

PRODUCT FEATURES

- Body, GG 25 Cast Iron.
- Operating Stem Stainless Steel.
- Disc Gasket, EPDM.
- SAE-304 Stainless Steel disc.

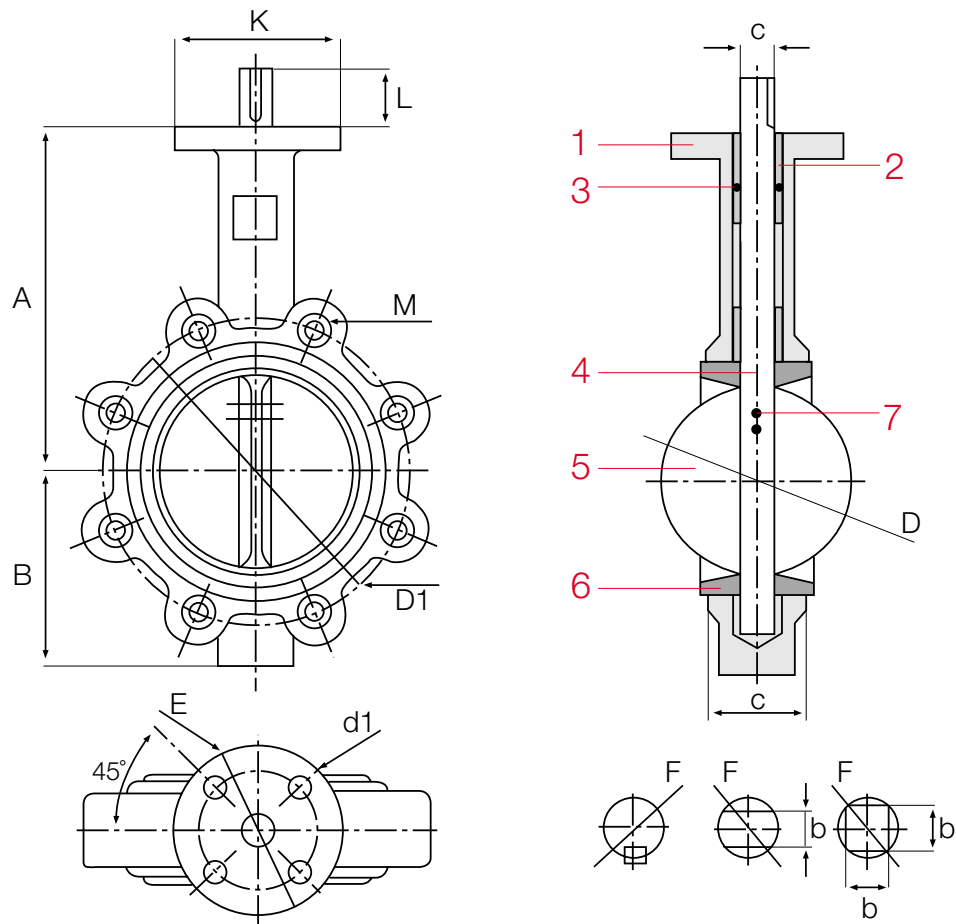
APPLICATIONS

Cold and hot water installations, food, chemistry, textile and industrial establishments.

OPERATING TEMPERATURE

Max +130°C

DIMENSIONS AND PRODUCT DATA

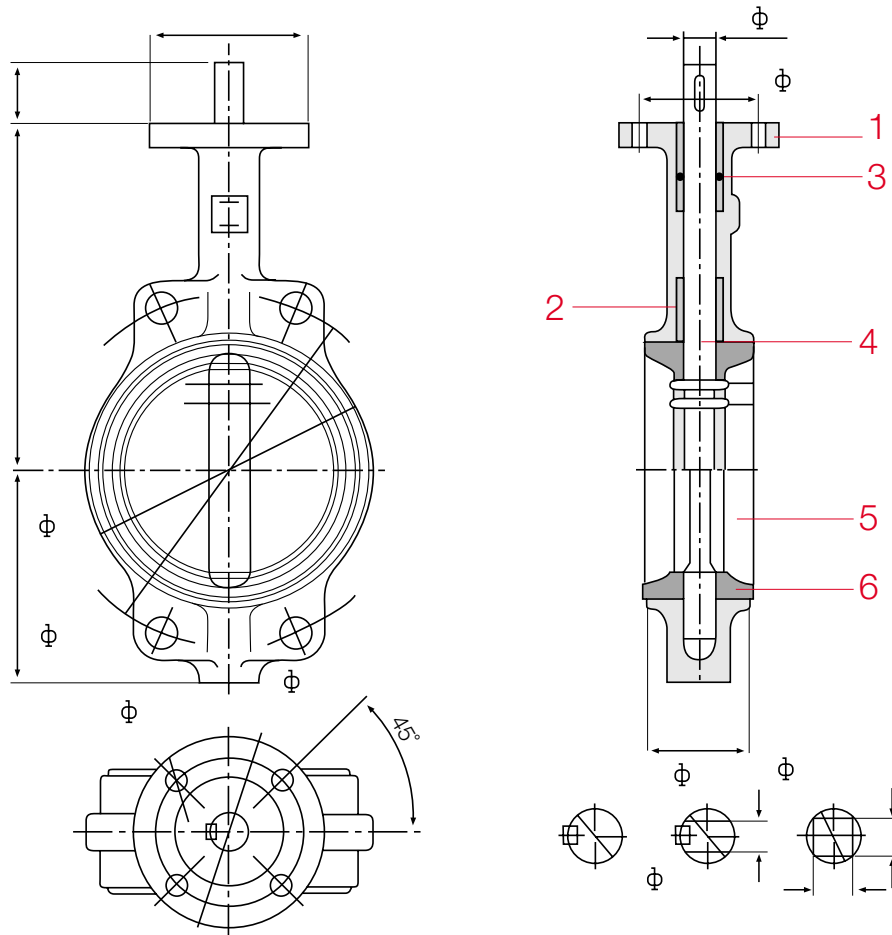


PN 10 / 16 LUG TYPE BUTTERFLY VALVE

DN	A	B	C	D	D1	d1	L	E	K	c	M	FAF 3600 Lug Weight Kg
40	139	68	32		110	4-8	32	50	65	12.6	4-16	4.00
50	161	80	42.04	52.5	125	4-8	32	50	65	12.6	4-16	4.50
65	175	89	44.68	63.8	145	4-8	32	50	65	12.6	4-16	5.00
80	181	95	45.21	78.1	160	4-8	32	50	65	12.6	8-16	6.20
100	200	114	52	103.8	180	4-10	32	70	90	15.77	8-16	9.20
125	213	127	54.36	123.1	210	4-10	32	70	90	18.92	8-16	11.60
150	226	139	55.7	155	240	4-10	32	70	90	18.92	8-20	13.20
200	260	175	60.1	202.1	295	4-12	40	102	125	22.1	8-20	21.00
250	292	203	65.63	250.1	350	4-12	40	102	125	28.45	12-20	41.00
300	337	242	76.5	301.1	400	4-12	40	102	125	31.6	12-20	

ITEMS AND MATERIALS

1. Body / GG 25 cast iron
2. Bushing / B 62
3. O-Ring / EPDM
4. Stem / Stainless Steel
5. Disc / Stainless Steel
6. Gasket / EPDM
7. Pin / Stainless Steel



PN 10 / 16 WAFER TYPE BUTTERFLY VALVE

DN	A	B	C	D	D1	d	d1	L	E	K	c	FAF 3500 Wafer Weight Kg
40	139	68	32		110	4-18	4-8	32	50	65	12.6	3.40
50	161	80	42.04	52.5	125	4-18	4-8	32	50	65	12.6	3.66
65	175	89	44.68	63.8	145	4-18	4-8	32	50	65	12.6	4.28
80	181	95	45.21	78.1	160	8-18	4-8	32	50	65	12.6	4.60
100	200	114	52	103.8	180	8-18	4-10	32	70	90	15.77	5.80
125	213	127	54.36	123.1	210	8-18	4-10	32	70	90	18.92	8.50
150	226	139	55.7	155	240	8-22	4-10	32	70	90	18.92	9.50
200	260	175	60.1	202.1	295	8-22	4-12	40	102	125	22.1	16.00
250	292	203	65.63	250.1	350	12-22	4-12	40	102	125	28.45	32.00
300	337	242	76.5	301.1	400	12-22	4-12	40	102	125	31.6	45.00

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PN 10 / 16 WAFER / LUG TYPE BUTTERFLY VALVE (FAF 3500 & 3600)

PRODUCT DATA



BUTTERFLY VALVE TORQUE VALUES (Nm)

DN	ΔP (Bar)	0	2	6	8	10	12	14	16
DN 40	3	4	7	8	9	10	11	11	11
DN 50	4	5	8	9	10	12	14	14	14
DN 65	6	7	10	12	14	18	20	22	22
DN 80	7	8	11	13	16	19	22	25	25
DN 100	8	10	20	28	31	44	49	52	52
DN 125	14	16	31	43	52	65	76	82	82
DN 150	18	25	52	70	86	104	115	120	120
DN 200	42	62	120	170	200	240	280	290	290
DN 250	86	120	245	340	390	460	540	600	600

PRESSURE / TEMPERATURE RATINGS FOR CAST IRON (GG 25) FLANGES
(REFERENCE ISO 7005-2 TABLE 16)

Pressure ISO PN	TEMPERATURE °C					
	-10 to 120	150	200	250	300	350
Maximum operating pressure (bar)						
10	10	9,5	9	8	7	5,5
16	16	15,2	14,4	12,8	11,2	8,8
20	15,5	14,8	13,9	12,1	10,2	8,6
25	25	23,8	22,5	20	17,5	13,8
40	40	38	36	32	28	22
50	40,2	39	36	35	33	31

MATERIAL PROPERTIES

MATERIAL TYPE	MATERIAL PROPERTY
GG 25 Cast Iron	Tensile strength = 250-350 N/mm ² Hardness = Max. 250 Brinell (BHN)
GGG 40 Ductile Iron	Tensile strength = 400-550 N/mm ² Hardness = 135 - 185 Brinell (BHN)
Stainless Steel DIN 1-4086	C = 0.9 - 1.3 Si Max.=2 Mn Max.= 1 Cr = 27 - 30
Stainless Steel SAE-304	C max = 0.08 Si Max.=1 Mn Max.=2 Cr = 18-20 Ni = 8 - 10.5
Stainless Steel SAE-316	C max = 0.08 Si Max.=1 Mn Max.=2 Cr = 16-18 Ni = 10- 14
PTFE	Density= 2.13-2.23 gr/cm ³ Tensile strength = 250-300 kg/cm ² Operating Temperature = -85°C / +200°C 392° F
PTFE (25 % Carbon)	Density= 2.1-2.2 gr/cm ³ Tensile strength = 165-170 kg/cm ²
Graphitic Ring	Graphite purity = %98 Density= min.1.6 gr/cm ³
St 37	C = <= 0.2 P Max.= 0.06 S Max.= 0.05 Tensile strength = 360-440 N/mm ²
Steel (Ç1030)	C = 0.30 P Max.= 0.06 S Max.= 0.06 Tensile strength = 490 N/mm ²

BUTTERFLY VALVE KVS VALUES (m³/h)

DN	\propto °	15°	30°	45°	60°	75°	90°		
DN 40	-	-	2,5	14	22	38	48		
DN 50	1	8	18	38	58	82	82		
DN 65	2	9	32	76	147	210	210		
DN 200	40	175	420	900	2100	3600	3600		
DN 250	120	340	830	1700	2750	6150	6150		
DN	\propto °	20°	30°	40°	50°	60°	70°	80°	90°
DN 80	7	25	52	100	160	260	325	400	400
DN 100	13	30	70	135	190	360	550	750	750
DN 125	25	60	140	235	380	550	900	1000	1000
DN 150	40	90	210	370	650	950	1350	2000	2000

$$Kv = Q \sqrt{\frac{S}{1000 \Delta P}}$$

Q (Flow) (m³/h)
 ΔP (Pressure change) bar
 S (Density) kg/m³