

DIRECT MOUNTING OF ACTUATOR TO VALVES

■ GENERAL:

Dimensions / pressure: DN40 - DN300 = PN16

DN350 - DN600 = PN10

Material body: Ductile iron

Material disc: AISI 316, Nickle plated ductile iron

Material seat: NBR, EPDM-H, FPM or PTFE

Surface: Polyester, RAL9006, 100μ

Face-to-face: EN558-1

Operating: Handle, gear box or actuator

(Pneumatic, electric or hydraulic)

Counter flange: DN40-DN300, PN10/16/ANSI150

BS10 TABLE D/E, JIS 10K, 16K

DN350 -DN600 PN10 or ANSI150 BS10 TABLE D/E

■ OPTIONS:

Material body: GSC25N, AISI 304, AISI 316.

Material disc: Rilsan covered ductile iron,

Alu-bronze, Duplex, Hastelloy,

PTFE coated

Material seat: Natural rubber, Hypalon, Silicone

■ MATERIALS:

No.	Description	Materials
1	Stem	Stainless steel - AISI 420
2	Preventing plate	Stainless steel - AISI 316
3	Screw	Stainless steel - AISI 316
4	Screw	Stainless steel - AISI 410
5	V-ring	Same as seat
6	Bushings	PTFE / Graphite
7	Body	Ductile iron
8	Seat	Choose from the above
9	Disc	Choose from the above
10	Nut	Stainless steel - AISI 410
11	O-ring	Same as seat
12	Plug	Galvanized steel
13	Bolts	Stainless steel - AISI 316
14	Washers	Stainless steel - AISI 316
15	Cover	Stainless steel - AISI 316



■ DESCRIPRION:

Industrial butterfly valve of very high quality. EN 10204 3.1. Certified **Two-piece stem** resulting in low Kv-value and less turbulence.

ISO 5211 mounting flanges enable direct mounting of actuators.

Seat vulcanized to a phenolic back-up ring making the valve ideal for vacuum applications.

Multi-standard alignment holes

DN40-DN300, PN10/16/ANSI150, BS10 TABLE D/E

DN350-DN600, PN10 or ANSI150, BS10 TABLE D/E.

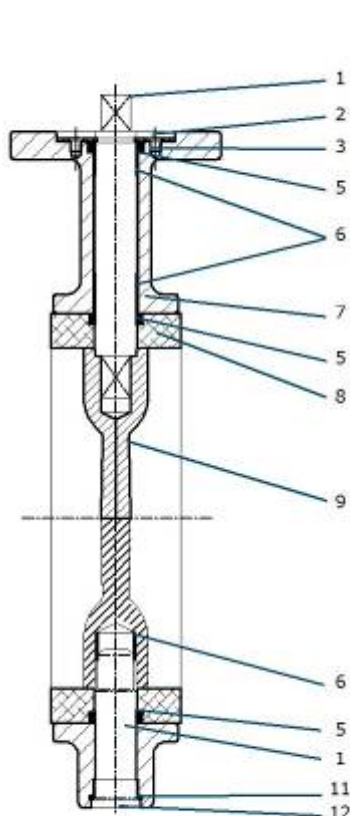
Unique plain bearing in the disc which ensures low torque, low friction, long service life and 100% tightness (DN40 - DN300).

Approvals - the butterfly valves are CE/PED and ATEX approved.

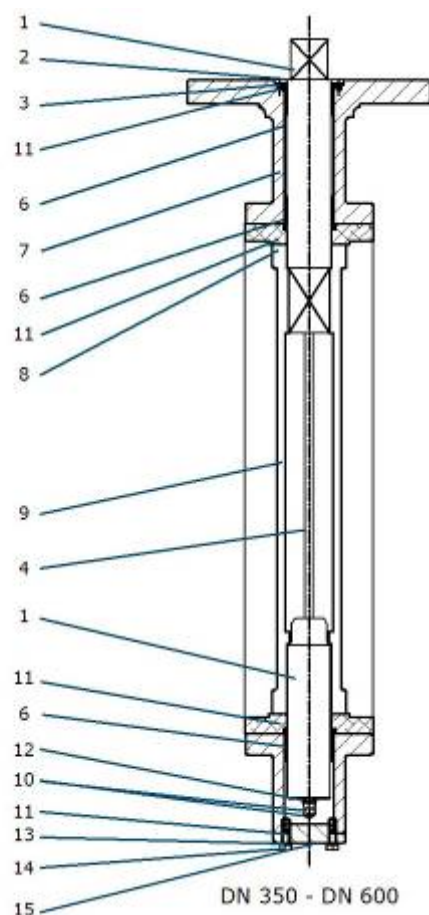
Strong handle in steel or stainless steel.

3-piece plain bearing reduces friction and prolongs service life.

Special designed seat which reduces torque and prolongs service life.

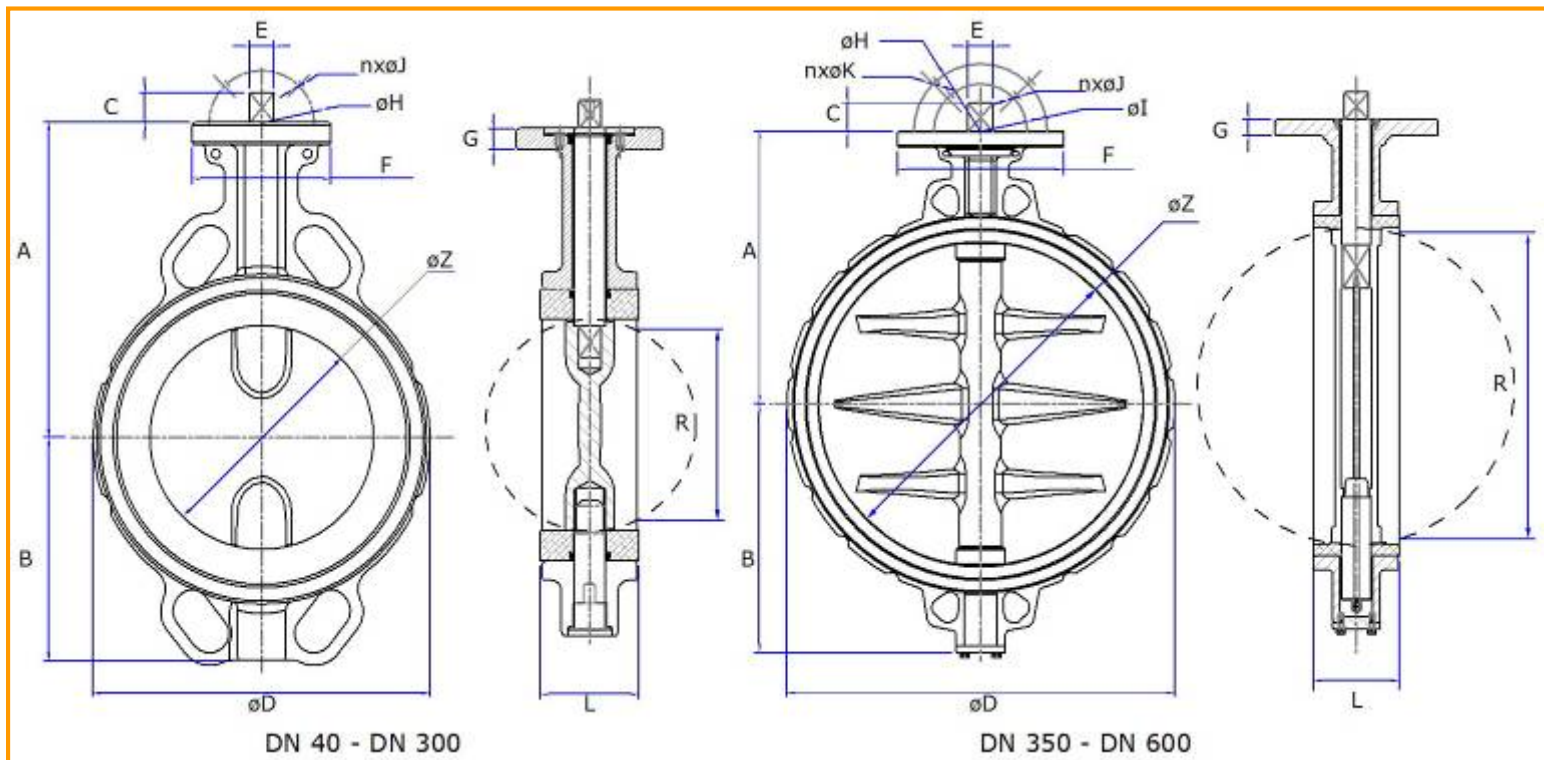


DN 40 - DN 300



DN 350 - DN 600

DIMENSIONS:



DIM	BUTTERFLY VALVES															
[mm]	A	B	C	D	E	øF	øG	øH	øI	n x øJ	n x øK	L	øZ	R	ISO	Weight[kg]
DN40	113	63	14	82	11	65	10	50	-	4 x 7	-	33	44	30	F05	2
DN50	126	72	14	99	11	65	10	50	-	4 x 7	-	43	55	35	F05	2
DN65	134	78	14	113	11	65	10	50	-	4 x 7	-	46	66	48	F05	3
DN80	157	92	14	129	11	65	10	50	-	4 x 7	-	46	83	69	F05	4
DN100	167	109	18	157	14	90	13	70	50	4 x 7	4 x 9	52	102	87	F05/F07	6
DN125	180	124	18	190	14	90	13	70	-	4 x 9	-	56	129	117	F07	8
DN150	203	137	19	218	17	90	13	70	-	4 x 9	-	56	155	144	F07	9
DN200	228	167	25	266	22	125	15	102	-	4 x 11	-	60	200	191	F10	15
DN250	266	207	25	324	22	125	15	102	-	4 x 11	-	68	250	241	F10	22
DN300	291	236	27	377	27	150	15	125	102	4 x 11	4 x 14	78	301	291	F10/F12	32
DN350	332	258	30	412	27	175	19	140	125	4 x 14	4 x 18	78	329	330	F12/F14	49
DN400	363	302	30	471	27	175	20	140	125	4 x 14	4 x 18	102	390	376	F12/F14	69
DN450	397	333	39	528	36	210	25	165	140	4 x 18	4 x 22	114	441	426	F14/F16	97
DN500	425	378	49	580	46	210	25	165	140	4 x 18	4 x 22	127	492	475	F14/F16	124
DN600	498	438	49	688	46	300	30	254	165	4 x 22	4 x 22	154	593	573	F16/F25	208

■ VALVE DATA:

DIM	Kv-value rated flow coefficient (m ³ /h at 1 bar ΔP)									
[mm]	Moment[Nm]	10°	20°	30°	40°	50°	60°	70°	80°	90°
DN40	9	<1	<1	4	12	17	32	45	53	62
DN50	10	<1	<1	5	14	29	47	71	98	107
DN65	13	1	2	11	27	50	77	122	171	213
DN80	19	3	6	28	54	91	140	213	301	404
DN100	28	5	14	57	108	175	262	404	594	799
DN125	47	6	27	84	156	248	385	624	954	1239
DN150	67	7	51	129	224	363	572	977	1535	1929
DN200	131	22	114	229	401	639	1018	1755	2880	3484
DN250	224	33	171	334	634	970	1530	2650	4403	5753
DN300	321	49	250	490	925	1416	2231	3865	6641	8828
DN350	616	118	301	631	1131	1918	3081	4963	8884	10308
DN400	875	153	393	824	1478	2506	4024	6482	11603	13464
DN450	1197	195	498	1043	1871	3170	5093	8210	14686	17041
DN500	1590	240	615	1288	2309	3913	6287	10128	18130	21038
DN600	2611	345	885	1853	3326	5635	9054	14584	26109	30295

Kv = The amount of m³ per hour of 20° C water at 1 bar pressure drop. Cv = The number of US gallons per minute of 60° F water at 1 psi pressure drop.

Cv = 1.167 Kv. From DN350 to DN600 valves, if the normal pressure is 16 bar, Kv the torque value is the same as the values for the wafer and lug models.

The charted values are for water, seawater, lubricating types of hydrocarbons. Temperatures from 0° C to 80° C. Valves are activated at least once a month.

For other liquid applications and lubricating gasses, multiply values by 1.1. For non-lubricating and dry media, multiply values by 1.2. When sizing actuators, multiply the charted torque by 1.25.

■ SEAT DATA:

SEAT	TEMPERATURE
EPDM-H	-15° C. to +120° C.
NBR	-10° C. to +80° C.
FPM	-20° C. to +170° C.
OPTIONS	
Natural rubber	- 30° C. to +80° C.
Hypalon	- 20° C. to +75° C.
Silicone	- 40° C. to +170° C.
PTFE on silicone backup	-40° C. to +180° C.