

# Bronze Ball Valves

Three-Piece Body • Full Port • 316SS Trim • Blowout-Proof Stem • Vented Ball

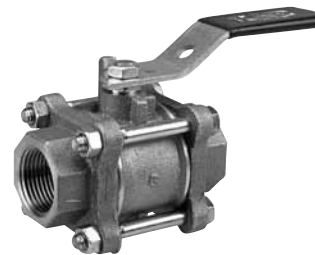
**600 PSI/41.4 Bar Non-Shock Cold Working Pressure**  
**150 PSI/10.3 Bar Saturated Steam** ◆

CONFORMS TO MSS SP-110

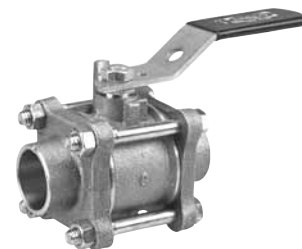
## MATERIAL LIST

| PART                   | SPECIFICATION                                                  |
|------------------------|----------------------------------------------------------------|
| 1. Handle Nut          | Stainless Steel 300 Series                                     |
| 2. Handle              | Zinc Plated Steel Clear Chromate<br>Plastisol Coated           |
| 3. Threaded Pack Gland | Brass ASTM B 16 Alloy C36000                                   |
| 4. Stem                | Stainless Steel ASTM A 276 Type 316                            |
| 5. Body                | Bronze ASTM B 584 Alloy C84400                                 |
| 6. Packing             | PTFE                                                           |
| 7. Body End (2)        | Cast Bronze ASTM B 584 Alloy C84400                            |
| 8. O-Ring Seal (2)     | Fluorocarbon Rubber                                            |
| 9. Seat Ring (2)       | PTFE                                                           |
| 10. Ball (Vented)      | Stainless Steel ASTM A 276 Type 316<br>or ASTM A 351 Type CF8M |
| 11. Thrust Washer      | Reinforced PTFE                                                |
| 12. Body Bolts         | Zinc Dichromate Plated Steel<br>ASTM A 449 Grade 5             |
| 13. Body Nuts          | Zinc Dichromate Plated Steel<br>ASTM A 449 Grade 5             |

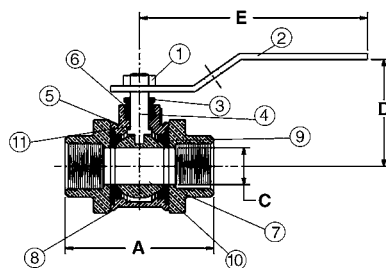
Note: Valves are static grounded by a grounding washer. (Not Shown)



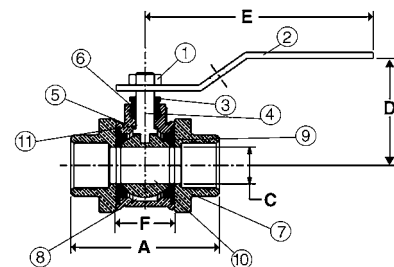
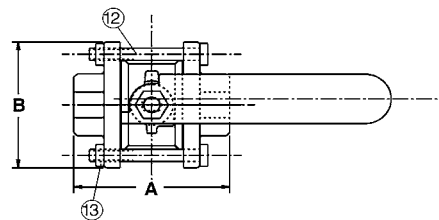
**T-595-Y-66**  
Threaded



**S-595-Y-66**  
Solder



**T-595-Y-66**  
NPT x NPT



**S-595-Y-66**  
C x C

## DIMENSIONS—WEIGHTS—QUANTITIES

| DIMENSIONS - METRIC - CONTINUED |     |      |     |            |     |      |     |            |     |      |     |      |     |      |     |            |      |            |      |                  |  |  |
|---------------------------------|-----|------|-----|------------|-----|------|-----|------------|-----|------|-----|------|-----|------|-----|------------|------|------------|------|------------------|--|--|
| T-595-Y-66                      |     |      |     | S-595-Y-66 |     |      |     | Dimensions |     |      |     |      |     |      |     | S-595-Y-66 |      |            |      |                  |  |  |
| Size                            |     | A    |     | A          |     | B    |     | C          |     | D    |     | E    |     | F    |     | T-595-Y-66 |      | S-595-Y-66 |      | Master Ctn. Qty. |  |  |
| In.                             | mm. | In.  | mm. | In.        | mm. | In.  | mm. | In.        | mm. | In.  | mm. | In.  | mm. | In.  | mm. | Lbs.       | Kg.  | Lbs.       | Kg.  |                  |  |  |
| ¼                               | 8   | 2.50 | 64  | 1.69       | 43  | 1.81 | 46  | .38        | 10  | 1.69 | 43  | 3.91 | 99  | 1.13 | 29  | 1.03       | .47  | .89        | .40  | 50               |  |  |
| ⅜                               | 10  | 2.50 | 64  | 1.81       | 46  | 1.81 | 46  | .38        | 10  | 1.69 | 43  | 3.91 | 99  | 1.13 | 29  | .98        | .44  | .89        | .40  | 50               |  |  |
| ½                               | 15  | 2.50 | 64  | 2.06       | 52  | 1.81 | 46  | .50        | 13  | 1.69 | 43  | 3.91 | 99  | 1.13 | 29  | 1.03       | .47  | .89        | .40  | 50               |  |  |
| ¾                               | 20  | 3.00 | 76  | 2.94       | 75  | 1.94 | 49  | .75        | 19  | 2.00 | 51  | 4.66 | 118 | 1.44 | 37  | 1.70       | .77  | 1.59       | .72  | 30               |  |  |
| 1                               | 25  | 3.69 | 94  | 3.66       | 93  | 2.50 | 64  | 1.00       | 25  | 2.25 | 57  | 4.66 | 118 | 1.84 | 47  | 2.82       | 1.28 | 2.55       | 1.15 | 20               |  |  |
| 1¼                              | 32  | 4.09 | 104 | 3.91       | 99  | 2.69 | 68  | 1.25       | 32  | 2.75 | 70  | 6.69 | 170 | 1.97 | 50  | 3.96       | 1.80 | 3.61       | 1.64 | 10               |  |  |
| 1½                              | 40  | 4.56 | 116 | 4.60       | 117 | 3.00 | 76  | 1.50       | 38  | 2.97 | 75  | 6.69 | 170 | 2.38 | 60  | 5.68       | 2.57 | 5.31       | 2.41 | 10               |  |  |
| 2                               | 50  | 6.16 | 156 | 5.78       | 147 | 4.00 | 102 | 2.00       | 51  | 3.63 | 92  | 6.69 | 170 | 3.06 | 78  | 11.40      | 5.17 | 10.60      | 4.81 | 4                |  |  |
| 2½                              | 65  | 6.84 | 174 | 6.94       | 176 | 5.00 | 127 | 2.50       | 64  | 4.09 | 104 | 8.00 | 203 | 4.00 | 102 | 21.07      | 9.56 | 19.30      | 8.75 | 2                |  |  |

◆ For detailed Operating Pressure, refer to Pressure Temperature Chart on page 41.