

# PRATT®

a MUELLER brand

## METAL SEAT SOLID Wedge Gate Valve

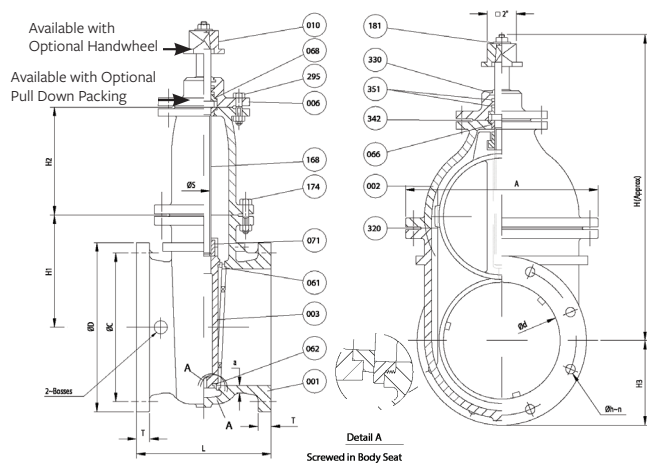
### PRODUCT FEATURES

- Designed and manufactured for use in wastewater and sewage applications. 3" through 96"/DN80 through DN2400
- 250psi/17barg operating temperature
- Ductile Iron (ASTM A536 Gr. 64-45-12) body and disc
- Coated with liquid epoxy
- Bronze (ASTM B62) Disc & Seat Ring
- Conforms with AWWA C500, ANSI B16.1 CL. 125 # Drilling (250# drilling available upon request)
- Available with flanged or mechanical joint ends
- Bronze trim with 304 Stainless Steel stems
- Bronze body and wedge guides in all Valves 13" and larger
- Manufactured with by-passes, clean-out ports, indicator, rollers and tracks and/or extension stems and floor stands.
- Available with o-ring stem seal or pull down packing
- Full flow waterway assures top performance and prevents clogging
- Extra wide bronze surfaces on disc and seat provide large seating area
- Corrosion resistant one piece stem is manufactured using high strength Stainless Steel
- Corrosion fitting stem to wedge connection maintains alignment of components



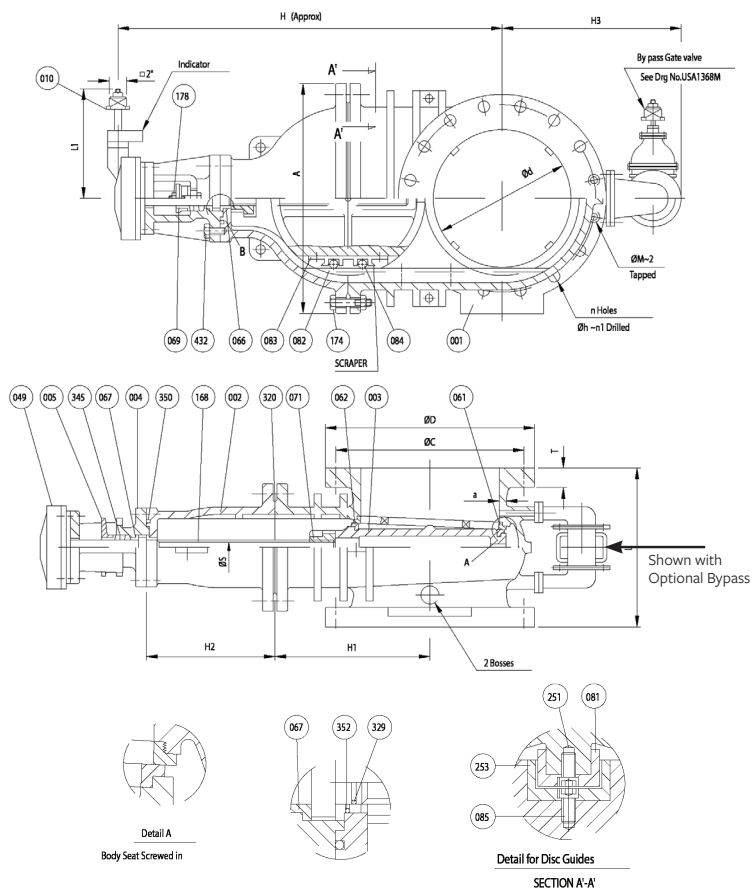
### MATERIAL LIST

| NO. | PARTS                   | MATERIALS         | ASTM DESIGN        | QTY.  |
|-----|-------------------------|-------------------|--------------------|-------|
| 351 | O-Ring                  | Rubber (Buna N)   | D 2000 BK 707      | 2     |
| 342 | Stuffing Box Gasket     | Rubber (Buna)     | D 2000 BK 807      | 1     |
| 330 | Wiper Ring              | Rubber (Buna)     | D 2000 BK 707      | 1     |
| 320 | Bonnet Gasket           | Rubber (Buna)     | D 2000 BK 807      | 1     |
| 299 | Stuffing Box Bolt       | Zinc Coated Steel | A 307 Grade B      | 1 set |
| 295 | Stuffing Box Bolt & Nut | Zinc Coated Steel | A 307 Grade B      | 1 set |
| 181 | Top Nut                 | Zinc Coated Steel | A 307 Grade B      | 1     |
| 175 | Bonnet Bolt & Nut       | Zinc Coated Steel | A 307 Grade B      | 1 set |
| 174 | Bonnet Bolt & Nut       | Zinc Coated Steel | A 307 Grade B      | 1 set |
| 168 | Stem                    | Stainless Steel   | A 272 Type 304     | 1     |
| 071 | Stem Nut                | Bronze            | B62                | 1     |
| 068 | Stuffing Box Bushing    | Bronze            | B62                | 1     |
| 066 | Bonnet Bushing          | Bronze            | B62                | 1     |
| 062 | Disc Seat Ring          | Bronze            | B62                | 2     |
| 061 | Body Seat Ring          | Bronze            | B62                | 2     |
| 010 | Operating Nut           | Cast Iron         | A 126 Class B      | 1     |
| 006 | Stuffing Box            | Ductile Iron      | A 536 Gr. 65-45-12 | 1     |
| 003 | Disc                    | Ductile Iron      | A 536 Gr. 65-45-12 | 1     |
| 002 | Bonnet                  | Ductile Iron      | A 536 Gr. 65-45-12 | 1     |
| 001 | Body                    | Ductile Iron      | A 536 Gr. 65-45-12 | 1     |



### DIMENSIONS - INCHES (MM)

| SIZE ØD    | L         | ØD        | ØC        | ØH     | N        | T       | A (MIN)   | A           | ØS AT BASE OF THREAD | H           | H1          | H2          | H3         |
|------------|-----------|-----------|-----------|--------|----------|---------|-----------|-------------|----------------------|-------------|-------------|-------------|------------|
| IN.        |           |           |           |        |          |         |           |             |                      |             |             |             |            |
| 3 (DN80)   | 8 (203)   | 7½ (191)  | 6 (152)   | ¾ (19) | 4 (102)  | ¾ (19)  | 0.37 (9)  | 7.72 (196)  | 0.874 (22)           | 13.19 (335) | 4.93 (125)  | 3.04 (77)   | 3.75 (95)  |
| 4 (DN100)  | 9 (229)   | 9 (229)   | 7½ (191)  | ¾ (19) | 8 (203)  | 1⅝ (24) | 0.40 (10) | 8.78 (223)  | 0.874 (22)           | 14.68 (373) | 5.71 (145)  | 3.63 (92)   | 4.50 (114) |
| 6 (DN150)  | 10½ (267) | 11 (279)  | 9½ (241)  | ⅞ (22) | 8 (203)  | 1 (25)  | 0.43 (11) | 11.11 (282) | 1.034 (26)           | 18.70 (475) | 7.49 (190)  | 5.44 (138)  | 5.50 (140) |
| 8 (DN200)  | 11½ (292) | 13½ (343) | 11¾ (299) | ⅞ (22) | 8 (203)  | 1⅛ (29) | 0.50 (13) | 14.02 (356) | 1.034 (26)           | 22.00 (559) | 9.06 (230)  | 7.25 (184)  | 6.75 (172) |
| 10 (DN250) | 13 (330)  | 16 (406)  | 14¼ (362) | 1 (25) | 12 (305) | 1¾ (30) | 0.63 (16) | 16.46 (418) | 1.157 (29)           | 25.39 (645) | 10.95 (278) | 8.67 (220)  | 8.00 (203) |
| 12 (DN300) | 14 (356)  | 19 (483)  | 17 (432)  | 1 (25) | 12 (305) | 1¼ (32) | 0.68 (17) | 18.82 (478) | 1.192 (30)           | 28.97 (736) | 11.82 (300) | 11.03 (280) | 9.50 (241) |



## DIMENSIONS - INCHES (MM)"

| SIZE ØD    | L        | ØD       | ANSI B 16.1 CLASS 125 | ØC     | ØH      | N      | T |
|------------|----------|----------|-----------------------|--------|---------|--------|---|
| IN.        |          |          |                       |        |         |        |   |
| 14 (DN350) | 15 (381) | 21(533)  | 18¾(476)              | 1⅞(29) | 12(305) | 1⅜(35) |   |
| 16 (DN400) | 16 (406) | 23½(597) | 21¼(540)              | 1⅞(29) | 16(406) | 1⅞(37) |   |
| 18 (DN450) | 17 (432) | 25(635)  | 22¾(578)              | 1¼(32) | 16(406) | 1⅞(40) |   |
| 20 (DN500) | 18 (457) | 27½(699) | 25(635)               | 1¼(32) | 20(508) | 1⅞(43) |   |
| 24 (DN600) | 20 (508) | 32(813)  | 29½(749)              | 1⅜(35) | 20(508) | 1⅞(48) |   |

## DIMENSIONS - INCHES (MM)"

| SIZE ØD    | A        | A          | ØS AT BASE OF THREAD | H           | H1         | H2         | H3         | L1         | ØM             | N1      | GEAR RATIO | BYPASS SIZE |
|------------|----------|------------|----------------------|-------------|------------|------------|------------|------------|----------------|---------|------------|-------------|
| IN.        | (MIN)    |            |                      |             |            |            |            |            |                |         |            |             |
| 14 (DN350) | 0.78(20) | 22.76(578) | 1.398(36)            | 38.58(980)  | 14.59(371) | 12.68(322) | 11.50(292) | 11.18(284) | 1x8TPI (UNC)   | 10(254) | 2.5:1      | 2(51)       |
| 16 (DN400) | 0.87(22) | 26(660)    | 1.556(40)            | 44(1118)    | 16.64(423) | 14.38(365) | 25.79(655) | 14.58(370) | 1x8TPI (UNC)   | 14(356) | 3:1        | 3(76)       |
| 18 (DN450) | 0.95(24) | 29.29(744) | 1.556(40)            | 47.33(1202) | 18.71(475) | 15.59(396) | 27.88(708) | 14.58(370) | 1⅞ x8TPI (UNC) | 14(356) | 3:1        | 3(76)       |
| 20 (DN500) | 1.10(28) | 32.52(826) | 1.831(47)            | 51.38(1305) | 20.79(528) | 17.56(446) | 27.88(708) | 14.58(370) | 1⅞ x7TPI (UNC) | 18(457) | 3:1        | 3(76)       |
| 24 (DN600) | 1.18(30) | 36.54(928) | 2.028(52)            | 60.24(1530) | 22.05(560) | 24.73(628) | 32.63(829) | 17.32(440) | 1¼ x7TPI (UNC) | 18(457) | 4:1        | 4(102)      |

## MATERIAL LIST

| NO. | PARTS               | MATERIALS                                | ASTM DESIGN       | QTY.  |
|-----|---------------------|------------------------------------------|-------------------|-------|
| 432 | Packing Box Bolt    | Stainless Steel                          | A 276 Type 304    | 1 set |
| 352 | O-Ring C            | Rubber (Buna N)                          | D 2000 BK 707     | 1     |
| 350 | O-Ring A            | Rubber (Buna N)                          | D 2000 BK 707     | 1     |
| 345 | Packing             | Braided Packing Synthetic Yarn with PTFE |                   | 1 set |
| 329 | O-Ring              | Rubber (Buna N)                          | D 2000 BK 707     | 1     |
| 320 | Bonnet Gasket       | Rubber (Buna N)                          | D 2000 BK 807     | 1     |
| 253 | Disc Guide          | Bronze                                   | B62               | 1     |
| 251 | Body Guide Bolt     | Stainless Steel                          | A 276 Type 304    | 1 set |
| 178 | Gland Bolt & Nut    | Stainless Steel                          | A 276 Type 304    | 2     |
| 174 | Bonnet Bolt & Nut   | Stainless Steel                          | A 276 Type 304    | 1 set |
| 168 | Stem                | Stainless Steel                          | A 276 Type 316    | 1     |
| 085 | Disc Guide Bolt     | Stainless Steel                          | A 276 Type 304    | 1     |
| 084 | Roller              | Bronze                                   | B62               | 2     |
| 083 | Roller Box          | Bronze                                   | B62               | 1     |
| 082 | Bonnet Guide        | Bronze                                   | B62               | 2     |
| 081 | Body Guide          | Bronze                                   | B62               | 2     |
| 071 | Stem Nut            | Bronze                                   | B62               | 1     |
| 069 | Gland Bushing       | Bronze                                   | B62               | 1     |
| 067 | Packing Box Bushing | Bronze                                   | B62               | 1     |
| 066 | Bonnet Bushing      | Bronze                                   | B62               | 1     |
| 062 | Disc Seat Ring      | Bronze                                   | B62               | 2     |
| 061 | Body Seat Ring      | Bronze                                   | B62               | 2     |
| 049 | Gear Operator       | See Table                                | -----             | 1 set |
| 010 | Operating Nut       | Cast Iron                                | A 126 Class B     | 1     |
| 005 | Gland               | Ductile Iron                             | A 536 Gr.65-45-12 | 1     |
| 004 | Packing Box         | Ductile Iron                             | A 536 Gr.65-45-12 | 1     |
| 003 | Disc                | Ductile Iron                             | A 536 Gr.65-45-12 | 1     |
| 002 | Bonnet              | Ductile Iron                             | A 536 Gr.65-45-12 | 1     |
| 001 | Body                | Ductile Iron                             | A 536 Gr.65-45-12 | 1     |

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