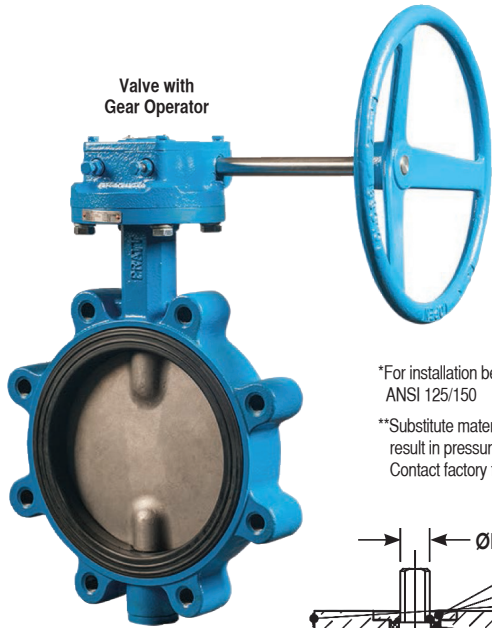


BF Series Wafer/Lug Butterfly Valves

PRATT®



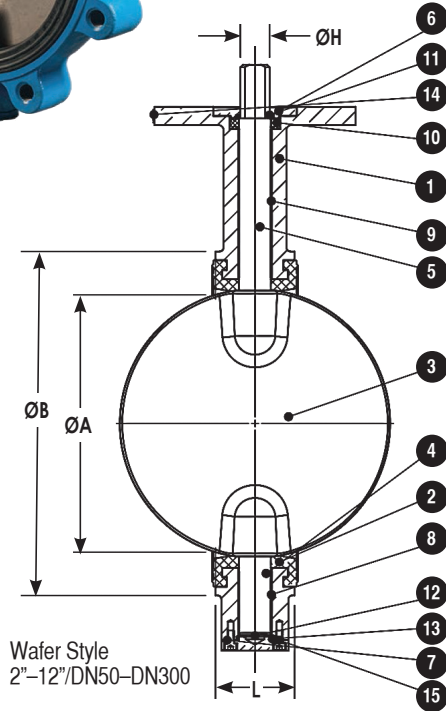
Valve with Gear Operator

PRODUCT FEATURES

- Sizes: 2" – 48"/DN50 – DN1200.
- Pressure Ratings: 2" – 12"/DN50 – DN300, 230psi/16barg; 14" – 48"/DN350 – DN1200, 150psi/12barg.
- Unique 3 point connection, tongue and groove seat allows for higher pressure rating, low operating torque and end-of-line service.
- Secondary shaft seals prevent fluid contact with shaft.
- Two piece shaft design provides maximum strength and low-profile disc, enables high flow rate and low head-loss.
- Blow-out proof stem and ISO Top Flange.
- Actuation options: Worm Gear, Lever, Pneumatic, Electric.

*For installation between ANSI 125/150

**Substitute material may result in pressure rating change. Contact factory for details.

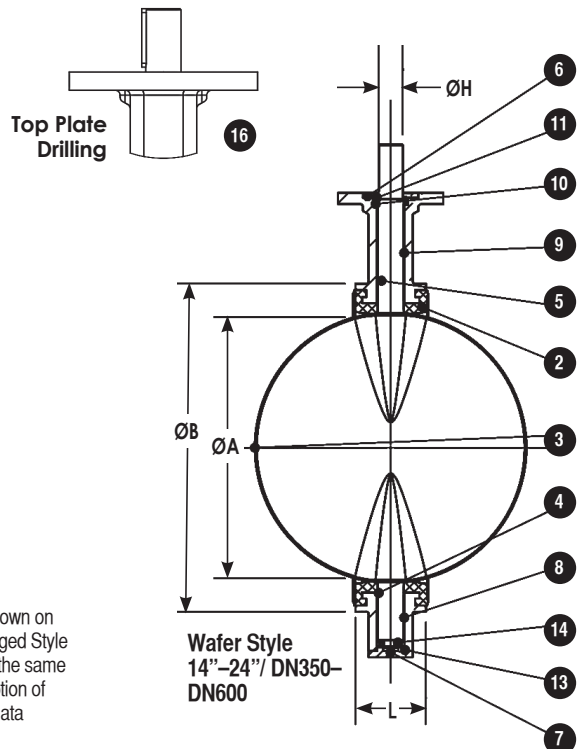


Wafer Style
2"–12"/DN50–DN300

PARTS LIST

ID	Part Name	Material
1	Body	Ductile Iron ASTM A536
2	Seat	EPDM/Buna-N/Viton
3	Disc	Stainless Steel 316/DI/C954/Nylon 11
4	Lower Stem	Stainless Steel 416/316/630
5	Upper Stem	Stainless Steel 416/316/630
6	Top Cap	1020 Steel
7	End Cap	1020 Steel
8	Lower Bushing	Nylatron®
9	Upper Bushing	Nylatron®
10	V-Packing	Buna-N
11	Washer	Stainless Steel 304
12	Wear Shim*	Stainless Steel 304
13	O-Ring	Buna-N
14	Data Plate	Stainless Steel 304
15	End Cap Bolt	Stainless Steel 304
16	Top Cap Bolt	Stainless Steel 304

*14 = Steel Bearing on 14"–24"/DN350–DN600 drawing below.



Top Plate Drilling

Wafer Style
14"–24"/DN350–DN600

NOTE:
Wafer style shown on this page. Lugged Style information is the same with the exception of Tapped Lug Data (see back).

DIMENSIONS - inches (mm)

Valve Size	ØA	ØB	ØH	L
2"/DN50	1 ¹ / ₁₆ (27)	3 ¹ / ₂ (89)	9 ¹ / ₁₆ (14)	1 ¹¹ / ₁₆ (43)
2 ¹ / ₂ "/DN65	1 ⁷ / ₈ (47)	4 ¹ / ₁₆ (104)	9 ¹ / ₁₆ (14)	1 ¹³ / ₁₆ (46)
3"/DN80	2 ⁷ / ₁₆ (62)	4 ⁵ / ₈ (118)	9 ¹ / ₁₆ (14)	1 ¹³ / ₁₆ (46)
4"/DN100	3 ¹ / ₂ (89)	5 ⁷ / ₈ (149)	5 ¹ / ₈ (16)	2 ¹ / ₁₆ (52)
5"/DN125	4 ⁹ / ₁₆ (116)	7 ³ / ₁₆ (183)	3 ¹ / ₄ (19)	2 ³ / ₁₆ (56)
6"/DN150	5 ⁷ / ₁₆ (138)	8 (203)	3 ¹ / ₄ (19)	2 ³ / ₁₆ (56)
8"/DN200	7 ³ / ₄ (197)	10 ⁵ / ₁₆ (262)	7 ¹ / ₈ (22)	2 ³ / ₈ (60)
10"/DN250	9 ⁵ / ₈ (245)	12 ⁵ / ₈ (320)	1 ¹ / ₈ (28)	2 ¹¹ / ₁₆ (68)
12"/DN300	11 ⁵ / ₁₆ (288)	14 ⁹ / ₁₆ (370)	1 ¹ / ₈ (28)	3 ¹ / ₁₆ (78)
14"/DN350	12 ¹¹ / ₁₆ (322)	16 ³ / ₄ (426)	1 ³ / ₈ (35)	3 ¹ / ₁₆ (78)
16"/DN400	14 ¹⁵ / ₁₆ (379)	18 ³ / ₄ (476)	1 ³ / ₈ (35)	4 (102)
18"/DN450	16 ¹¹ / ₁₆ (424)	20 ¹⁵ / ₁₆ (532)	1 ⁵ / ₈ (41)	4 ¹ / ₂ (114)
20"/DN500	18 ¹ / ₂ (470)	23 ³ / ₁₆ (589)	1 ⁷ / ₈ (47)	5 (127)
24"/DN600	22 ¹ / ₂ (571)	27 (686)	1 ⁷ / ₈ (47)	6 ¹ / ₁₆ (154)



Reliable Connections®

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Form 13059 – Rev 10/16

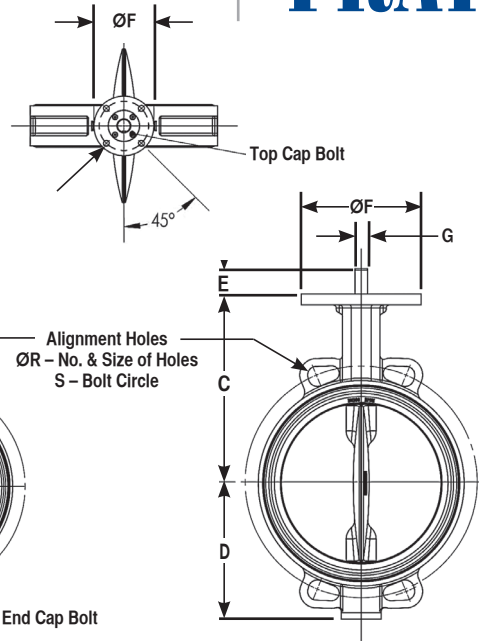
BF Series Wafer/Lug Butterfly Valves



Shown with Actuator fitted

WAFER STYLE

Top Plate Drilling
STANDARD:
 ØM – No. & Size of Holes
 N – Bolt Circle
ISO 5211:
 ØP – No. & Size of Holes
 Q – Bolt Circle



WAFER AND LUGGED STYLE DIMENSIONS - inches (mm)

Valve Size	C	D	E	ØF	G	No.-ØM	N	No.-ØP	Q	No.-ØR*	S	Key	Wt-lb (kg)*
2"/DN50	5 (127)	2 ⁹ / ₁₆ (66)	1 ¹ / ₄ (32)	4 (102)	³ / ₈ (10)	4-7/16 (11)	3 ¹ / ₄ (83)	4- ³ / ₈ (10)	2 ³ / ₄ (70)	4-7/16 (11)	4 ³ / ₄ (121)	-	5 (2.2)
2 ¹ / ₂ "/DN65	5 ¹ / ₂ (140)	2 ⁷ / ₈ (73)	1 ¹ / ₄ (32)	4 (102)	³ / ₈ (10)	4-7/16 (11)	3 ¹ / ₄ (83)	4- ³ / ₈ (10)	2 ³ / ₄ (70)	4-7/16 (11)	5 ¹ / ₂ (140)	-	6 (2.8)
3"/DN80	5 ¹¹ / ₁₆ (145)	3 ⁵ / ₈ (92)	1 ¹ / ₄ (32)	4 (102)	³ / ₈ (10)	4-7/16 (11)	3 ¹ / ₄ (83)	4- ³ / ₈ (10)	2 ³ / ₄ (70)	4-7/16 (11)	6 (152)	-	7 (3)
4"/DN100	6 ¹ / ₂ (165)	4 ⁷ / ₁₆ (113)	1 ¹ / ₄ (32)	4 (102)	⁷ / ₁₆ (11)	4-7/16 (11)	3 ¹ / ₄ (83)	4- ³ / ₈ (10)	2 ³ / ₄ (70)	4-7/16 (11)	7 ¹ / ₂ (190)	-	11 (5)
5"/DN125	7 ¹ / ₂ (190)	4 ⁹ / ₁₆ (125)	1 ¹ / ₄ (32)	4 (102)	¹ / ₂ (13)	4-7/16 (11)	3 ¹ / ₄ (83)	4- ³ / ₈ (10)	2 ³ / ₄ (70)	4-7/16 (22)	8 ¹ / ₂ (216)	-	16 (7)
6"/DN150	7 ⁷ / ₈ (200)	5 ⁷ / ₁₆ (138)	1 ¹ / ₄ (32)	4 (102)	¹ / ₂ (13)	4-7/16 (11)	3 ¹ / ₄ (83)	4- ³ / ₈ (10)	2 ³ / ₄ (70)	4-7/16 (22)	9 ¹ / ₂ (241)	-	18 (8)
8"/DN200	9 ¹ / ₂ (241)	6 ¹³ / ₁₆ (173)	1 ¹ / ₄ (32)	6 (152)	⁵ / ₈ (16)	4-9/16 (14)	5 (127)	4- ⁹ / ₁₆ (14)	4 ¹⁵ / ₁₆ (125)	4-7/8 (22)	11 ³ / ₄ (298)	-	32 (14)
10"/DN250	10 ⁷ / ₈ (276)	8 ¹ / ₈ (206)	2 (51)	6 (152)	-	4-9/16 (14)	5 (127)	4- ⁹ / ₁₆ (14)	4 ¹⁵ / ₁₆ (125)	4-1 (25)	14 ¹ / ₄ (362)	1/4 x 1/4 (6x6)	50 (23)
12"/DN300	12 ³ / ₁₆ (310)	9 ¹¹ / ₁₆ (247)	2 (51)	6 (152)	-	4-9/16 (14)	5 (127)	4- ⁹ / ₁₆ (14)	4 ¹⁵ / ₁₆ (125)	4-1 (25)	17 (432)	1/4 x 1/4 (6x6)	67 (30)
14"/DN350	13 (330)	11 (279)	2 ³ / ₄ (70)	6 (152)	-	4-9/16 (14)	5 (127)	4- ⁹ / ₁₆ (14)	4 ¹⁵ / ₁₆ (125)	4-1 ¹ / ₈ (28)	18 ³ / ₄ (476)	5/16 x 9/16 (8x8)	80 (36)
16"/DN400	14 ⁹ / ₁₆ (370)	12 (304)	2 ³ / ₄ (70)	6 (152)	-	4-9/16 (14)	5 (127)	4- ⁹ / ₁₆ (14)	4 ¹⁵ / ₁₆ (125)	4-1 ¹ / ₈ (28)	21 ¹ / ₄ (540)	5/16 x 9/16 (8x8)	110 (50)
18"/DN450	15 ⁹ / ₁₆ (395)	13 ³ / ₁₆ (335)	3 (76)	8 (203)	-	4- ¹³ / ₁₆ (21)	6 ¹ / ₂ (165)	4- ¹³ / ₁₆ (21)	6 ¹ / ₂ (165)	4-1 ¹ / ₄ (32)	22 ³ / ₄ (578)	3/8 x 3/8 (10x10)	161 (73)
20"/DN500	16 ⁷ / ₈ (428)	14 ¹ / ₂ (369)	3 ¹ / ₂ (89)	8 (203)	-	4- ¹³ / ₁₆ (21)	6 ¹ / ₂ (165)	4- ¹³ / ₁₆ (21)	6 ¹ / ₂ (165)	4-1 ¹ / ₄ (32)	25 (635)	1/2 x 1/2 (13x13)	207 (94)
24"/DN600	19 ¹ / ₁₆ (500)	16 ¹ / ₁₆ (424)	3 ¹ / ₂ (89)	8 (203)	-	4- ¹³ / ₁₆ (21)	6 ¹ / ₂ (165)	4- ¹³ / ₁₆ (21)	6 ¹ / ₂ (165)	4-1 ³ / ₈ (35)	29 ¹ / ₂ (749)	1/2 x 1/2 (13x13)	317 (144)

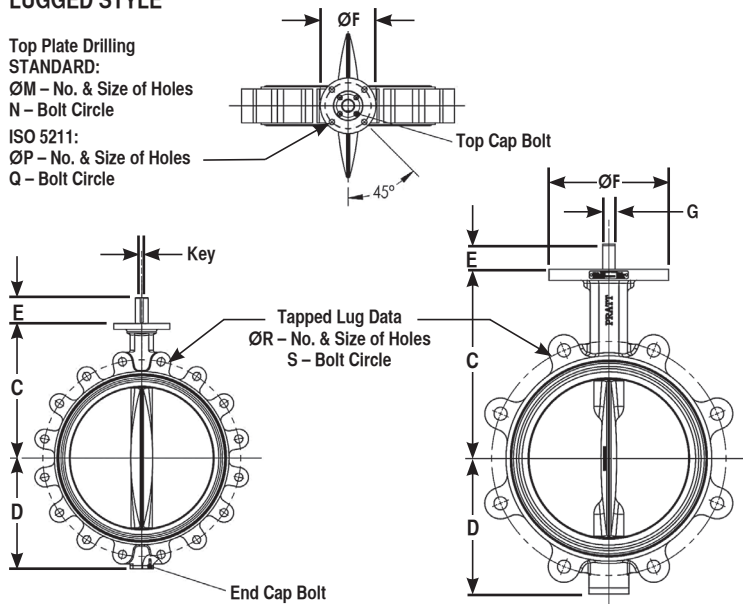
*Alignment Holes and Weight - Wafer Style only.

TAPPED LUG DATA DIMENSIONS - inches (mm)

Valve Size	No.- ØR	S	Wt.-lb. (kg)
2"/DN50	4- ⁵ / ₈ (16)	4 ³ / ₄ (121)	7 (3)
2 ¹ / ₂ "/DN65	4- ⁵ / ₈ (16)	5 ¹ / ₂ (140)	8 (4)
3"/DN80	4- ⁵ / ₈ (16)	6 (152)	11 (5)
4"/DN100	8- ⁵ / ₈ (16)	7 ¹ / ₂ (190)	15 (7)
5"/DN125	8- ³ / ₄ (19)	8 ¹ / ₂ (216)	21 (9)
6"/DN150	8- ³ / ₄ (19)	9 ¹ / ₂ (241)	23 (10)
8"/DN200	8- ³ / ₄ (19)	11 ³ / ₄ (298)	38 (17)
10"/DN250	12- ⁷ / ₈ (22)	14 ¹ / ₄ (362)	63 (28)
12"/DN300	12- ⁷ / ₈ (22)	17 (432)	83 (38)
14"/DN350	12-1 (25)	18 ³ / ₄ (476)	110 (50)
16"/DN400	16-1 (25)	21 ¹ / ₄ (540)	161 (73)
18"/DN450	16-1 ¹ / ₈ (28)	22 ³ / ₄ (578)	223 (101)
20"/DN500	20-1 ¹ / ₈ (28)	25 (635)	276 (125)
24"/DN600	20-1 ¹ / ₄ (32)	29 ¹ / ₂ (749)	408 (185)

LUGGED STYLE

Top Plate Drilling
STANDARD:
 ØM – No. & Size of Holes
 N – Bolt Circle
ISO 5211:
 ØP – No. & Size of Holes
 Q – Bolt Circle



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