of lime, mercury, alcalins, hydroxid of soda
- Min and max Temperature Ts : - 15°C to + 110°C (130°C temporarily)
- Max Pressure Ps : 16 bars up to DN300 , 10 bars over

FLOW COEFFICIENT Kv (M3 / h) :

DN		32/40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
Opening angle	10°	0,04	0,05	0,09	0,17	0,26	0,43	0,68	1,7	2,6	3,4	5,1	6,8	9,4	11,9	18,8
	20°	2	3	5	8	15	25	38	76	129	200	288	396	525	675	1042
	30°	5	6	10	15	31	52	81	160	273	422	610	839	1101	1428	2207
	40°	10	13	21	33	67	113	175	348	592	914	1321	1817	2407	3095	4781
	50°	18	23	38	60	119	202	312	620	1055	1630	2355	3239	4289	5515	8521
	60°	30	38	64	99	196	334	516	1025	1746	2697	3897	5359	7097	9125	14098
	70°	48	60	102	156	310	529	817	1623	2764	4269	6167	8481	11232	14442	22312
	80°	72	90	152	235	466	793	1226	2434	4145	6403	9250	12720	16848	21662	33468
	90°	78	98	167	258	512	872	1347	2675	4555	7037	10165	13799	18514	23805	36778

DN		700	800	900	1000	1200
Opening angle	10°	31	39	52	72	104
	20°	1568	2064	2612	3617	5172
	30°	3147	4143	5243	7260	10379
	40°	5739	7555	9561	13238	18932
	50°	8648	11925	15091	20894	29879
	60°	12929	17827	22561	31279	44730
	70°	19692	27153	34362	47641	68126
	80°	30182	41615	52667	73017	104415
	90°	42811	59028	57406	103569	148105

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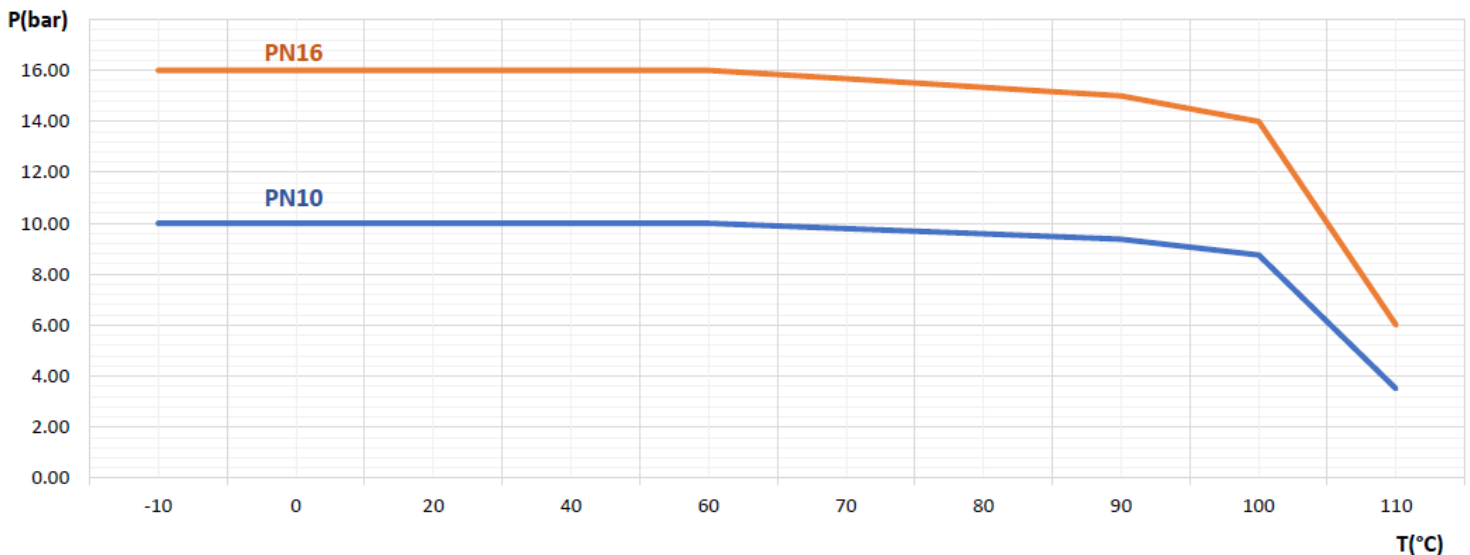
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TORQUE VALUE (Nm, without safety coefficient) :

We recommend a safety coefficient of 30% minimum to determinate the actuator.

DN	32/40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
PN10	9	12	19	25	38	58	85	159	253	369	428	671	1001	1220	2221	4417	5816	7097	12050	16950
PN16	10	13	21	26	42	65	95	175	277	536	-	-	-	-	-	-	-	-	-	-

PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED) :



RANGE :

- Wafer butterfly valve with lever from DN32/40 to DN300
- Wafer butterfly valve with gearbox IP54 from DN350 to DN500
- Gearbox IP54 possible from DN32/40 to DN400 **Ref.1198001 to 1198007**
- Gearbox IP67 possible from DN32/40 to DN500 **Ref.1198301 to 1198310**
- Chain gearbox IP54 possible from DN32/40 to DN300 **Ref.1198201 to 1198206 (without chain)**
- Galvanized carbon steel chain for chain gearbox initial range **Ref.1198200 (per meter)**

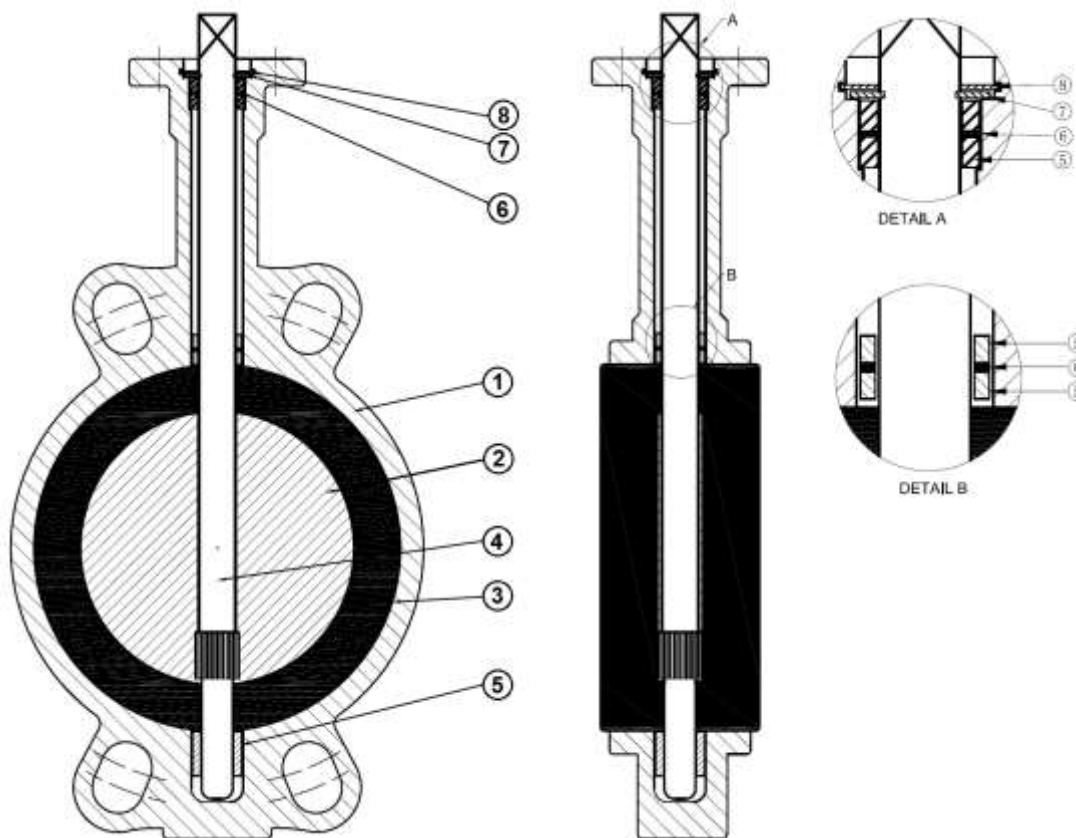


CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY STAINLESS STEEL DISC AND EPDM SEAT

CONNECTION :

- Between flanges PN6 from DN40 to DN150
- Between flanges PN10/16 from DN32 to DN600
- Between flanges Class 150 (PN20) from DN40 to DN350 and from DN450 to DN600
- Between flanges JIS10K from DN40 to DN300
- Between flanges PN10 from DN700 to DN1200

MATERIALS DN 32/40 – 300 :



Item	Designation	Materials
1	Body	Cast iron EN GJL-250 or ductile iron EN-JS1030 (EN GJS-400-15)
2	Disc	ASTM A351 CF8M
3	Seat	EPDM
4	Stem	AISI 420
5	Bushing	PTFE
6	O ring	EPDM
7	Circlip	Steel
8	Circlip	Steel
	Lever	Aluminium

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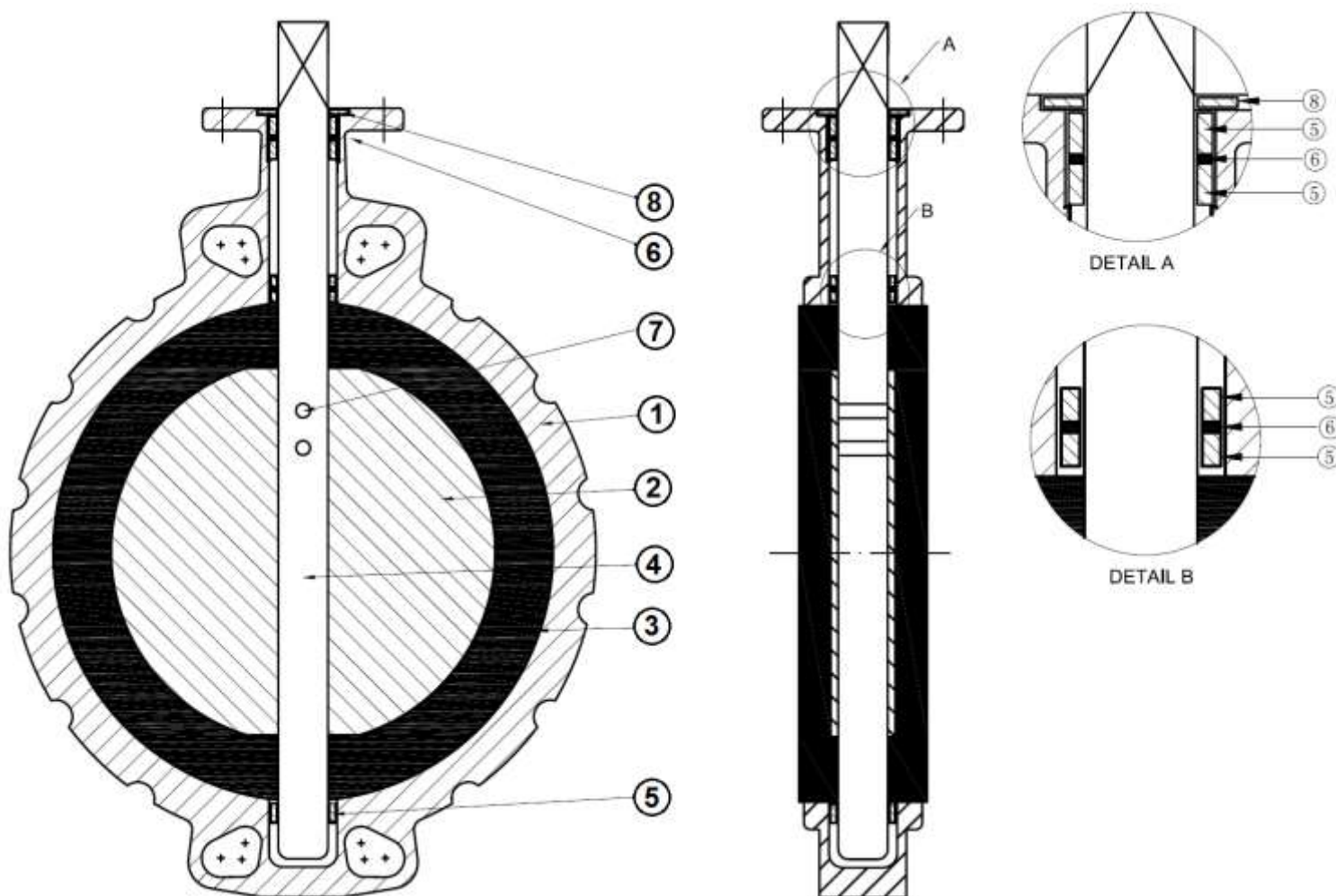
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CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY STAINLESS STEEL DISC AND EPDM SEAT

MATERIALS DN 350 :



Item	Designation	Materials
1	Body	Cast iron EN GJL-250 or ductile iron EN-JS1030 (EN GJS-400-15)
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

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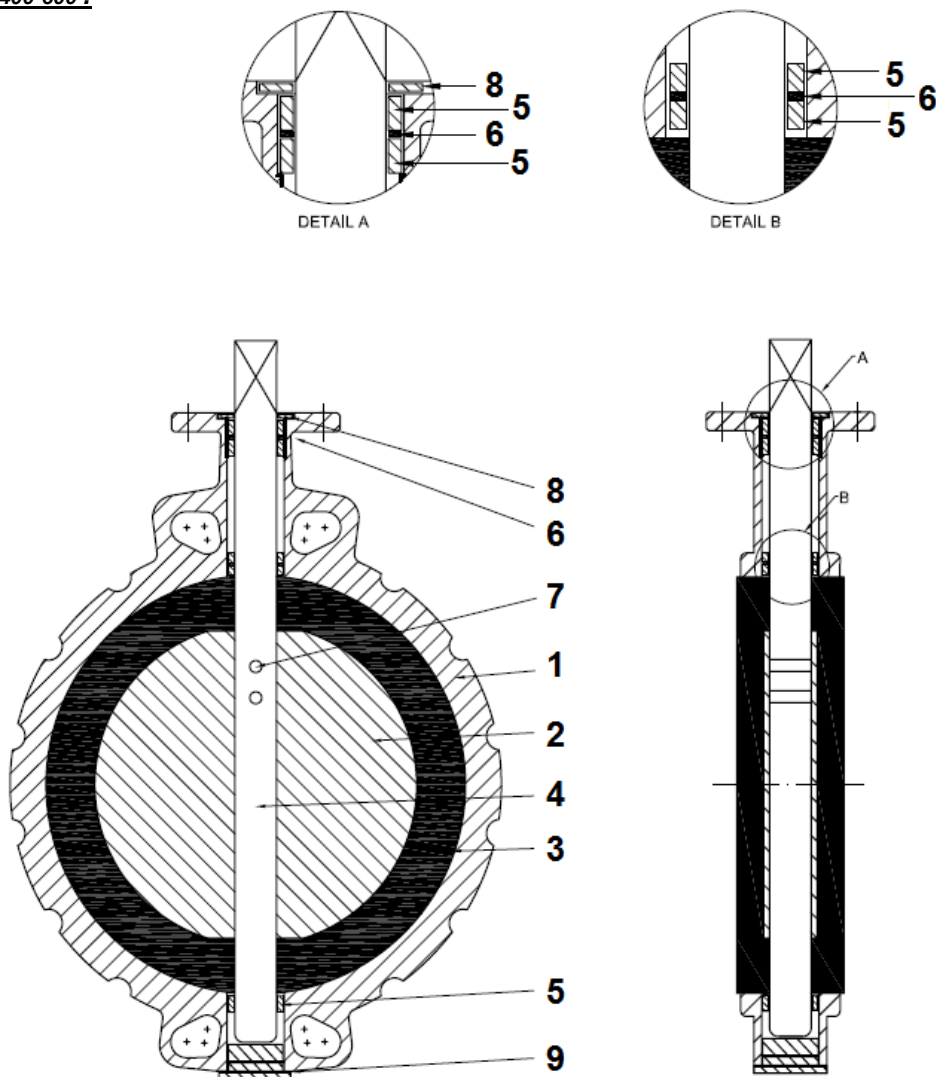
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CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY STAINLESS STEEL DISC AND EPDM SEAT

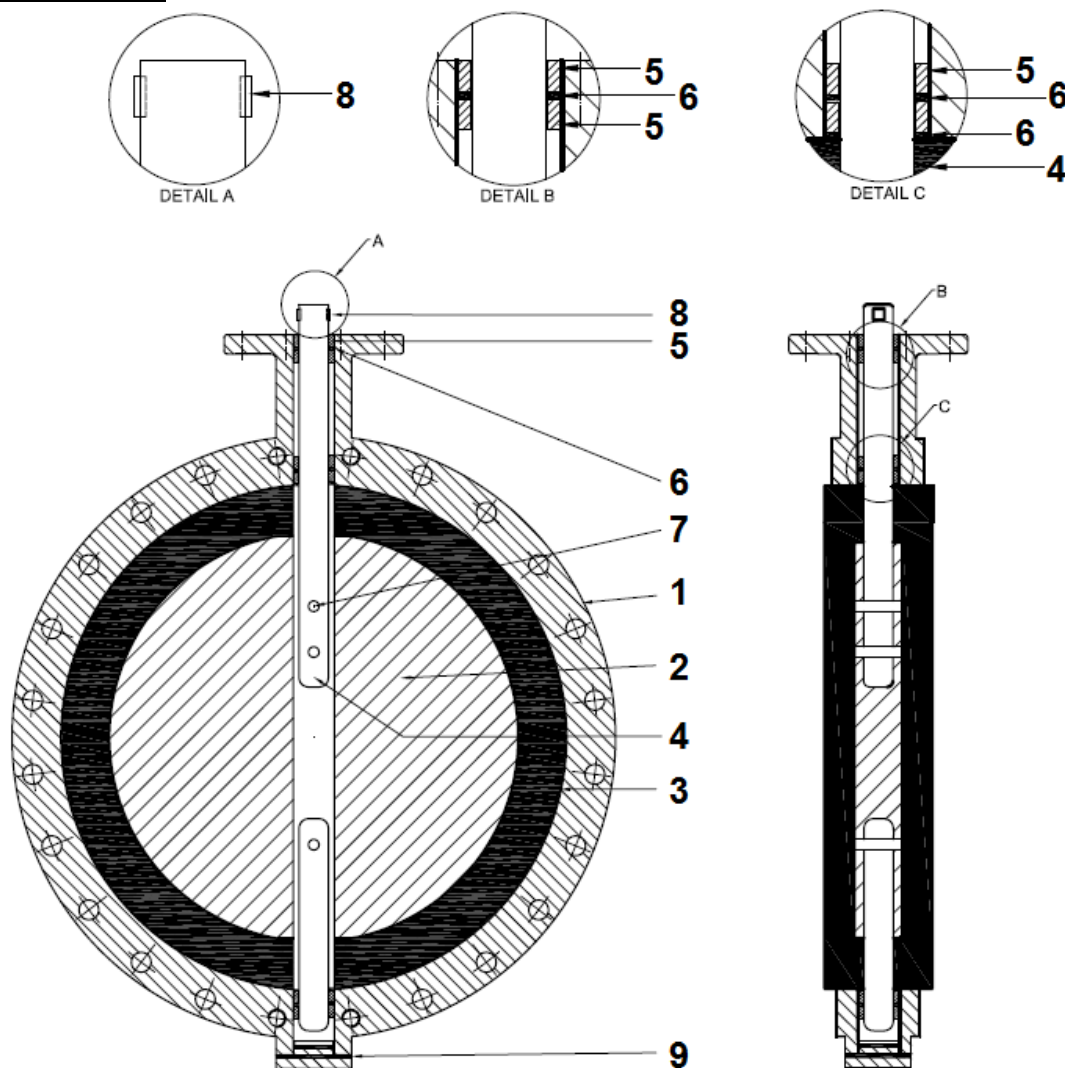
MATERIALS DN 400-600 :



Item	Designation	Materials
1	Body	Cast iron EN GJL-250 or ductile iron EN-JS1030 (EN GJS-400-15)
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		

CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY STAINLESS STEEL DISC AND EPDM SEAT

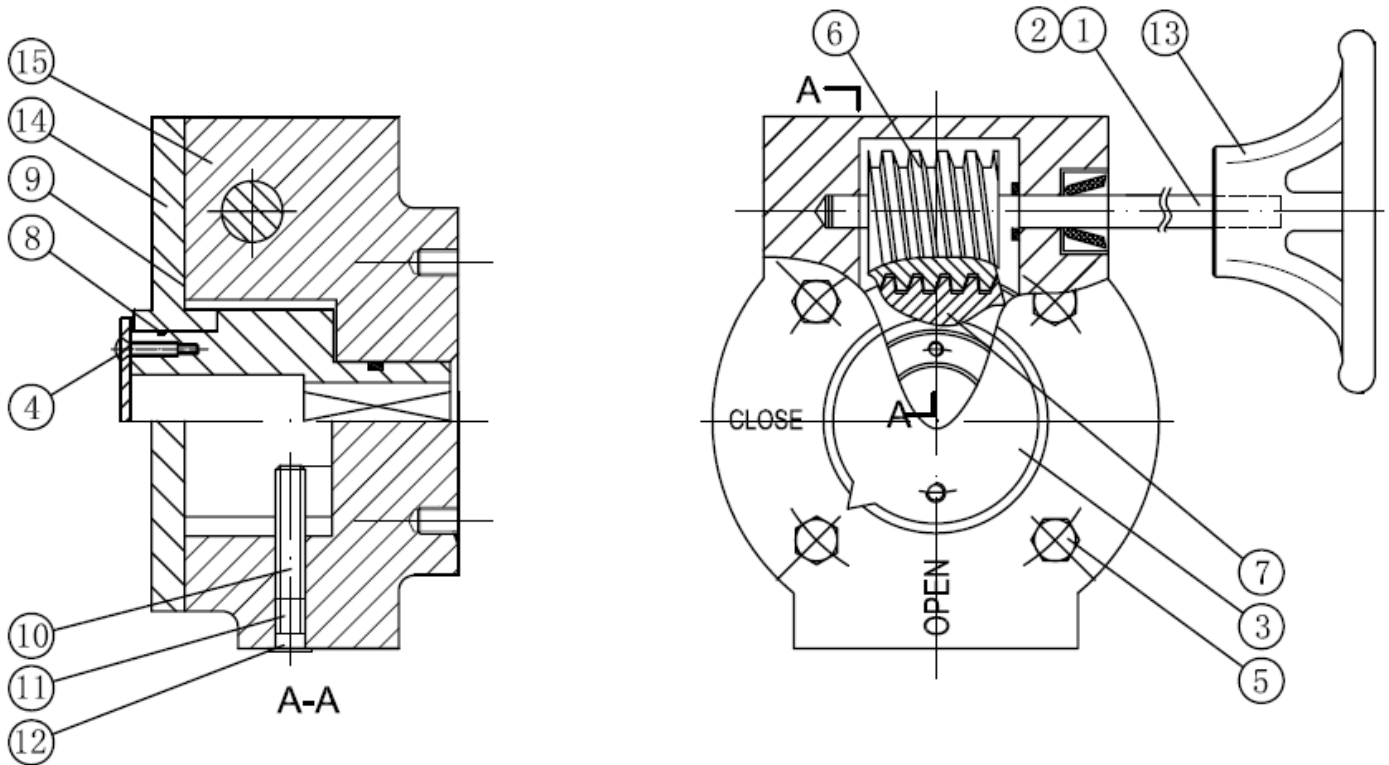
MATERIALS DN 700 – 1200 :



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

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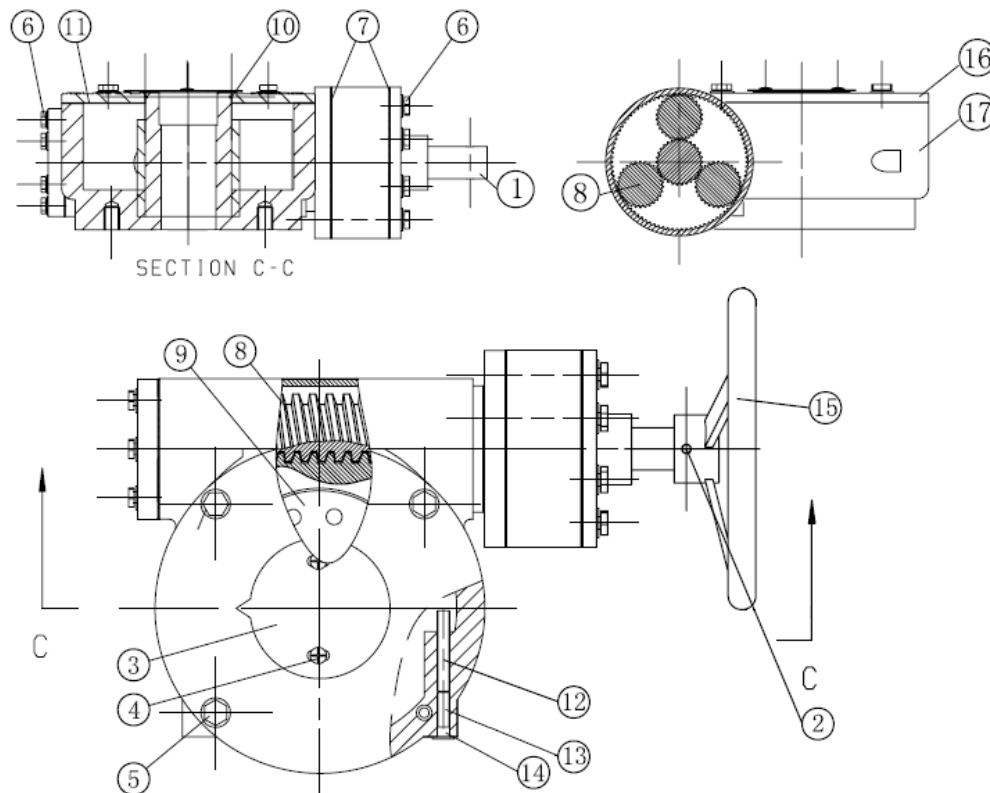
MATERIALS GEARBOX DN40-450 :



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

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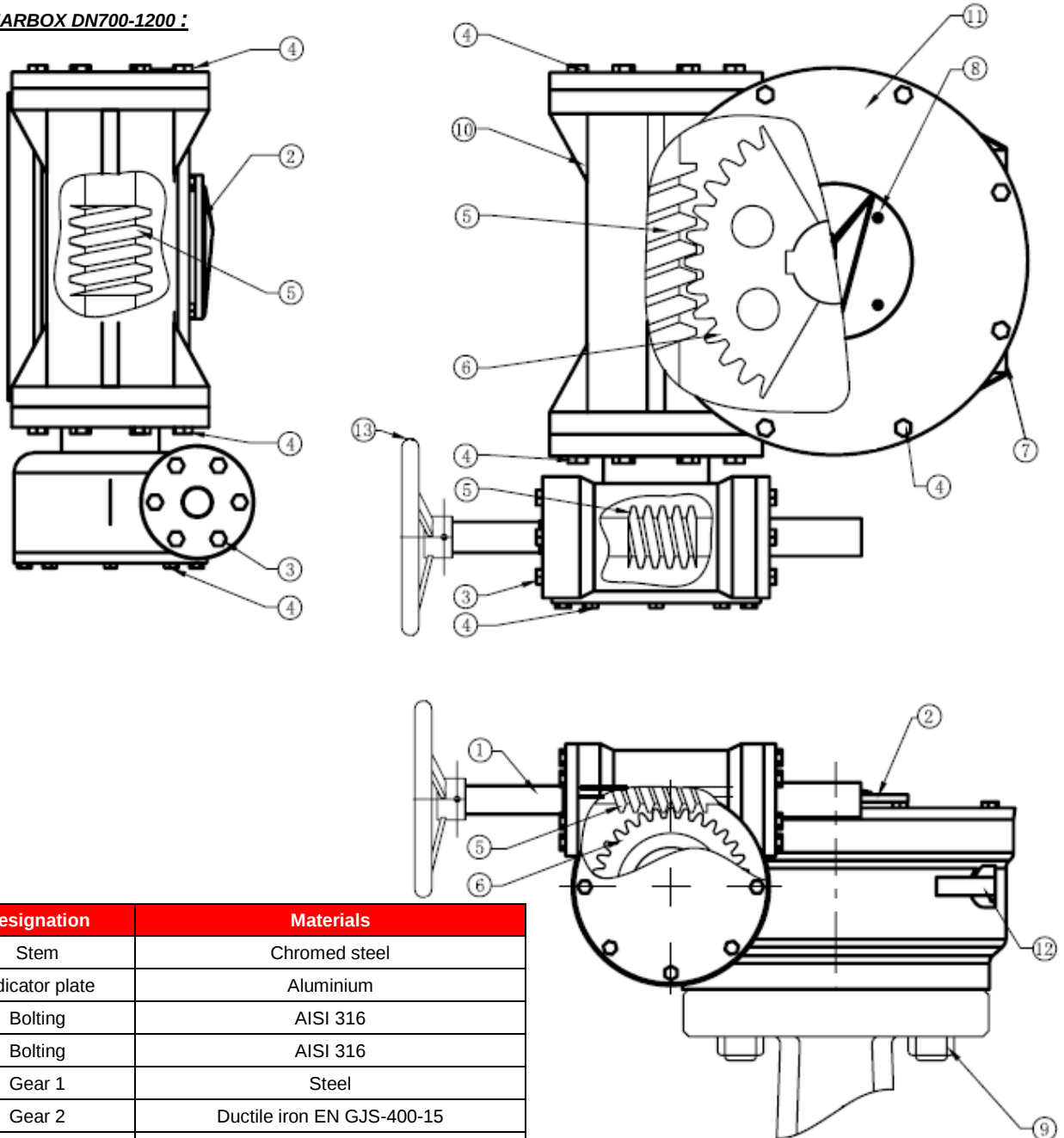
MATERIALS GEARBOX DN500-600 :



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

CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY STAINLESS STEEL DISC AND EPDM SEAT

MATERIALS GEARBOX DN700-1200 :



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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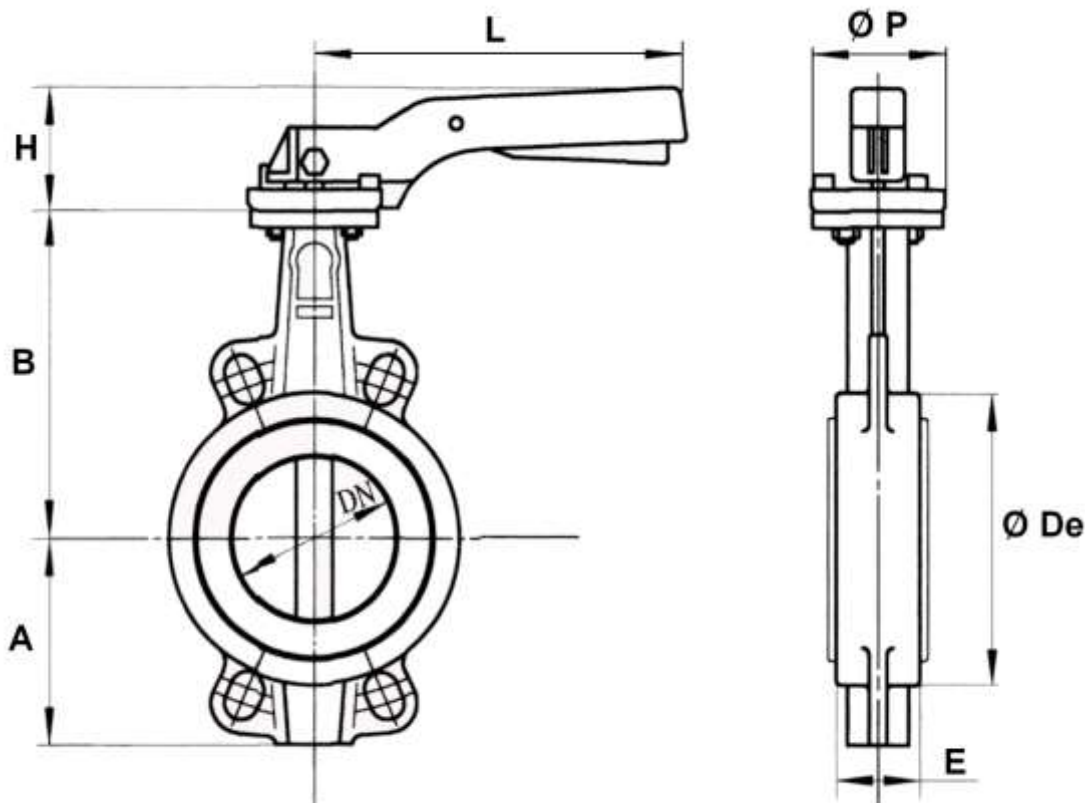
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CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY STAINLESS STEEL DISC AND EPDM SEAT

VALVES SIZE (in mm) :

- VALVES WITH LEVER DN 32/40 - 300 :**

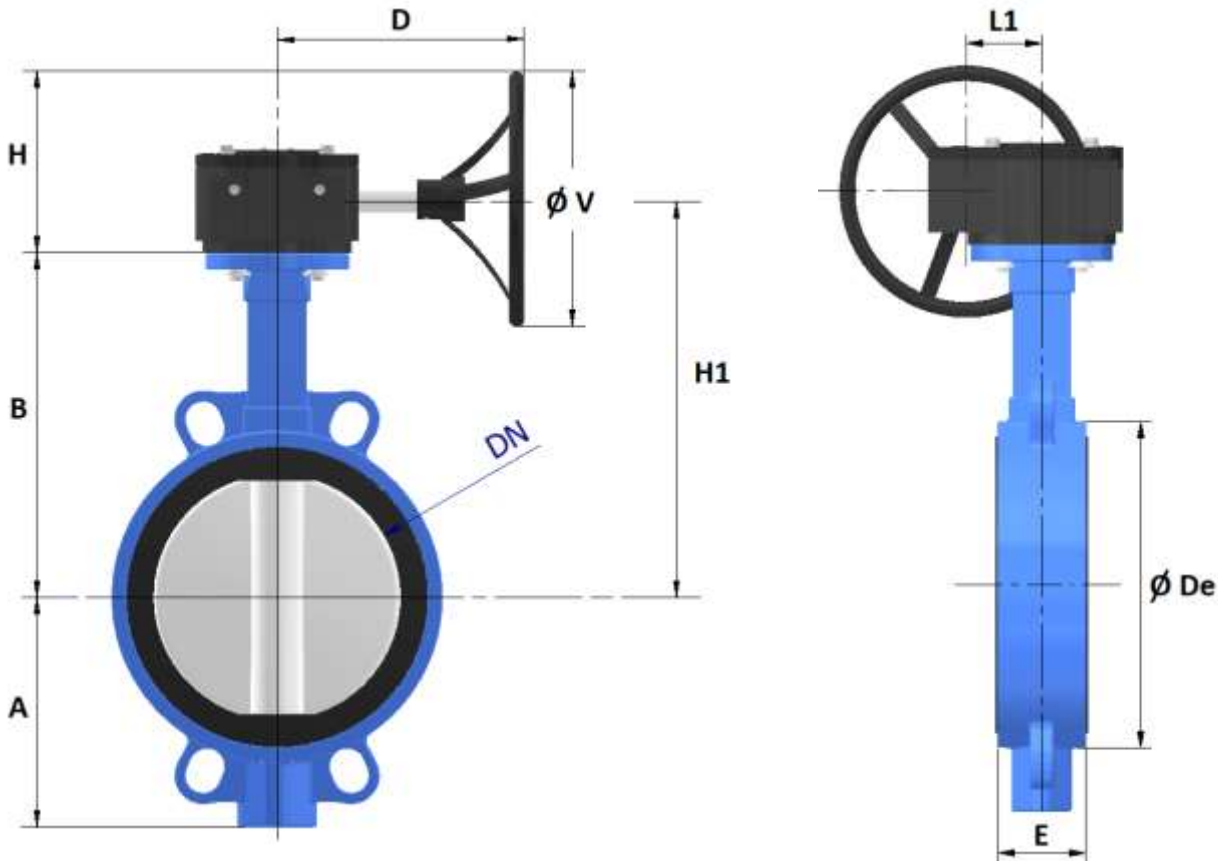


DN	32/40	50	65	80	100	125	150	200	250	300
A	61	77	87,5	95	107	121,5	144	171	205	235
B	130	136,5	142	158	180	192	215	242	280	310
Ø De	82	95	109	121	152	180	207	260	315	370
E	33	43	46	46	52	56	56	60	68	78
H	70	70	70	70	70	71	71	40	44	44
L	195	195	195	195	195	278	278	355	507	507
Ø P	65	65	65	65	65	90	90	125	150	150
Weig. (Kg)	1.85	2.53	2.86	3.16	4.21	6.67	7.66	14.67	23.4	33.8
Ref.	1123040	1123050	1123065	1123080	1123100	1123125	1123150	1123200	1123250	1123300

CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY STAINLESS STEEL DISC AND EPDM SEAT

VALVES SIZE (in mm) :

- VALVES WITH GEARBOX DN 32/40 - 300 :



DN	32/40	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
D	162							224		223
Ø De	82	95	109	121	152	180	207	260	315	370
E	33	43	46	46	52	56	56	60	68	78
H	112					162		191		192
H1	167	174	179	195	217	229	252	283	321	352
L1	44							66		77
Ø V	150					250		300		
Weig. (Kg)	5.36	6.04	6.37	6.67	8.43	10.2	11.19	21.66	30.82	43.4
Ref.					1123102	1123127	1123152	1123202	1123252	1123302

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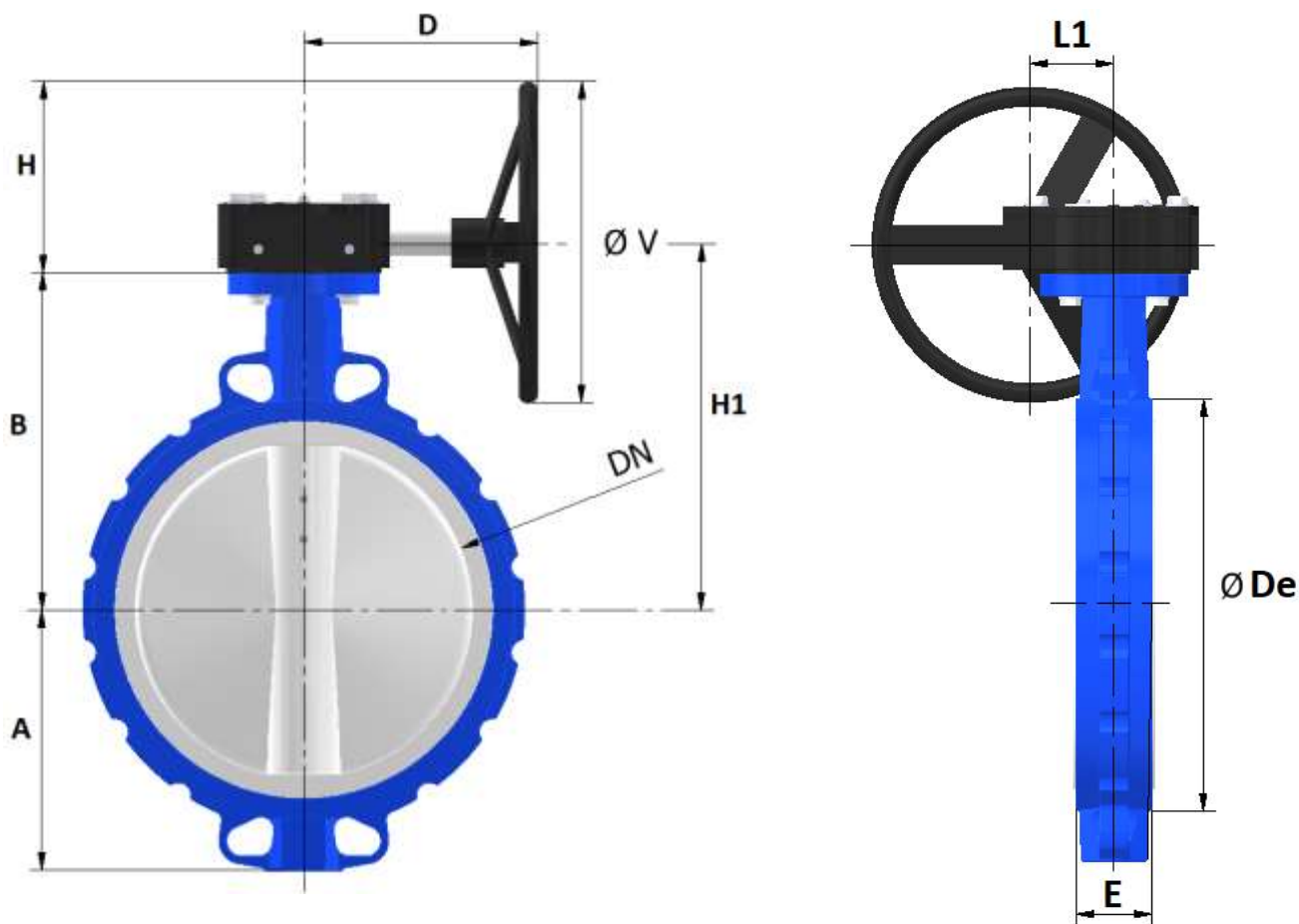
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**CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY
STAINLESS STEEL DISC AND EPDM SEAT****VALVES SIZE (in mm) :**

- VALVES WITH GEARBOX DN 350 :**



DN	350
A	260
B	334
D	223
Ø De	418
E	78
H	192
H1	376
L1	77
Ø V	300
Weight (Kg)	54.5
Ref.	1123350

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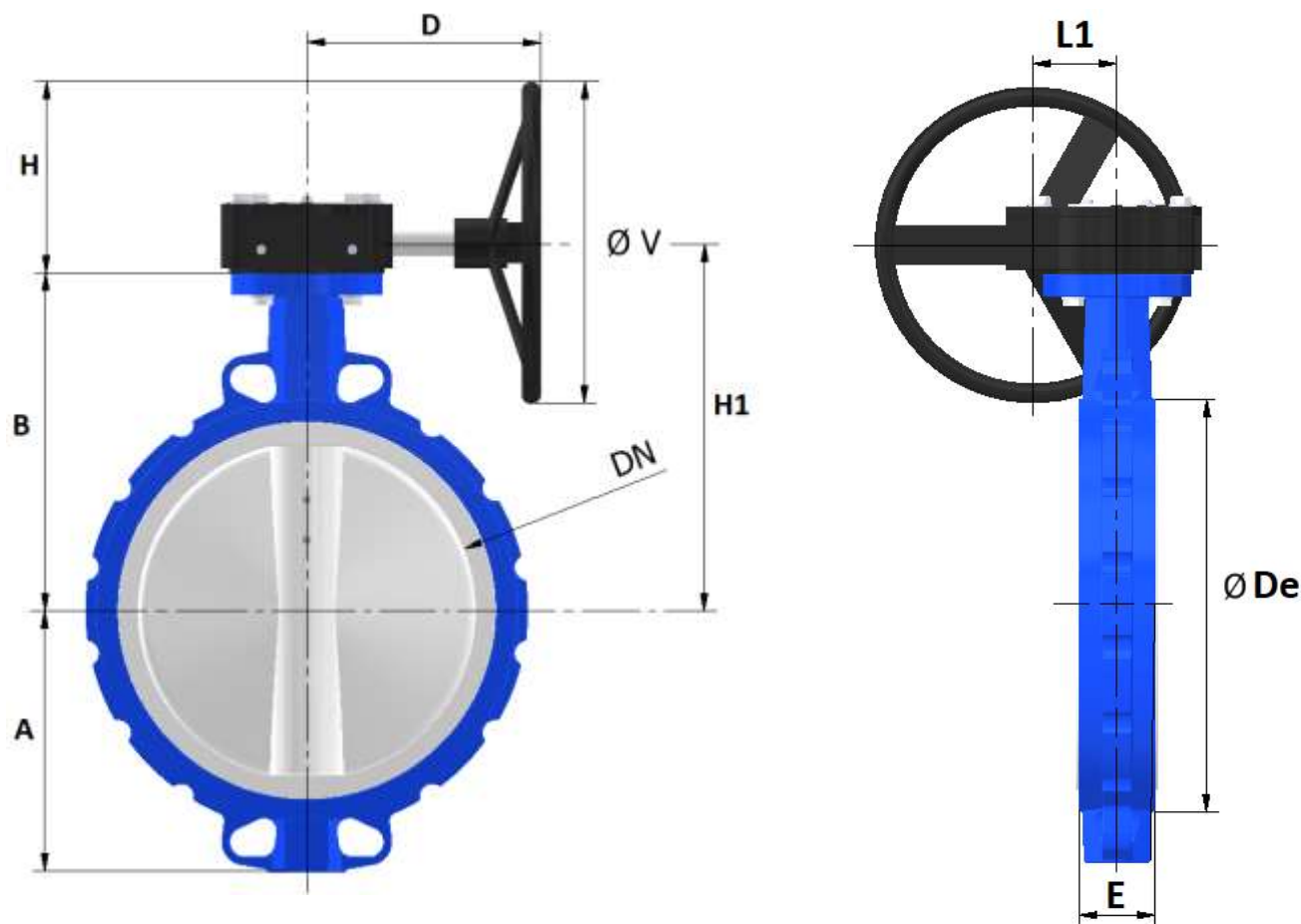
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CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY STAINLESS STEEL DISC AND EPDM SEAT

VALVES SIZE (in mm) :

- VALVES WITH GEARBOX DN 400 - 600 :**



DN	400	450	500	600
A	307	339	368	459
B	361	401	480	565
D	270	273	332	351
Ø De	470	525	570	697
E	102	114	127	154
H	253	251	225	221
H1	422	460	555	636
L1	126	122	116	122
Ø V	383	383	300	300
Weight (Kg)	77.4	107.4	155.8	231.1
Ref.	1123400	1123450	1123500	1123600

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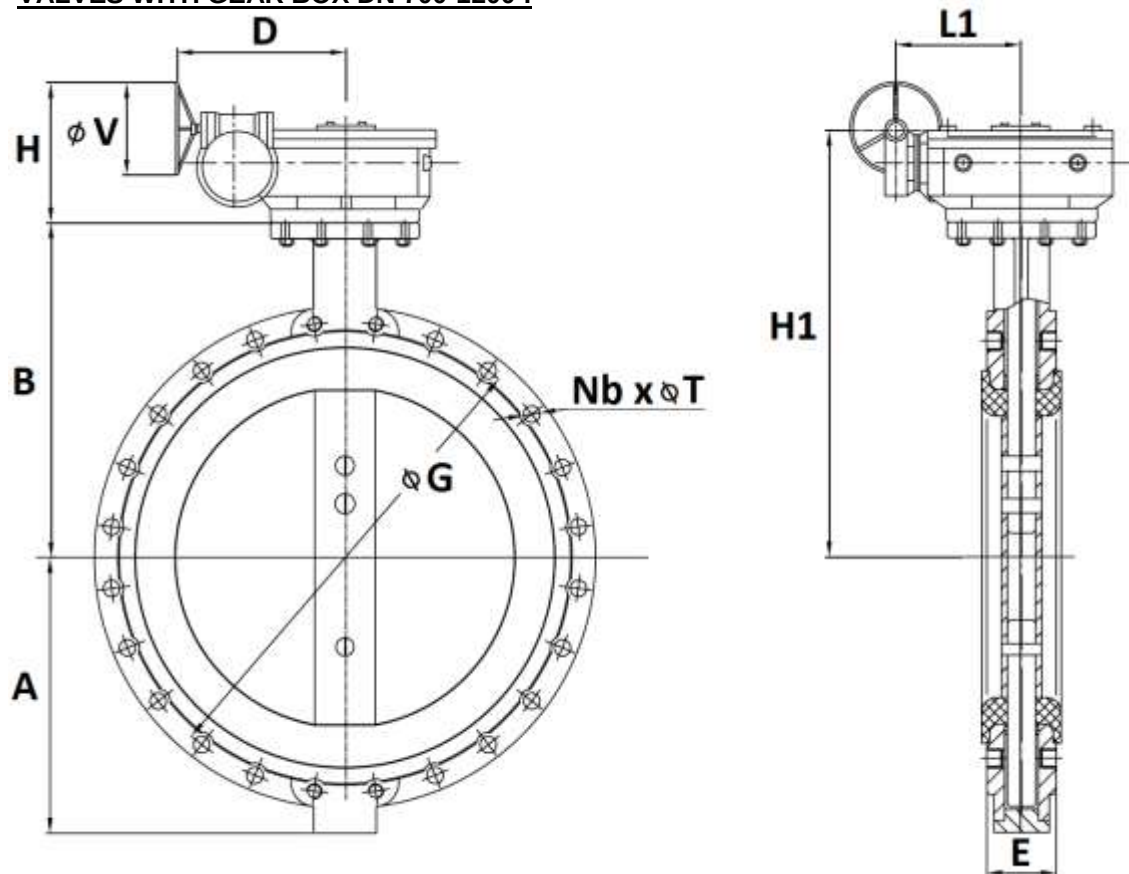
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CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY STAINLESS STEEL DISC AND EPDM SEAT

VALVES SIZE (in mm) :

- VALVES WITH GEAR BOX DN 700-1200 :**



DN	700	800	900	1000	1200
A	520	591	656	721	860
B	624	672	720	800	941
D	355	355	377.5	377.5	476
E	163	188	203	216	276
H	357	357	370	370	434
H1	781	829	890	970	1150
L1	228	228	243	243	302
Ø V	400	400	400	400	450
Ø G	840	950	1050	1160	1380
Nb x Ø T	24 x Ø31	24 x Ø34	28 x Ø34	28 x Ø37	32 x Ø40
Weight (Kg)	372	428	831	982	1510
Ref.	1123700	1123800	1123900	1123990	

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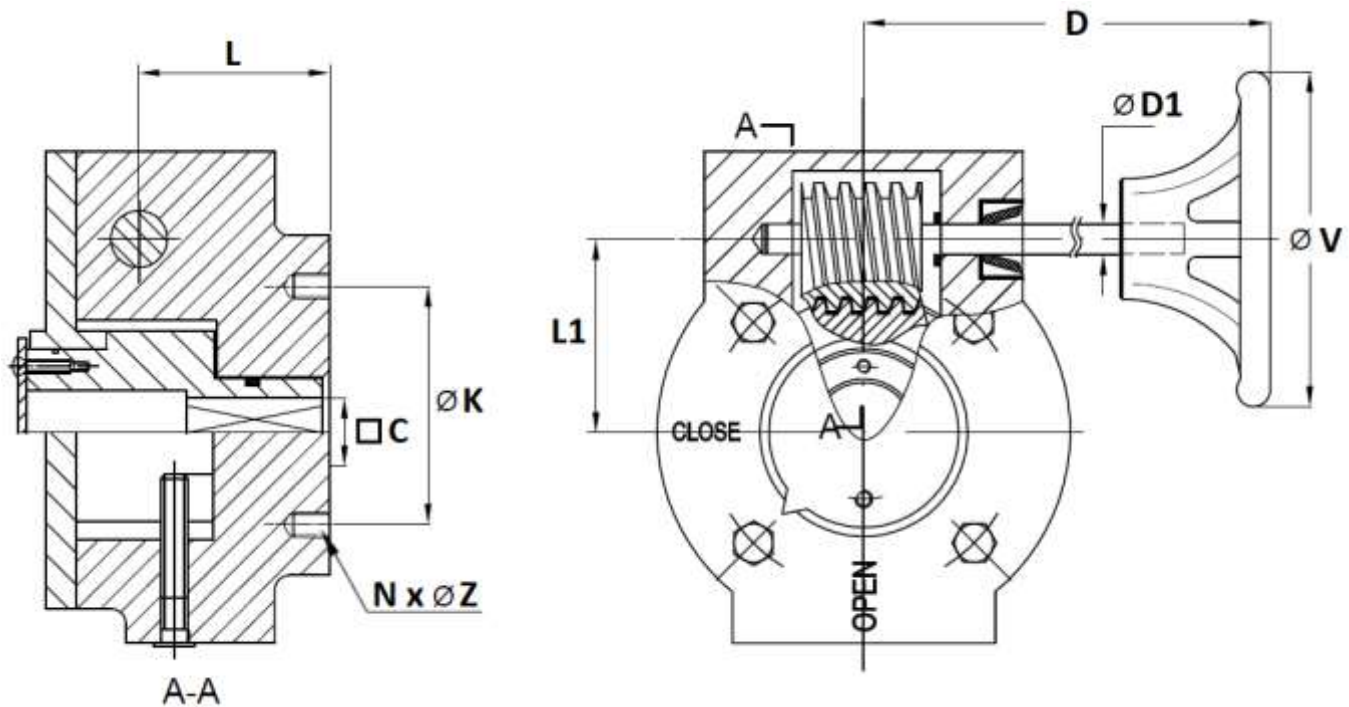
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CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY STAINLESS STEEL DISC AND EPDM SEAT

GEAR BOX SIZE DN32/40-350 (in mm) :



DN	32/80	100	125/150	200	250	300-350
C	9	11	14	17	22	27
Ø K	50	50	70	102	125	125
ISO	F05	F05	F07	F10	F12	F12
N x ØZ	4 x M6	4 x M6	4 x M8	4 x M10	4 x M12	4 x M12
L	37			41		42
D	162			224		223
L1	44			66		77
Ø D1	16			19		
Ø V	150		250	300		
Weight (kg)	3.51	4.22	3.53	6.99	7.42	9.6
Ref.	1198001	1198002	1198003	1198004	1198005	1198006

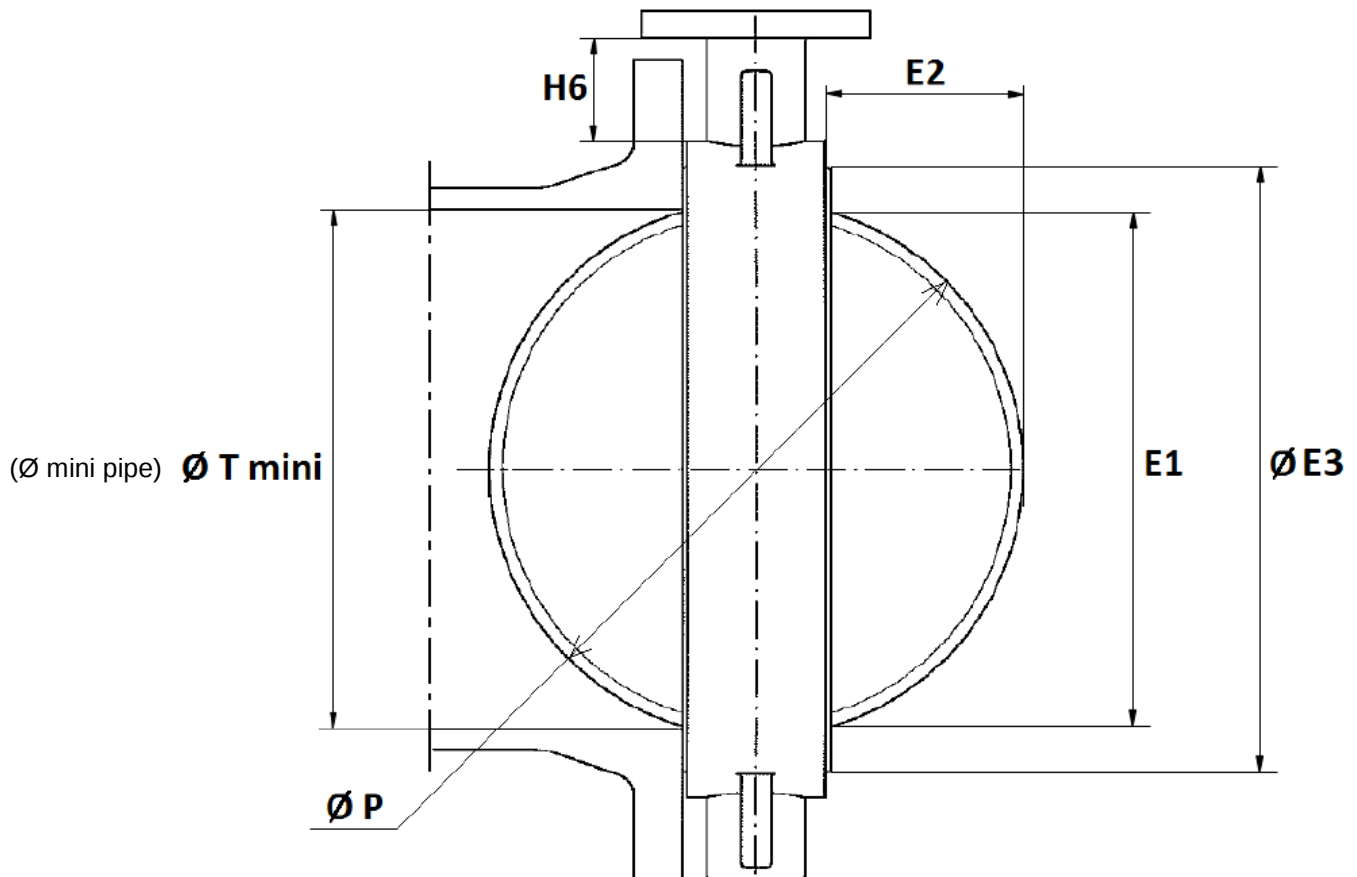
Sferaco 90 rue du Ruisseau 38297 St Quentin Fallavier Tel: + 33 (0) 474.94.15.90 Fax: + 33 (0) 474.95.62.08 Internet: www.sferaco.com E-mail: info@sferaco.fr

Date : 09/24

Rev.16

CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY STAINLESS STEEL DISC AND EPDM SEAT

DISC AND NECK SIZE (in mm) :

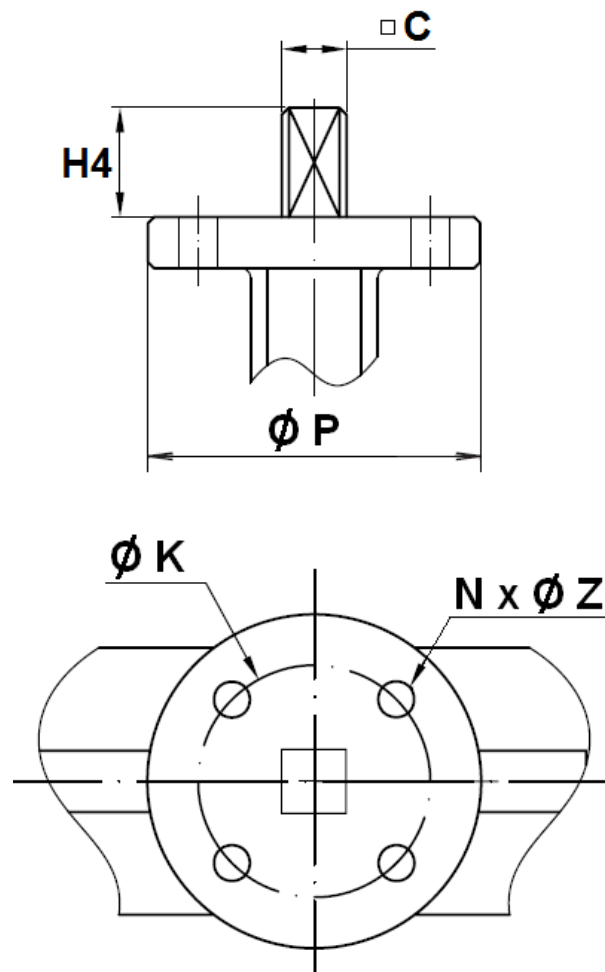


DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
E1	37.7	47.06	59.81	75.56	98.37	117.02	147.65	195.3	242.5	292.6	325.4	379.8	429	480.2	580.5
E2	4.9	5	9.4	16.5	26.1	33.9	49.7	71.2	91.2	111.8	127.8	143.9	163.3	182.3	219.3
Ø E3 ±2	70	76	90	104	135	159	188	238	292	344	375	439	490	535	654
H6 ±2	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 E3 ±2	744	850	947	1053	

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ISO MOUNTING PAD SIZE (in mm) DN 32 – 600 :



DN	32/40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
C	9	9	9	9	11	14	14	17	22	27	27	27	30	36	46
$\varnothing K$	50	50	50	50	50	70	70	102	125	125	125	125	165	165	165
ISO	F05	F05	F05	F05	F05	F07	F07	F10	F12	F12	F12	F12	F16	F16	F16
Nx $\varnothing Z$	4 x 7	4 x 7	4 x 7	4 x 7	4 x 7	4 x 9	4 x 9	4 x 11	4 x 13	4 x 13	4 x 14	4 x 14	4 x 22	4 x 22	4 x 22
H4	32	32	32	32	32	42	42	36	38	38	45	50	50	65	70
$\varnothing P$	65	65	65	65	65	90	90	125	150	150	150	150	210	210	300

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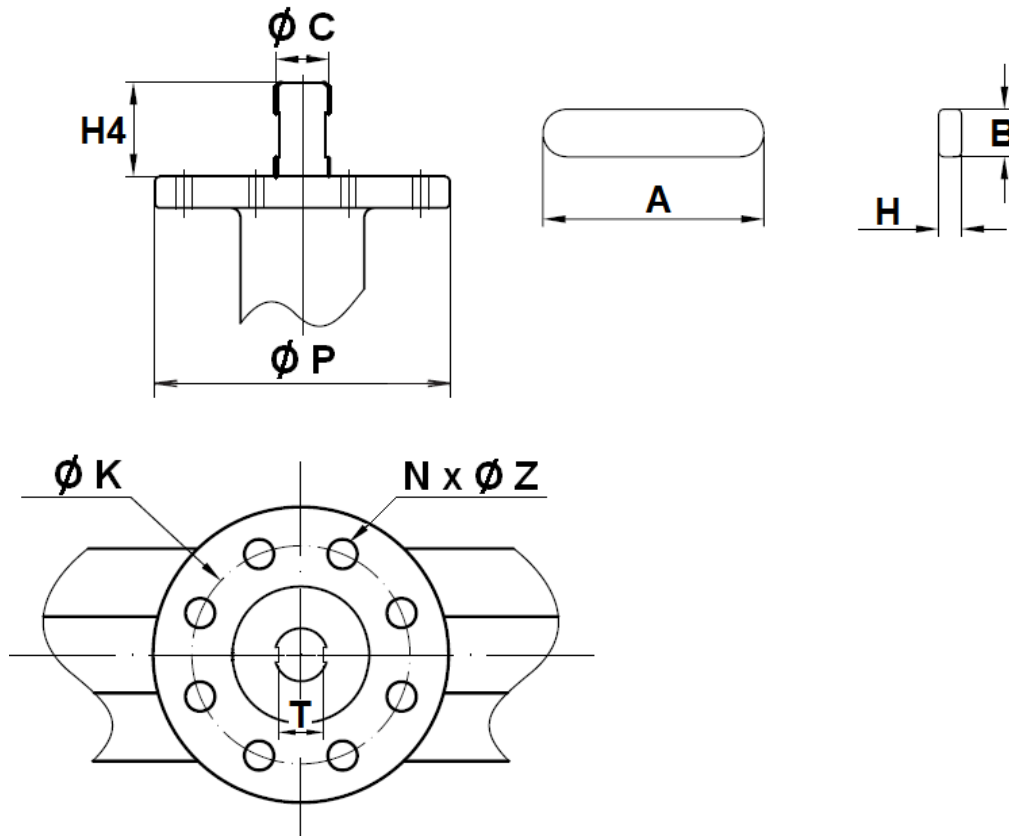
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ISO MOUNTING PAD SIZE (in mm) DN 700 – 1200 :



DN	700	800	900	1000	1200
Ø C	63.35	63.35	75	85	105
Ø K	254	254	254	254	298
ISO	F25	F25	F25	F25	F30
N x Ø Z	8 x 18	8 x 18	8 x 18	8 x 18	8 x 22
H4	80	80	118	142	150
Ø P	300	300	300	300	350
A	60	60	100	110	110
B	18	18	20	22	28
H	11	11	12	14	16

Gemini Valve B.V.

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GV1123

**CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY
STAINLESS STEEL DISC AND EPDM SEAT****GEARBOX SPECIFICATIONS :**

DN	32/80	100	125/150	200	250	300
Ref.	1198001	1198002	1198003	1198004	1198005	1198006
Ratio factor	24 :1	24 :1	24 :1	30 :1	30 :1	50 :1
Input torque (Nm)	18	18	18	58	58	60
Output torque (Nm)	170	170	170	700	700	1200

DN	350	400	450	500	600	700	800	900	1000	1200
Ratio factor	50 :1	80 :1	80 :1	260 :1	300 :1	704 :1	704 :1	832 :1	832 :1	1056 :1
Input torque (Nm)	60	78	78	30	45	95	95	178	178	260
Output torque (Nm)	1200	2500	2500	2500	4000	8000	8000	15000	15000	25000



CONCENTRIC WAFER BUTTERFLY VALVE INITIAL RANGE CAST IRON BODY STAINLESS STEEL DISC AND EPDM SEAT

STANDARDS :

- Manufacturer certified ISO 9001:2015 and ISO 14001 : 2015
- Designing according to API 609
- DIRECTIVE 2014/68/EU: For liquids and gas of Group 1
 - DN32-50: Risk Category I, CE marking
 - DN65-200: Risk Category II, CE0035 marking
 - DN250-300: Risk Category III, CE0035 marking
 - DN350: Risk Category II, CE0035 marking
 - DN400-600: Risk Category III, CE0035 marking
- DIRECTIVE 2014/68/EU: For liquids of Group 2
 - DN700-1200 : Article 4.3 (SEP), no CE marking
- 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