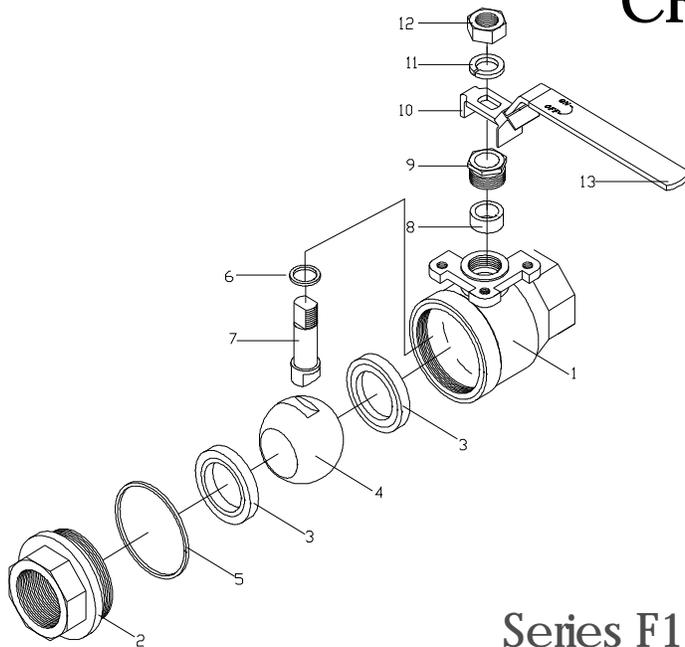


# Installation, Maintenance and Operating Instructions

## CF Ball Valves 2pc. Threaded



### Series F11

- |                           |                          |                            |
|---------------------------|--------------------------|----------------------------|
| 1. Body - CF8M            | 5. *Body Seal - PTFE     | 9. Packing Nut - AISI 304  |
| 2. End Cap - CF8M         | 6. *Thrust Washer - PTFE | 10. Lever - AISI 304       |
| 3. *Seat - 15% glass RTFE | 7. Stem - 316SS          | 11. Lock Washer - AISI 304 |
| 4. Ball - 316Ss           | 8. *Stem Packing - PTFE  | 12. Lever Nut - AISI 304   |
|                           |                          | 13. Lever Sleeve - Vinyl   |

\*Parts indicated are included with CF Service Kit

#### 1. General

The valve may be fitted in any position in the pipework. Before installing, the pipes must be flushed clean of dirt, burrs and welding residues. The pipe must be free of tension.

#### 2. Installation of threaded connections

Using conventional thread sealant, apply the wrench only on the valve end nearest to the pipe being worked. Tightening by using the valve body or handle can lead to serious damage.

#### 3. Putting into Operation

Open the ball valve, flush pipe thoroughly again.

#### 4. Replacement of Seats and Seals

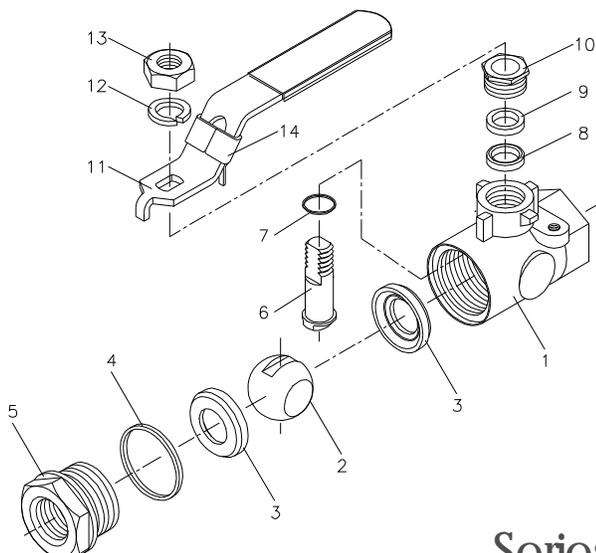
Set valve in open position and remove complete body. Close the valve, unscrew and remove the body (end cap) and remove seats, ball and body seals (joint gasket). Be careful not to damage the ball. Remove handle nut and handle or actuator and unscrew stem retaining gland nut. Push stem into the valve body and remove carefully. Remove V-ring stem packing. Clean all parts, especially the sealing surfaces of ends and stem.

#### 6. Assembly

Put one stem seal on stem and insert the stem from the inside of the body. Add to the stem set of V-ring stem packing. Replace stem retaining gland nut and tighten\*. Be sure to avoid rotating the stem by applying a suitable wrench. Replace handle stem\handle washer and stem\handle nut or actuator. Insert ball, seats and body joint seal. Apply Loctite or equal around body (end cap) threads, replace (end cap) and tighten to torque specifications in table below. Cycle valve slowly twice to ensure proper alignment of ball and seats.

#### 5. Maintenance

Routine maintenance consists of tightening the stem nut 1/4 turn periodically to compensate for the wear caused by stem operation. More frequent observation is recommended under extreme services. Recommended overhaul consists of replacement of the seats and seals. Kits are available as CF Service Kit ordering example: F11FRC2-KIT



### Series R22

- |                           |                            |                               |
|---------------------------|----------------------------|-------------------------------|
| 1. Body - CF8M            | 6. Stem - 316SS            | 11. Lever - AISI 304          |
| 2. Ball - CF8M            | 7. *Thrust Washer - PTFE   | 12. Lock Washer - AISI 304    |
| 3. *Seat - 15% glass RTFE | 8. *Stem Packing - PTFE    | 13. Lever Nut - AISI 304      |
| 4. *Body Seal - PTFE      | 9. *Stem Packing - PTFE    |                               |
| 5. End Cap - CF8M         | 10. Packing Nut - AISI 304 | 14. Locking Device - AISI 304 |

\*Parts indicated are included with CF Service Kit