

BUTTERFLY VALVES

Type 2240: LUG



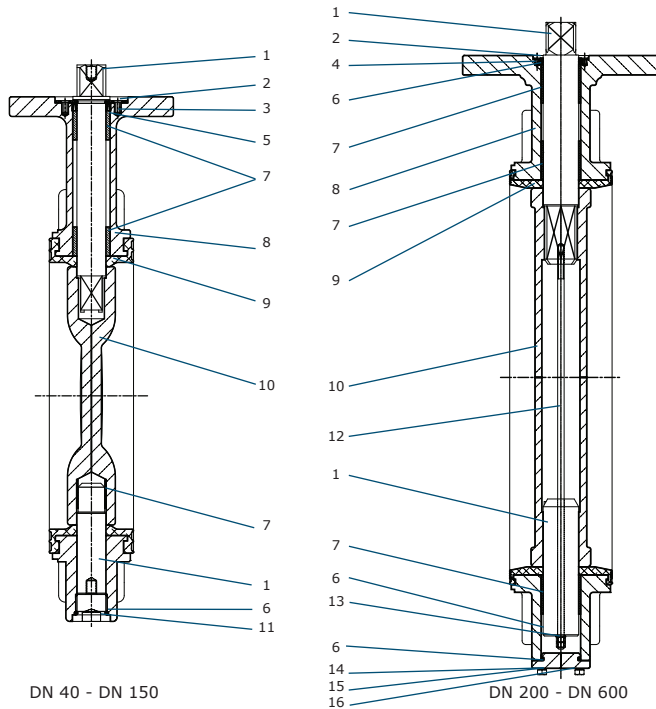
GENERAL

Dimension / Pressure:	DN40 - DN150 = PN16 DN200 - DN600 = PN10
Material Body:	Ductile iron
Material Disc:	AISI 316, nickle plated Ductile Iron
Material Liner:	NBR, EPDM-H, FPM or PTFE
Colour:	Polyester, RAL9006, 100µ
Face-to-face:	EN558-1
Operating:	Handle, gearbox, actuator (pneumatic, electric or hydraulic)
Counter flange:	DN40-DN150 PN10/16 DN200 - DN600 PN10
Mounting bolts:	PN = Metric, ANSI = UNC

OPTIONS

Dimension / Pressure:	DN40 - DN600 = ANSI150
Material Body:	GSC25N, AISI 304, AISI 316 etc.
Material Disc:	Rilsan covered ductile iron, Alu-bronze, Duplex, Hastelloy, PTFE coated.
Material Liner:	Natural rubber, Hypalon, Silicone

MATERIAL

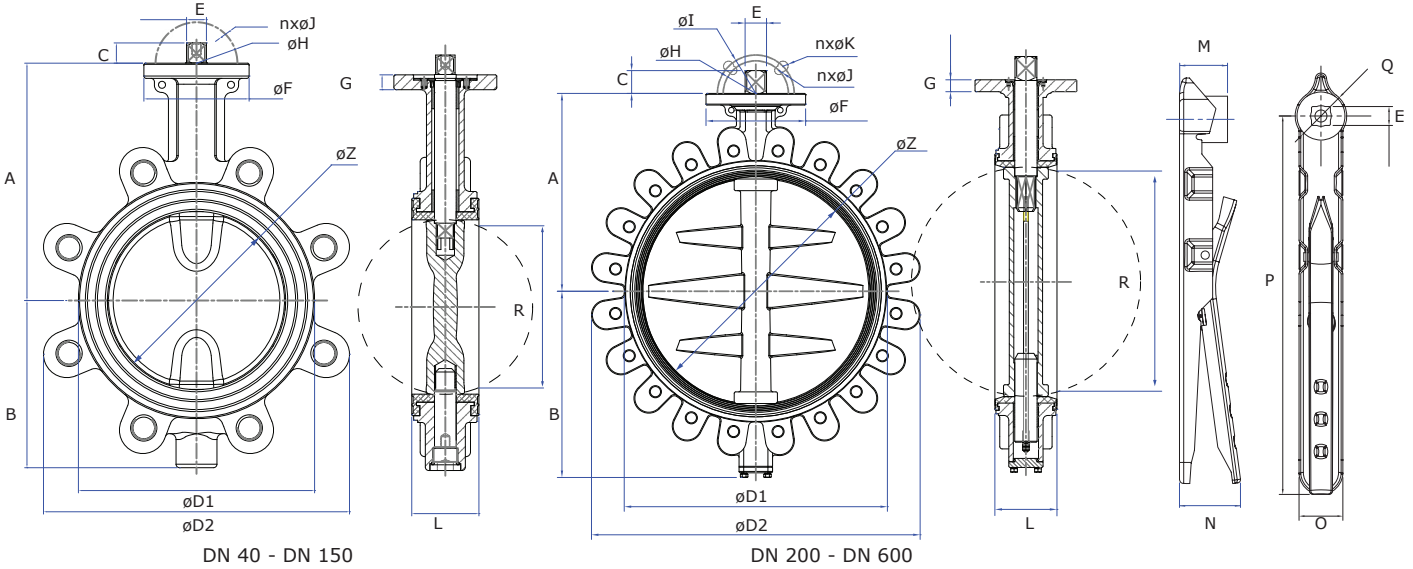


NO.	DESCRIPTION	MATERIALS
1	STEM	STAINLESS STEEL - AISI 420
2	PREVENTING PLATE	STAINLESS STEEL - AISI 316
3	SCREW	STAINLESS STEEL - AISI 316
4	SCREW	STAINLESS STEEL - AISI 304
5	V-RING	SAME AS SEAT
6	O-RING	SAME AS SEAT
7	BUSHINGS	PTFE / GRAPHITE
8	BODY	DUCTILE IRON
9	LINER	TO BE CHOSEN
10	DISC	TO BE CHOSEN
11	PLUG	STEEL
12	SCREW	STAINLESS STEEL - AISI 410
13	NUT	STAINLESS STEEL - AISI 304
14	BOLTS	STAINLESS STEEL - AISI 316
15	WASHERS	STAINLESS STEEL - AISI 316
16	COVER	STAINLESS STEEL - AISI 316

DESCRIPTION

- **Industrial butterfly valve of very high quality.** EN 10204 3.1. certified.
- **ISO 5211 mounting flanges** enable direct mounting of actuators.
- **Approvals** - the butterfly valves are CE/PED and ATEX approved.
- **3-piece plain bearing** reduces friction and prolongs service life.
- **Two-piece stem** resulting in low Kv-value and less turbulence.
- **Unique plain bearing in the disc** which ensures low torque, low friction, long service life and 100% tightness (D450 - DN300).
- **Strong handle** in steel or stainless steel.
- **Special designed seat** which reduces torque and prolongs service life.

DIMENSIONS



DIM	BUTTERFLY VALVES																
[mm]	A [mm]	B [mm]	C [mm]	øD1 [mm]	øD2 [mm]	E [mm]	øF [mm]	øG [mm]	øH [mm]	øI [mm]	n x øJ [mm]	n x øK [mm]	L [mm]	øZ [mm]	R [mm]	ISO	Weight [kg] free stem
DN40	113	67.0	13.5	82.0	112.0	11	65	10	50	-	4 x 7	-	37	44.3	24.4	F05	3.0
DN50	126	76.0	13.5	93.0	122.4	11	65	10	50	-	4 x 7	-	42	55.2	31.7	F05	3.2
DN65	134	82.0	13.5	107.0	136.5	11	65	10	50	-	4 x 7	-	46	66.3	45.1	F05	3.9
DN80	157	96.0	13.5	116.0	180.0	11	65	10	50	-	4 x 7	-	46	83.0	64.1	F05	5.4
DN100	167	113.5	17.5	146.0	198.3	14	90	13	70	50	4 x 7	4 x 9	52	101.5	90.2	F05 / F07	7.4
DN125	180	129.0	17.5	175.0	226.0	14	90	13	70	-	4 x 9	-	56	129.3	110.0	F07	9.4
DN150	203	143.0	17.5	202.0	261.7	17	90	13	70	-	4 x 9	-	56	154.5	145.6	F07	12.1
DN200	228	172.0	24.5	253.0	314.5	22	125	15	102	-	4 x 11	-	60	200.3	193.8	F10	18.5
DN250	266	213.0	24.5	307.0	380.0	22	125	15	102	-	4 x 11	-	68	250.0	241.5	F10	28.6
DN300	291	242.0	27.0	360.0	428.4	27	150	15	125	102	4 x 11	4 x 14	78	301.0	291.6	F10 / F12	38.7
DN350	332	278.0	28.5	393.0	493.0	27	179	19	140	125	4 x 14	4 x 18	78	338.7	324.8	F12 / F14	56.3
DN400	363	321.5	28.5	456.0	555.1	27	179	20	140	125	4 x 14	4 x 18	102	389.9	376.4	F12 / F14	83.5
DN450	397	353.0	39.0	514.0	636.8	36	214	25	165	140	4 x 18	4 x 22	114	440.6	426.0	F14 / F16	130.8
DN500	425	400.0	49.0	565.4	706.0	46	214	25	165	140	4 x 18	4 x 22	127	491.4	475.6	F14 / F16	174.8
DN600	498	460.0	51.5	668.9	830.5	46	304	31	256	165	8 x 18	4 x 22	154	593.3	572.7	F16 / F25	268.6

VALVE DATA

DIM	Kv-value rated flow coefficient (m³/h at 1 bar ΔP)									
	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

DIMENSIONS - HAND LEVER						
M [mm]	N [mm]	O [mm]	P [mm]	Q [mm]	Weight [kg]	
29	70	26	220	30	0.25	
29	70	26	220	30	0.25	
29	70	26	220	30	0.25	
29	70	26	220	30	0.25	
31	52	28	260	35	0.50	
31	52	28	260	35	0.50	
31	52	28	260	35	0.50	
38	75	48	370	42	1.00	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	

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 gases, 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.

LINER DATA

LINER	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.

DVC International

Ferrarivej 14
 DK - 7100 Vejle
 Tel.: +45 75 800 690
 Fax: +45 75 800 691
 E-mail: dvc@dvc.nu
 Web: www.dvc.nu