BF Series Wafer/Lug Butterfly Valves

PRATT®

Valve with Gear Operator
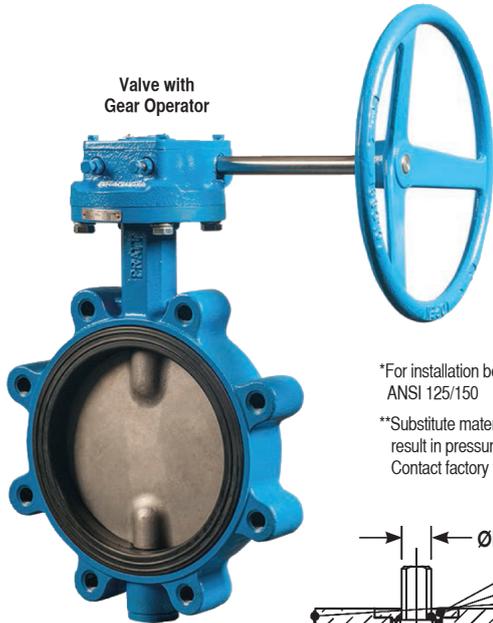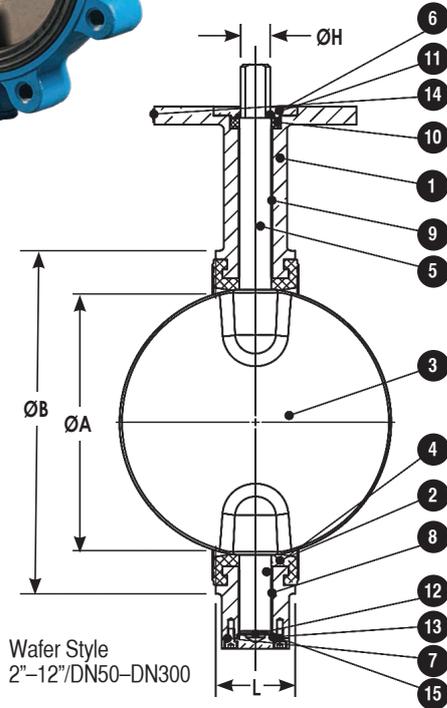
PRODUCT FEATURES

- 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.
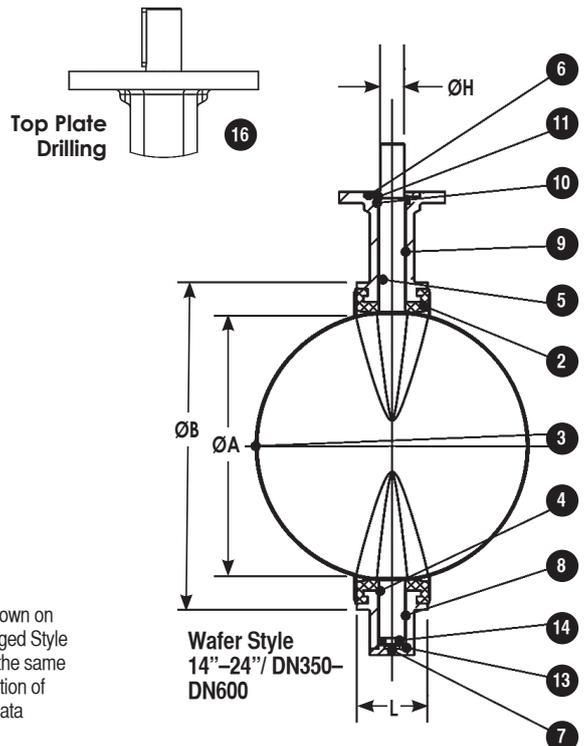
*For installation between ANSI 125/150

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

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.

ØH

Wafer Style
2"–12"/DN50–DN300

Top Plate Drilling

ØH

Wafer Style
14"–24"/ DN350–DN600

DIMENSIONS - inches (mm)

Valve Size	ØA	ØB	ØH	L
2"/DN50	1 1/16 (27)	3 1/2 (89)	9/16 (14)	1 11/16 (43)
2 1/2"/DN65	1 7/8 (47)	4 1/16 (104)	9/16 (14)	1 13/16 (46)
3"/DN80	2 7/16 (62)	4 5/8 (118)	9/16 (14)	1 13/16 (46)
4"/DN100	3 1/2 (89)	5 7/8 (149)	5/8 (16)	2 1/16 (52)
5"/DN125	4 9/16 (116)	7 3/16 (183)	3/4 (19)	2 3/16 (56)
6"/DN150	5 7/16 (138)	8 (203)	3/4 (19)	2 3/16 (56)
8"/DN200	7 3/4 (197)	10 5/16 (262)	7/8 (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)

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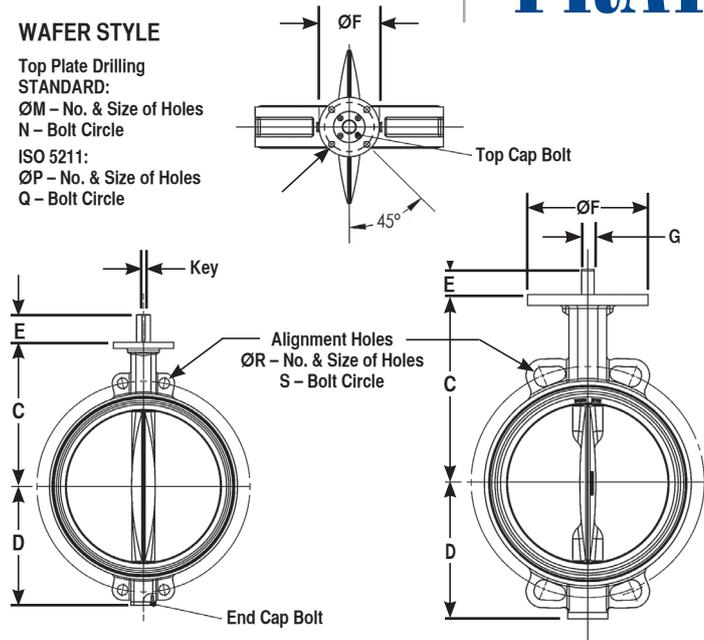
BF Series Wafer/Lug Butterfly Valves

PRATT®

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

Top Cap Bolt

Key

Alignment Holes
ØR – No. & Size of Holes
S – Bolt Circle

End Cap Bolt

WAFER AND LUGGED STYLE DIMENSIONS - inches (mm)

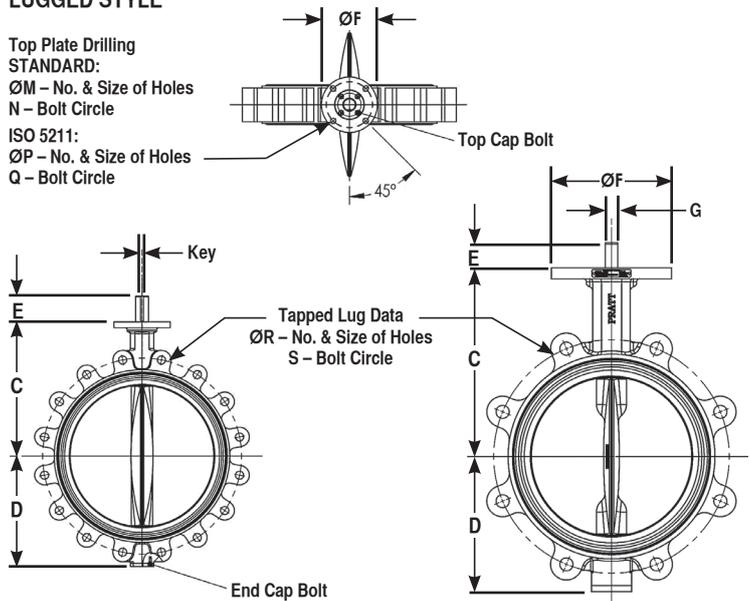| Valve Size	C	D	E	ØF	G	No.-ØM	N	No.-ØP	Q	No.-ØR*	S	Key	Wt-lb (kg)*
2"/DN50	5 (127)	2 9/16 (66)	1 1/4 (32)	4 (102)	3/8 (10)	4 – 7/16 (11)	3 1/4 (83)	4 – 3/8 (10)	2 3/4 (70)	4 – 7/16 (11)	4 3/4 (121)	–	5 (2.2)
2 1/2"/DN65	5 1/2 (140)	2 7/8 (73)	1 1/4 (32)	4 (102)	3/8 (10)	4 – 7/16 (11)	3 1/4 (83)	4 – 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 15/16 (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 5/16 (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 5/16 (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 11/16 (500)	16 11/16 (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

Top Cap Bolt

Key

Tapped Lug Data
ØR – No. & Size of Holes
S – Bolt Circle

End Cap Bolt

Mueller Co.
Reliable Connections®