

# HIGH PURITY SANITARY BALL VALVES



THE TF-5308/5309 VALVE IS DESIGNED FOR HIGH PURITY APPLICATIONS IN THE PHARMACEUTICAL, BIOPHARM, PERSONAL CARE PRODUCTS AND FOOD INDUSTRIES AND OFFERS A UNIQUE ARRAY OF DESIGN FEATURES.

## Features & Specifications

- » ½"–2" sizes feature an enclosed body bolt design
- » Live-loaded stem with self-adjusting packing and no internal tapers
- » Designed for high cycle automated applications
- » Highly polished internals and end caps 8-12 Ra
- » All materials comply with FDA, USDA, & 3A requirements
- » Manufacturer is ISO 9000 certified
- » ASTM 316/316L stainless steel investment cast body and end caps
- » Available with Tri-Clamp® or butt weld ends, butt weld ends have extended tangents for orbital welding
- » 100% tested and inspected prior to shipping with full traceability of all component parts
- » Weld end valves meet the ASME-BPE requirements for sulfur and carbon
- » 3-PC body design for serviceability in line
- » TFM1600 & PTFE components meet CFR Title 21 section 177.1550
- » All valves meet MSS SP-25, SP-82, SP-110 and ANSI B16 standards
- » Lubricant and silicone-free
- » Valve is passivated 316L material in regular or cavity filled



Locking lever handle design

Live loaded stem packing with Belleville washers

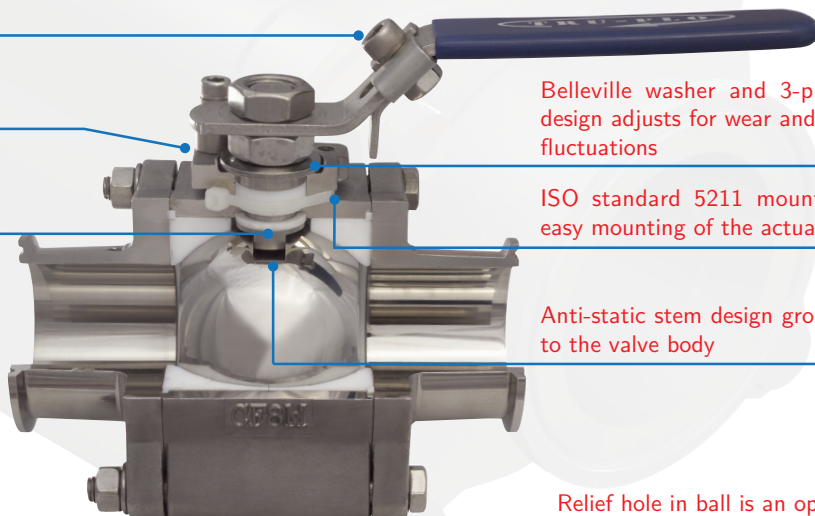
Blowout proof stem design

Belleville washer and 3-piece packing design adjusts for wear and temperature fluctuations

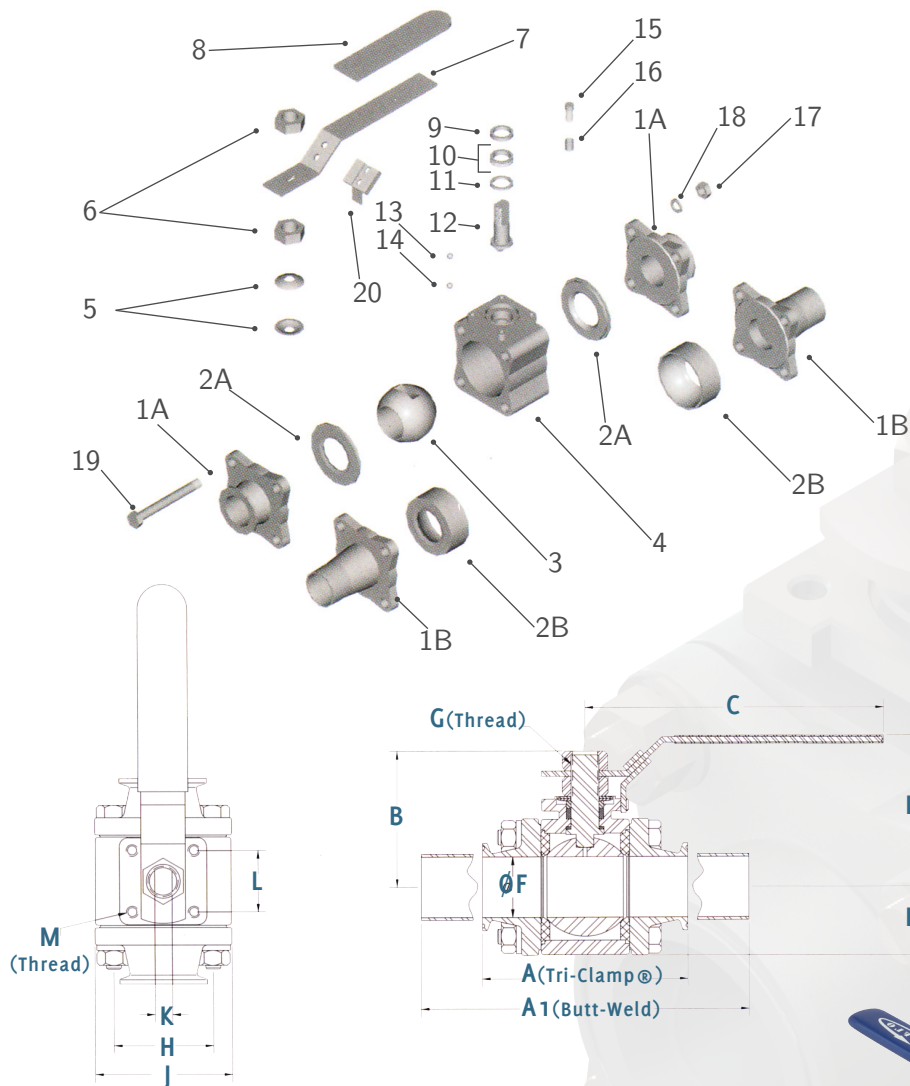
ISO standard 5211 mounting pad for easy mounting of the actuator

Anti-static stem design grounds the ball to the valve body

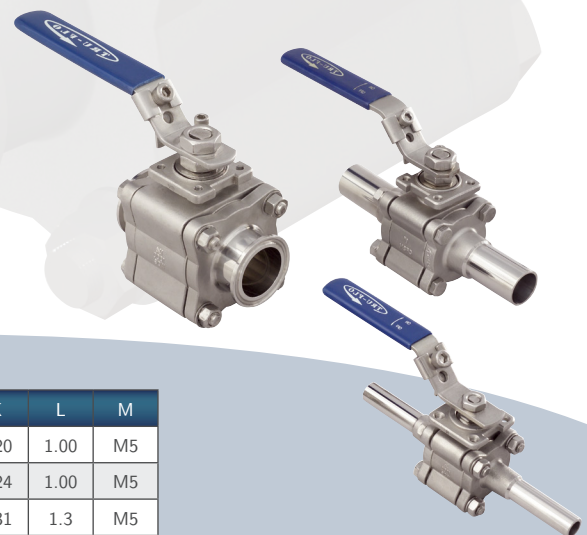
Relief hole in ball is an option



# TF-5308/5309



| Item | Part (Qty)             | Material              |
|------|------------------------|-----------------------|
| 1A   | Tri-Clamp® End Cap (2) | T316L Stainless Steel |
| 1B   | Butt Weld End Cap (2)  | T316L Stainless Steel |
| 2A   | Standard Seat (2)      | TFM1600               |
| 2B   | Cavity Fill Seat (2)   | TFM1600               |
| 3    | Ball                   | T316L Stainless Steel |
| 4    | Valve Body             | T316L Stainless Steel |
| 5    | Belleville Washer (2)  | T304 Stainless Steel  |
| 6    | Lever Nut              | T304 Stainless Steel  |
| 7    | Handle                 | T304 Stainless Steel  |
| 8    | Handle Cover           | Vinyl                 |
| 9    | Gland Ring             | Stainless Steel       |
| 10   | Stem Seal (3)          | TFM1600               |
| 11   | Stem Gasket            | TFM1600               |
| 12   | Stem                   | T316L Stainless Steel |
| 13   | Springs (2)            | T304 Stainless Steel  |
| 14   | Static Device (2)      | T304 Stainless Steel  |
| 15   | Stop Screw             | T304 Stainless Steel  |
| 16   | Handle Stop            | T303 Stainless Steel  |
| 17   | Hex Nut (4)            | T304 Stainless Steel  |
| 18   | Spring Washer (4)      | T304 Stainless Steel  |
| 19   | Bolt (4)               | T304 Stainless Steel  |
| 20   | Handle Lock            | T304 Stainless Steel  |



1/2" to 2"

| Size   | A    | A1   | B    | C    | D    | E    | F    | G       | H    | J    | K    | L    | M  |
|--------|------|------|------|------|------|------|------|---------|------|------|------|------|----|
| 1/2"   | 3.50 | 6.06 | 1.75 | 4.33 | 2.05 | 0.75 | 0.37 | 5/16-24 | 1.18 | 1.62 | 0.20 | 1.00 | M5 |
| 3/4"   | 3.50 | 6.06 | 1.87 | 4.33 | 2.27 | 1.00 | 0.63 | 3/8-24  | 1.43 | 2.00 | 0.24 | 1.00 | M5 |
| 1"     | 3.50 | 6.55 | 2.50 | 5.32 | 2.93 | 1.06 | 0.87 | 1/2-20  | 1.68 | 2.25 | 0.31 | 1.3  | M5 |
| 1 1/2" | 4.50 | 8.06 | 3.18 | 6.50 | 3.50 | 1.50 | 1.37 | 5/8-18  | 2.38 | 3.00 | 0.39 | 1.4  | M6 |
| 2"     | 5.00 | 8.56 | 3.38 | 6.50 | 3.96 | 1.75 | 1.87 | 5/8-18  | 2.88 | 3.65 | 0.39 | 1.5  | M6 |