

World Class Clampseal® Swivldisc Gate Valves

- Swivldisc Wedge Gate
- Pressure Seat Bonnet
- In-line Repairable
- High-performance Graphite Packing

Conval Clampseal[®] Swivldisc Gate Valves are designed for the world's most demanding high-pressure, high-temperature applications.



STANDARD SIZES 1/2" through 4"

PRESSURE RATING ASME Class 1500 and 2500

STANDARD MATERIALS Carbon Steel 216 GR WCB Other materials available upon request

STANDARD ACCESSORIES Bypass Actuators - Air or Motor



DESIGN FEATURES

Swivldisc Wedge Gate Design

The Conval Swivldisc wedge gate design employs a flexible disc which permits the seating surfaces to achieve perfect alignment, establishing a tight seal not possible with standard wedge gates.

Pressure Seal Bonnet

The simple and effective pressure seal bonnet provides ready access for servicing with no welds to cut or seal rings or gaskets to replace. The body-to-bonnet joint integrity is maintained through countless thermal cycles.

High-performance Graphite Packing

The packing system delivers the best performance available. The one-piece gland with integral gland wrench is readily adjustable at any time. The fine finish of the stem and chamber combines with high-performance graphite packing to ensure long packing service life.

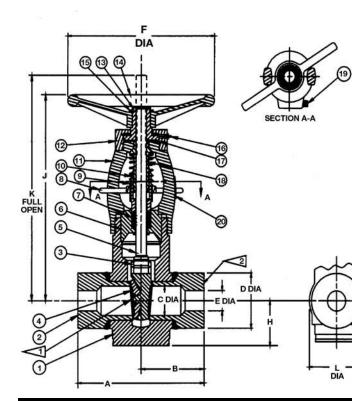
In-line Servicing

With the Conval Swivldisc gate valve, repacking can be accomplished by swapping the bonnetchamber with the fresh pre-packed unit.

Two-Year Warranty

Conval is committed to unsurpassed quality. We are so confident of the quality of our product, that we offer a two-year warranty.

SPECIFICATIONS



| MATERIALS | | | | | | | | | | |
|-----------|----------------|------|-----------------|---------------------------|--|--|--|--|--|--|
| No. | Name | Qty. | Material | Specification | | | | | | |
| 1 | Body | 1 | Carbon Steel | ASME SA-216 GR WCB | | | | | | |
| 2 | Hub | 2 | Carbon Steel | ASME SA-696 GR. C | | | | | | |
| 3 | Gate | 1 | Stainless Steel | ASME SA-479 TYPE 410 | | | | | | |
| | | | Cobalt Alloy | | | | | | | |
| 4 | Disc | 1 | Cobalt Alloy | | | | | | | |
| 5 | Stem | 1 | Stainless Steel | ASTM A582-TYPE 416 | | | | | | |
| 6 | Bonnet | 1 | Stainless Steel | ASME SA-479 TYPE 410 | | | | | | |
| 7 | Packing | SET | Graphite Rings | HIGH DENSITY GRAPHITE | | | | | | |
| 8 | IGW | 1 | Cast Stainless | Stainless Steel | | | | | | |
| 9 | Spring | 1 | Stainless Steel | Mfg. Std. | | | | | | |
| 10 | Gland | 1 | Stainless Steel | ASTM A582-TYPE416 | | | | | | |
| 11 | Yoke | 1 | Carbon Steel | ASME SA-216 GR WCB/SA-105 | | | | | | |
| 12 | Bearing Cap | 1 | Carbon Steel | Mfg. Std. | | | | | | |
| 13 | Stem Nut | 1 | Aluminum Bronze | ASME SB-150 UNS C64200 | | | | | | |
| 14 | Handwheel | 1 | Iron/Steel | Mfg. Std. | | | | | | |
| 15 | Retaining Ring | 1 | Stainless Steel | Mfg. Std. | | | | | | |
| 16 | Grease Fitting | 1 | Stainless Steel | Mfg. Std. | | | | | | |
| 17 | Bearing Set | 2 | Commercial | Mfg. Std. | | | | | | |
| 18 | Yoke Bushing | 1 | Aluminum Bronze | ASME SB-150 UNS C64200 | | | | | | |
| 19 | Clampbolt | 1 | Stainless Steel | Mfg. Std. | | | | | | |
| 20 | ID Plate | 1 | Stainless Steel | Mfg. Std. | | | | | | |



NOTES: SEAT FACING ON HUBS TO BE COBALT ALLOY

| Pressure | ire Size Pipe Valve Outline Dimensions | | | | | | | | | | Flow | | |
|----------|--|-------------|-----------|---------------|-------------|----------------|--------------------|-----------|--------------|---------------|---------------|-------------|-----|
| Class | Code | Size | Α | В | C | D | E | F | H | J | K | L | Cv |
| | 2E | 1/2 | 5 1/2 | 2 3/4 | 0.815 | 2 1/16 | 0.466 | 6 | 1 3/4 | 9 | 9 1/4 | 2 7/8 | 15 |
| | | 15 | 140 | 70 | 21 | 52 | 12 | 152 | 45 | 229 | 235 | 73 | |
| | 2E | 3/4 | 5 1/2 | 2 3/4 | 0.815 | 2 1/16 | 0.612 | 6 | 1 3/4 | 9 | 9 1/4 | 2 7/8 | 25 |
| | 0.5 | 20 | 140 | 70 | 21 | 52 | 16 | 152 | 45 | 229 | 235 | 73 | 45 |
| | 2E | 1 | 5 1/2 | 2 3/4 | 0.815 | 2 1/16 | 0.815 | 6 | 1 3/4 | 9 | 9 1/4 | 2 7/8 | 45 |
| 1500 | 3G | 25 1 1/2 | 140 | 70 3 1/2 | 21 1.338 | <u>52</u> 3 | <u>21</u> 1.338 | 152 8 | 45 2 1/8 | 229 12 7/8 | 235 13 5/8 | 73 3 1/2 | 131 |
| 1000 | 36 | 40 | 178 | 5 1/2 95 | 34 | 80 | 1.556 34 | 203 | 2 1/8 54 | 327 | 346 | 95 | 151 |
| | 4J | 2 | 8 1/2 | 4 1/4 | 1.689 | 3 3/4 | 1.689 | 10 | 2 7/8 | 15 3/4 | 16 5/8 | 4 3/4 | 225 |
| | ر ד | 50 | 215 | 108 | 43 | 95 | 43 | 254 | 73 | 400 | 422 | 120 | 220 |
| | 5L | 2 1/2 | 10 | 5 | 2.300 | 5 1/8 | 2.125 | 14 | 4 | 19 5/8 | 20 1/2 | 7 | 348 |
| | | 65 | 250 | 125 | 58 | 130 | 54 | 356 | 100 | 498 | 515 | 178 | |
| | 6N | 3 | 12 | 6 | 2.624 | 5 1/4 | 2.624 | 14 | 4 | 19 5/8 | 20 5/8 | 7 | 535 |
| | | 80 | 300 | 150 | 67 | 133 | 67 | 356 | 100 | 498 | 524 | 178 | |
| | 8R | 4 | 16 | 8 | 3.438 | 6 3/4 | 3.438 | 14 | 4 3/4 | 22 1/2 | 25 1/2 | 7 1/2 | 958 |
| | | 100 | 400 | 200 | 87 | 170 | 87 | 356 | 120 | 565 | 648 | 191 | |
| | 2D | 1/2 | 7 5/16 | 3 21/32 | 0.599 | 2 5/32 | 0.050 | 6 | 1.2// | 9 | 9 1/4 | 0.7/0 | 4 |
| | 20 | 1/2 | 186 | 3 21/32 93 | 15 | 2 3/32 55 | 0.252 | 152 | 1 3/4 45 | 229 | 235 | 2 7/8 | 4 |
| | 2D | 3/4 | 7 5/16 | 3 21/32 | 0.599 | 2 5/32 | 0.434 | 6 | 1 3/4 | 9 | 9 1/4 | 2 7/8 | 12 |
| | 20 | 20 | 186 | 93 | 15 | 55 | 11 | 152 | 45 | 229 | 235 | 73 | 12 |
| | 2D | 1 | 7 5/16 | 3 21/32 | 0.599 | 2 5/32 | 0.599 | 6 | 1 3/4 | 9 | 9 1/4 | 2 7/8 | 23 |
| | | 25 | 186 | 93 | 15 | 55 | 15 | 152 | 45 | 229 | 235 | 73 | 20 |
| 2500 | 3F | 1 1/2 | 9 1/8 | 4 9/16 | 1.100 | 3 | 1.100 | 8 | 2 1/8 | 12 7/8 | 13 5/8 | 3 1/2 | 81 |
| | | 40 | 232 | 116 | 28 | 80 | 28 | 203 | 54 | 327 | 346 | 95 | |
| | 4H | 2 | 11 | 5 1/2 | 1.503 | 3 3/4 | 1.503 | 10 | 2 7/8 | 15 3/4 | 16 3/8 | 4 3/4 | 157 |
| | | 50 | 279 | 140 | 38 | 95 | 38 | 254 | 73 | 400 | 416 | 120 | |
| | 5K | 2 1/2 | 13 | 6 1/2 | 2.300 | 5 1/8 | 1.771 | 14 | 4 | 19 5/8 | 20 1/2 | 7 | 240 |
| | | 65 | 330 | 165 | 58 | 130 | 45 | 356 | 100 | 498 | 521 | 178 | 105 |
| | 6M | 3 | 14 1/2 | 7 1/4 | 2.300 | 5 1/8 | 2.300 | 14 | 4 | 19 5/8 | 20 1/2 | 7 | 405 |
| | 00 | 80 | 365 | 184 | 58 | 130 | 58 | 356 14 | 100 | 498 | 521 | 178 | 900 |
| | 8P | 4 | 18 450 | 9 229 | 3.152 80 | 6 1/4 158 | 3.152 80 | 356 | 4 3/4 120 | 22 1/2 565 | 24 1/2 622 | 7 1/2 | 806 |
| | I | 100 | 400 | 229 | 00 | 861 | 00 | 300 | 120 | COC | 022 | 191 | |

Numbers shown in Black indicate dimensions in inches, weightin pounds. Numbers shown in blue indicate dimensions in mm.

The Conval Story

In 1962, Mr. Chester Siver completed designs for a revolutionary line of high-pressure, forged steel valves. Hamilton Standard (now Hamilton Sunstrand), a division of United Technologies Corporation, was asked to use their then-new Electron Beam Welding technology for joining of parts into valves for subassemblies. Hamilton Standard became intrigued with the valve as an ideal application of the Electron Beam Welding technique, and negotiated a contract for the rights to manufacture and sell the valve. Mr. Siver served as manager of the valve project.

The first CLAMPSEAL® valves were introduced to the market by Hamilton Standard in 1964. However, in the mid-1960's, growing demand for the firm's popular aerospace products forced Hamilton Standard to make the decision to abandon its industrial products projects. The rights to the CLAMPSEAL valve reverted back to Mr. Siver. Since CLAMPSEAL valves were born in Connecticut, Mr. Siver founded "Conval" (short for Connecticut Valve) in 1967. Today, the valves are still manufactured in Connecticut, a state with a longstanding reputation for technological innovation and manufacturing excellence.

Founded in 1967, Conval has grown into a leader in valves for the world's most demanding applications. We have a global team of experts to help to meet your most challenging needs. We invite you to contact us today.

High-pressure, high-temperature ball, bellows, bonnetless, check, gate, globe, throttling, and urea service valves for the world's most demanding applications.



Thank you for your business! ISO 9001 certified since 1992 PED certified since 2003 Nuclear N-stamp since 2006







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