

# Threaded End Connection

## Series F Carbon Steel

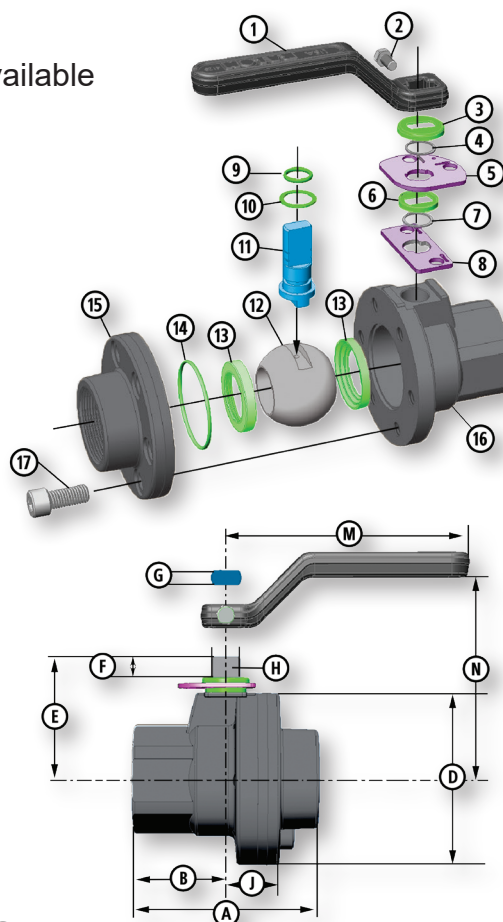
- Lever Operated Ball Valve
- To 5000 PSI WP
- 1" Through 4"
- Bolted Body Construction
  - Meets API 641 Emissions Standard
  - Available in Low-Temp Service to -50° F
  - Multi-Seal Seats
  - Bolted Body Protects Against End Adapter Blowout
  - Fire Safe Design
  - NACE Option With 316 Stainless Steel Ball and Stem Available
  - Rugged Locking Device Standard
  - Maintenance Free



### Material Description

| ITEM | PART NAME           | MATERIAL (STANDARD)                  | MATERIAL (NACE)                | LOW TEMP (NACE)                |
|------|---------------------|--------------------------------------|--------------------------------|--------------------------------|
| 1    | Handle*             | Carbon Steel/Ductile Iron            | Carbon Steel/Ductile Iron      | Carbon Steel/Ductile Iron      |
| 2    | Handle Bolt         | Standard Hex Bolt                    | Standard Hex Bolt              | Standard Hex Bolt              |
| 3    | Weather Guard       | Polyethylene                         | Polyethylene                   | Polyethylene                   |
| 4    | Lock Plate Retainer | Carbon Spring Steel                  | Carbon Spring Steel            | Carbon Spring Steel            |
| 5    | Lock Plate          | Carbon Steel                         | Carbon Steel                   | Carbon Steel                   |
| 6    | Dust Cover          | Polyethylene                         | Polyethylene                   | Polyethylene                   |
| 7    | Stop Plate Retainer | Carbon Spring Steel                  | Carbon Spring Steel            | Carbon Spring Steel            |
| 8    | Stop Plate          | Carbon Steel                         | Carbon Steel                   | Carbon Steel                   |
| 9    | Stem O-Ring         | Buna-N                               | Fluorocarbon                   | Fluorocarbon                   |
| 10   | Stem Seal           | TFE                                  | TFE                            | TFE                            |
| 11   | Stem                | Carbon Steel                         | 316 Stainless Steel            | 316 Stainless Steel            |
| 12   | Ball                | Carbon Steel<br>Nickel Chrome Plated | 316 Stainless Steel            | 316 Stainless Steel            |
| 13   | Ball Seat           | Nylon/Acetal<br>(TFE Optional)       | Nylon/Acetal<br>(TFE Optional) | Nylon/Acetal<br>(TFE Optional) |
| 14   | Body O-Ring         | Buna-N                               | Fluorocarbon                   | Fluorocarbon                   |
| 15   | End Adapter         | ASTM A105, Normalized                | ASTM A105, Normalized          | ASTM A350LF2 CL1               |
| 16   | Body                | ASTM A105, Normalized                | ASTM A105, Normalized          | ASTM A350LF2 CL1               |
| 17   | Body Bolts          | ASTM A193 B7M                        | ASTM A193 B7M                  | A320L7M                        |

\*Handle is optional. Balon valves can also be operated with a standard open-end wrench.



### Dimensional Data

| SIZE        | CATALOG NUMBER                               |                                    |                                   | PORT | WP   | A    | B    | D    | E    | F    | G    | H     | J     | M     | N    | LBS. | HANDLE    | Cv  |
|-------------|----------------------------------------------|------------------------------------|-----------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|------|------|-----------|-----|
|             | STANDARD TRIM<br>CARBON STEEL<br>BALL & STEM | NACE TRIM<br>316 SS<br>BALL & STEM | LOW TEMP<br>316 SS<br>BALL & STEM |      |      |      |      |      |      |      |      |       |       |       |      |      |           |     |
| 1x1x1       | 1F-F93-SE                                    | 1F-F93N-SE                         | N/A                               | 1    | 2500 | 3.87 | 1.93 | 3.37 | 2.37 | 0.50 | .340 | .685  | 1.12  | 4.37  | 2.00 | 4.3  | P-333-CS  | -   |
| 1x1x1       | 1F-F03-SE                                    | 1F-F03N-SE                         | 1F-F03NL-SE                       | 1    | 3000 | 3.87 | 1.93 | 3.37 | 2.37 | 0.50 | .340 | .685  | 1.12  | 4.37  | 2.00 | 4.0  | P-333-CS  | -   |
| 1.5x1.5x1.5 | 1.5F-F03-SE                                  | 1.5F-F03N-SE                       | N/A                               | 1.5  | 3000 | 5.25 | 2.62 | 5.12 | 3.62 | 0.75 | .434 | .873  | 1.62  | 7.25  | 5.25 | 12.8 | P-4128-CS | -   |
| 2x1.5x2     | 2R-F93-SE                                    | 2R-F93N-SE                         | N/A                               | 1.5  | 2500 | 5.50 | 2.75 | 5.12 | 3.62 | 0.75 | .434 | .873  | 1.62  | 7.25  | 5.25 | 13.5 | P-4128-CS | 125 |
| 2x1.5x2     | 2R-F03-SE                                    | 2R-F03N-SE                         | 2R-F03NL-SE                       | 1.5  | 3000 | 5.50 | 2.75 | 5.12 | 3.62 | 0.75 | .434 | .873  | 1.62  | 7.25  | 5.25 | 13.0 | P-4128-CS | 125 |
| 2x1.5x2     | 2R-F5M-SE                                    | 2R-F5MN-SE                         | N/A                               | 1.5  | 5000 | 6.00 | 3.00 | 6.00 | 3.62 | 0.75 | .434 | .873  | 1.75  | 10.25 | 5.62 | 20.0 | P-4129-CS | 125 |
| 2x2x2       | 2F-F93-SE                                    | 2F-F93N-SE                         | N/A                               | 2    | 2000 | 5.75 | 2.87 | 6.12 | 4.37 | 0.87 | .497 | .998  | 2.00  | 10.25 | 6.20 | 20.0 | P-4129-CS | -   |
| 2x2x2       | 2F-F03-SE                                    | 2F-F03N-SE                         | 2F-F03NL-SE                       | 2    | 2500 | 5.75 | 2.87 | 6.12 | 4.37 | 0.87 | .497 | .998  | 2.00  | 10.25 | 6.20 | 19.0 | P-4129-CS | -   |
| 2x2x2       | 2F-F3M-SE                                    | 2F-F3MN-SE                         | N/A                               | 2    | 3000 | 5.75 | 2.87 | 6.12 | 4.37 | 0.87 | .497 | .998  | 2.00  | 10.25 | 6.20 | 20.0 | P-4129-CS | -   |
| 3x2x3       | 3R-F93-SE                                    | 3R-F93N-SE                         | 3R-F93NL-SE                       | 2    | 2000 | 7.62 | 3.81 | 6.87 | 4.37 | 0.87 | .497 | .998  | 2.06  | 10.25 | 6.20 | 32.0 | P-4129-CS | 180 |
| 3x3x3       | 3F-F63-SE                                    | 3F-F63N-SE                         | 3F-F63NL-SE                       | 3    | 1500 | 8.37 | 4.18 | 8.00 | 5.75 | 1.06 | .747 | 1.373 | 2.375 | 20.0  | 7.75 | 46.0 | P-4127-DI | -   |
| 3x3x3       | 3F-F03-SE                                    | 3F-F03N-SE                         | N/A                               | 3    | 3000 | 8.37 | 4.18 | 8.56 | 5.75 | 1.08 | .747 | 1.375 | 2.47  | 20.0  | 7.75 | 56.0 | P-4127-DI | -   |
| 4x3x4       | 4R-F63-SE                                    | 4R-F63N-SE                         | 4R-F63NL-SE                       | 3    | 1500 | 8.87 | 4.43 | 8    | 5.75 | 1.06 | .747 | 1.375 | 2.375 | 20.0  | 7.75 | 47.0 | P-4127-DI | 500 |

\* Balon manufactured Actuation Mounting Hardware available. Please see page A-2 for details.