

PRATT®

a **MUELLER** brand

BF SERIES WAFER / LUG BUTTERFLY VALVES

PRODUCT FEATURES

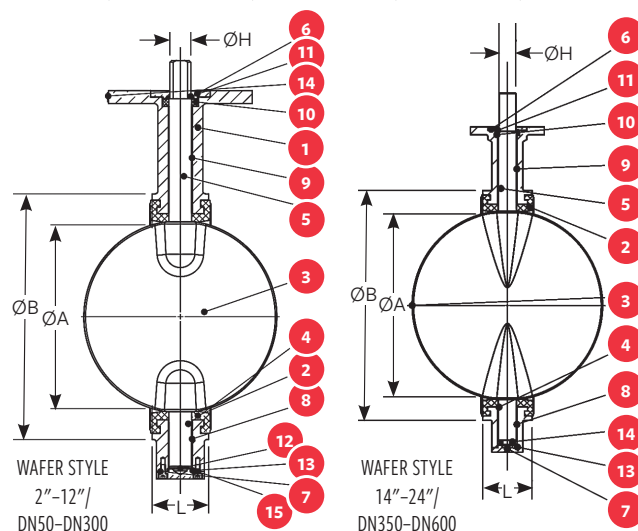
- Sizes: 2" – 48"/DN50 – DN1200.
- Pressure Ratings: 2" – 12"/DN50 – DN300, 230psi/16barg; 14" – 48"/DN350 – DN1200, 150psi/12barg.
- Unique 3 point connection, tongue and groove seat allows for higher pressure rating, low operating torque and end-of-line service.
- Secondary shaft seals prevent fluid 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.

VALVE WITH
GEAR OPERATOR



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 ¹ / 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 ¹ / ₁₆ (183)	³ / ₄ (19)	2 ³ / ₁₆ (56)
6"/DN150	5 ¹ / 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 ³ / 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)

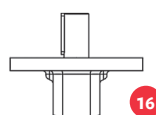


PARTS LIST

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



* For installation between ANSI 125/150

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

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

MUELLER



SHOWN WITH
ACTUATOR FITTED

WAVER STYLE

Top Plate Drilling

Standard:

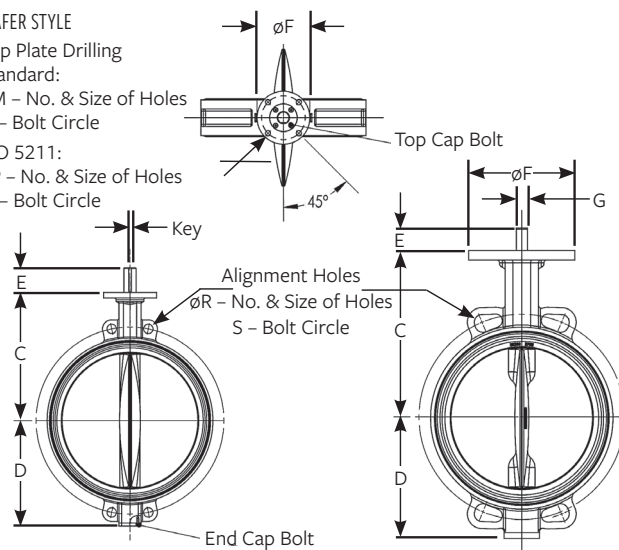
øM – No. & Size of Holes

N – Bolt Circle

ISO 5211:

øP – No. & Size of Holes

Q – Bolt Circle



WAVER 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 1/16 (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 1/16 (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 1/8 (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 - 7/16 (11)	5 (127)	4 - 3/8 (10)	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 - 7/16 (14)	5 (127)	4 - 3/8 (10)	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 - 7/16 (14)	5 (127)	4 - 3/8 (10)	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 - 7/16 (14)	5 (127)	4 - 3/8 (10)	4 15/16 (125)	4 - 1 1/8 (28)	18 3/4 (476)	5/16 x 5/16 (8x8)	80 (36)
16"/DN400	14 1/16 (370)	12 (304)	2 3/4 (70)	6 (152)	-	4 - 7/16 (14)	5 (127)	4 - 3/8 (10)	4 15/16 (125)	4 - 1 1/8 (28)	21 1/4 (540)	5/16 x 5/16 (8x8)	110 (50)
18"/DN450	15 5/8 (395)	13 3/8 (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:

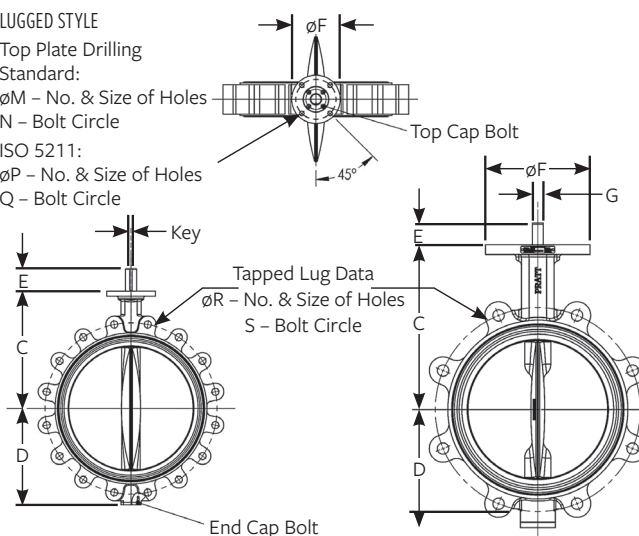
øM – No. & Size of Holes

N – Bolt Circle

ISO 5211:

øP – No. & Size of Holes

Q – Bolt Circle



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