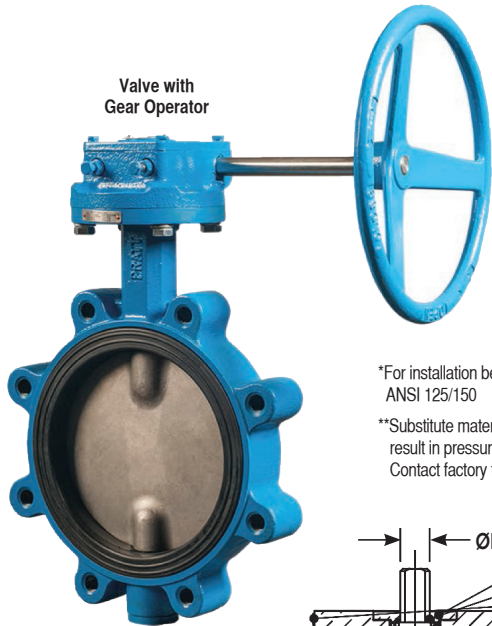


# BF Series Wafer/Lug Butterfly Valves

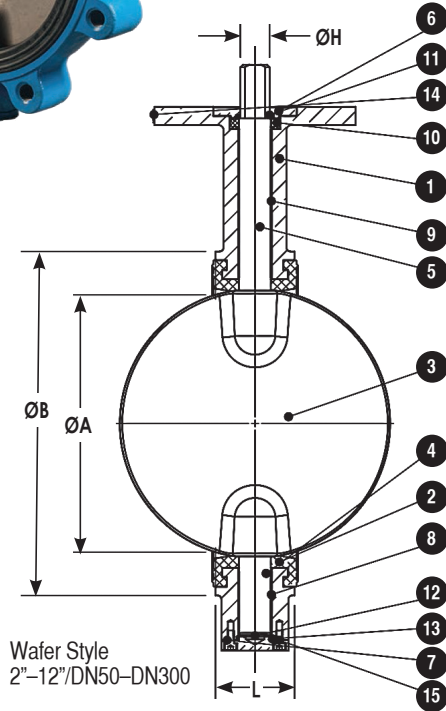


## PRODUCT FEATURES

- 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

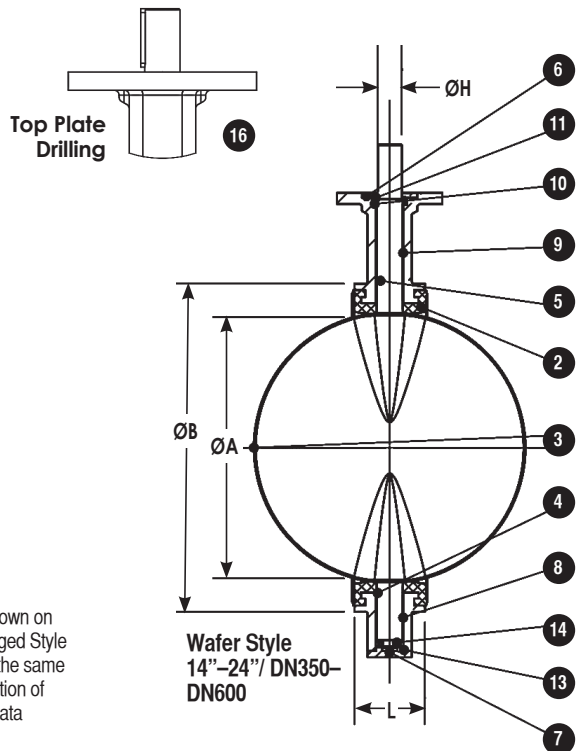
\*\*Substitute material may result in pressure rating change. Contact factory for details.



## 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.



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



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Mueller Co. International Division • 6125 Preservation Dr., Suite 200 • Chattanooga, TN 37416 USA  
p +1.423.490.9555 • f +1.423.531.0033 • international@muellercompany.com • [mueller-international.com](http://mueller-international.com)

Form 13059 – Rev 10/16

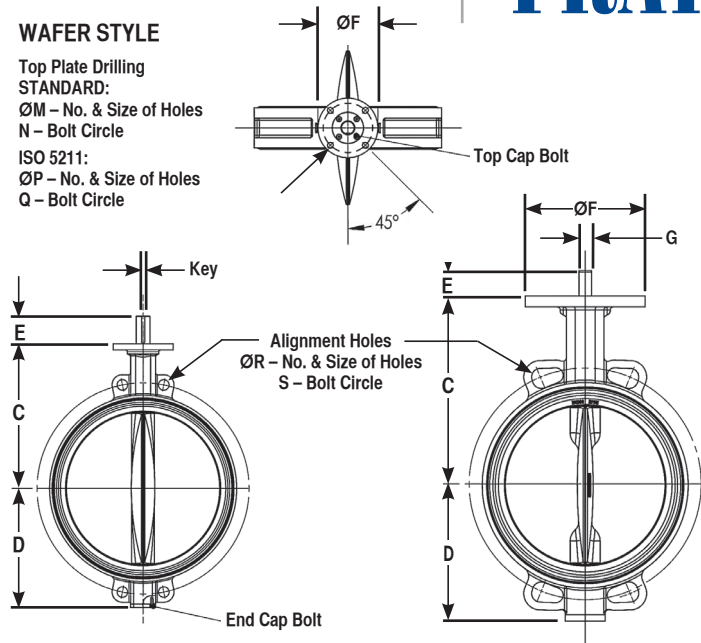
# BF Series Wafer/Lug Butterfly Valves



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 <sup>9</sup> / <sub>16</sub> (66)	1 <sup>1</sup> / <sub>4</sub> (32)	4 (102)	<sup>3</sup> / <sub>8</sub> (10)	4- <sup>7</sup> / <sub>16</sub> (11)	3 <sup>1</sup> / <sub>4</sub> (83)	4- <sup>3</sup> / <sub>8</sub> (10)	2 <sup>3</sup> / <sub>4</sub> (70)	4- <sup>7</sup> / <sub>16</sub> (11)	4 <sup>3</sup> / <sub>4</sub> (121)	-	5 (2.2)
2 <sup>1</sup> / <sub>2</sub> "/DN65	5 <sup>1</sup> / <sub>2</sub> (140)	2 <sup>7</sup> / <sub>8</sub> (73)	1 <sup>1</sup> / <sub>4</sub> (32)	4 (102)	<sup>3</sup> / <sub>8</sub> (10)	4- <sup>7</sup> / <sub>16</sub> (11)	3 <sup>1</sup> / <sub>4</sub> (83)	4- <sup>3</sup> / <sub>8</sub> (10)	2 <sup>3</sup> / <sub>4</sub> (70)	4- <sup>7</sup> / <sub>16</sub> (11)	5 <sup>1</sup> / <sub>2</sub> (140)	-	6 (2.8)
3"/DN80	5 <sup>11</sup> / <sub>16</sub> (145)	3 <sup>5</sup> / <sub>8</sub> (92)	1 <sup>1</sup> / <sub>4</sub> (32)	4 (102)	<sup>3</sup> / <sub>8</sub> (10)	4- <sup>7</sup> / <sub>16</sub> (11)	3 <sup>1</sup> / <sub>4</sub> (83)	4- <sup>3</sup> / <sub>8</sub> (10)	2 <sup>3</sup> / <sub>4</sub> (70)	4- <sup>7</sup> / <sub>16</sub> (11)	6 (152)	-	7 (3)
4"/DN100	6 <sup>1</sup> / <sub>2</sub> (165)	4 <sup>7</sup> / <sub>16</sub> (113)	1 <sup>1</sup> / <sub>4</sub> (32)	4 (102)	<sup>7</sup> / <sub>16</sub> (11)	4- <sup>7</sup> / <sub>16</sub> (11)	3 <sup>1</sup> / <sub>4</sub> (83)	4- <sup>3</sup> / <sub>8</sub> (10)	2 <sup>3</sup> / <sub>4</sub> (70)	4- <sup>7</sup> / <sub>16</sub> (11)	7 <sup>1</sup> / <sub>2</sub> (190)	-	11 (5)
5"/DN125	7 <sup>1</sup> / <sub>2</sub> (190)	4 <sup>9</sup> / <sub>16</sub> (125)	1 <sup>1</sup> / <sub>4</sub> (32)	4 (102)	<sup>1</sup> / <sub>2</sub> (13)	4- <sup>7</sup> / <sub>16</sub> (11)	3 <sup>1</sup> / <sub>4</sub> (83)	4- <sup>3</sup> / <sub>8</sub> (10)	2 <sup>3</sup> / <sub>4</sub> (70)	4- <sup>7</sup> / <sub>16</sub> (22)	8 <sup>1</sup> / <sub>2</sub> (216)	-	16 (7)
6"/DN150	7 <sup>7</sup> / <sub>8</sub> (200)	5 <sup>7</sup> / <sub>16</sub> (138)	1 <sup>1</sup> / <sub>4</sub> (32)	4 (102)	<sup>1</sup> / <sub>2</sub> (13)	4- <sup>7</sup> / <sub>16</sub> (11)	3 <sup>1</sup> / <sub>4</sub> (83)	4- <sup>3</sup> / <sub>8</sub> (10)	2 <sup>3</sup> / <sub>4</sub> (70)	4- <sup>7</sup> / <sub>16</sub> (22)	9 <sup>1</sup> / <sub>2</sub> (241)	-	18 (8)
8"/DN200	9 <sup>1</sup> / <sub>2</sub> (241)	6 <sup>13</sup> / <sub>16</sub> (173)	1 <sup>1</sup> / <sub>4</sub> (32)	6 (152)	<sup>5</sup> / <sub>8</sub> (16)	4- <sup>9</sup> / <sub>16</sub> (14)	5 (127)	4- <sup>9</sup> / <sub>16</sub> (14)	4 <sup>15</sup> / <sub>16</sub> (125)	4- <sup>7</sup> / <sub>8</sub> (22)	11 <sup>3</sup> / <sub>4</sub> (298)	-	32 (14)
10"/DN250	10 <sup>7</sup> / <sub>8</sub> (276)	8 <sup>1</sup> / <sub>8</sub> (206)	2 (51)	6 (152)	-	4- <sup>9</sup> / <sub>16</sub> (14)	5 (127)	4- <sup>9</sup> / <sub>16</sub> (14)	4 <sup>15</sup> / <sub>16</sub> (125)	4-1 (25)	14 <sup>1</sup> / <sub>4</sub> (362)	1 <sup>1</sup> / <sub>4</sub> x 1 <sup>1</sup> / <sub>4</sub> (6x6)	50 (23)
12"/DN300	12 <sup>3</sup> / <sub>16</sub> (310)	9 <sup>11</sup> / <sub>16</sub> (247)	2 (51)	6 (152)	-	4- <sup>9</sup> / <sub>16</sub> (14)	5 (127)	4- <sup>9</sup> / <sub>16</sub> (14)	4 <sup>15</sup> / <sub>16</sub> (125)	4-1 (25)	17 (432)	1 <sup>1</sup> / <sub>4</sub> x 1 <sup>1</sup> / <sub>4</sub> (6x6)	67 (30)
14"/DN350	13 (330)	11 (279)	2 <sup>3</sup> / <sub>4</sub> (70)	6 (152)	-	4- <sup>9</sup> / <sub>16</sub> (14)	5 (127)	4- <sup>9</sup> / <sub>16</sub> (14)	4 <sup>15</sup> / <sub>16</sub> (125)	4-1 <sup>1</sup> / <sub>8</sub> (28)	18 <sup>3</sup> / <sub>4</sub> (476)	5 <sup>1</sup> / <sub>16</sub> x 9 <sup>1</sup> / <sub>16</sub> (8x8)	80 (36)
16"/DN400	14 <sup>9</sup> / <sub>16</sub> (370)	12 (304)	2 <sup>3</sup> / <sub>4</sub> (70)	6 (152)	-	4- <sup>9</sup> / <sub>16</sub> (14)	5 (127)	4- <sup>9</sup> / <sub>16</sub> (14)	4 <sup>15</sup> / <sub>16</sub> (125)	4-1 <sup>1</sup> / <sub>8</sub> (28)	21 <sup>1</sup> / <sub>4</sub> (540)	5 <sup>1</sup> / <sub>16</sub> x 9 <sup>1</sup> / <sub>16</sub> (8x8)	110 (50)
18"/DN450	15 <sup>9</sup> / <sub>16</sub> (395)	13 <sup>3</sup> / <sub>16</sub> (335)	3 (76)	8 (203)	-	4- <sup>13</sup> / <sub>16</sub> (21)	6 <sup>1</sup> / <sub>2</sub> (165)	4- <sup>13</sup> / <sub>16</sub> (21)	6 <sup>1</sup> / <sub>2</sub> (165)	4-1 <sup>1</sup> / <sub>4</sub> (32)	22 <sup>3</sup> / <sub>4</sub> (578)	<sup>3</sup> / <sub>8</sub> x <sup>3</sup> / <sub>8</sub> (10x10)	161 (73)
20"/DN500	16 <sup>7</sup> / <sub>8</sub> (428)	14 <sup>1</sup> / <sub>2</sub> (369)	3 <sup>1</sup> / <sub>2</sub> (89)	8 (203)	-	4- <sup>13</sup> / <sub>16</sub> (21)	6 <sup>1</sup> / <sub>2</sub> (165)	4- <sup>13</sup> / <sub>16</sub> (21)	6 <sup>1</sup> / <sub>2</sub> (165)	4-1 <sup>1</sup> / <sub>4</sub> (32)	25 (635)	1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> (13x13)	207 (94)
24"/DN600	19 <sup>1</sup> / <sub>16</sub> (500)	16 <sup>1</sup> / <sub>16</sub> (424)	3 <sup>1</sup> / <sub>2</sub> (89)	8 (203)	-	4- <sup>13</sup> / <sub>16</sub> (21)	6 <sup>1</sup> / <sub>2</sub> (165)	4- <sup>13</sup> / <sub>16</sub> (21)	6 <sup>1</sup> / <sub>2</sub> (165)	4-1 <sup>3</sup> / <sub>8</sub> (35)	29 <sup>1</sup> / <sub>2</sub> (749)	1 <sup>1</sup> / <sub>2</sub> x 1 <sup>1</sup> / <sub>2</sub> (13x13)	317 (144)

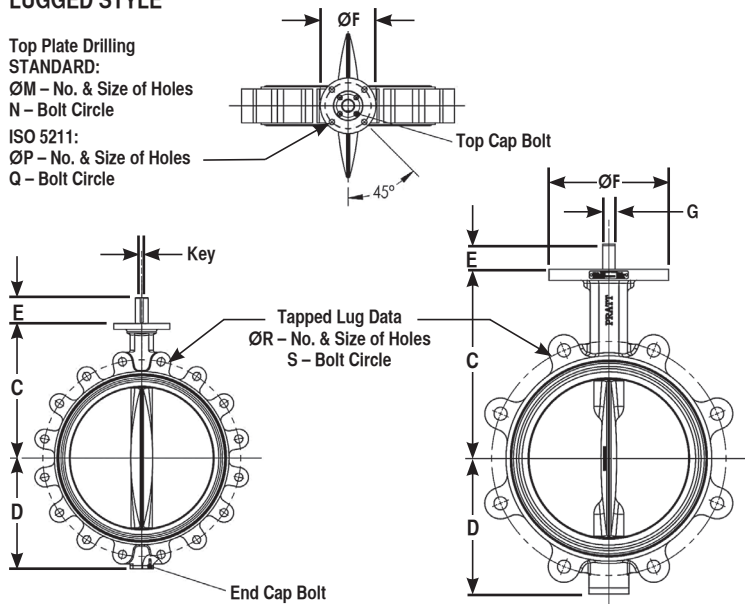
\*Alignment Holes and Weight - Wafer Style only.

## TAPPED LUG DATA DIMENSIONS - inches (mm)

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