

# Stainless Steel Ball Valve - ISO Top - TFM 1600 Seats



LV8462 Socket Weld, LV 8464 BSPP

ISO 5211 for Direct Mount, 3 Piece CF8 Stainless Steel Body & Ball, Full Bore,  
316 Stainless Steel Stem, **TFM 1600** Seats, Firesafe Certified, Locking Lever

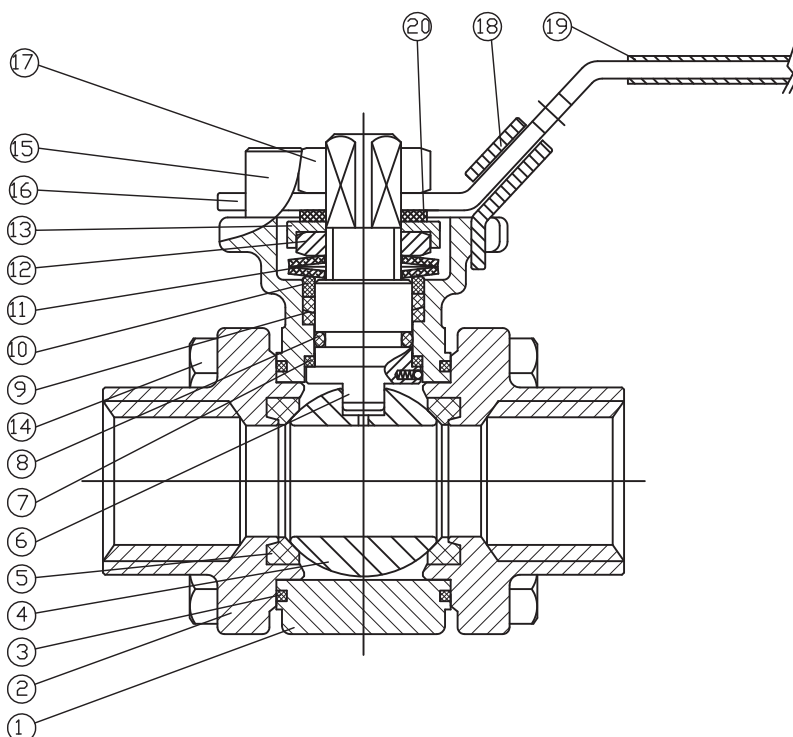


## Pressure / Temperature Specifications

|             |                 |
|-------------|-----------------|
| Pressure    | PN130 ¼" to 1"  |
|             | PN100 1¼" to 2" |
|             | PN130 2½" to 4" |
| Temperature | -29°C to 200°C  |

## Material Specifications

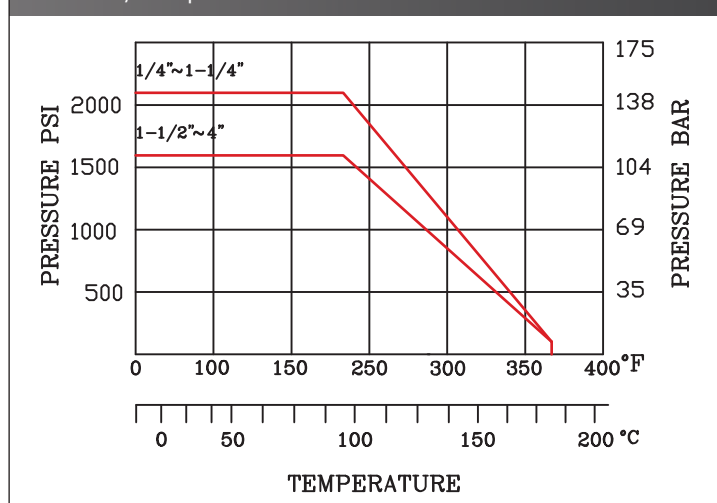
|                       |                          |
|-----------------------|--------------------------|
| 1. Body               | CF8M Stainless Steel     |
| 2. End Cap            | CF8M Stainless Steel     |
| 3. Joint Gasket       | Graphite                 |
| 4. Ball               | CF8M Stainless Steel     |
| 5. Seat               | TFM 1600                 |
| 6. Stem               | AISI 316 Stainless Steel |
| 7. Thrust Washer      | 25% Carbon               |
| 8. O-ring             | Viton                    |
| 9. Stem Packing       | Graphite                 |
| 10. Stem O-ring       | AISI 304 Stainless Steel |
| 11. Belleville Washer | AISI 301 Stainless Steel |
| 12. Stem Nut          | AISI 304 Stainless Steel |
| 13. Saddle Washer     | AISI 304 Stainless Steel |
| 14. Hex Bolt          | AISI 304 Stainless Steel |
| 15. Stop Pin          | AISI 304 Stainless Steel |
| 16. Handle            | AISI 304 Stainless Steel |
| 17. Handle Nut        | AISI 304 Stainless Steel |
| 18. Locking Device    | AISI 304 Stainless Steel |
| 19. Handle Cover      | PVC                      |
| 20. Square Washer     | AISI 304 Stainless Steel |



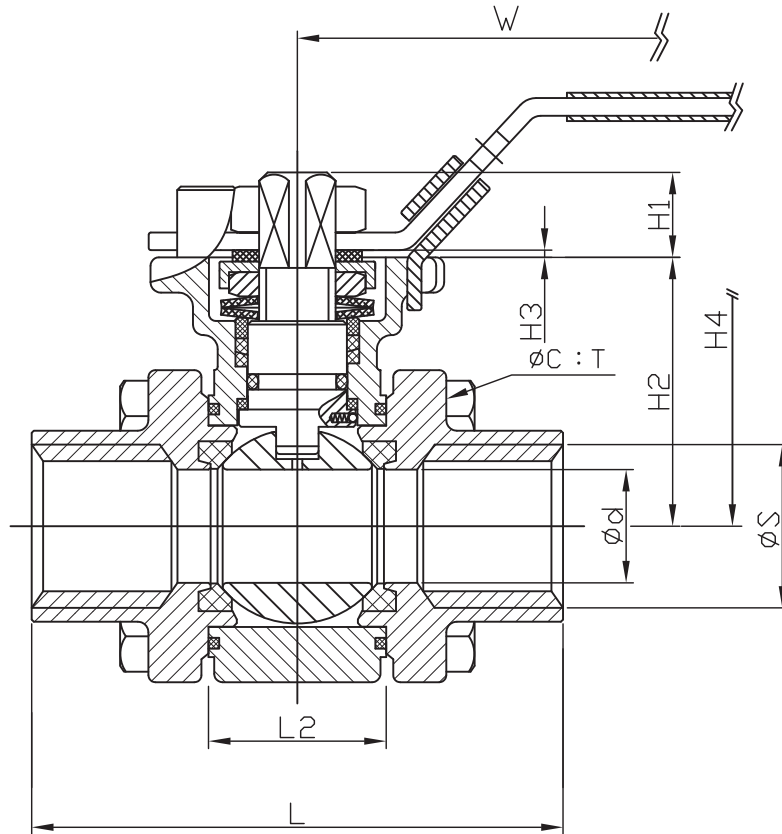
## Flow Rate & Torque Figures

| Size | CV    | Nm    |
|------|-------|-------|
| ¼"   | 6.4   | 4.8   |
| ⅜"   | 7.9   | 4.8   |
| ½"   | 11.2  | 7.4   |
| ¾"   | 21.0  | 13.7  |
| 1"   | 34.0  | 20.0  |
| 1¼"  | 57.0  | 27.0  |
| 1½"  | 80.0  | 35.0  |
| 2"   | 148.0 | 50.0  |
| 2½"  | 265.0 | 70.0  |
| 3"   | 415.0 | 90.0  |
| 4"   | 780.0 | 120.0 |

## Pressure / Temperature Chart



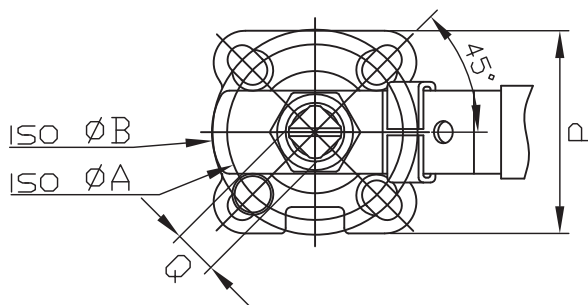
See following page for dimensions



Dimensions

| Size   | Ød   | L   | L2    | H1 | H2  | H3     | H4  | ØS*   | ØC   | T   | W   | Kg   |
|--------|------|-----|-------|----|-----|--------|-----|-------|------|-----|-----|------|
| 1/4"   | 11   | 65  | 22.7  | 11 | 34  | 1 to 5 | 68  | 14.1  | 6.5  | M6  | 117 | 0.52 |
| 3/8"   | 12.7 | 65  | 22.7  | 11 | 34  | 1 to 5 | 68  | 17.6  | 6.5  | M6  | 117 | 0.55 |
| 1/2"   | 16   | 75  | 24    | 11 | 38  | 1 to 5 | 72  | 21.7  | 6.5  | M6  | 117 | 0.64 |
| 3/4"   | 20   | 80  | 28    | 14 | 43  | 1 to 5 | 79  | 27.1  | 8.4  | M8  | 127 | 0.95 |
| 1"     | 25   | 90  | 34    | 12 | 50  | 1 to 5 | 85  | 33.8  | 8.4  | M8  | 170 | 1.34 |
| 1 1/4" | 32   | 110 | 44    | 12 | 55  | 1 to 5 | 88  | 44.0  | 10.6 | M10 | 170 | 2.25 |
| 1 1/2" | 38   | 120 | 53    | 16 | 65  | 1 to 5 | 105 | 50.0  | 10.6 | M10 | 182 | 3.63 |
| 2"     | 50   | 140 | 65    | 16 | 75  | 1 to 5 | 114 | 61.5  | 10.6 | M10 | 182 | 5.97 |
| 2 1/2" | 65   | 185 | 74.6  | 28 | 103 | 1 to 5 | 153 | 76.9  | 12.6 | M12 | 333 | 11.0 |
| 3"     | 80   | 205 | 87    | 28 | 113 | 1 to 5 | 165 | 89.8  | 12.6 | M12 | 333 | 14.2 |
| 4"     | 100  | 240 | 112.5 | 40 | 150 | 1 to 5 | 205 | 115.4 | 14.6 | M14 | 333 | 28.0 |

\* Relevant to socket weld version only



Dimensions

| Size   | ISO ØA | ISO ØB | Q  | P    |
|--------|--------|--------|----|------|
| 1/4"   | F03    | F03    | 9  | 36   |
| 3/8"   | F03    | F03    | 9  | 36   |
| 1/2"   | F03    | F04    | 9  | 41.5 |
| 3/4"   | F03    | F04    | 11 | 41.5 |
| 1"     | F04    | F05    | 11 | 50.4 |
| 1 1/4" | F04    | F05    | 11 | 50.4 |
| 1 1/2" | F05    | F07    | 14 | 66.5 |
| 2"     | F05    | F07    | 14 | 66.5 |
| 2 1/2" | F07    | F10    | 17 | 90   |
| 3"     | F07    | F10    | 17 | 90   |
| 4"     | F10    | F12    | 22 | 113  |