

# Class 150 Bronze Check Valves

Horizontal Swing • Regrinding Type • Y-Pattern  
• Renewable Seat and Disc

**150 PSI/10.3 Bar Saturated Steam to 366° F/185° C**  
**300 PSI/20.7 Bar Non-Shock Cold Working Pressure**

CONFORMS TO MSS SP-80

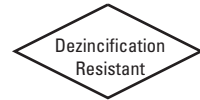
## MATERIAL LIST

| PART                  | SPECIFICATION  |
|-----------------------|--|
| 1. Bonnet             | Bronze ASTM B 62   |
| 2. Body               | Bronze ASTM B 62   |
| 3. Hinge Pin          | Bronze ASTM B 140 Alloy C31400 or B 134 Alloy C23000     |
| 4. Disc Hanger        | Bronze ASTM B 62 or 304 Stainless Steel ¼" thru ¾" sizes |
| 5. Hanger Nut         | Bronze ASTM B 16   |
| 6. Disc Holder        | Bronze ASTM B 62   |
| 7. Seat Disc          | Steam (PTFE) (Y)<br>Bronze ASTM B 62 C83600 (B)          |
| 8. Seat Disc Nut      | Bronze ASTM B 16 or B 62                                 |
| 9. Hinge Pin Plug     | Bronze ASTM B 140 Alloy C31400 (not shown)               |
| *10. Seat Disc Washer | ASTM B 98 Alloy C65500 or ASTM B 103                     |

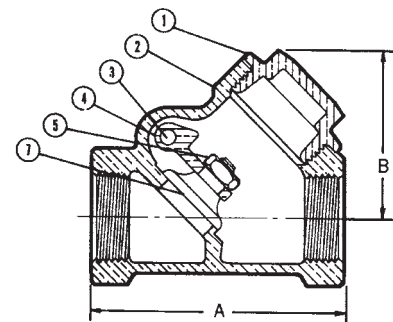
\* Sizes ¾", 1", 1¼", 1½" and 2" only.



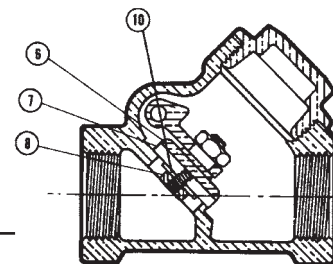
**T-433**  
Threaded



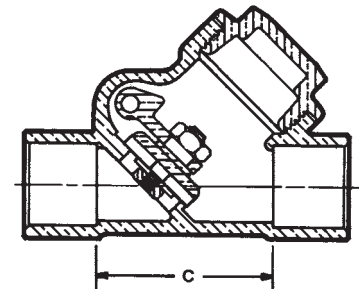
**S-433**  
Solder



**T-433-B**  
NPT x NPT



**T-433-Y**  
NPT x NPT



**S-433-Y**  
C x C

## DIMENSIONS—WEIGHTS—QUANTITIES

| Size | Dimensions |      |     |      |     |      |     |      | T-433 |       | S-433 |       | Master Ctn. Qty. |    |
|------|------------|------|-----|------|-----|------|-----|------|-------|-------|-------|-------|------------------|----|
|      | A          |      | B   |      | C   |      | D   |      | Lbs.  | Kg.   | Lbs.  | Kg.   |                  |    |
| In.  | mm.        | In.  | mm. | In.  | mm. | In.  | mm. | In.  | mm.   |       |       |       |                  |    |
| ¼    | 8          | 2.13 | 54  | 1.63 | 41  | 1.63 | 41  | 1.38 | 35    | 0.54  | 0.24  | 0.54  | 0.24             | 50 |
| ⅝    | 10         | 2.13 | 54  | 1.63 | 41  | 1.63 | 41  | 1.31 | 33    | 0.54  | 0.24  | 0.53  | 0.24             | 50 |
| ½    | 15         | 2.44 | 62  | 1.69 | 43  | 1.69 | 43  | 1.50 | 38    | 0.60  | 0.27  | 0.60  | 0.27             | 50 |
| ¾    | 20         | 2.94 | 75  | 1.88 | 48  | 1.88 | 48  | 1.88 | 48    | 0.98  | 0.44  | 0.99  | 0.45             | 50 |
| 1    | 25         | 3.56 | 90  | 2.31 | 59  | 2.31 | 59  | 2.25 | 57    | 1.58  | 0.72  | 1.57  | 0.71             | 30 |
| 1¼   | 32         | 4.19 | 106 | 2.69 | 68  | 2.69 | 68  | 2.75 | 70    | 2.39  | 1.08  | 2.34  | 1.06             | 20 |
| 1½   | 40         | 4.50 | 114 | 2.94 | 75  | 2.94 | 75  | 3.13 | 79    | 3.16  | 1.43  | 3.11  | 1.41             | 10 |
| 2    | 50         | 5.25 | 133 | 3.94 | 100 | 3.94 | 100 | 3.75 | 95    | 5.41  | 2.45  | 5.34  | 2.42             | 10 |
| 2½   | 65         | 8.00 | 203 | 5.06 | 129 | 5.06 | 129 | 5.31 | 135   | 11.48 | 5.21  | 11.20 | 5.08             | 5  |
| 3    | 80         | 9.25 | 235 | 6.25 | 159 | 6.25 | 159 | 6.25 | 159   | 17.53 | 7.95  | 16.91 | 7.67             | 4  |

Ordering: T-433 and S-433 normally furnished with Bronze Disc (T-433-B) or (S-433-B).  
Both available with PTFE Steam Disc (T-433-Y), (S-433-Y).

NIBCO® Check Valves may be installed in both horizontal and vertical lines with upward flow or in any intermediate position. They will operate satisfactorily in a declining plane (no more than 15°).

◆ For detailed Operating Pressure, refer to Pressure Temperature Chart on page 113.

Warning – Do Not Use For Reciprocating Air Compressor Service.