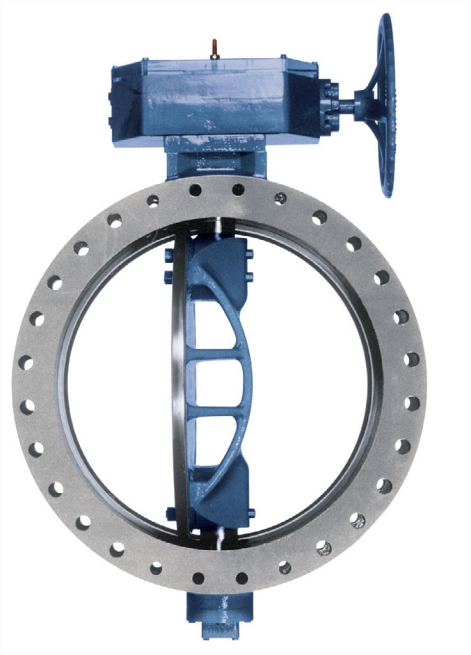
PRATT®

a MUELLER brand

PRATT® AWWA
Segmented Seat Butterfly Valve

SCOPE OF LINE

Sizes	24″ through 108″ (FL Ends, ANSI 150# with 125 drilling) 24″ through 48″ (MJ Ends)
Pressure	Class 150B per AWWA Standard C504 or C516
Actuation Options	Handwheel, Electric Motor, Pneumatic or Hydraulic Cylinder, Chainwheel



BUTTERFLY VALVE

FEATURES AND BENEFITS

- Rubber seat in body reduces the chance of seat damage from tuberculation or other solids
- Recessed segmented seat retention allows for simple bi-directional point adjustment on rubber seat while keeping hardware out of flowstream
- Mechanically adjustable seat means no special tools or training required to adjust and/or replace the seat
- 2-Part epoxy coating reduces potential corrosion and extends valve life
- Flow though disc design results in lower head-loss than

MATERIALS OF CONSTRUCTION

Body	ASTM A126 Cl B Cast Iron (Ductile Iron Available)
Disc	ASTM A536 Ductile Iron
Disc Edge	ASTM A276 Type 316 Stainless Steel
Seat	Buna N / EPDM Rubber Retained in the Body
Seat Segments	ASTM A276 Type 316 Stainless Steel
Shaft	ASTM A276 Type 304 Stainless Steel
Bearings	Teflon Lined Fiberglass Backed
Packing	Buna N / EPDM - V Type Packing
Paint	Liquid Epoxy Conforming to NSF 61 (lined and coated)

SUGGESTED SPECIFICATION

GENERAL

All butterfly valves shall be of the tight closing, rubber seat type conforming to the design standards of ANSI / AWWA C504 or C516. Valves shall be bubble-tight at the rated pressure in either direction and shall be suitable for throttling service and/or operation after long periods of inactivity. Manufacturer shall have a minimum of five (5) years experience producing AWWA butterfly valves.

BODY

All valve bodies shall be constructed of ASTM A126 Class B cast iron. Flanged valves shall have ANSI B16.1 flanges with class 125# drilling. Mechanical Joint Valves shall have ends conforming to the ANSI / AWWA C111 / A21.11 standard.

SEAT

On 24″ and larger valves the seat shall be adjustable and replaceable in the field without the use of special tools. Valve seats on valves 24″ and larger will be designed for bi-directional adjustment without removal of the seat. Valve designs with the rubber seat on the disc are not acceptable.

DISC

The discs shall be constructed of ASTM A536 Ductile Iron with a 316 stainless steel edge. 24″ and larger discs will be the flow through design.

SHAFT

The valve shaft shall be constructed of stainless steel ASTM A276 type 304. On valves 24″ and larger, a taper pin of 316 stainless steel will be used as the disc / shaft connection.

BEARINGS

All shaft bearing shall be of the self-lubrication, corrosion-resistant sleeve type. Bearings shall be designed for horizontal and/or vertical shaft loading.

PACKING

On valves 24″ and larger the packing will be V-type.
All packing will be self adjusting and wear compensating. Valve packing arrangement shall be designed so that actuator removal will not result in packing seal failure.

PAINT

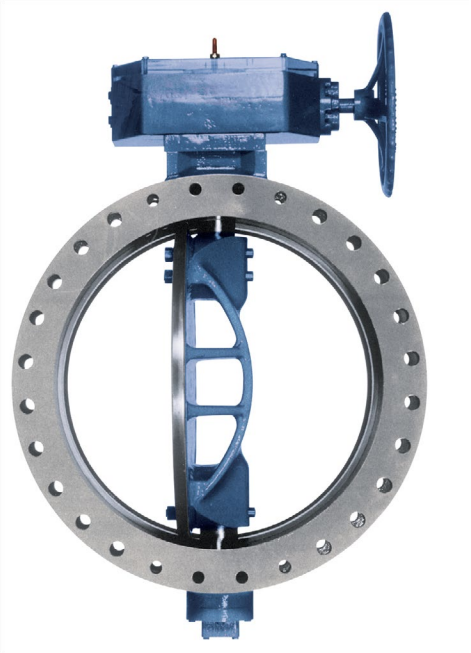
Valves 24″ and larger will be lined and coated with a liquid epoxy conforming to AWWA C550 and NSF61. Coatings will be a minimum of 8 mils DFT.

TESTING

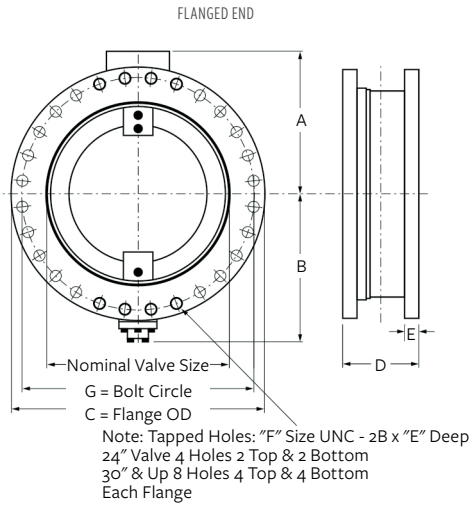
All valves shall be hydrostatic and leak tested in accordance with ANSI / AWWA C504 or C516.

ACTUATORS

Actuators shall be AWWA approved actuators as specified by the customer at time of order.
Valves shall be Pratt® AWWA Segmented Seat Butterfly Valve or approved equivalent.



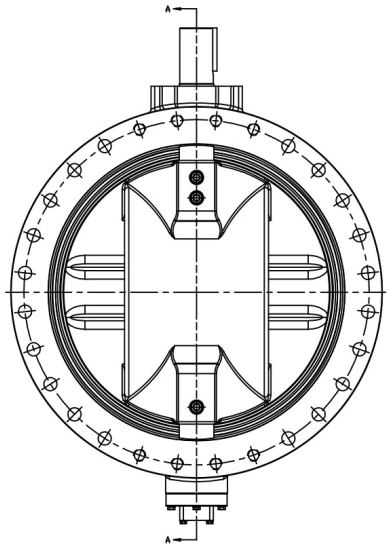
24”-108” PRATT® SEGMENTED SEAT BUTTERFLY VALVE, FLANGED ENDS

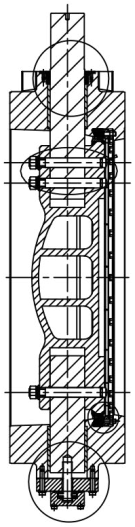


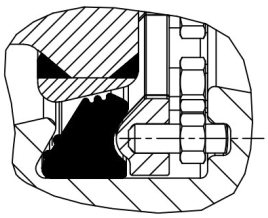
VALVE SIZE	A	B	C	D	E	F	G
24”	18-5/8	16-1/2	32	8	1-7/8	20 - 1-1/4	29-1/2
30”	21-1/2	24-1/8	38-3/4	12	2-1/8	28 - 1-1/4	36
36”	25-7/16	28	46	12	2-3/8	32 - 1-1/2	42-3/4
42”	29-7/8	32-11/16	53	12	2-5/8	36 - 1-1/2	49-1/2
48”	34-1/16	36-7/8	59-1/2	15	2-3/4	44 - 1-1/2	56
54”	37-1/2	40-11/16	66-1/4	15	3	44 - 1-1/2	62-3/4
60”	41-3/4	45-3/16	73	15	3-1/8	52 - 1-3/4	69-1/4
66”	46-1/16	49-1/2	80	18	3-3/8	52 - 1-3/4	76
72”	50	53-1/8	86-1/2	18	3-1/2	60- 1-3/4	82-1/2
78”	50	54-5/8	93	20	3-1/4	3-1/4	64 - 2
84”	54-7/8	59-5/8	99-3/4	24	3-7/8	3-7/8	64 - 2
90”	60-13/16	69-1/4	106-1/2	23	4-1/16	4-1/16	68 - 2-1/4
96”	68	75-3/4	113-1/4	26	4	4	68 - 2-1/4
102”	70-7/8	76-3/4	120	27	4-1/4	4-1/4	72 - 2-1/2
108”	73-1/4	81-7/8	126-3/4	29	4-5/8	4-5/8	72 - 2-1/2

*Contact a Pratt representative for larger sizes

PRATT SEGMENTED SEAT BFV DESIGN DETAILS







24”-48” PRATT® SEGMENTED SEAT BUTTERFLY VALVE, MECHANICAL JOINT ENDS

VALVE SIZE	A	B	C	D	E	F	G	X
24”	18-5/8	16-1/2	31-9/16	14-1/8	1-5/8	16-3/4	30	7-1/8
30”	21-1/2	24-1/8	39	20	1-13/16	20 - 1	36-7/8	10
36”	25-7/16	28	45-7/8	22	2	24 - 1	43-3/4	14
42”	29-7/8	33	53	22	2	28 - 1-1/4	50-5/8	14
48”	34-1/16	36-7/8	59-7/8	24	2	32 - 1-1/4	57-1/2	16

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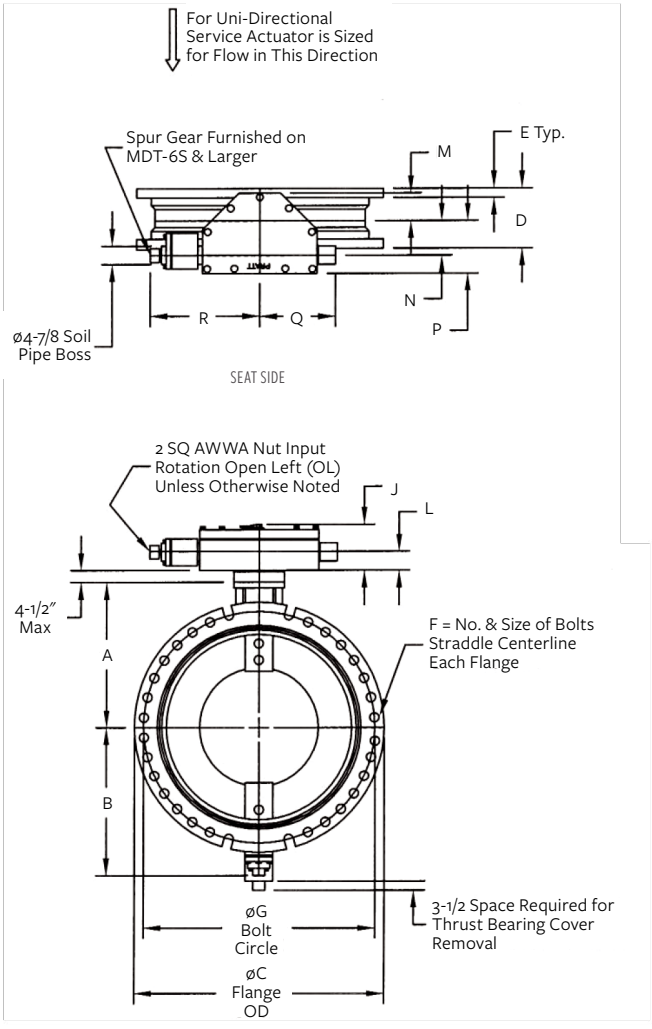

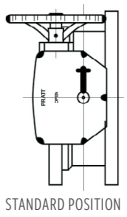

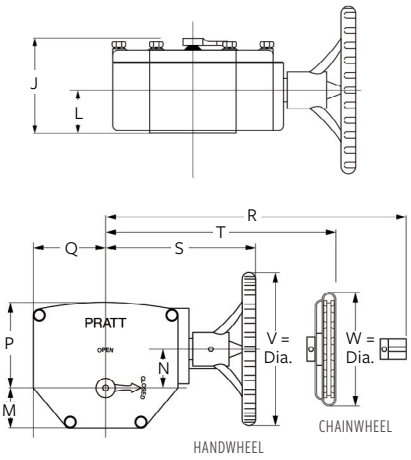

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