

# Series 396 / 397

## 2" – 72" Resilient Seated Butterfly Valves Datasheet



**Series 396**  
Wafer style

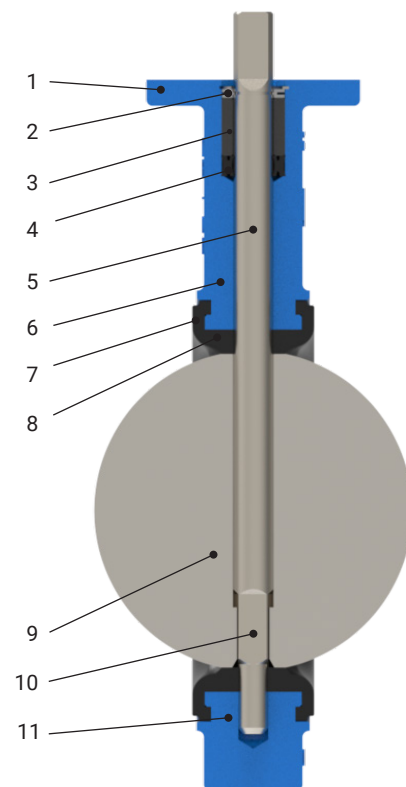


**Series 397**  
Lugged style

# 2" – 72" Resilient Seated Butterfly Valves Series 396 / 397

## Advantages

- Standard one-piece series 396 (wafer) and series 397 (lugged) butterfly valves are suitable for bi-directional service at the full pressure rating of the valve.
  - Standard lugged style valves (series 397) are suitable for bi-directional dead-end service at the full pressure rating of the valve
1. High-precision machined bodies ensure component & operator interchangeability, and consistent valve performance.
  2. Snap rings and washers retain (blow-out proof) the stem, bushing, and packing (2" to 24").
  3. Top bushing, made from corrosion resistant materials, absorbs side loads from actuators and operators.
  4. Self-adjusting, double V-shape stem packing protects the stem area.
  5. Stems are machined to standard dimensions for interchangeability. 2" to 12" valves have one-piece stems, and 14" to 72" valves have two-piece stems.
  6. Extended body necks allow for pipe insulation (2"-12").
  7. Valve seats have been designed to be the seal between the valve and standard ASME 125/150 flanges. Flange gaskets are not used during installation.
  8. 14" to 24" valve seats are injection molded directly to the body. All other sizes have booted (dovetail) seats that are bonded to the body during assembly.
  9. Disc edge is machined and buffed to provide bubble-tight shut-off, lower torque, and longer seat life.
  10. Stem design internally drives the disc. The design does not require pins or fasteners and eliminates potential points of failure.
  11. Body and stem are fully isolated from the pipeline line media by the primary seal, which is the interference fit between the seat & disc.



## Specifications

**Design:** API 609 Category A, MSS SP67

**Testing:** API 598, ISO 5208

### Standard Construction

#### Body

Ductile Iron with Aliphatic Acrylic Polyurethane coating (epoxy primer)

#### Disc

316 Stainless Steel, Aluminum Bronze, Nylon 11 Coated Ductile Iron, Nickel Plated Ductile Iron

#### Stem

416 Stainless Steel, 316 Stainless Steel

#### Resilient Seat

EPDM, Buna-N, Viton

#### Stem Bushing

Teflon® – Graphite Impregnated

#### Stem Packing

Buna-N

Additional materials are available for a wide selection of applications.

### Pressure Rating

|              | Bi-directional                   | Bi-Directional Dead-End Service (Lug Style, Series 397) |
|--------------|----------------------------------|---------------------------------------------------------|
| 2" - 6"      | 250 PSI (416 SS stem)            | 250 PSI (416 SS stem)                                   |
|              | 200 PSI (316 SS stem)            | 200 PSI (316 SS stem)                                   |
| 8"-12"       | 200 PSI (250 PSI with option HP) | 200 PSI (250 PSI with option HP)                        |
| 14" & larger | 150 PSI                          | 150 PSI                                                 |

# 2" - 72" Resilient Seated Butterfly Valves Series 396 / 397

## Valve Torque Data (lbf-in): EPDM & Buna-N Seats

| Valve Size | Normal Conditions - psid (differential) |         |         |         |         |         | Severe Conditions - psid (differential) |         |         |         |         |         |
|------------|-----------------------------------------|---------|---------|---------|---------|---------|-----------------------------------------|---------|---------|---------|---------|---------|
|            | Δ P=0                                   | Δ P=50  | Δ P=100 | Δ P=150 | Δ P=200 | Δ P=250 | Δ P=0                                   | Δ P=50  | Δ P=100 | Δ P=150 | Δ P=200 | Δ P=250 |
| 2"         | 221                                     | 230     | 240     | 250     | 258     | 269     | 373                                     | 384     | 400     | 406     | 418     | 444     |
| 2½"        | 269                                     | 283     | 288     | 302     | 317     | 339     | 454                                     | 464     | 475     | 486     | 507     | 538     |
| 3"         | 322                                     | 341     | 365     | 379     | 400     | 421     | 540                                     | 568     | 589     | 611     | 647     | 678     |
| 4"         | 480                                     | 514     | 542     | 576     | 602     | 631     | 816                                     | 848     | 886     | 918     | 955     | 1,006   |
| 5"         | 653                                     | 706     | 754     | 806     | 871     | 923     | 1,102                                   | 1,162   | 1,220   | 1,274   | 1,327   | 1,404   |
| 6"         | 907                                     | 1,008   | 1,109   | 1,210   | 1,285   | 1,355   | 1,529                                   | 1,642   | 1,756   | 1,868   | 1,965   | 2,082   |
| 8"         | 1,512                                   | 1,714   | 1,915   | 2,112   | 2,260   | 2,383   | 2,549                                   | 2,776   | 3,002   | 3,229   | 3,410   | 3,602   |
| 10"        | 2,318                                   | 2,621   | 2,900   | 3,224   | 3,440   | 3,633   | 3,910                                   | 4,250   | 4,590   | 4,931   | 5,203   | 5,497   |
| 12"        | 3,125                                   | 3,629   | 4,138   | 4,637   | 6,234   | 6,589   | 5,270                                   | 5,838   | 6,404   | 6,971   | 7,403   | 7,824   |
| 14"        | 5,160                                   | 6,120   | 7,080   | 8,040   | -       | -       | 7,740                                   | 8,700   | 9,660   | 10,620  | -       | -       |
| 16"        | 7,680                                   | 8,040   | 9,480   | 10,920  | -       | -       | 9,900                                   | 11,340  | 12,780  | 14,220  | -       | -       |
| 18"        | 8,280                                   | 10,440  | 12,600  | 14,760  | -       | -       | 12,432                                  | 14,580  | 16,020  | 18,900  | -       | -       |
| 20"        | 10,200                                  | 13,200  | 16,200  | 19,200  | -       | -       | 14,602                                  | 19,500  | 21,300  | 24,300  | -       | -       |
| 24"        | 18,000                                  | 18,513  | 20,400  | 22,200  | -       | -       | 23,400                                  | 24,066  | 26,520  | 30,000  | -       | -       |
| 30"        | 30,120                                  | 32,760  | 40,920  | 43,200  | -       | -       | 39,120                                  | 49,140  | 53,196  | 56,160  | -       | -       |
| 36"        | 46,800                                  | 48,747  | 57,600  | 81,600  | -       | -       | 60,840                                  | 63,600  | 74,880  | 106,080 | -       | -       |
| 40"        | 76,110                                  | 89,933  | 107,063 | 116,820 | -       | -       | 91,332                                  | 98,207  | 117,052 | 140,184 | -       | -       |
| 42"        | 81,774                                  | 96,205  | 114,122 | 144,698 | -       | -       | 98,129                                  | 107,834 | 124,952 | 173,637 | -       | -       |
| 48"        | 117,263                                 | 129,825 | 154,554 | 172,575 | -       | -       | 140,715                                 | 158,799 | 174,504 | 207,090 | -       | -       |
| 54"        | 159,123                                 | 179,008 | 220,356 | 238,065 | -       | -       | 190,948                                 | 229,659 | 256,059 | 285,678 | -       | -       |
| 60"        | 237,180                                 | 235,912 | 235,912 | 309,750 | -       | -       | 284,616                                 | 288,257 | 315,945 | 371,700 | -       | -       |
| 72"        | 309,750                                 | 320,371 | 320,371 | 432,765 | -       | -       | 371,700                                 | 397,370 | 435,539 | 611,712 | -       | -       |

The torque data above (lbf-in) includes a 20% Safety Factor.

Undercut discs (with lower torque & reduced pressure rating) are available as special order.

Torque of Viton seated valves = EPDM torque shown above x 1.20

### Severe Conditions:

- Media with solvents, alcohols, or detergents that remove amides, or
- Degreasing, abrasive, or dry (gases, powders, etc) applications, or
- Pipeline media that coats internal valve components with substantial deposits, or
- Infrequently operated valves (i.e. once a year)

# 2" – 72" Resilient Seated Butterfly Valves Series 396 / 397



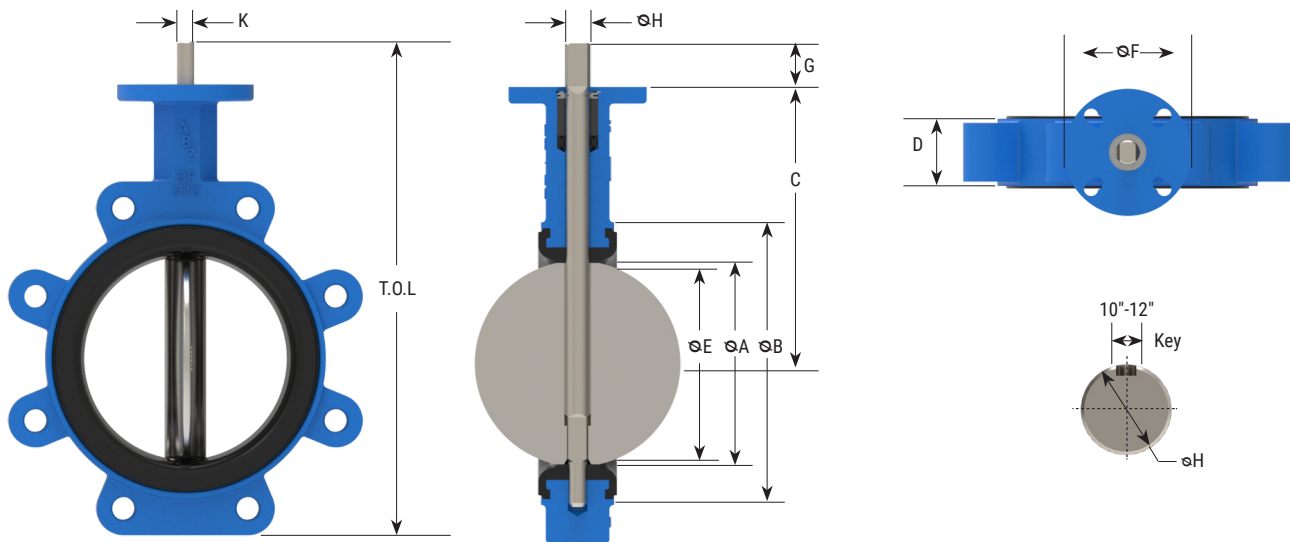
## Flow Coefficient (C<sub>v</sub>)

| Valve Size | Angle of Disc Opening |       |        |        |        |        |         |         |         |
|------------|-----------------------|-------|--------|--------|--------|--------|---------|---------|---------|
|            | 10°                   | 20°   | 30°    | 40°    | 50°    | 60°    | 70°     | 80°     | 90°     |
| 2"         | 1.67                  | 7.7   | 17     | 29     | 48     | 74     | 115     | 145     | 195     |
| 2½"        | 2.50                  | 11.0  | 25     | 44     | 69     | 109    | 174     | 237     | 307     |
| 3"         | 3.33                  | 15.7  | 37     | 64     | 105    | 165    | 276     | 377     | 487     |
| 4"         | 5.00                  | 27.7  | 63     | 110    | 177    | 278    | 472     | 671     | 827     |
| 5"         | 8.33                  | 43.7  | 99     | 177    | 276    | 443    | 752     | 1,083   | 1,325   |
| 6"         | 13.33                 | 58.7  | 136    | 242    | 385    | 616    | 1,075   | 1,521   | 1,883   |
| 8"         | 20.00                 | 107.3 | 247    | 434    | 687    | 1,094  | 1,821   | 2,671   | 3,239   |
| 10"        | 31.67                 | 174.0 | 394    | 696    | 1,092  | 1,770  | 2,983   | 4,288   | 5,210   |
| 12"        | 47.00                 | 251.7 | 578    | 1,002  | 1,665  | 2,654  | 4,398   | 6,466   | 8,026   |
| 14"        | 61.3                  | 326   | 765    | 1,373  | 2,183  | 3,395  | 5,713   | 8,337   | 10,179  |
| 16"        | 81.7                  | 426   | 1,000  | 1,783  | 2,816  | 4,494  | 7,556   | 10,981  | 13,322  |
| 18"        | 106                   | 549   | 1,294  | 2,279  | 3,614  | 5,779  | 9,755   | 14,148  | 17,738  |
| 20"        | 124                   | 684   | 1,598  | 2,862  | 4,579  | 7,181  | 12,178  | 17,906  | 22,113  |
| 24"        | 233                   | 1,009 | 2,329  | 4,081  | 6,587  | 10,347 | 17,078  | 25,218  | 31,051  |
| 30"        | 364.7                 | 1,537 | 3,757  | 6,571  | 10,568 | 16,861 | 27,767  | 39,752  | 50,783  |
| 36"        | 575                   | 2,498 | 5,495  | 9,437  | 15,261 | 24,002 | 39,806  | 56,834  | 74,958  |
| 40"        | 757                   | 2,971 | 6,925  | 11,862 | 19,307 | 43,800 | 50,406  | 73,990  | 90,175  |
| 42"        | 788                   | 3,302 | 7,693  | 13,370 | 20,013 | 50,247 | 51,037  | 81,057  | 99,872  |
| 48"        | 1,023                 | 4,651 | 10,365 | 17,010 | 27,242 | 55,996 | 70,431  | 108,968 | 132,888 |
| 54"        | 1,300                 | 5,336 | 12,763 | 20,189 | 35,872 | 63,200 | 83,264  | 131,357 | 167,000 |
| 60"        | 1,480                 | 6,400 | 14,500 | 24,500 | 39,400 | 70,200 | 102,000 | 154,000 | 190,000 |
| 72"        | 1,900                 | 8,220 | 18,600 | 31,500 | 50,700 | 81,200 | 131,000 | 198,000 | 244,000 |

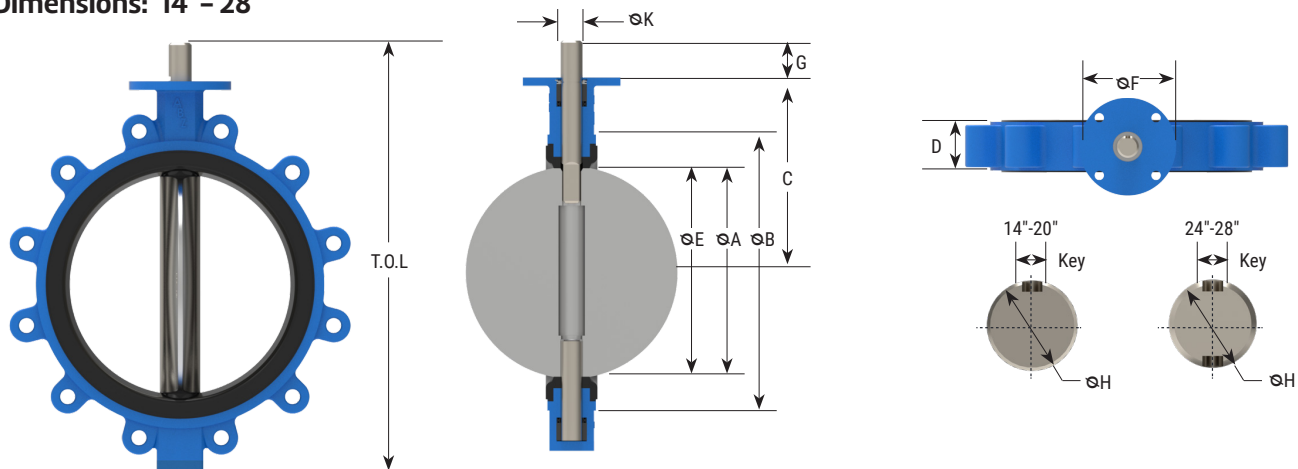
C<sub>v</sub> values represent U.S. gallons per minute of 60°F water through a 100% open valve at a pressure drop of 1 psi.  
Recommended control angles are between 20°–75° open (22% to 83% open).

# 2" - 72" Resilient Seated Butterfly Valves Series 396 / 397

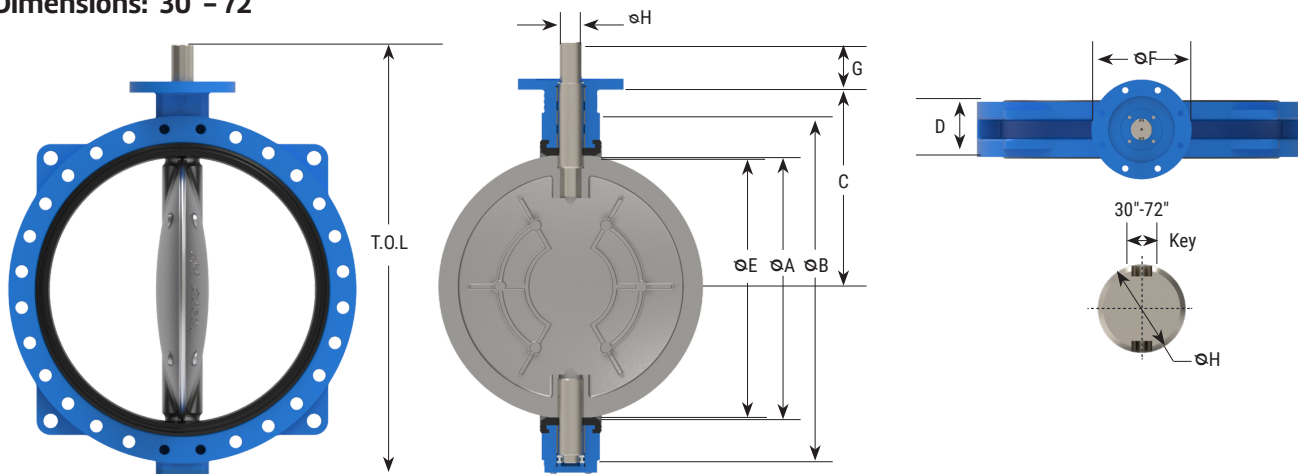
## Dimensions: 2" - 12"



## Dimensions: 14" - 28"



## Dimensions: 30" - 72"



# 2" – 72" Resilient Seated Butterfly Valves Series 396 / 397

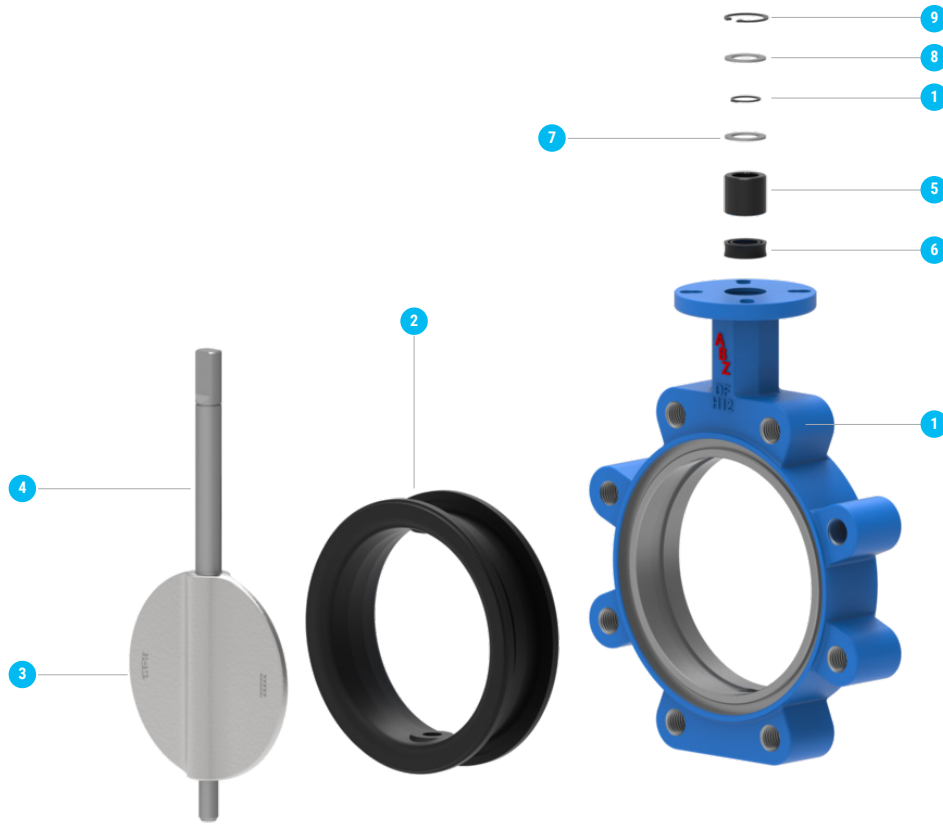
## Approximate Dimensions – inches

| Valve Size |       |       |       |       |       |       |       |       |       |             |        | Top Plate Drilling |           |           | 397 Lugged Drilling Pattern |           |            | Weight (Pounds) |      |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|--------|--------------------|-----------|-----------|-----------------------------|-----------|------------|-----------------|------|
|            | øA    | øB    | C     | D     | E     | øF    | G     | øH    | K     | Key         | T.O.L. | Bolt Circle        | No. Holes | Hole Dia. | Bolt Circle                 | No. Holes | Thread UNC | 396             | 397  |
| 2"         | 2.00  | 3.54  | 5.50  | 1.625 | 1.43  | 4.0   | 1.25  | 0.562 | 0.375 | N/A         | 9.23   | 3.25 & F07         | 4         | 7/16      | 4.75                        | 4         | 5/8 x 11   | 7               | 7    |
| 2½"        | 2.45  | 4.00  | 6.00  | 1.75  | 1.92  | 4.0   | 1.25  | 0.562 | 0.375 | N/A         | 10.01  | 3.25 & F07         | 4         | 7/16      | 5.50                        | 4         | 5/8 x 11   | 8               | 9    |
| 3"         | 3.02  | 4.69  | 6.25  | 1.75  | 2.67  | 4.0   | 1.25  | 0.562 | 0.375 | N/A         | 10.42  | 3.25 & F07         | 4         | 7/16      | 6.00                        | 4         | 5/8 x 11   | 9               | 10   |
| 4"         | 4.04  | 5.91  | 7.00  | 2.00  | 2.69  | 4.0   | 1.25  | 0.562 | 0.437 | N/A         | 12.67  | 3.25 & F07         | 4         | 7/16      | 7.50                        | 8         | 5/8 x 11   | 12              | 30   |
| 5"         | 4.83  | 7.13  | 7.50  | 2.125 | 4.49  | 4.0   | 1.25  | 0.750 | 0.500 | N/A         | 13.79  | 3.25 & F07         | 4         | 7/16      | 8.50                        | 8         | ¾ x 10     | 19              | 24   |
| 6"         | 5.92  | 8.19  | 8.00  | 2.125 | 5.69  | 4.0   | 1.25  | 0.750 | 0.500 | N/A         | 14.85  | 3.25 & F07         | 4         | 7/16      | 9.50                        | 8         | ¾ x 10     | 20              | 26   |
| 8"         | 7.89  | 10.25 | 9.50  | 2.50  | 7.77  | 6.0   | 1.25  | 0.875 | 0.625 | N/A         | 17.51  | 5.0 & F12          | 4         | 9/16      | 11.75                       | 8         | ¾ x 10     | 35              | 41   |
| 10"        | 9.76  | 12.64 | 10.75 | 2.50  | 9.71  | 6.0   | 2.00  | 1.125 | N/A   | ¼ x ¼       | 21.02  | 5.0 & F12          | 4         | 9/16      | 14.25                       | 12        | 7/8 x 9    | 52              | 64   |
| 12"        | 11.40 | 14.57 | 12.25 | 3.00  | 11.30 | 6.0   | 2.00  | 1.125 | N/A   | ¼ x ¼       | 23.81  | 5.0 & F12          | 4         | 9/16      | 17.00                       | 12        | 7/8 x 9    | 68              | 69   |
| 14"        | 13.00 | 17.00 | 12.00 | 3.00  | 13.00 | 6.0   | 2.25  | 1.370 | N/A   | 5/16 x 5/16 | 25.21  | 5.0 & F12          | 4         | 9/16      | 18.75                       | 12        | 1 x 8      | 95              | 110  |
| 16"        | 15.10 | 19.62 | 13.00 | 4.00  | 14.88 | 6.0   | 2.25  | 1.622 | N/A   | 3/8 x 3/8   | 27.47  | 5.0 & F12          | 4         | 9/16      | 21.25                       | 16        | 1 x 8      | 146             | 180  |
| 18"        | 17.10 | 21.42 | 14.50 | 4.25  | 16.88 | 8.0   | 3.00  | 1.875 | N/A   | ½ x ½       | 30.85  | 6.5 & F16          | 4         | 13/16     | 22.75                       | 16        | 1 1/8 x 7  | 180             | 226  |
| 20"        | 19.10 | 23.78 | 15.78 | 5.00  | 18.74 | 8.0   | 3.00  | 2.122 | N/A   | ½ x ½       | 33.45  | 6.5 & F16          | 4         | 13/16     | 25.00                       | 20        | 1 1/8 x 7  | 262             | 340  |
| 24"        | 23.20 | 28.50 | 22.24 | 6.00  | 22.65 | 8.00  | 3.00  | 2.122 | N/A   | ½ x ½       | 41.98  | 6.5 & F16          | 4         | 13/16     | 29.50                       | 20        | 1 ¼ x 7    | 416             | 508  |
| 28"        | 26.38 | 34.22 | 22.05 | 6.5   | 25.83 | 11.8  | 4.00  | 2.500 | N/A   | 7/8 x 5/8   | 46.14  | 10 & F25           | 8         | 0.71      | 34.0                        | 28        | 1 ¼ x 7    | 584             | 708  |
| 30"        | 29.50 | 38.80 | 23.20 | 6.54  | 29.25 | 11.8  | 4.00  | 2.500 | N/A   | 7/8 x 5/8   | 48.02  | 10 & F25           | 8         | 0.71      | 36.00                       | 28        | 1 ¼ x 7    | 886             | 886  |
| 36"        | 35.60 | 46.00 | 28.30 | 7.95  | 32.35 | 13.8  | 4.50  | 3.150 | N/A   | 1 x ¾       | 58.24  | 11.73 x F30        | 8         | 0.91      | 42.75                       | 32        | 1 ½ x 6    | 1376            | 1376 |
| 40"        | 38.35 | 50.75 | 31.10 | 8.50  | 38.00 | 13.8  | 5.31  | 3.500 | N/A   | 1 x ¾       | 64.96  | 11.73 x F30        | 8         | 0.91      | 47.25                       | 36        | 1 ½ x 6    | 2042            | 2042 |
| 42"        | 41.31 | 53.00 | 32.10 | 9.88  | 40.80 | 13.8  | 5.31  | 3.500 | N/A   | 1 x ¾       | 67.20  | 11.73 x F30        | 8         | 0.91      | 49.50                       | 36        | 1 ½ x 6    | 2363            | 2363 |
| 48"        | 47.24 | 59.50 | 36.20 | 10.87 | 46.75 | 16.3  | 5.98  | 4.330 | N/A   | 1 ¼ x ¾     | 75.20  | 14.20 & F35        | 8         | 1.30      | 56.00                       | 44        | 1 ½ x 6    | 3230            | 3230 |
| 54"        | 53.96 | 66.34 | 40.35 | 15.00 | 52.16 | 16.34 | 6.50  | 5.510 | N/A   | 1 ½ x 1     | 83.81  | 14.20 & F35        | 8         | 1.30      | 62.75                       | 44        | 1 ¾ x 5    | 4132            | 4132 |
| 60"        | 58.15 | 72.99 | 44.29 | 15.00 | 56.79 | 18.7  | 6.50  | 6.500 | N/A   | 1 ¾ x 1 ¼   | 90.94  | 15.98 & F40        | 8         | 1.57      | 69.25                       | 52        | 1 ¾ x 5    | 5574            | 5574 |
| 72"        | 68.80 | 86.42 | 50.39 | 17.99 | 67.24 | 22.1  | 10.00 | 7.500 | N/A   | 2 x 1 ¾     | 108.15 | 19.02 & F48        | 8         | 1.57      | 82.52                       | 60        | 1 ¾ x 5    | 9424            | 9424 |

### Notes

1. Design in accordance with API 609 Category A and MSS SP67.
2. Valves cannot be installed in pipe or with flanges that have an inside diameter less than the "E" dimension.
3. 2"–24" Flange Connection: ASME B16.1 Class 125 & ASME B16.5 Class 150.
4. 26" & larger Flange Connection: ASME B16.1 Class 125

# 2" – 12" Resilient Seated Butterfly Valves Series 396 / 397

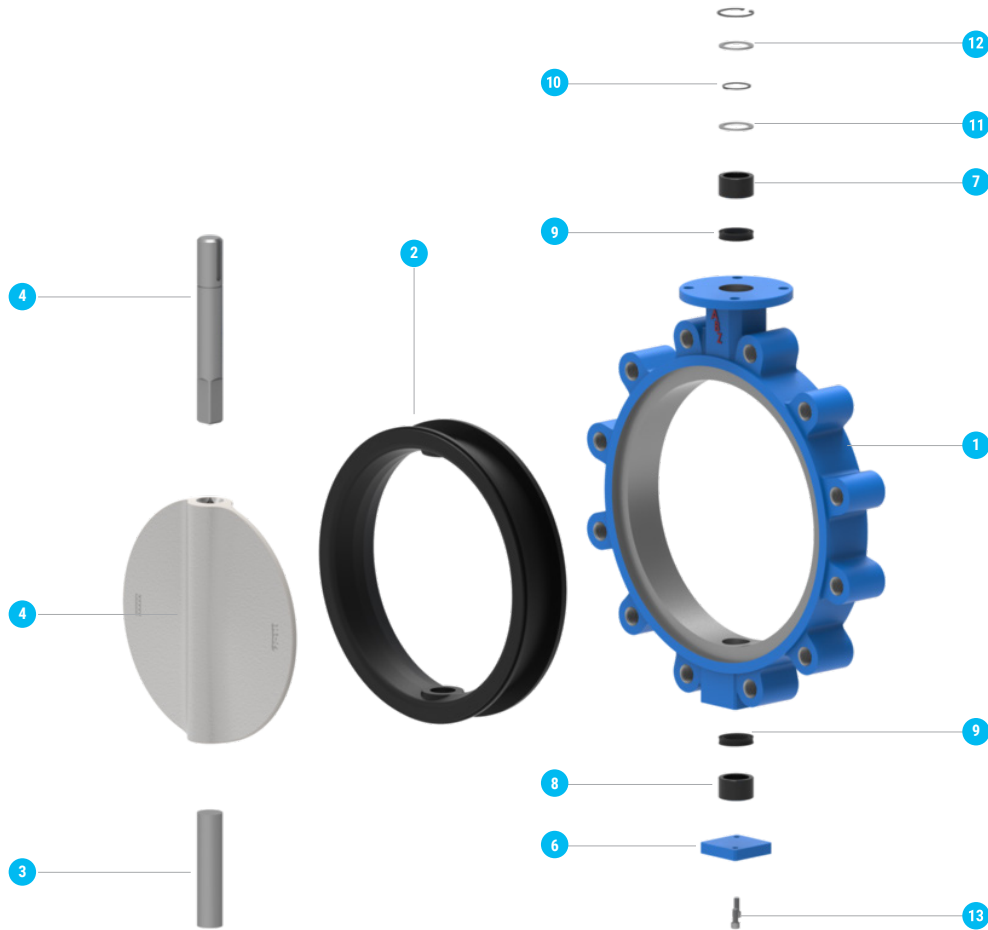


## 2"–12" Parts List and Standard Materials

| No. | Part Name           | QTY | Material                                       |
|-----|---------------------|-----|------------------------------------------------|
| 1   | Body                | 1   | Ductile Iron (DI)                              |
| 2   | Seat                | 1   | EPDM, Buna-N*, or Viton*                       |
| 3   | Disc                | 1   | 316SS, DI+ENP, DI+Nylon, or C95400 (AL-Bronze) |
| 4   | Stem                | 1   | 416SS, or 316SS                                |
| 5   | Bushing             | 1   | PTFE + Graphite                                |
| 6   | V-packing           | 1   | Buna-N*                                        |
| 7   | Gasket              | 2   | Carbon Steel                                   |
| 8   | Stem Retaining Ring | 1   | Carbon Steel                                   |
| 9   | Body Retaining Ring | 1   | Carbon Steel                                   |

\*Nitrile rubber, also known as nitrile butadiene rubber, NBR, Buna-N, or acrylonitrile butadiene rubber.  
Viton a brand of Chemours, also known as FKM, fluorine rubber, or fluoro-rubber.

# 14" – 28" Resilient Seated Butterfly Valves Series 396 / 397

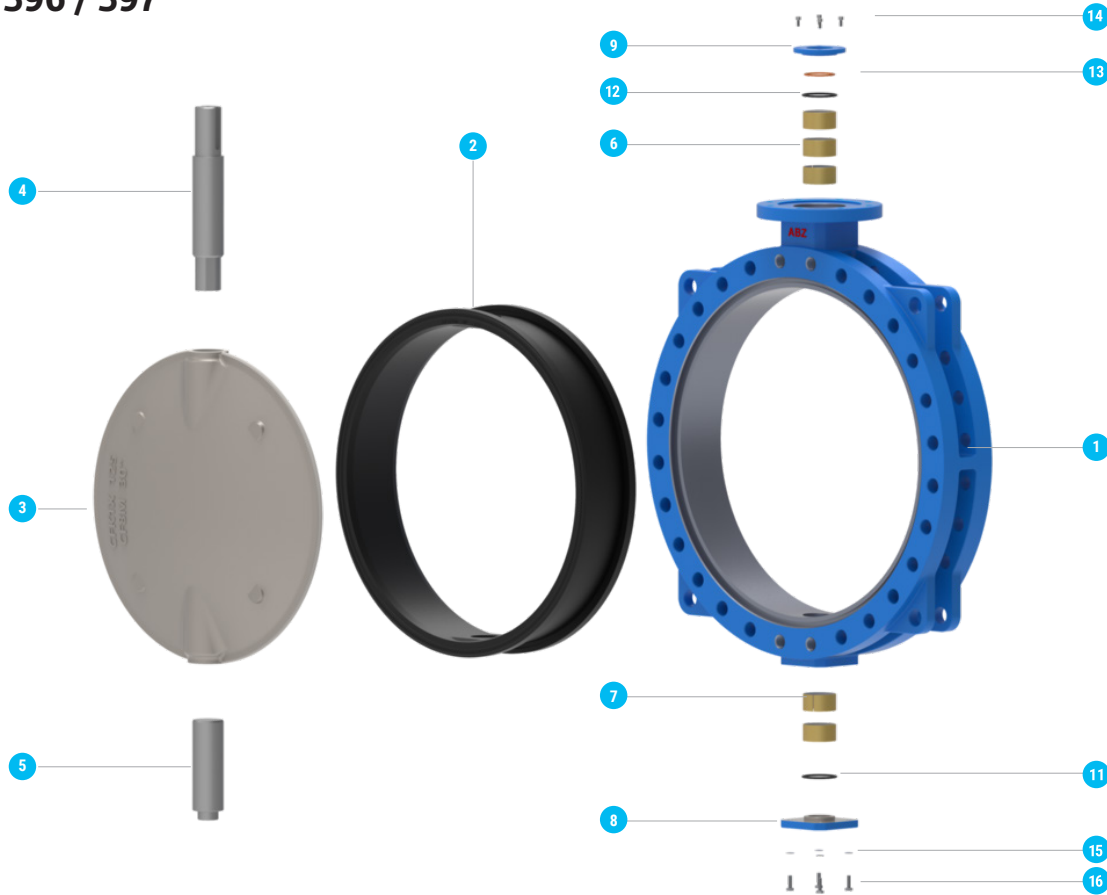


## 14"-28" Parts List and Standard Materials

| No. | Part Name           | QTY   | Material                                       |
|-----|---------------------|-------|------------------------------------------------|
| 1   | Body                | 1     | Ductile Iron (DI)                              |
| 2   | Seat                | 1     | EPDM, Buna-N*, or Viton*                       |
| 3   | Disc                | 1     | 316SS, DI+ENP, DI+Nylon, or C95400 (AL-Bronze) |
| 4   | Upper Stem          | 1     | 416SS, or 316SS                                |
| 5   | Lower Stem          | 1     | same as upper stem                             |
| 6   | End Cap             | 1     | Ductile Iron (DI)                              |
| 7   | Bushing             | 2     | PTFE + Graphite                                |
| 8   | Bushing             | 1     | PTFE + Graphite                                |
| 9   | V-packing           | 2     | Buna-N*                                        |
| 10  | Gasket              | 2     | Carbon Steel                                   |
| 11  | Stem Retaining Ring | 1     | Carbon Steel                                   |
| 12  | Body Retaining Ring | 1     | Carbon Steel                                   |
| 13  | Bolt                | 1 Set | Carbon Steel                                   |

\*Nitrile rubber, also known as nitrile butadiene rubber, NBR, Buna-N, or acrylonitrile butadiene rubber.  
Viton a brand of Chemours, also known as FKM, fluorine rubber, or fluoro-rubber.

# 30" – 72" Resilient Seated Butterfly Valves Series 396 / 397



## 30"–72" Parts List and Standard Materials

| No. | Part Name            | QTY   | Material                                       |
|-----|----------------------|-------|------------------------------------------------|
| 1   | Body                 | 1     | Ductile Iron (DI)                              |
| 2   | Seat                 | 1     | EPDM, Buna-N*, or Viton*                       |
| 3   | Disc                 | 1     | 316SS, DI+ENP, DI+Nylon, or C95400 (AL-Bronze) |
| 4   | Upper Stem           | 1     | 416SS, or 316SS                                |
| 5   | Lower Stem           | 1     | same as upper stem                             |
| 6   | Upper Bushing        | 1 Set | Copper + PTFE                                  |
| 7   | Lower Bushing        | 1 Set | Copper + PTFE                                  |
| 8   | Lower End Cap        | 1     | 1020 Steel                                     |
| 9   | Upper End Cap        | 1     | 1020 Steel                                     |
| 10  | Trust Ball Bearing   | 1     | Bearing Steel                                  |
| 11  | Lower End Cap O-ring | 1 Set | Buna-N*                                        |
| 12  | Upper End Cap O-ring | 1 Set | Buna-N*                                        |
| 13  | Wear Ring            | 1     | Copper                                         |
| 14  | Upper End Cap Bolt   | 1 Set | Carbon Steel                                   |
| 15  | Washer               | 1 Set | Carbon Steel                                   |
| 16  | Lower End Cap Bolt   | 1 Set | Carbon Steel                                   |

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Viton a brand of Chemours, also known as FKM, fluorine rubber, or fluoro-rubber.

# 2" – 72" Resilient Seated Butterfly Valves Series 396 / 397

## How to order Series 396 / 397 Butterfly Valves

### Example: 4" 397 815 NSF GO

A 4" single flange lug-design, with ductile iron body, cast CF8M (316 SS) Stainless Steel disc, 416 SS stem, EPDM seat, NSF, and gear operator, is: 4" 397 815 NSF GO.

| 4"                                                                                                                                                                                             | 397                                                                | 815  | Version        | NSF GO                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Size                                                                                                                                                                                           | Series                                                             | Trim |                | Suffixes / Options                                                                                                                                                                    |
| 416 SS Stem:<br>250 PSI Rated,<br>250 PSI Dead-End ‡<br>316 SS Stem:<br>200 PSI Rated,<br>200 PSI Dead-End‡<br>150 PSI Rated,<br>150 PSI Dead-End ‡                                            | 396 Wafer<br>397 Lug<br>398 Double Flanged *<br>* Contact Factory. | XXX  | B 26" & Larger | <blank> Bare Stem<br>HP High Pressure (1)<br>NSF NSF certified (2)<br>SF Silicone Free<br>UC Undercut Disc<br>HDL Handle (2"-12" only)<br>GO Gear Operator<br>CWGO Go with Chainwheel |
| 2" 14"<br>2.5" 16"<br>3" 18"<br>4" 20"<br>5" 24"<br>6" 26"<br>200 PSI Rated (1)<br>200 PSI Dead-End ‡(1) 28"<br>30"<br>8" 32"<br>10" 36"<br>12" 40" ‡<br>42"<br>48"<br>54" ‡<br>60" ‡<br>72" ‡ |                                                                    |      |                | (1) 250 PSI bi-directional & dead-end service rating (8" – 12") with 416 SS stem and HP option.<br>(2) Select NSF suffix if Trim Code is 575, 806, 807, 815, 816.                     |

| Trim Code                 | Body Material | Disc Material                  | Stem Material | Seat Material | Bushing Material  | Trim Code |
|---------------------------|---------------|--------------------------------|---------------|---------------|-------------------|-----------|
| Most Popular - Trim Codes |               |                                |               |               |                   |           |
| 812                       |               |                                |               | Viton         | Teflon + Graphite | 812       |
| 815 (2)                   | Ductile Iron  | 316 SS                         | 416 SS        | EPDM          | Teflon + Graphite | 815 (2)   |
| 818                       |               |                                |               | Buna          | Teflon + Graphite | 818       |
| Popular - Trim Codes      |               |                                |               |               |                   |           |
| 722                       | Ductile Iron  | Ductile Iron, Nickel Plated    | 416 SS        | EPDM          | Teflon + Graphite | 722       |
| 723                       |               |                                |               | Buna          | Teflon + Graphite | 723       |
| 806 (2)                   | Ductile Iron  | 316 SS                         | 316 SS        | EPDM          | Teflon + Graphite | 806 (2)   |
| 809                       |               |                                |               | Buna          | Teflon + Graphite | 809       |
| 816 (2)                   | Ductile Iron  | Aluminum                       | 416 SS        | EPDM          | Teflon + Graphite | 816 (2)   |
| 819                       |               | Bronze                         |               | Buna          | Teflon + Graphite | 819       |
| 574                       | Ductile Iron  | Ductile Iron, Nylon 11 covered | 416 SS        | Buna          | Teflon + Graphite | 574       |
| 575 (2)                   |               |                                |               | EPDM          | Teflon + Graphite | 575 (2)   |

Additional materials and options are available, please contact us with your requirement

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