

## PIVA – POST INDICATOR VALVE ASSEMBLY For Seawater Service

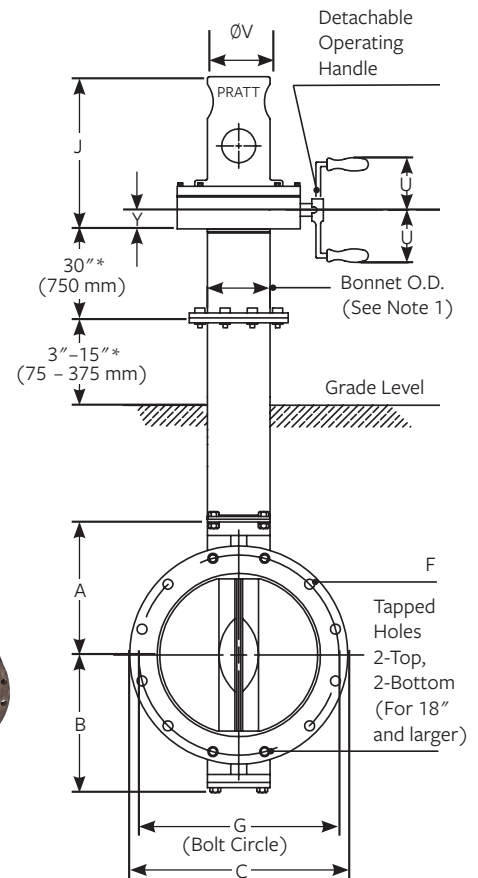
### PRODUCT FEATURES

The Pratt Post Indicator Valve Assembly (PIVA) is a manually operated, buried Butterfly Valve with a high visibility target. The PIVA includes a Torque Spring feature, if the Valve Indicator is damaged, the Torque Spring maintains the Valve in an open position.

- 3"/DN80 – 24"/DN600, UL Listed to 250psig/17barg.
- Wafer Style PIVA also available (lower pressure ratings apply).
- Torque Spring feature.
- Valve position visible from 300'/100m away.
- Ease of operation. Can be easily opened or closed by one person.
- Design includes a Safety/Traffic Break feature.
- Equipped with a weather proof Actuator.
- Does not require exercising.

### MATERIALS OF CONSTRUCTION

| PART                    | MATERIAL                                               |
|-------------------------|--------------------------------------------------------|
| <b>Body</b>             | Ductile Iron ASTM A536 (65-45-12) – Fully Rubber Lined |
| <b>Disc</b>             | Nickel-Aluminium-Bronze (NAB) ASTM B505 – C95500       |
| <b>Seat</b>             | NBR (EPDM option available)                            |
| <b>Shaft</b>            | Super Duplex ASTM A479                                 |
| <b>Post and Spindle</b> | Carbon Steel                                           |



### DIMENSIONS - INCHES (MM)

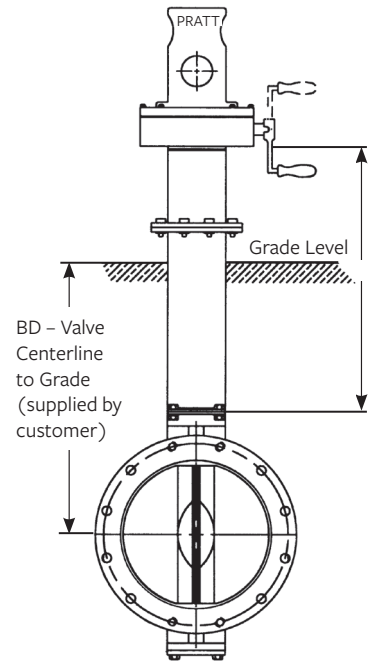
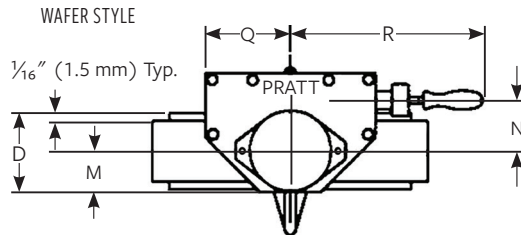
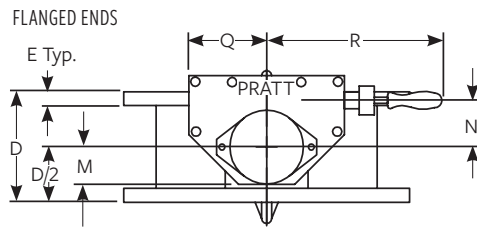
| VALVE SIZE | A                      | B                      | C-FLANGE               | C-WAFER                | F=QTY - ØBOLT - ØHOLE                            | G                      |
|------------|------------------------|------------------------|------------------------|------------------------|--------------------------------------------------|------------------------|
| 3"/DN80    | 5 $\frac{1}{8}$ (130)  | 3 $\frac{3}{4}$ (95)   | 7 $\frac{1}{2}$ (191)  | 4 $\frac{1}{4}$ (108)  | 4 - $\frac{5}{8}$ (16) - $\frac{3}{4}$ (19)      | 6 (152)                |
| 4"/DN100   | 5 $\frac{7}{8}$ (149)  | 4 $\frac{1}{2}$ (114)  | 9 (229)                | 6 $\frac{3}{4}$ (171)  | 8 - $\frac{5}{8}$ (16) - $\frac{3}{4}$ (19)      | 7 $\frac{1}{2}$ (190)  |
| 6"/DN150   | 6 $\frac{7}{8}$ (175)  | 5 $\frac{1}{2}$ (140)  | 11 (279)               | 8 $\frac{5}{8}$ (219)  | 8 - $\frac{3}{4}$ (19) - $\frac{7}{8}$ (22)      | 9 $\frac{1}{2}$ (241)  |
| 8"/DN200   | 8 $\frac{1}{8}$ (206)  | 6 $\frac{3}{4}$ (172)  | 13 $\frac{1}{2}$ (343) | 10 $\frac{7}{8}$ (276) | 8 - $\frac{3}{4}$ (19) - $\frac{7}{8}$ (22)      | 11 $\frac{3}{4}$ (298) |
| 10"/DN250  | 9 $\frac{3}{8}$ (238)  | 9 $\frac{7}{8}$ (251)  | 16 (406)               | 13 $\frac{1}{4}$ (337) | 12 - $\frac{7}{8}$ (22) - 1 (25)                 | 14 $\frac{1}{4}$ (362) |
| 12"/DN300  | 11 (279)               | 11 $\frac{3}{8}$ (289) | 19 (483)               | 16 (406)               | 12 - $\frac{7}{8}$ (22) - 1 (25)                 | 17 (432)               |
| 14"/DN350  | 12 $\frac{3}{8}$ (314) | 12 $\frac{5}{8}$ (321) | 21 (533)               | 17 $\frac{5}{8}$ (448) | 12 - 1 (25) - 1 $\frac{1}{8}$ (28)               | 18 $\frac{3}{4}$ (476) |
| 16"/DN400  | 14 (356)               | 14 $\frac{1}{2}$ (368) | 23 $\frac{1}{2}$ (597) | 20 $\frac{1}{8}$ (511) | 16 - 1 (25) - 1 $\frac{1}{8}$ (28)               | 21 $\frac{1}{4}$ (540) |
| 18"/DN450  | 14 $\frac{7}{8}$ (378) | 15 $\frac{1}{4}$ (387) | 25 (635)               | 21 $\frac{1}{2}$ (546) | 16 - 1 $\frac{1}{8}$ (28) - 1 $\frac{1}{4}$ (32) | 22 $\frac{3}{4}$ (578) |
| 20"/DN500  | 16 $\frac{1}{2}$ (419) | 17 (432)               | 27 $\frac{1}{2}$ (698) | 23 $\frac{3}{4}$ (603) | 20 - 1 $\frac{1}{8}$ (28) - 1 $\frac{1}{4}$ (32) | 25 (635)               |
| 24"/DN600  | 19 $\frac{5}{8}$ (492) | 18 $\frac{1}{2}$ (470) | 32 (813)               | —                      | 20 - 1 $\frac{1}{4}$ (32) - 1 $\frac{1}{2}$ (38) | 29 $\frac{1}{2}$ (749) |

| ACTUATOR SIZE | VALVE SIZE            | J                      | U                      | ØV                    | Y                      | NO. OF TURNS |
|---------------|-----------------------|------------------------|------------------------|-----------------------|------------------------|--------------|
| MDT-2S        | 3"/DN80 – 8"/DN200    | 12 (304)               | 8 $\frac{5}{8}$ (219)  | 4 $\frac{1}{2}$ (114) | 2 (51)                 | 32           |
| MDT-3S        | 10"/DN250 – 14"/DN350 | 12 $\frac{7}{8}$ (327) | 8 $\frac{5}{8}$ (219)  | 4 $\frac{1}{2}$ (114) | 2 $\frac{7}{16}$ (62)  | 30           |
| MDT-4S        | 16"/DN400 – 18"/DN450 | 13 $\frac{1}{2}$ (343) | 12 $\frac{5}{8}$ (319) | 4 $\frac{1}{2}$ (114) | 22 $\frac{7}{32}$ (72) | 40           |
| MDT-5         | 20"/DN500             | 14 $\frac{3}{4}$ (375) | 12 $\frac{5}{8}$ (319) | 4 $\frac{1}{2}$ (114) | 3 $\frac{1}{2}$ (89)   | 44           |
| MDT-5S        | 24"/DN600             | 17 $\frac{1}{4}$ (438) | 12 $\frac{5}{8}$ (319) | 4 $\frac{1}{2}$ (114) | 4 (102)                | 136          |

#### Notes:

1. Outer Tube O.D. is 4 $\frac{1}{2}$ " (114 mm) on sizes 8"/DN200 and smaller, 5 $\frac{1}{8}$ " (141 mm) on Valve sizes 10"/DN250 – 14"/DN350, 6 $\frac{7}{8}$ " (168 mm) on Valve sizes 16"/DN400 and 18"/DN450, 8 $\frac{5}{8}$ " (219 mm) on 20"/DN500 – 24"/DN600.

\*For sizes 20"/DN500 & 24"/DN600, grade to Gear dimension 23" (585 mm) – 45" (1145 mm), based on Bury Depth (BD).



| BURIED DEPTH - BD | BD - VALVE SIZE         |                       |                       | L - VALVE SIZE      |  |
|-------------------|-------------------------|-----------------------|-----------------------|---------------------|--|
|                   | 3"/DN80                 | 4"/DN100              | 6"/DN150              | 3"/DN80 - 18"/DN450 |  |
|                   | 1'2¼"-2'2¼" (362-667)   | 1'3"-2'3" (381-686)   | 1'4"-2'4" (406-711)   | 54 (1372)           |  |
|                   | 2'2¼"-3'2¼" (667-971)   | 2'3"-3'3" (686-991)   | 2'4"-3'4" (711-1016)  | 66 (1676)           |  |
|                   | 3'2¼"-4'2¼" (971-1276)  | 3'3"-4'3" (991-1295)  | 3'4"-4'4" (1016-1321) | 78 (1981)           |  |
|                   | 4'2¼"-5'2¼" (1276-1581) | 4'3"-5'3" (1295-1600) | 4'4"-5'4" (1321-1626) | 90 (2286)           |  |
|                   | 5'2¼"-6'2¼" (1581-1886) | 5'3"-6'3" (1600-1905) | 5'4"-6'4" (1626-1930) | 102 (2591)          |  |
|                   | 6'2¼"-7'2¼" (1886-2191) | 6'3"-7'3" (1905-2210) | 6'4"-7'4" (1930-2235) | 114 (2896)          |  |
|                   | 7'2¼"-8'2¼" (2191-2495) | 7'3"-8'3" (2210-2515) | 7'4"-8'4" (2235-2540) | 126 (3200)          |  |

| BURIED DEPTH - BD | BD - VALVE SIZE       |                       |                       |                       |                         | L - VALVE SIZE          |                     |
|-------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------------------|-------------------------|---------------------|
|                   | 8"/DN200              | 10"/DN250             | 12"/DN300             | 14"/DN350             | 16"/DN400               | 18"/DN450               | 3"/DN80 - 18"/DN450 |
|                   | 1'5"-2'5" (432-737)   | 1'6"-2'6" (457-762)   | 1'8"-2'8" (508-813)   | 1'9"-2'9" (533-838)   | 1'10"-2'10" (559-867)   | 1'11"-2'11" (584-889)   | 54 (1372)           |
|                   | 2'5"-3'5" (737-1041)  | 2'6"-3'6" (762-1067)  | 2'8"-3'8" (813-1118)  | 2'9"-3'9" (838-1143)  | 2'10"-3'10" (867-1168)  | 2'11"-3'11" (889-1194)  | 66 (1676)           |
|                   | 3'5"-4'5" (1041-1346) | 3'6"-4'6" (1067-1372) | 3'8"-4'8" (1118-1422) | 3'9"-4'9" (1143-1448) | 3'10"-4'10" (1168-1473) | 3'11"-4'11" (1194-1499) | 78 (1981)           |
|                   | 4'5"-5'5" (1346-1651) | 4'6"-5'6" (1372-1676) | 4'8"-5'8" (1422-1727) | 4'9"-5'9" (1448-1753) | 4'10"-5'10" (1473-1778) | 4'11"-5'11" (1499-1803) | 90 (2286)           |
|                   | 5'5"-6'5" (1651-1956) | 5'6"-6'6" (1676-1981) | 5'8"-6'8" (1727-2032) | 5'9"-6'9" (1753-2057) | 5'10"-6'10" (1778-2083) | 5'11"-6'11" (1803-2108) | 102 (2591)          |
|                   | 6'5"-7'5" (1956-2261) | 6'6"-7'6" (1981-2286) | 6'8"-7'8" (2032-2337) | 6'9"-7'9" (2057-2362) | 6'10"-7'10" (2083-2388) | 6'11"-7'11" (2108-2413) | 114 (2896)          |
|                   | 7'5"-8'5" (2261-2565) | 7'6"-8'6" (2286-2591) | 7'8"-8'8" (2337-2642) | 7'9"-8'9" (2362-2667) | 7'10"-8'10" (2388-2692) | 7'11"-8'11" (2413-2718) | 126 (3200)          |

| BURIED DEPTH - BD | BD - VALVE SIZE       |            | L - VALVE SIZE |  | ACTUATOR SIZE |                       | VALVE SIZE |          | M         | N         | Q | R |
|-------------------|-----------------------|------------|----------------|--|---------------|-----------------------|------------|----------|-----------|-----------|---|---|
|                   | 20"/DN500 & 24"/DN600 | 20"/DN500  | 24"/DN600      |  | MDT-2S        | 3"/DN80 - 8"/DN200    | 2½ (54)    | 2 (51)   | 4½ (114)  | 13½ (287) |   |   |
|                   | 2'6"-3'3" (762-990)   | 49 (1245)  | 48 (1219)      |  | MDT-3S        | 10"/DN250 - 14"/DN350 | 3¼ (83)    | 3½ (80)  | 5½ (136)  | 15½ (392) |   |   |
|                   | 3'3"-4'9" (990-1448)  | 67 (1701)  | 62 (1575)      |  | MDT-4S        | 16"/DN400 - 18"/DN450 | 3¾ (86)    | 4 (102)  | 6¾ (171)  | 18¾ (476) |   |   |
|                   | 4'9"-6'3" (1448-1855) | 85 (2159)  | 80 (2032)      |  | MDT-5         | 20"/DN500             | 4½ (114)   | 5½ (140) | 10½ (257) | 24 (610)  |   |   |
|                   | 6'3"-7'9" (1855-2362) | 103 (2616) | 98 (2489)      |  | MDT-5S        | 24"/DN600             | 5½ (140)   | 3¾ (92)  | 15½ (405) | 26½ (660) |   |   |
|                   | 7'9"-9'3" (2362-2820) | 121 (3073) | 116 (2946)     |  |               |                       |            |          |           |           |   |   |
|                   |                       |            |                |  |               |                       |            |          |           |           |   |   |

| VALVE SIZE       | 3"/DN80 | 4"/DN100 | 6"/DN150 | 8"/DN200 | 10"/DN250 | 12"/DN300 | 14"/DN350 | 16"/DN400 | 18"/DN450 | 20"/DN500 | 24"/DN600 |
|------------------|---------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| D - WAFFER       | 2½ (53) | 2½ (59)  | 2½ (75)  | 3½ (78)  | 3½ (81)   | 3½ (87)   | 3½ (93)   | 4½ (106)  | 4½ (119)  | 5½ (132)  | --        |
| D - FLANGED ENDS | 5 (127) | 5 (127)  | 5 (127)  | 6 (152)  | 8 (203)   | 8 (203)   | 8 (203)   | 8 (203)   | 8 (203)   | 8 (203)   | 8 (203)   |
| E - FLANGED ENDS | 1¾ (21) | 1 (25)   | 1½ (27)  | 1¾ (30)  | 1½ (27)   | 1½ (33)   | 1½ (37)   | 1½ (38)   | 1½ (41)   | 1¾ (44)   | 1½ (49)   |

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