CONCENTRIC WAFER BUTTERFLY VALVE PERFORMANCE RANGE DUCTILE IRON BODY STAINLESS STEEL DISC AND EPDM HIGH TEMPERATURE SEAT

Wafer butterfly valve performance range for closing or setting networks of cold and hot water, sea water, demineralized water. 5 years warranty.
Ductile iron EN GJS-400-15 body, stainless steel disc and EPDM HT seat.
Between flanges PN10, PN16, Class 150 or JIS10K according to DN.
Handling possible with gearbox.
Thanks to the ISO 5211 plate, an actuator can be installed on the valve.

Certificate
3.1

WARRANTY 5 years MANUFACTURE *



Size :	DN32 to DN600
Connection :	Between flanges PN10/16, Class 150(PN20) or JIS10K*
Min Temperature :	-20°C
Max Temperature :	+130°C
Max Pressure :	16 Bars up to DN300 (10 bars over)
Specifications :	Long neck for isolation Stainless steel disc Full crossing stem (up to DN65) ISO 5211 mounting pad
Materials :	Ductile iron EN GJS 400-15 body, EPDM HT seat

*according to DN
*the installation defects and wear defects are not covered by the guarantee

Information provided as an indication and subject to possible modification

CONCENTRIC WAFER BUTTERFLY VALVE PERFORMANCE RANGE DUCTILE IRON BODY STAINLESS STEEL DISC AND EPDM HIGH TEMPERATURE SEAT

SPECIFICATIONS :

- Long neck for isolation
- ISO 5211 mounting pad
- Wafer type
- Between flanges PN10/16 from DN32 to 600, Class 150 (PN20) from DN40 to 600 and JIS10K from DN40 to DN300
- Full crossing stem (up to DN65)
- Removable EPDM HT seat
- 9 positions lever up to DN150 and 12 positions lever from DN200 to 300, with locking device
- Stainless steel disc
- Epoxy RAL 5012 or RAL 5005 electrostatic painting coated body, 250µ thickness

USE :

- Cold and hot water, sea water, demineralized water
- Min and max Temperature Ts : - 20°C to + 130°C
- Max Pressure Ps : 16 bars up to DN300, 10 bars over

RANGE :

- With lever from DN 32-40 to DN 300
- With gearbox from DN350 to 600
- Possible with gearbox **Ref. 1192** from DN 32-40 to DN 300

CONNECTION :

- Between flanges PN10/16 from DN32 to 600, Class 150 (PN20) from DN40 to 600 and JIS10K from DN40 to DN300

TORQUE VALUE (Nm, without safety coefficient) at 16 Bars :

DN	32-40	50	65	80	100	125	150	200	250	300
Torque (Nm)	11	15.1	17.2	23.1	39.8	61.9	102	192	323	490

TORQUE VALUE (Nm, without safety coefficient) at 10 Bars :

DN	32-40	50	65	80	100	125	150	200	250	300
Torque (Nm)	10.5	14.3	16.3	22	37.8	58.8	96.9	182.4	306.9	465.5

DN	350	400	450	500	600
Torque (Nm)	550	755	1012	1350	2111

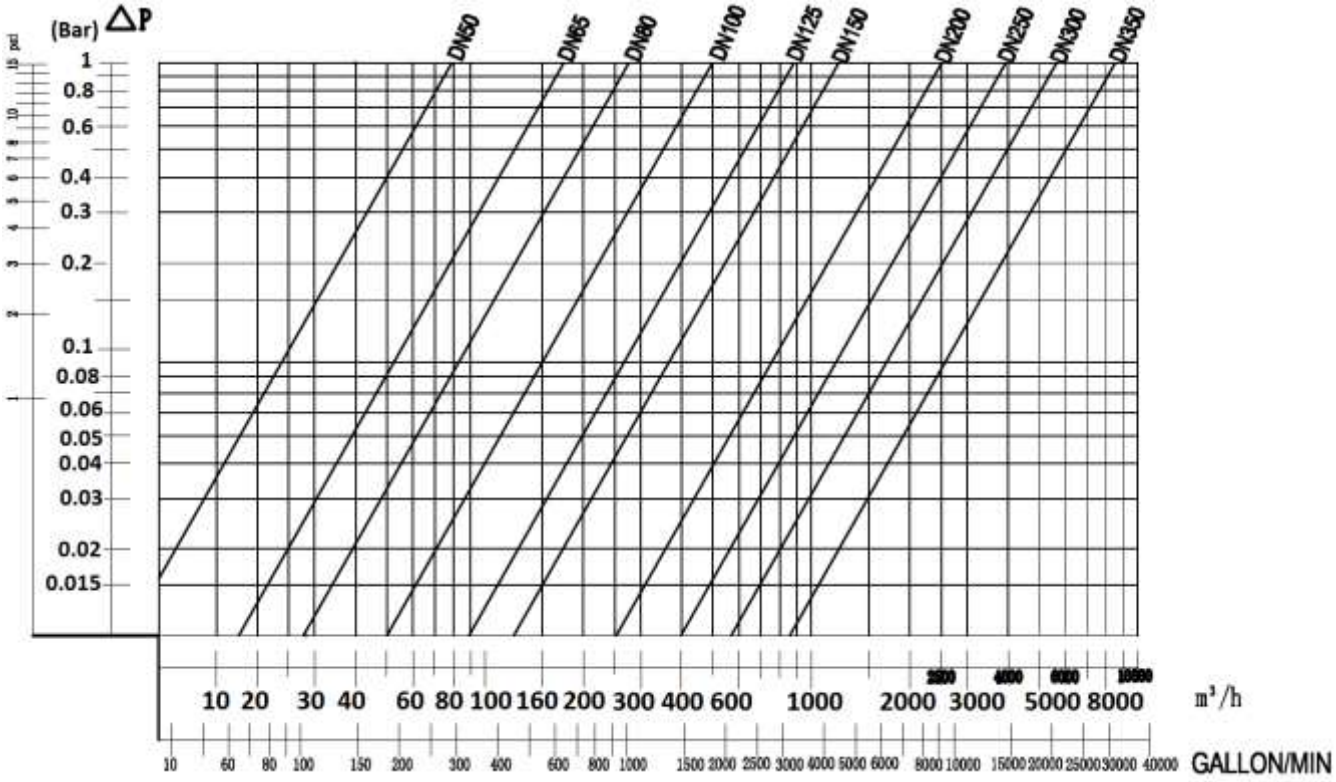
Information provided as an indication and subject to possible modification

CONCENTRIC WAFER BUTTERFLY VALVE PERFORMANCE RANGE DUCTILE IRON BODY STAINLESS STEEL DISC AND EPDM HIGH TEMPERATURE SEAT

FLOW COEFFICIENTS Kv (m3 / h) :

Kv	OPENING ANGLE								
DN	10°	20°	30°	40°	50°	60°	70°	80°	90°
50	0,05	2,6	6,0	13	23	38	60	90	99
65	0,09	5	10	21	39	64	102	153	168
80	0,17	8	15	33	60	99	157	236	259
100	0,26	15	31	67	119	197	312	468	514
125	0,43	25	52	114	203	336	531	797	876
150	0,69	39	81	176	314	518	821	1231	1353
200	1,7	76	161	350	623	1030	1631	2446	2687
250	2,6	129	274	595	1060	1754	2776	4164	4576
300	3	201	424	919	1638	2710	4289	6433	7069
350	5	290	613	1327	2366	3914	6195	9292	10212
400	7	398	842	1825	3254	5383	8519	12779	14043
450	9	527	1116	2418	4308	7129	11284	16925	18599
500	12	678	1411	3109	5540	9167	14508	21762	23914
600	19	1047	2217	4803	8560	14163	22414	33621	36946

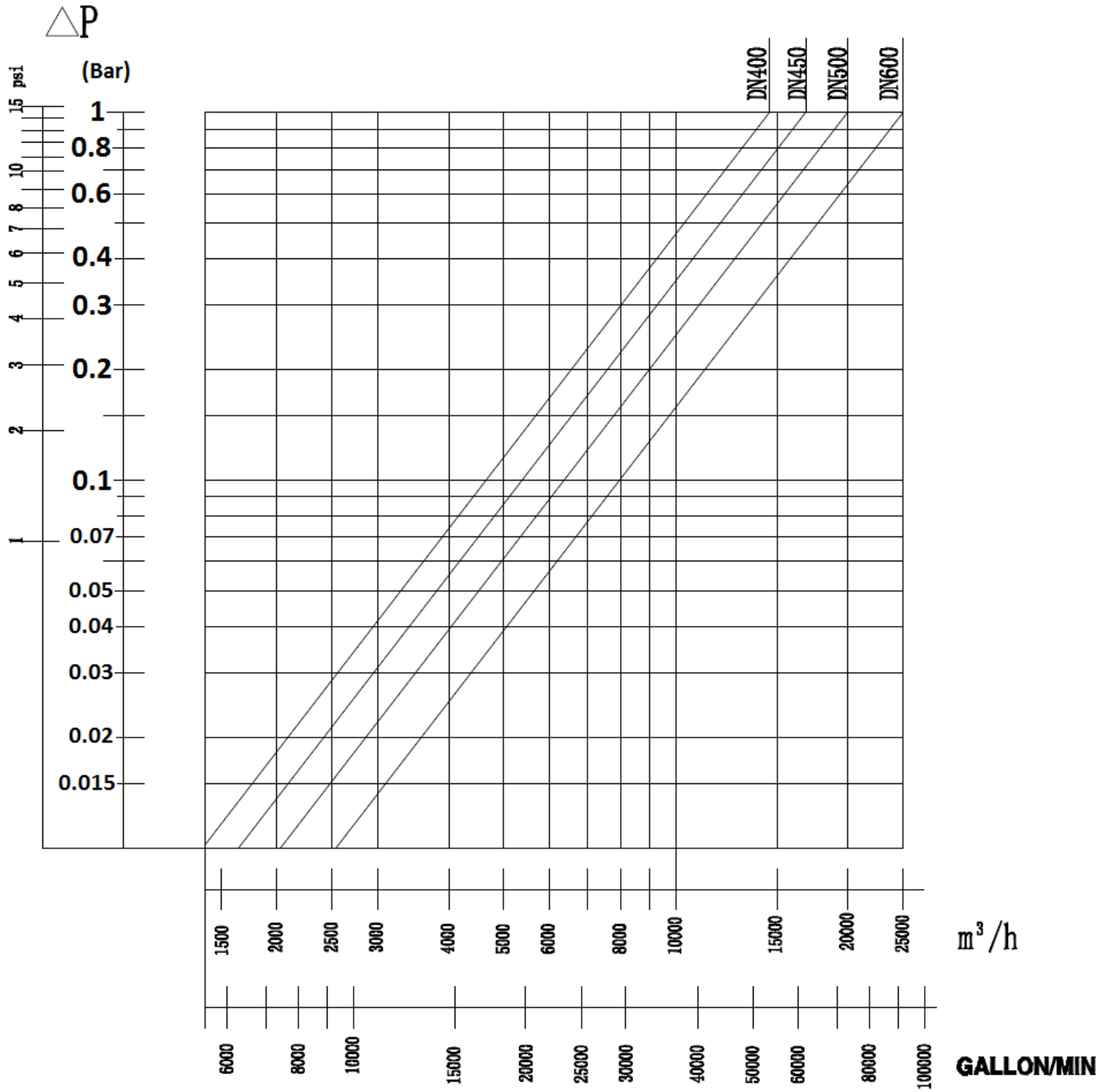
HEAD LOSS GRAPH DN50-350 :



Information provided as an indication and subject to possible modification

CONCENTRIC WAFER BUTTERFLY VALVE PERFORMANCE RANGE DUCTILE IRON BODY STAINLESS STEEL DISC AND EPDM HIGH TEMPERATURE SEAT

HEAD LOSS GRAPH DN400-600 :

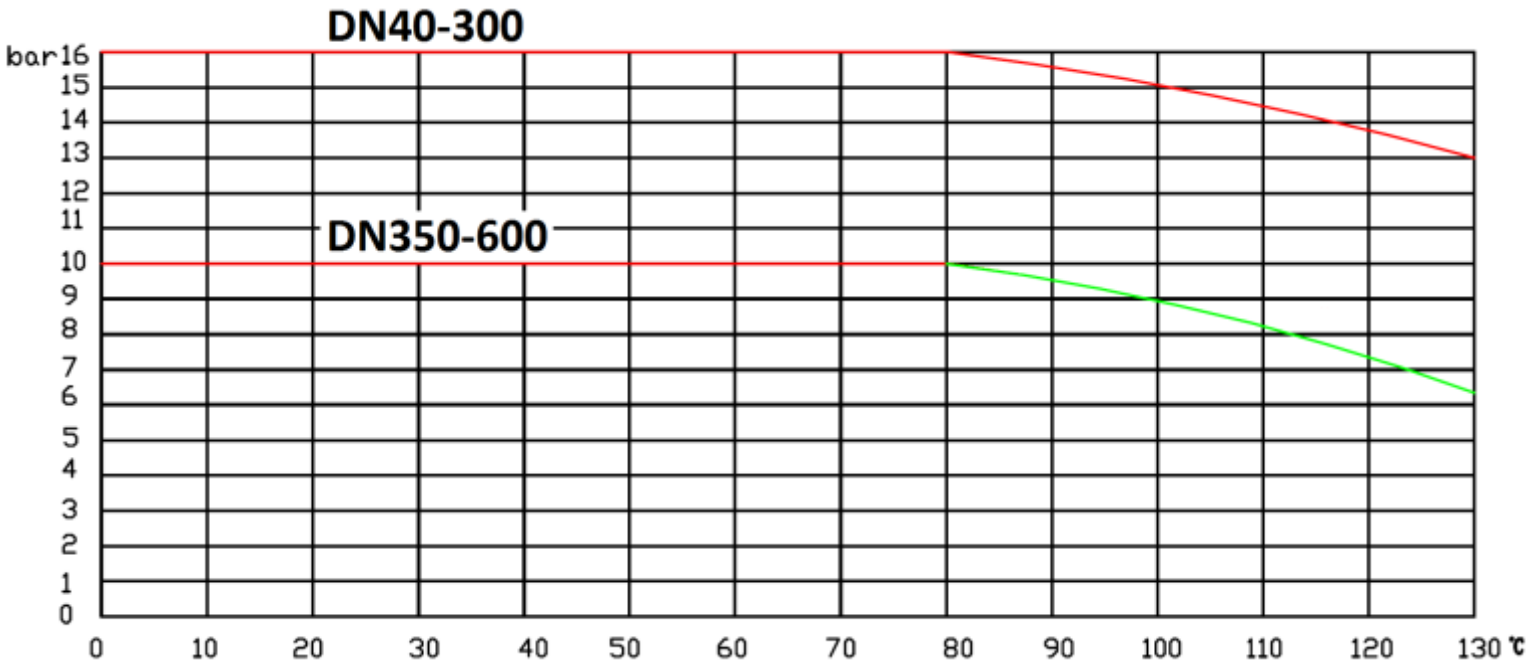


Information provided as an indication and subject to possible modification

CONCENTRIC WAFER BUTTERFLY VALVE PERFORMANCE RANGE DUCTILE IRON BODY STAINLESS STEEL DISC AND EPDM HIGH TEMPERATURE SEAT

PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED) :

Pressure



TEMPERATURE

Information provided as an indication and subject to possible modification

CONCENTRIC WAFER BUTTERFLY VALVE PERFORMANCE RANGE DUCTILE IRON BODY STAINLESS STEEL DISC AND EPDM HIGH TEMPERATURE SEAT

REPAIRABILITY, SEAT :



CURRENT TYPE



NEW TYPE WITH LARGE CENTER (FROM THE END OF YEAR 2023)



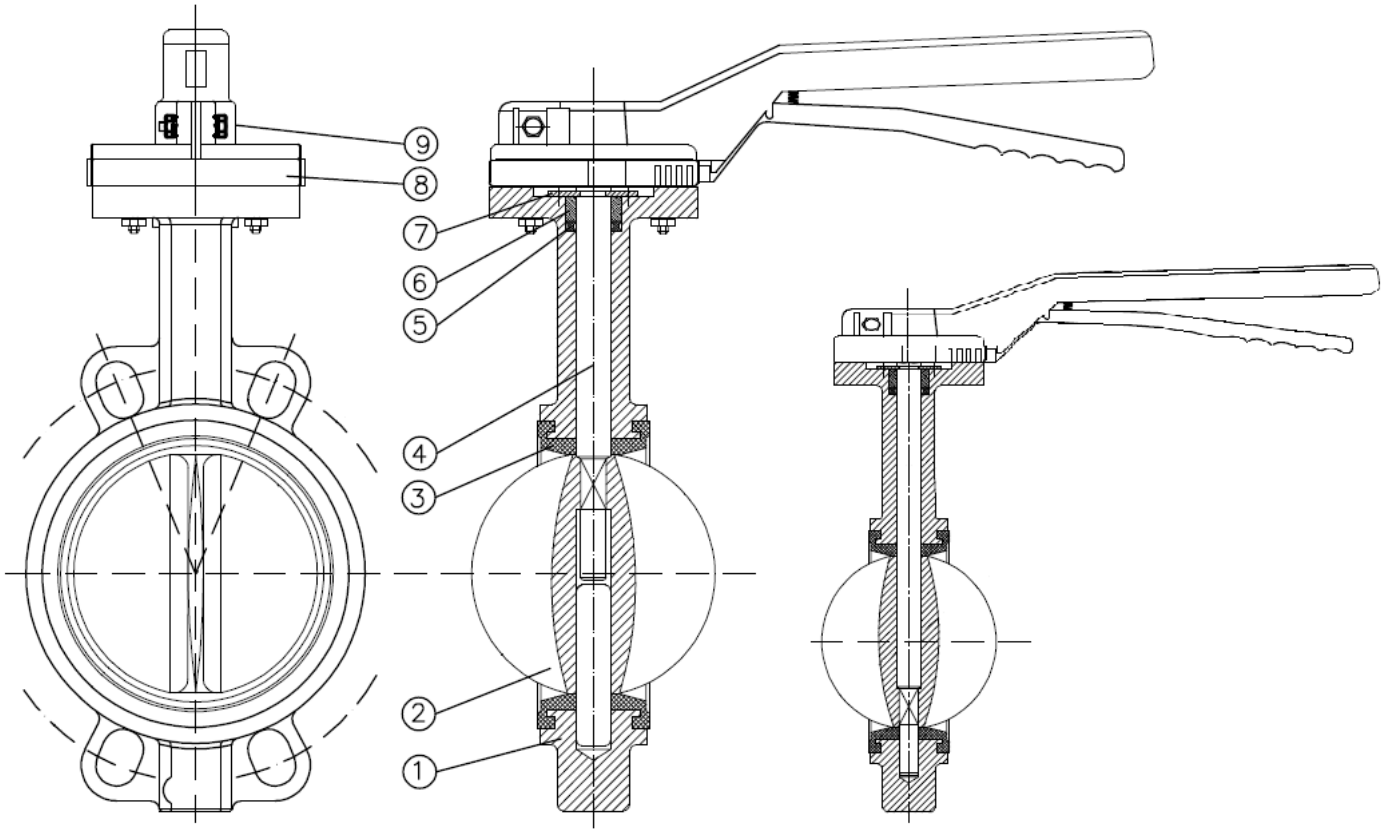
DN	40	50	65	80	100
Ref.	9831180	9831181	9831182	9831183	9831184
Ref. New type	9831180N	9831181N	9831182N	9831183N	9831184N

DN	125	150	200	250	300
Ref.	9831185	9831186	9831187	9831188	9831189
Ref. New type	9831185N	9831186N	9831187N	9831188N	9831189N

Information provided as an indication and subject to possible modification

CONCENTRIC WAFER BUTTERFLY VALVE PERFORMANCE RANGE DUCTILE IRON BODY STAINLESS STEEL DISC AND EPDM HIGH TEMPERATURE SEAT

MATERIALS :



DN 80 – 600*

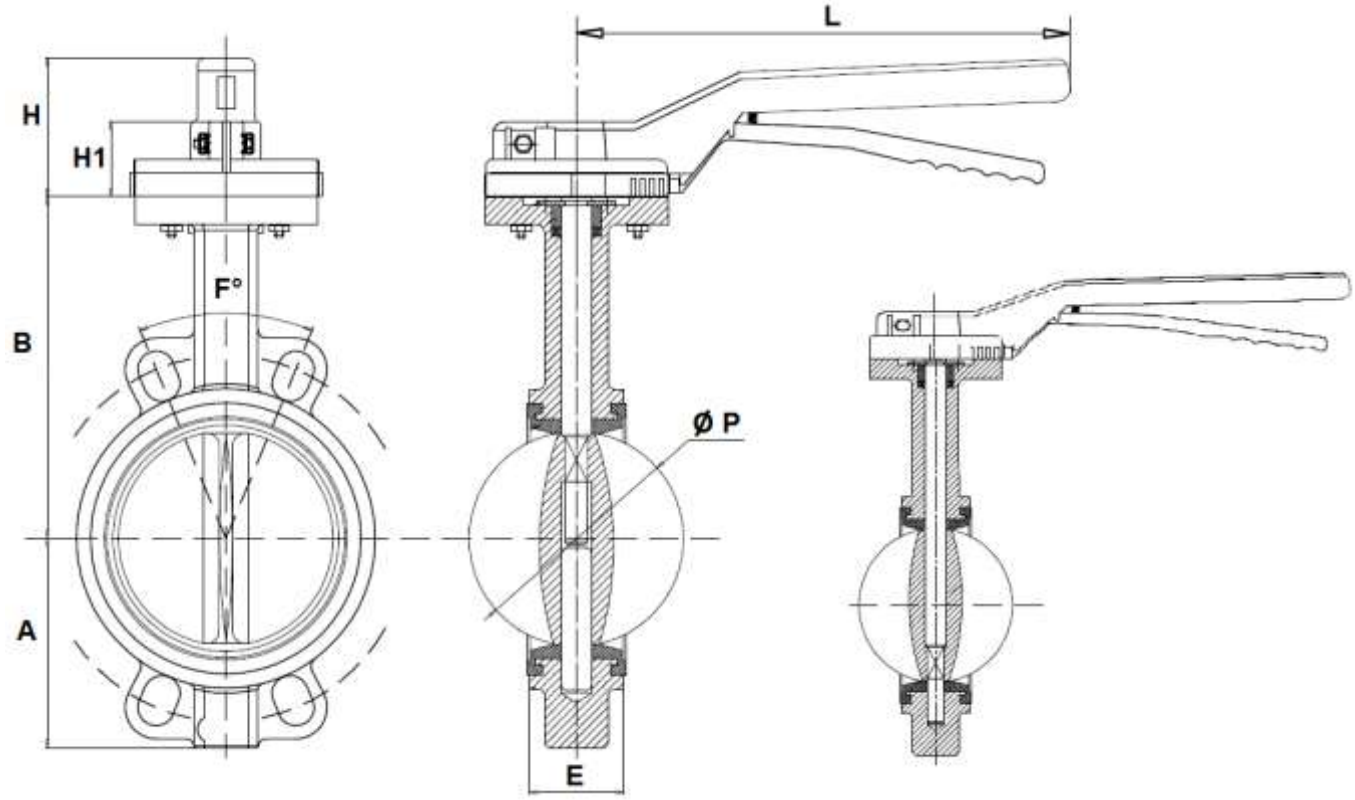
DN 32/40 - 65

Item	Designation	Materials
1	Body	Ductile iron EN GJS-400-15
2	Disc	ASTM A351 CF8M
3	Seat	EPDM HT
4	Stem	AISI 416
5	Gasket	NBR
6	Bushing	PTFE
7	Circlips	Steel
8	Plate	Aluminium
9 (* up to DN300)	Lever	

Information provided as an indication and subject to possible modification

CONCENTRIC WAFER BUTTERFLY VALVE PERFORMANCE RANGE DUCTILE IRON BODY STAINLESS STEEL DISC AND EPDM HIGH TEMPERATURE SEAT

VALVE SIZE (in mm) DN32/40-300 :



(body with 8 flanges holes for DN80)

DN 80 – 300

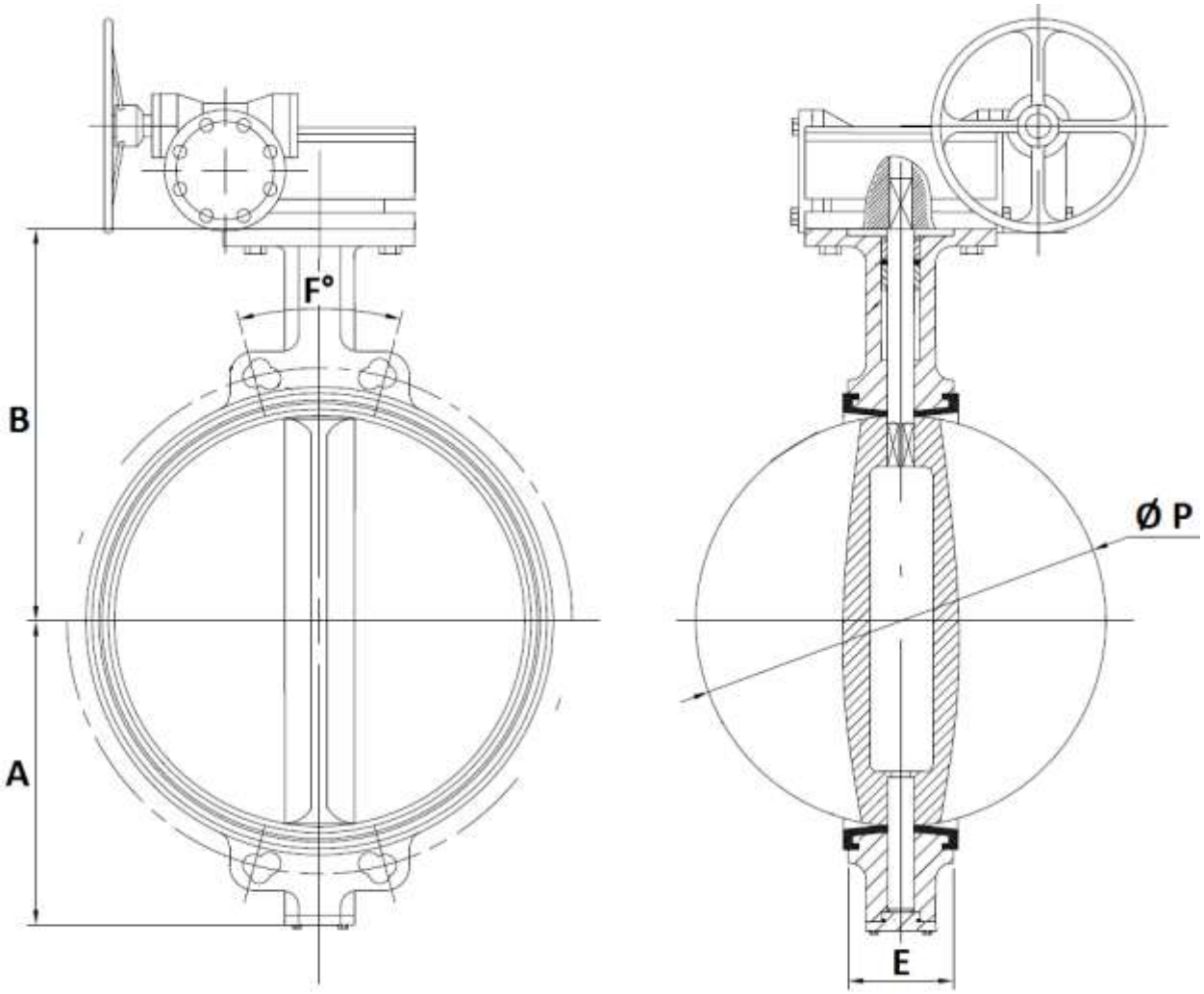
DN 32/40 – 65

DN	32-40	50	65	80	100	125	150	200	250	300
Ø P	42.9	52.7	64.4	78.9	104.1	123.4	155.7	202.5	250.5	301.5
L	200	200	200	200	200	325	325	400	400	400
E	33	43	46	46	52	56	56	60	68	78
H1	43	43	43	43	43	43	43	46	46	46
H	74	74	74	74	74	75	75	75	75	75
B	120	140	150	158	176	190	211	235	265	305
A	57	65	75	93	108	125	135	170	205	238
F°	90°	90°	90°	45°	45°	45°	45°	30°	30°	30°
Weight (Kg)	2.3	2.7	3.4	4.2	5.1	7.2	8.5	13.7	21	30.7
Ref.	1173040	1173050	1173065	1173080	1173100	1173125	1173150	1173200	1173250	1173300

Information provided as an indication and subject to possible modification

CONCENTRIC WAFER BUTTERFLY VALVE PERFORMANCE RANGE DUCTILE IRON BODY STAINLESS STEEL DISC AND EPDM HIGH TEMPERATURE SEAT

VALVE SIZE (in mm) DN350-600 :



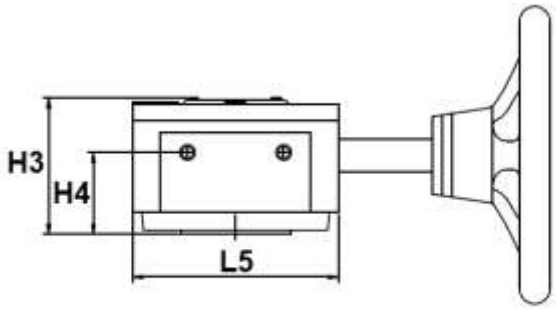
DN	350	400	450	500	600
Ø P	333.9	380.2	433.3	491.8	571.5
E	78	102	114	127	154
B	368	400	422	480	562
A	267	309	328	361	459
F°	22.5	22.5	18	18	18
Weight (Kg)	43.4	88	98.3	106	207
Ref.	1173350	1173400	1173450	1173500	1173600

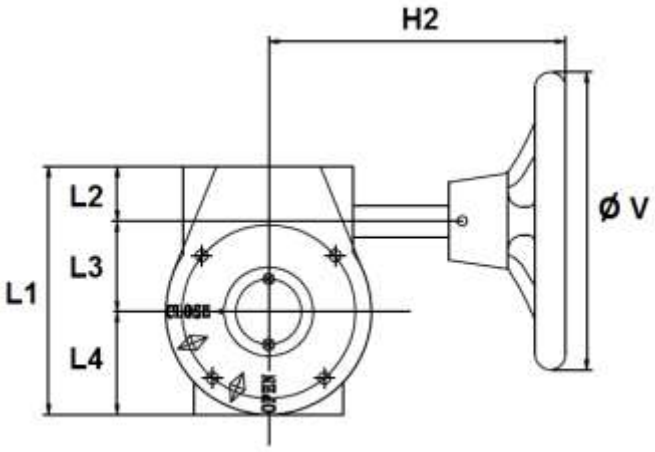
Information provided as an indication and subject to possible modification

CONCENTRIC WAFER BUTTERFLY VALVE PERFORMANCE RANGE DUCTILE IRON BODY STAINLESS STEEL DISC AND EPDM HIGH TEMPERATURE SEAT

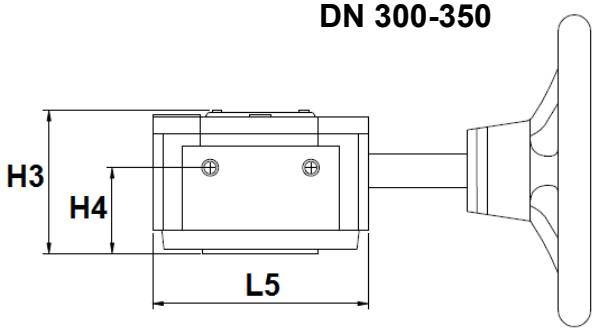
GEARBOX SIZE REF.1192 (in mm) DN32/40-350 :

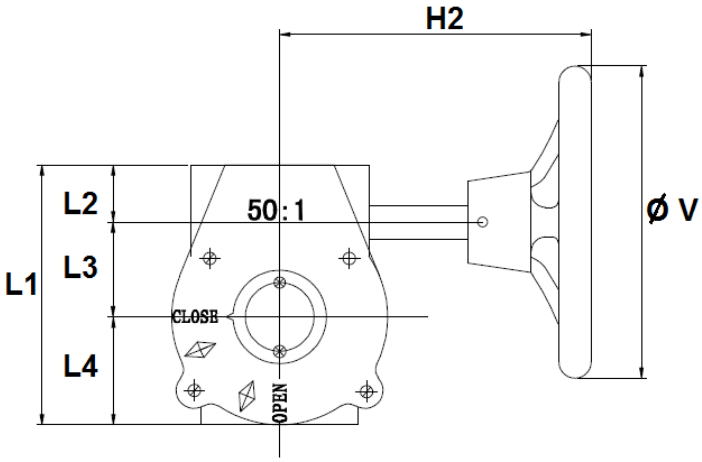
DN 32/40 – 250





DN 300-350



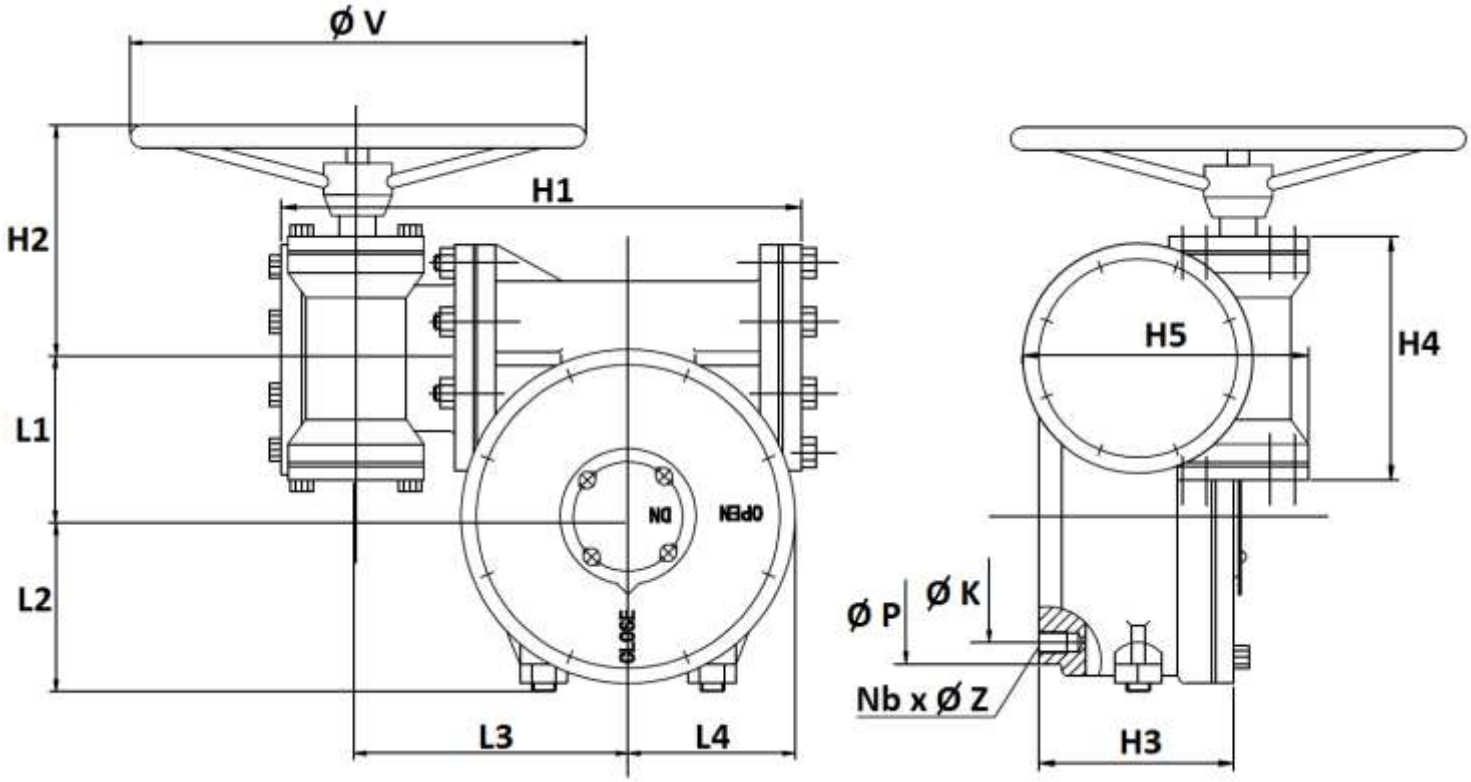


DN	32/40 – 80	100	125 – 150	200	250	300	350
Ø V	150	150	150	300	300	300	300
H2	156	156	156	220	220	225	225
H3	72	72	72	85	85	82	82
H4	43	43	43	45	45	45	45
L1	125	125	125	170	170	185	185
L2	30	30	30	33	33	32.5	32.5
L3	45	45	45	66	66	77.5	77.5
L4	50	50	50	71	71	75	75
L5	104	104	104	146	146	155	155
Weight (Kg)	3.8	3.8	3.8	8.1	8.1	9.8	9.8
Ref.	1192001	1192002	1192003	1192004	1192005	1192006	-

Information provided as an indication and subject to possible modification

CONCENTRIC WAFER BUTTERFLY VALVE PERFORMANCE RANGE DUCTILE IRON BODY STAINLESS STEEL DISC AND EPDM HIGH TEMPERATURE SEAT

GEARBOX SIZE DN400-600 (in mm):



DN	400-500	600
Ø V	300	390
H1	320	386
H2	165	165
H3	135	140
H4	170	170
H5	185	185
L1	104	130
L2	110	135
L3	175	197
L4	100	145
Ø K (ISO)	140 (F14)	165 (F16)
Nb x ØZ	4 x M16	4 x M20
Ø P	175	210
Weight (Kg)	31	48

Information provided as an indication and subject to possible modification

CONCENTRIC WAFER BUTTERFLY VALVE PERFORMANCE RANGE DUCTILE IRON BODY STAINLESS STEEL DISC AND EPDM HIGH TEMPERATURE SEAT

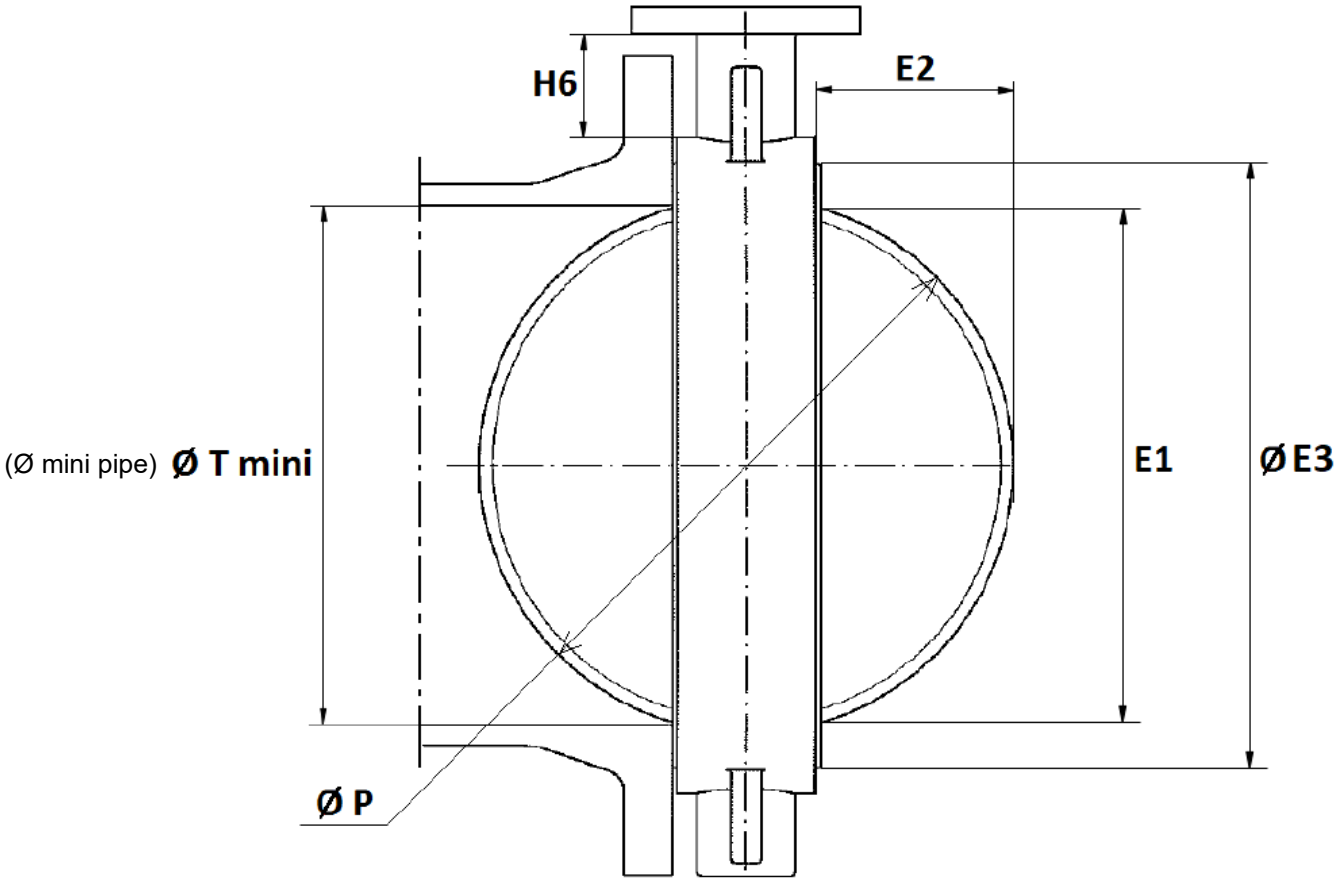
GEARBOX SPECIFICATIONS REF.1192:

DN	32/40 – 80	100	125 – 150	200	250	300	400-500	600
Ref.	1192001	1192002	1192003	1192004	1192005	1192006	-	-
Ratio factor	24 :1	24 :1	24 :1	32 :1	32 :1	50 :1	532 :1	640 :1
Number of turns for closing/opening	6	6	6	8	8	12.5	133	160
Output torque (Nm)	170	170	170	500	500	1200	2500	4000

Information provided as an indication and subject to possible modification

CONCENTRIC WAFER BUTTERFLY VALVE PERFORMANCE RANGE DUCTILE IRON BODY STAINLESS STEEL DISC AND EPDM HIGH TEMPERATURE SEAT

DISC AND NECK SIZE (in mm) :



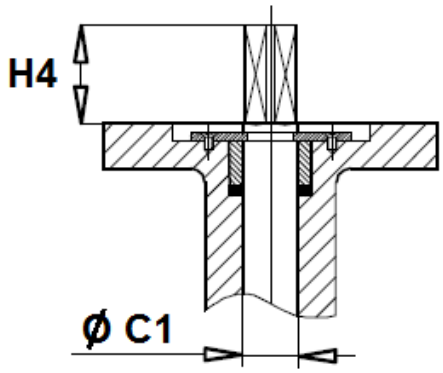
DN	32-40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
E1	38.2	46.6	59.5	75.4	98.2	117.1	147.8	195.3	242.6	292.2	329	377.1	427.7	484.3	562.6
E2	4.95	4.85	9.2	16.45	26.05	33.7	49.85	71.25	91.25	111.75	127.95	139.1	159.65	182.4	208.75
Ø E3 ±2	72	81	98	118	143	162	200	246	308	352	386	444	492	558	656
H6 ±2	68	82.5	78.8	81.5	85.5	88	90.5	89	99	103	140	143	138	162	189
Ø P	42.9	52.7	64.4	78.9	104.1	123.4	155.7	202.5	250.5	301.5	333.9	380.2	433.3	491.8	571.5
Ø T mini	43	53	65	79.5	104.5	124	155.5	202.5	250.5	302	334	390	441	492	585

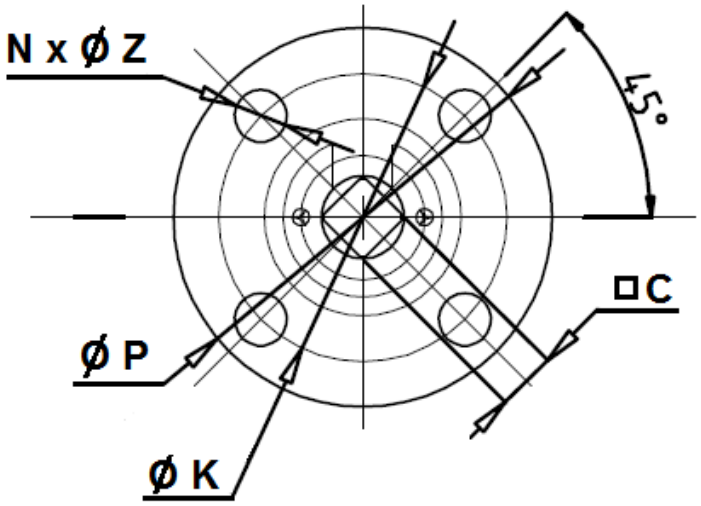
Information provided as an indication and subject to possible modification

CONCENTRIC WAFER BUTTERFLY VALVE PERFORMANCE RANGE DUCTILE IRON BODY STAINLESS STEEL DISC AND EPDM HIGH TEMPERATURE SEAT

ISO PLATE SIZE (in mm) :

DN32-300 :

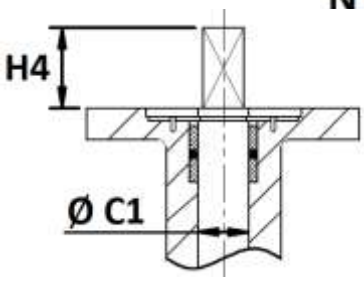


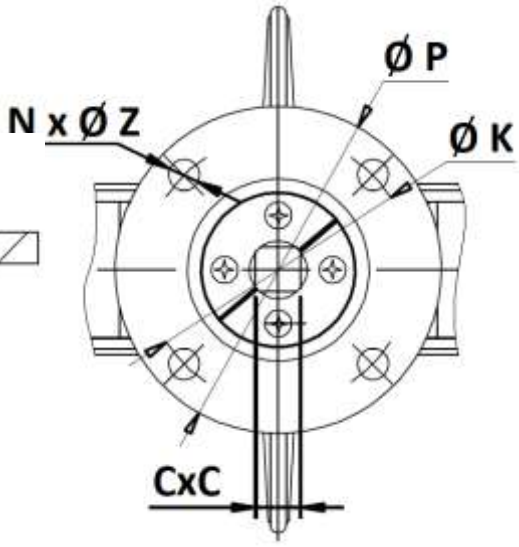


DN	32-40	50	65	80	100	125	150	200	250	300
H4	42				43			45		
Ø C1	12.6				15.77	18.92	18.92	22.1	28.45	31.6
C	9				11	14		17	22	
Ø P	88							125		
Ø K	70							102		
ISO	F07							F10		
N x Ø Z	4 x 10							4 x 12		

DN	350	400	450	500	600
H4	42	50		60	
Ø C1	31.6	37.95	42.86	45.72	53.98
C	22	27		36	
Ø P	125	175			210
Ø K	102	140			165
ISO	F10	F14			F16
N x Ø Z	4 x 12	4 x 18			4 x 23

DN350-600 :

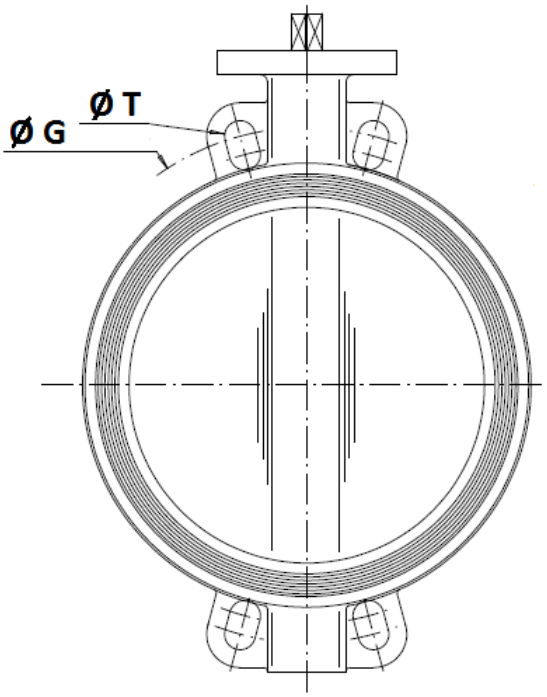




Information provided as an indication and subject to possible modification

CONCENTRIC WAFER BUTTERFLY VALVE PERFORMANCE RANGE DUCTILE IRON BODY STAINLESS STEEL DISC AND EPDM HIGH TEMPERATURE SEAT

BETWEEN FLANGES SIZE (in mm) :



(body with 8 flanges holes for DN80)

	DN (mm)	32	40	50	65	80	100	125	150	200	250	300	350	400
	NPS (")	1"1/4	1"1/2	2"	2"1/2	3"	4"	5"	6"	8"	10"	12"	14"	16"
PN10	Ø G	100	110	125	145	160	180	210	240	295	350	400	460	515
	Ø T	18	18	18	18	18	18	18	22	22	22	22	23	28
PN16	Ø G	100	110	125	145	160	180	210	240	295	355	410	470	525
	Ø T	18	18	18	18	18	18	18	22	22	26	26	28	31
Class 150	Ø G		98.5	120.6	139.7	152.4	190.5	215.9	241.3	298.5	362	431.8	476.3	539.8
	Ø T		16	19	19	19	19	22.4	22.4	22.4	25.4	25.4	28.4	28.4
JIS 10K	Ø G		105	120	140	150	175	210	240	290	355	400		
	Ø T		19	19	19	19	19	23	23	23	25	25		

	DN (mm)	450	500	600
	NPS (")	18"	20"	24"
PN10	Ø G	565	620	725
	Ø T	28	28	31
PN16	Ø G	585	650	770
	Ø T	31	34	37
Class 150	Ø G	577.9	635	749.3
	Ø T	31.8	31.8	35.1

Information provided as an indication and subject to possible modification

CONCENTRIC WAFER BUTTERFLY VALVE PERFORMANCE RANGE DUCTILE IRON BODY STAINLESS STEEL DISC AND EPDM HIGH TEMPERATURE SEAT

STANDARDS :

- Manufacturer according to ISO 9001 : 2015 and ISO 14001 : 2015
- Designing according to BS 5155
- DIRECTIVE 2014/68/EU: For liquids of Group 2
    - Article 4, §3 (SEP), no CE marking
- Certificate 3.1 on request
- Pressure tests according to EN 12266-1, Rate A
- Between flanges according to EN 1092-1 PN10/16
- ISO 5211 mounting pad
- Length according to ISO 5752 short series 20, EN 558 series 20 (NF 29305),BS 5155 Wafer short/medium, DIN 3202 part 3, series K1

ADVICE : Our opinion and our advice are not guaranteed and SFERACO shall not be liable for the consequences of damages.
The customer must check the right choice of the products with the real service conditions.

TUBOTEK | Article references

1173 | Article mapping

Appendix 1

Tubotek SKU	Sferaco / Sectoriel	Grouping ID	DN / PN
VWIHE-040	1173040	VWIHE-XXX	DN32-40 PN10/16
VWIHE-050	1173050	VWIHE-XXX	DN50 PN10/16
VWIHE-065	1173065	VWIHE-XXX	DN65 PN10/16
VWIHE-080	1173080	VWIHE-XXX	DN80 PN10/16
VWIHE-100	1173100	VWIHE-XXX	DN100 PN10/16
VWIHE-125	1173125	VWIHE-XXX	DN125 PN10/16
VWIHE-150	1173150	VWIHE-XXX	DN150 PN10/16
VWIHE-200	1173200	VWIHE-XXX	DN200 PN10/16
VWIHE-250	1173250	VWIHE-XXX	DN250 PN10/16
VWIHE-300	1173300	VWIHE-XXX	DN300 PN10/16
VWIHE-350	1173350	VWIHE-XXX	DN350 PN10/16
VWIHE-400	1173400	VWIHE-XXX	DN400 PN10/16
VWIHE-450	1173450	VWIHE-XXX	DN450 PN10/16
VWIHE-500	1173500	VWIHE-XXX	DN500 PN10/16
VWIHE-600	1173600	VWIHE-XXX	DN600 PN10/16

Source: Tubotek import - test kopie syveco - C / D / H.

Technical data and certifications: original manufacturer documentation.

SKU and grouping identifiers reproduced from the import file.