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A31A Valve

[www.fishvalve.nt-rt.ru](http://www.fishvalve.nt-rt.ru)

Product Bulletin

# Fisher® POSI-SEAL™ A31A High-Performance Butterfly Valve

The Fisher A31A High Performance Butterfly Valve provides outstanding performance under extreme pressure and temperature conditions. The A31A valve maintains tight shutoff and is available in a fire-tested version.

The A31A valve is available as either a flangeless (wafer style) design or as a single-flange (lugged) design. A keyed drive shaft combines with a variety of hand levers, handwheels, or pneumatic piston diaphragm actuators to make the A31A a reliable, high-performance butterfly valve for a variety of on-off applications in the various process industries.

The A31A valve can be supplied with one of several dynamic seals (figure 1) that can be used in a variety of demanding applications. With the appropriate seal selection and materials of construction, the pressure-assisted seal provides excellent shutoff against the full ASME class pressure range for the specific valve type.

Unless otherwise noted, all NACE references are to NACE MR0175-2002.



W91344

**FISHER A31A VALVE WITH BETTIS™ ACTUATOR AND  
DVC6200 FIELDVUE™ DIGITAL VALVE CONTROLLER**



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## Specifications

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### Valve Sizes<sup>(1)</sup>

NPS ■ 14, ■ 16, ■ 18, ■ 20, and ■ 24

### Available Valve Configurations

■ Flangeless (wafer) style or ■ single-flange (lugged) control valve with a one-piece valve body, a two-component seal/backup O-ring, and a keyed drive shaft

### End Connection Style

■ Flangeless style or ■ single flange valve body designed to fit between raised-face mating flanges per ASME B16.5 CL150 or CL300

### Valve Body Classification

Face-to-face dimensions are in compliance with MSS SP68 and API 609 standards; valve bodies are designed for installation between ASME B16.5 CL150 or CL300 raised-face flanges

### Maximum Inlet Pressure/Temperature<sup>(2)</sup>

Consistent with ■ CL150 and ■ CL300 pressure/temperature ratings per ASME B16.34. Also, see figure 2 for additional information

### Available Seal Configurations

See figure 1 and table 1

### Standard Construction Materials

See table 1

### Disc Coating

Hardcoating (also see table 1)

■ Standard when used with NOVEX seal or Phoenix III seal.

### Shaft Extension Lengths

■ None required for temperatures less than 343°C (650°F), ■ 152.4 mm (6 inches) for temperatures

from 343 to 538°C (650 to 1000°F), or ■ 304.8 mm (12 inches) for temperatures above 538°C (1000°F)

### Shutoff Classification per ANSI/FCI 70-2 and IEC 60534-4

**Standard Soft Seal:** Bidirectional bubble-tight shutoff

**NOVEX Seal:** Unidirectional shutoff MSS-SP61 (preferred flow direction only<sup>(3)</sup>), optional Class VI

**Phoenix III Seal:** Bidirectional bubble-tight

**Phoenix III Seal for Fire Tested Applications:**

Shutoff per FCI 70-2 Class VI. Fire Tested per API 607 Rev. 4. Contact your Emerson Process Management sales office for more information.

### Flow Characteristic

Modified equal percentage

### Flow Coefficients and Noise Levels

See Fisher Catalog 12

### Available Actuators

Handlever, handwheel, or pneumatic piston

### Disc Rotation

Clockwise (CW) to close

### Valve Dimensions and Approximate Weights

See figures 5, 6, 7 and 8

### Options

ENVIRO-SEAL™ PTFE or graphite packing system provides improved sealing, guiding, and transmission of loading force to control liquid and gas emissions.

See Bulletin 59.3:041 ENVIRO-SEAL Packing Systems for Rotary Valves for more information.

Cryogenic extension and seal provides service down to -234°C (-425°F). See Bulletin

21.1:Cryogenic-Rotary for more information.

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1. The valve sizes listed in this bulletin refer to Nominal Pipe Size (NPS).

2. The pressure/temperature limits in this bulletin (figure 2), and any application code or standard limitation, should not be exceeded.

3. For optimum seal performance, the preferred valve orientation at shutoff is with the retaining ring downstream from the high pressure side of the valve.

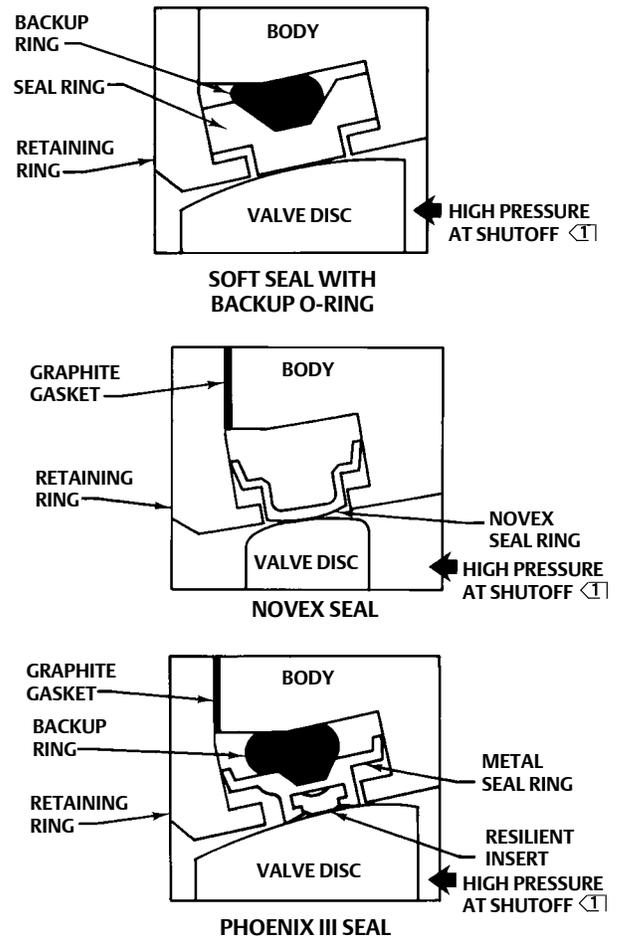
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# Features

- **Economical Tight Shutoff**—The pressure-assisted seal design provides tight shutoff and permits the use of smaller, less expensive actuators in applications requiring full ASME B16.34 shutoff capabilities.
- **Excellent Shutoff Integrity**—Concentric rotation helps to ensure that the valve disc remains in the closed position in spite of line pressure surges or actuator failure.
- **True Bi-directional Shutoff Performance**—Valve design helps to ensure that the torque necessary to open and close the valve is the same regardless of the direction in which the differential pressure is applied.
- **Safety**—Shaft blowout protection is designed into the A31A valve (figure 3). The anti-blowout gland fits securely over the valve shaft which has been turned down to form a circumferential shoulder that contacts the anti-blowout gland.
- **Ease of Maintenance**—Interchangeability of all parts including shafts and discs simplifies service and reduces maintenance costs.
- **Improved Environmental Capabilities** — The optional ENVIRO-SEAL packing system is designed with improved sealing, guiding, and loading force transmission. The ENVIRO-SEAL packing system can control emissions to below the EPA (Environmental Protection Agency) limit of 100 ppm (parts per million) for valves.
- **Reliable Flange Gasketing Surface**—Seal retainer screws are located so there is no interference with the sealing function of either flat sheet or spiral wound line flange gaskets.

- **Easy Installation**—The valve body self-centers on the line flange bolts as a fast, accurate means of centering the valve in the pipeline.

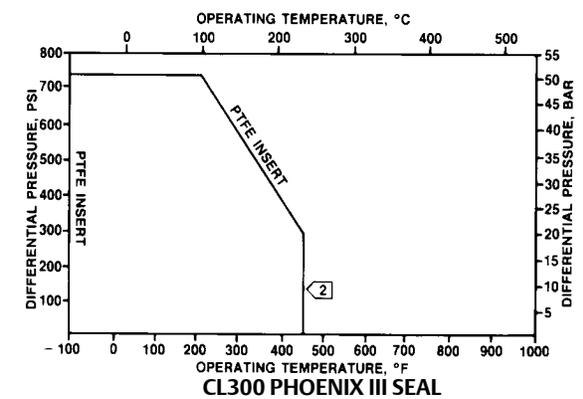
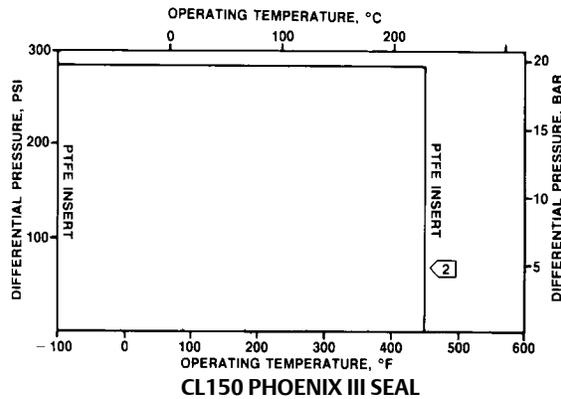
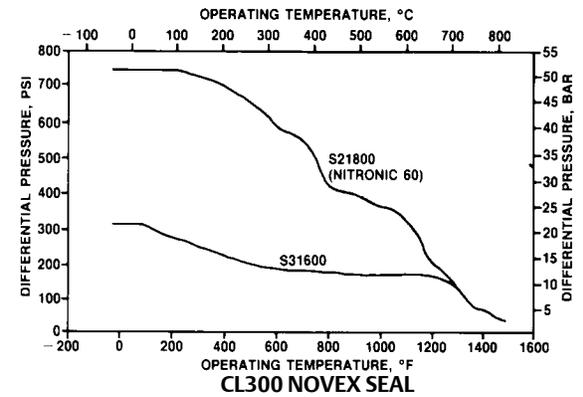
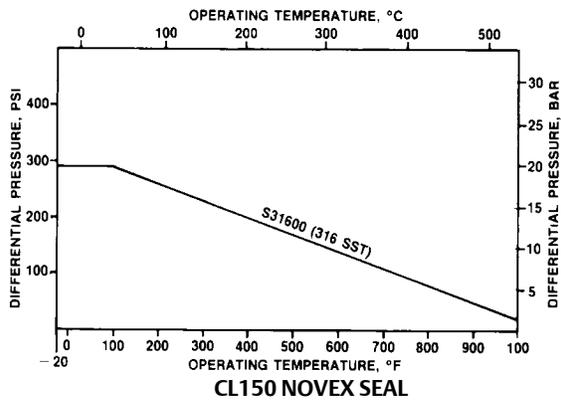
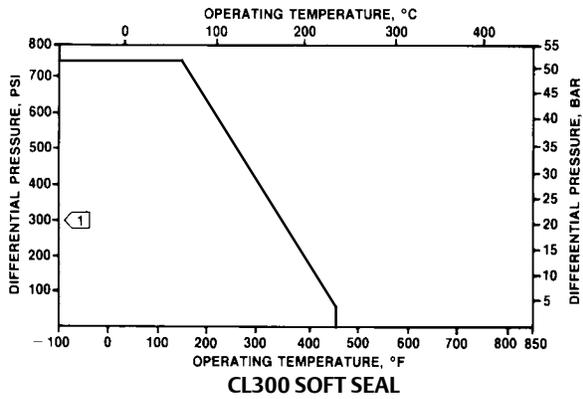
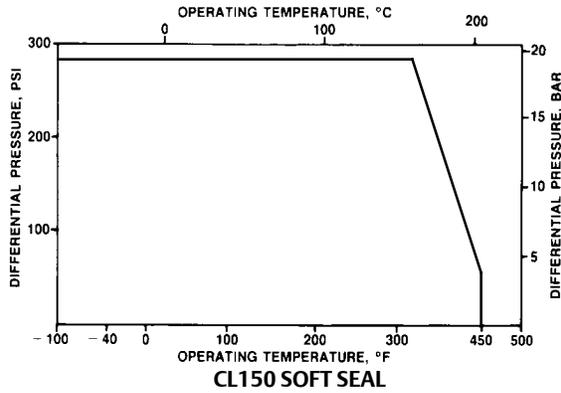
Figure 1. Available Seal Configurations



Note:  
 [I] For optimum seal performance, the preferred valve orientation at shutoff is with the retaining ring downstream from the high pressure side of the valve.

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Figure 2. Maximum Pressure/Temperature Ratings



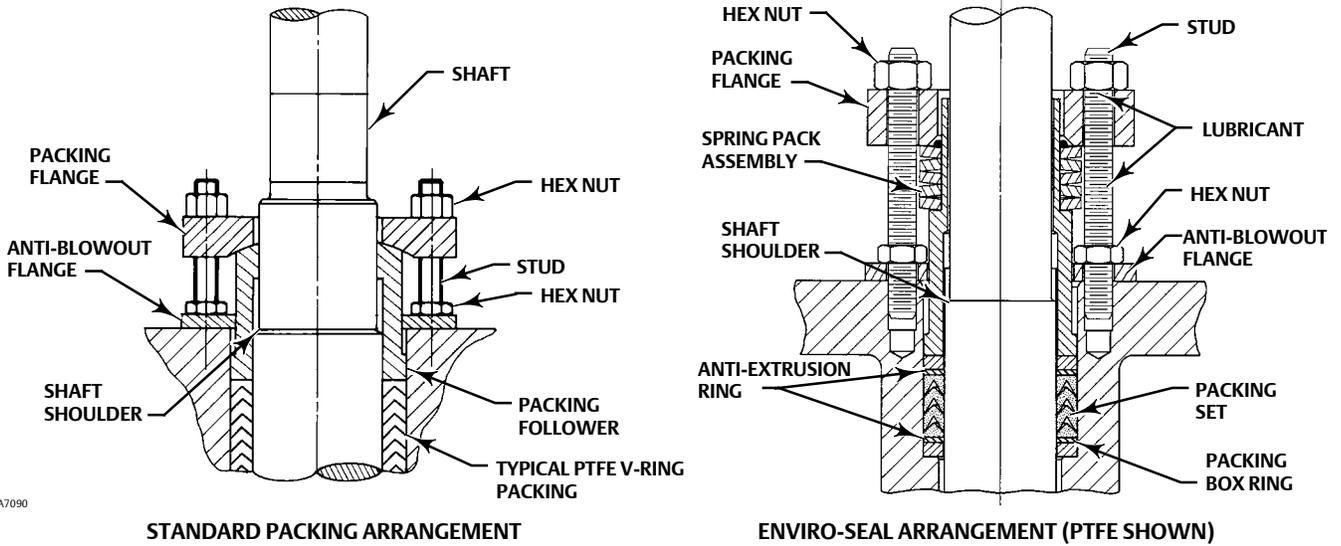
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NOTE:

1 Do not throttle PTFE seals at differential pressures greater than 21 bar (300 psid) at disc angles less than 20° open. Throttling pipe seals under such conditions may cause erosion and seal failure.

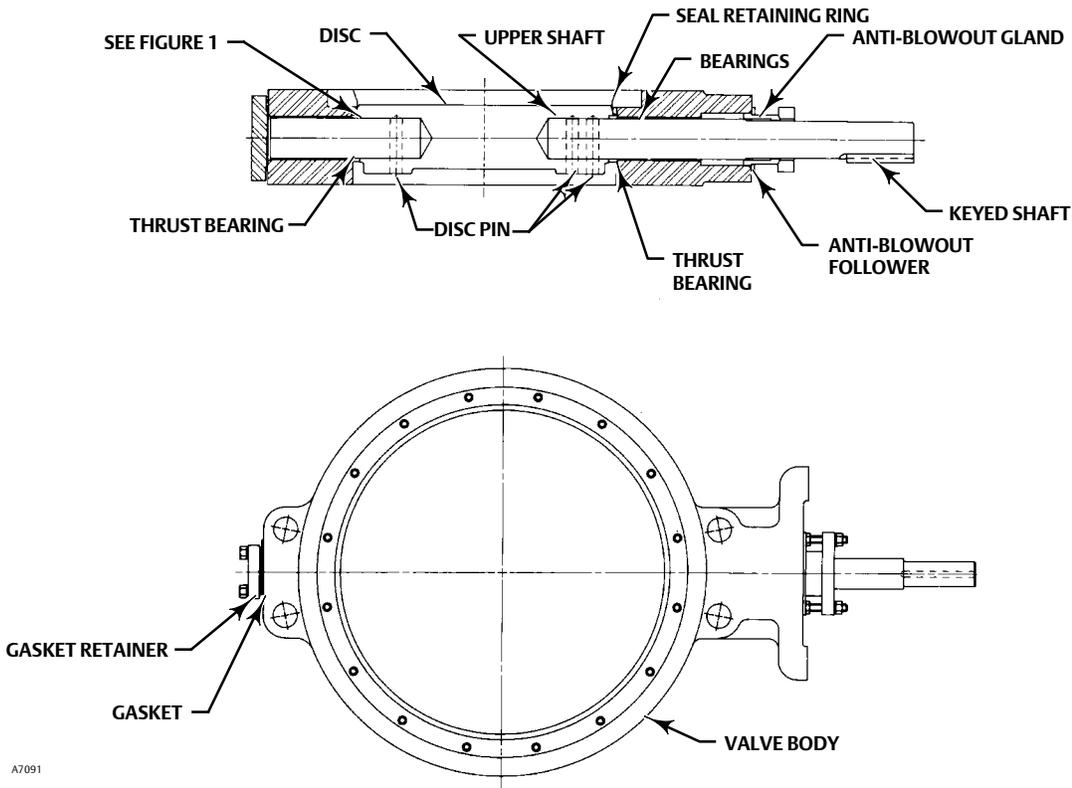
2 Temperature limitations do not account for the additional limitations imposed by the backup O-ring used with this seal. To determine the effective temperature limitation of the appropriate seal/back-up O-ring combination, refer to table 2.

Figure 3. Blowout Protection



A7090

Figure 4. Typical Valve Assembly



A7091

**Table 1. Materials of Construction and Temperature Ratings**

| COMPONENT AND MATERIAL OF CONSTRUCTION <sup>(1)</sup>  |  | TEMPERATURE RANGE  |   |
|--|--|--|---|
|  |  | °C   | °F  |
| <b>Valve Body<sup>(2)</sup></b><br>Carbon steel (WCC or SA 516-70) <sup>(7)</sup><br>CF8M (316 SST) CL150 and 300<br>CF8M <sup>(3)</sup> FMS 20B16 a Fisher material standard (0.04% min carbon) CL300 |  | -29 to 427<br>-198 to 538<br>over 538 to 816                               | -20 to 800<br>-325 to 1000<br>over 1000 to 1500                                 |
| <b>Disc</b><br>WCC carbon steel, for NPS 14 through 24<br>CF8M (316 SST)<br>CF8M <sup>(3)</sup> FMS 20B16 a Fisher material standard (0.04% min carbon) CL300  |  | -29 to 427<br>-198 to 538<br>over 538 to 816                               | -20 to 800<br>-325 to 1000<br>over 1000 to 1500                                 |
| <b>Disc Coating</b><br>Chromium Carbide<br>Chrome Plating<br>Chromium Coating<br>Electroless Nickel Coating (ENC)  |  | -198 to 916<br>-254 to 316<br>-254 to 593<br>-254 to 343                   | -325 to 1500<br>-425 to 600<br>-425 to 1100<br>-425 to 650                      |
| <b>Shaft</b><br>S20910<br>S17400 (17-4 pH 1025)<br>S17400 (17-4 pH H1150M)<br>N07718<br>N07750   |  | -198 to 538<br>-73 to 427<br>-196 to 427<br>-254 to 704<br>over 593 to 816 | -325 to 1000<br>-100 to 800<br>-320 to 800<br>-425 to 1300<br>over 1100 to 1500 |
| <b>Bearings<sup>(6)</sup></b><br>PEEK (standard)<br>S31600 <sup>(4)</sup><br>R30006 (Alloy 6)<br>Bronze  |  | -73 to 260<br>-198 to 816<br>-198 to 816<br>-254 to 302                    | -100 to 500<br>-325 to 1500<br>-325 to 1500<br>-425 to 575                      |
| <b>Packing</b><br>PTFE Packing and PTFE ENVIRO-SEAL Packing<br>Graphite packing<br>Graphite packing with oxidizing media<br>Graphite ENVIRO-SEAL Packing   |  | -198 to 232<br>-198 to 916<br>-198 to 538<br>-198 to 315                   | -325 to 450<br>-325 to 1500<br>-325 to 1000<br>-325 to 600                      |
| Seal Ring and Backup Ring  | <b>PTFE Seal Ring</b><br>Nitrile Backup O-Ring<br>Chloroprene Backup O-Ring<br>EPR Backup O-Ring<br>Fluorocarbon Backup O-Ring<br>PTFE Backup O-Ring                                       | -29 to 93<br>-43 to 149<br>-54 to 182<br>-29 to 204<br>-73 to 204          | -20 to 200<br>-45 to 300<br>-65 to 360<br>-20 to 400<br>-100 to 400             |
|  | <b>UHMWPE<sup>(5)</sup> Seal Ring (CL150 Only)</b><br>Nitrile Backup O-Ring<br>Chloroprene Backup O-Ring<br>EPR Backup O-Ring<br>Fluorocarbon Backup O-Ring<br>PTFE Backup O-Ring          | -29 to 93<br>-43 to 93<br>-54 to 93<br>-29 to 93<br>-73 to 93              | -20 to 200<br>-45 to 200<br>-65 to 200<br>-20 to 200<br>-100 to 200             |
|  | <b>Phoenix III and/or Fire Tested Construction</b><br>S31600 and PTFE Seal Ring with Nitrile Backup O-Ring<br>Chloroprene Backup O-Ring<br>EPR Backup O-Ring<br>Fluorocarbon Backup O-Ring | -40 to 149<br>-54 to 149<br>-62 to 204<br>-40 to 232                       | -40 to 300<br>-65 to 300<br>-80 to 400<br>-40 to 450                            |
| Seal Ring  | NOVEX S31600 Seal <sup>(4)</sup> Ring (CL150)<br>NOVEX S31600 Seal <sup>(4)</sup> Ring (CL300)<br>NOVEX S21800 Seal <sup>(4)</sup> Ring (CL300)  | -29 to 816<br>-29 to 816<br>-29 to 816                                     | -20 to 1500<br>-20 to 1500<br>-20 to 1500                                       |

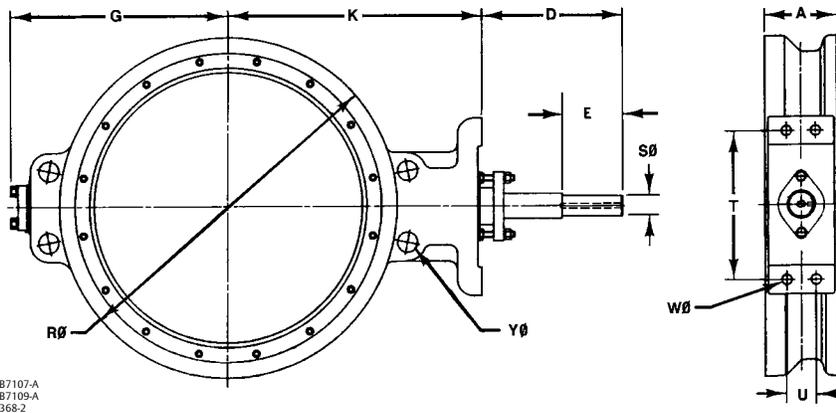
1. NACE trim constructions are available; consult your Emerson Process Management sales office.  
2. Special gasket retainer bolts are required for over 482°C (900°F)  
3. Special retaining ring screws for single flange valves over 538°C (1000°F)  
4. For a complete material description, contact your Emerson Process Management sales office.  
5. UHMWPE stands for ultra high molecular weight polyethylene.  
6. Special thrust bearings are required for high temp. applications over 343°C (650°F) (with 6 and 12-inch shaft extensions). Constructions with carbon steel valves and SST discs may require special thrust bearings at temps. less than 343°C (650°F).  
7. Cast or wrought/plate grades used interchangeably, depending on availability, unless specified by customer.

**Table 2. Dimensions and Weights, Wafer Style Valves, CL150**

| Valve Size, NPS | A <sup>(1)</sup> | D     | E     | G     | K     | M <sup>(2)</sup> Min. I.D. | R     | S (Shaft Dia at Keyway) | Key SQ Size | T     | U    | W    | Y    | Approx Weight |
|-----------------|------------------|-------|-------|-------|-------|----------------------------|-------|-------------------------|-------------|-------|------|------|------|---------------|
| <b>mm</b>       |                  |       |       |       |       |                            |       |                         |             |       |      |      |      | <b>kg</b>     |
| 14              | 91.9             | 146   | 63.5  | 295   | 327   | 331                        | 422   | 30.2                    | 6.35        | 235   | 46.0 | 17.5 | ---  | 72            |
| 16              | 102              | 146   | 63.5  | 318   | 371   | 375                        | 470   | 31.8                    | 6.35        | 235   | 46.0 | 17.5 | 28.4 | 94            |
| 18              | 114              | 229   | 79.50 | 349   | 400   | 419                        | 533   | 38.1                    | 9.53        | 273   | 50.8 | 20.6 | 31.8 | 139           |
| 20              | 127              | 229   | 79.50 | 381   | 432   | 464                        | 584   | 44.5                    | 9.53        | 273   | 50.8 | 20.6 | 31.8 | 167           |
| 24              | 154              | 254   | 104.9 | 438   | 492   | 581                        | 692   | 57.2                    | 12.7        | 337   | 76.2 | 23.9 | 35.1 | 255           |
| <b>Inches</b>   |                  |       |       |       |       |                            |       |                         |             |       |      |      |      | <b>Pounds</b> |
| 14              | 3.62             | 5.75  | 2.5   | 11.62 | 12.88 | 13.04                      | 16.62 | 1-3/16                  | 0.25        | 9.25  | 1.81 | 0.69 | ---  | 158           |
| 16              | 4.00             | 5.75  | 2.5   | 12.50 | 14.62 | 14.77                      | 18.50 | 1-1/4                   | 0.25        | 9.25  | 1.81 | 0.69 | 1.12 | 207           |
| 18              | 4.50             | 9.00  | 3.13  | 13.75 | 15.75 | 16.49                      | 21.00 | 1-1/2                   | 0.375       | 10.75 | 2.00 | 0.81 | 1.25 | 307           |
| 20              | 5.00             | 9.00  | 3.13  | 15.00 | 17.00 | 18.27                      | 23.00 | 1-3/4                   | 0.375       | 10.75 | 2.00 | 0.81 | 1.25 | 368           |
| 24              | 6.06             | 10.00 | 4.13  | 17.25 | 19.38 | 22.87                      | 27.25 | 2-1/4                   | 0.5         | 13.25 | 3.00 | 0.94 | 1.38 | 563           |

1. Face-to-face dimensions are in compliance with MSS SP68 and API 609 specifications.  
 2. Minimum I.D. is the minimum pipe or flange I.D. required for disc swing clearance.

**Figure 5. Dimensions and Weights, Wafer Style Valves, CL150 (also see table 2)**



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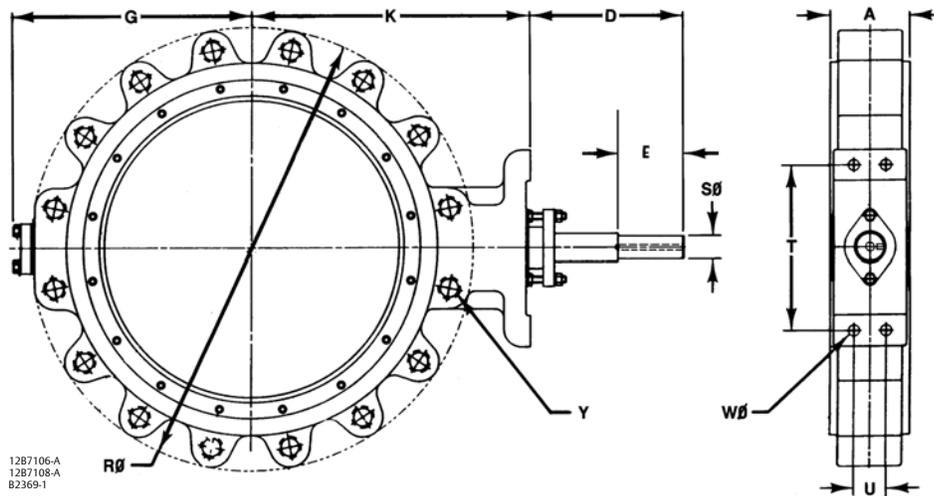
Note: The keyway is shown on this side of the shaft for reference purposes only.

**Table 3. Dimensions and Weights, Single Flange Valves, CL150**

| Valve Size, NPS | A <sup>(1)</sup> | D     | E     | G     | K     | M <sup>(2)</sup> Min. I.D. | R     | S (Shaft Dia at Keyway) | Key SQ Size | T     | U    | W    | Y                | Approx Weight |
|-----------------|------------------|-------|-------|-------|-------|----------------------------|-------|-------------------------|-------------|-------|------|------|------------------|---------------|
| <b>mm</b>       |                  |       |       |       |       |                            |       |                         |             |       |      |      |                  | <b>kg</b>     |
| 14              | 91.9             | 146   | 63.5  | 295   | 327   | 331                        | 531   | 30.2                    | 6.35        | 235   | 46.0 | 17.5 | ---              | 95            |
| 16              | 102              | 146   | 63.5  | 318   | 371   | 375                        | 607   | 31.8                    | 6.35        | 235   | 46.0 | 17.5 | ---              | 138           |
| 18              | 114              | 229   | 79.50 | 349   | 400   | 419                        | 645   | 38.1                    | 9.53        | 273   | 50.8 | 20.1 | ---              | 178           |
| 20              | 127              | 229   | 79.50 | 381   | 432   | 464                        | 696   | 44.5                    | 9.53        | 273   | 50.8 | 20.1 | ---              | 224           |
| 24              | 154              | 254   | 104.9 | 438   | 492   | 581                        | 822   | 57.2                    | 12.7        | 337   | 76.2 | 23.9 | ---              | 315           |
| <b>Inches</b>   |                  |       |       |       |       |                            |       |                         |             |       |      |      |                  | <b>Pounds</b> |
| 14              | 3.62             | 5.75  | 2.5   | 11.62 | 12.88 | 13.04                      | 20.88 | 1-3/16                  | 0.25        | 9.25  | 1.81 | 0.69 | 1-8 12 Holes     | 209           |
| 16              | 4.00             | 5.75  | 2.5   | 12.50 | 14.62 | 14.77                      | 23.88 | 1-1/4                   | 0.25        | 9.25  | 1.81 | 0.69 | 1-8 16 Holes     | 304           |
| 18              | 4.50             | 9.00  | 3.13  | 13.75 | 15.75 | 16.49                      | 25.38 | 1-1/2                   | 0.38        | 10.75 | 2.00 | 0.81 | 1-1/8-8 16 Holes | 393           |
| 20              | 5.00             | 9.00  | 3.13  | 15.00 | 17.00 | 18.27                      | 27.38 | 1-3/4                   | 0.38        | 10.75 | 2.00 | 0.81 | 1-1/8-8 20 Holes | 493           |
| 24              | 6.06             | 10.00 | 4.13  | 17.25 | 19.38 | 22.87                      | 32.38 | 2-1/4                   | 0.5         | 13.25 | 3.00 | 0.94 | 1-1/4-8 20 Holes | 773           |

1. Face-to-face dimensions are in compliance with MSS SP68 and API 609 specifications.  
 2. Minimum I.D. is the minimum pipe or flange I.D. required for disc swing clearance.

**Figure 6. Dimensions and Weights, Single Flange Valves, CL150 (also see table 3)**



Note: The keyway is shown on this side of the shaft for reference purposes only.

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## Installation

Recommended installation for the A31A valve is with the shaft upstream of the seal (retaining ring downstream from the high pressure side of the valve).

The standard soft seal offers bubble-tight, bidirectional shutoff. To meet the performance requirements of many of today's fire-tested requirements, a Phoenix III valve must be installed in the preferred valve orientation. The NOVEX seals are uni-directional and should be installed with the shaft upstream of the seal.

For assistance in selecting the appropriate combination of actuator action and open valve position, consult your Emerson Process Management sales office.

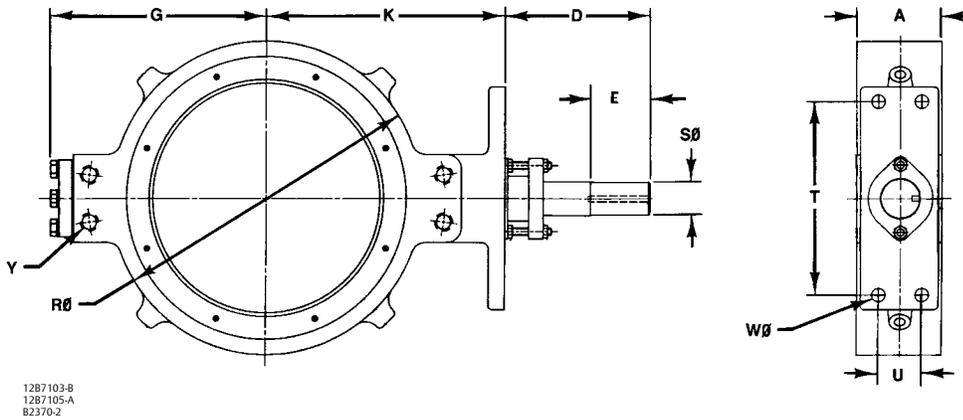
Dimensions and weights for wafer-style and single-flange valves are shown in figures 5, 6, 7 and 8.

**Table 4. Dimensions and Weights, Wafer Style Valves, CL300**

| Valve Size, NPS | A <sup>(1)</sup> | D     | E     | G     | K     | M <sup>(2)</sup> Min. I.D. | R     | S (Shaft Dia at Keyway) | Key SQ Size | T     | U    | W    | Y               | Approx Weight |
|-----------------|------------------|-------|-------|-------|-------|----------------------------|-------|-------------------------|-------------|-------|------|------|-----------------|---------------|
| <b>mm</b>       |                  |       |       |       |       |                            |       |                         |             |       |      |      |                 | <b>kg</b>     |
| 14              | 117              | 229   | 79.50 | 319   | 364   | 304                        | 437   | 44.5                    | 9.53        | 273   | 50.8 | 20.6 | ---             | 121           |
| 16              | 133              | 229   | 79.50 | 353   | 397   | 346                        | 498   | 44.5                    | 9.53        | 273   | 50.8 | 20.6 | ---             | 183           |
| 18              | 149              | 254   | 104.9 | 384   | 419   | 389                        | 556   | 57.2                    | 12.7        | 337   | 76.2 | 23.9 | ---             | 227           |
| 20              | 159              | 273   | 124.0 | 416   | 483   | 442                        | 605   | 69.9                    | 15.88       | 337   | 76.2 | 23.9 | ---             | 364           |
| 24              | 181              | 273   | 124.0 | 483   | 546   | 523                        | 716   | 69.9                    | 15.88       | 337   | 76.2 | 23.9 | ---             | 469           |
| <b>Inches</b>   |                  |       |       |       |       |                            |       |                         |             |       |      |      |                 | <b>Pounds</b> |
| 14              | 4.62             | 9.00  | 3.13  | 12.56 | 14.31 | 11.98                      | 17.19 | 1-3/4                   | 0.375       | 10.75 | 2.00 | 0.81 | 1-1/8-8 4 Holes | 266           |
| 16              | 5.25             | 9.00  | 3.13  | 13.88 | 15.62 | 13.63                      | 19.62 | 1-3/4                   | 0.375       | 10.75 | 2.00 | 0.81 | 1-1/4-8 4 Holes | 403           |
| 18              | 5.88             | 10.00 | 4.13  | 15.12 | 16.50 | 15.32                      | 21.88 | 2-1/4                   | 0.5         | 13.25 | 3.00 | 0.94 | 1-1/4-8 4 Holes | 500           |
| 20              | 6.25             | 10.75 | 4.88  | 16.38 | 19.00 | 17.40                      | 23.81 | 2-3/4                   | 0.625       | 13.25 | 3.00 | 0.94 | 1-1/4-8 4 Holes | 802           |
| 24              | 7.12             | 10.75 | 4.88  | 19.00 | 21.50 | 20.59                      | 28.19 | 2-3/4                   | 0.625       | 13.25 | 3.00 | 0.94 | 1-1/2-8 4 Holes | 1035          |

1. Face-to-face dimensions are in compliance with MSS SP68 and API 609 specifications.  
 2. Minimum I.D. is the minimum pipe or flange I.D. required for disc swing clearance.

**Figure 7. Dimensions and Weights, Wafer Style Valves, CL300 (also see table 4)**



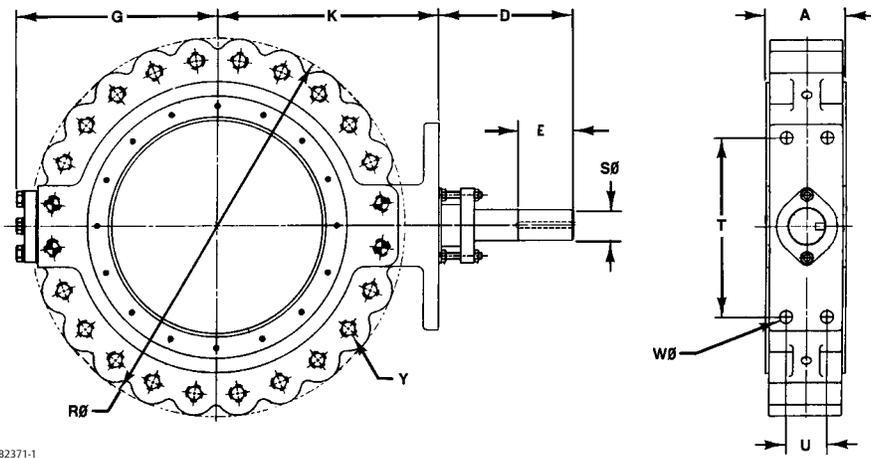
Note: The keyway is shown on this side of the shaft for reference purposes only.

**Table 5. Dimensions and Weights, Single Flange Valves, CL300**

| Valve Size, NPS | A <sup>(1)</sup> | D     | E     | G     | K     | M <sup>(2)</sup> Min. I.D. | R     | S (Shaft Dia at Keyway) | Key SQ Size | T     | U    | W    | Y                | Approx Weight |
|-----------------|------------------|-------|-------|-------|-------|----------------------------|-------|-------------------------|-------------|-------|------|------|------------------|---------------|
| <b>mm</b>       |                  |       |       |       |       |                            |       |                         |             |       |      |      |                  | <b>kg</b>     |
| 14              | 117              | 229   | 79.50 | 319   | 364   | 304                        | 594   | 44.5                    | 9.53        | 273   | 50.8 | 20.6 | ---              | 227           |
| 16              | 133              | 229   | 79.50 | 353   | 397   | 346                        | 657   | 44.5                    | 9.53        | 273   | 50.8 | 20.6 | ---              | 294           |
| 18              | 149              | 254   | 104.9 | 384   | 419   | 389                        | 721   | 57.2                    | 12.7        | 337   | 76.2 | 23.9 | ---              | 402           |
| 20              | 159              | 273   | 124.0 | 416   | 483   | 442                        | 784   | 69.9                    | 15.88       | 337   | 76.2 | 23.9 | ---              | 544           |
| 24              | 181              | 273   | 124.0 | 483   | 546   | 523                        | 924   | 69.9                    | 15.88       | 337   | 76.2 | 23.9 | ---              | 821           |
| <b>Inches</b>   |                  |       |       |       |       |                            |       |                         |             |       |      |      |                  | <b>Pounds</b> |
| 14              | 4.62             | 9.00  | 3.13  | 12.56 | 14.31 | 11.98                      | 23.38 | 1-3/4                   | 0.375       | 10.75 | 2.00 | 0.81 | 1-1/8-8 16 Holes | 500           |
| 16              | 5.25             | 9.00  | 3.13  | 13.88 | 15.62 | 13.63                      | 25.88 | 1-3/4                   | 0.375       | 10.75 | 2.00 | 0.81 | 1-1/4-8 20 Holes | 649           |
| 18              | 5.88             | 10.00 | 4.13  | 15.12 | 16.50 | 15.32                      | 28.38 | 2-1/4                   | 0.5         | 13.25 | 3.00 | 0.94 | 1-1/4-8 24 Holes | 886           |
| 20              | 6.25             | 10.75 | 4.88  | 16.38 | 19.00 | 17.40                      | 30.88 | 2-3/4                   | 0.625       | 13.25 | 3.00 | 0.94 | 1-1/4-8 24 Holes | 1200          |
| 24              | 7.12             | 10.75 | 4.88  | 19.00 | 21.50 | 20.59                      | 36.38 | 2-3/4                   | 0.625       | 13.25 | 3.00 | 0.94 | 1-1/2-8 24 Holes | 1810          |

1. Face-to-face dimensions are in compliance with MSS SP68 and API 609 specifications.  
 2. Minimum I.D. is the minimum pipe or flange I.D. required for disc swing clearance.

**Figure 8. Dimensions and Weights, Single Flange Valves, CL300 (also see table 5)**



Note: The keyway shown on this side of the shaft for reference purposes only.

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