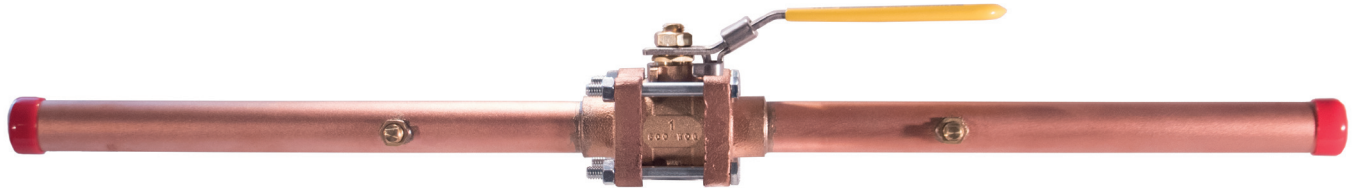
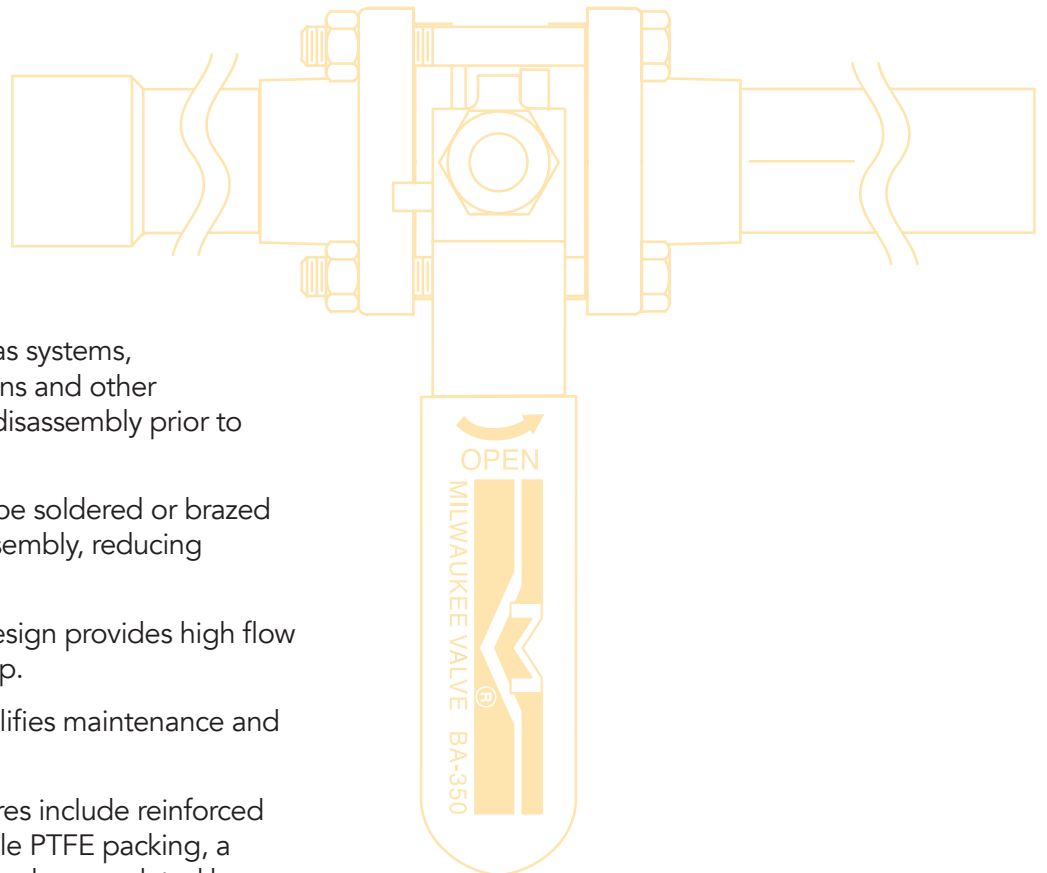


BA-350 Series (Medical Gas Service) 3-Piece Bronze Ball Valve With Extended Copper-Tube Ends



MSS SP-110
3-Piece, Full-Port, Bronze Ball Valve
600 WOG
Extended-Tube Ends
Inline Repairable



- Ideal for use in medical gas systems, pharmaceutical applications and other applications where valve disassembly prior to installation is undesirable.
- Extended-tube ends can be soldered or brazed into service without disassembly, reducing installation time.
- Full-port (1/2" - 2 1/2") design provides high flow with minimal pressure drop.
- 3-piece construction simplifies maintenance and repair.
- Additional standard features include reinforced RPTFE seats and adjustable PTFE packing, a blow-out proof stem and a chrome-plated brass ball.
- Sizes range from 1/2" - 3" (3" standard port).

BA-350 Series

Specifications:

Approved valves shall be Milwaukee Valve BA-350 Series. Valves shall meet or exceed the requirements of MSS SP-110. Valves shall be 3-piece, bronze body, full-port design (1/2" - 2 1/2") 3" standard port and include flexible RPTFE seats and adjustable PTFE packing. Valves shall have a blow-out-proof stem. Valves shall be provided from the factory with Type "K" Male or Female or Type "L" Female end copper-tube extensions. When required, the valves shall be factory cleaned for oxygen service in conformance with MVES 60-02, NFPA 99C CSA-41. Each cleaned valve shall include protective caps on the copper-tube ends, and be sealed in protective bags to prevent contamination prior to installation.

BA-350 Series Medical Gas Valve Configurator

| Series | - | Trim Material | - | End Connection | - | End Style | - | Gauge Ports | - | Handle Option | - | OC |
|--------|---|---------------|---|----------------|---|--------------|---|-------------|---|--------------------|---|----------------|
| BA-350 | | Blank - Brass | | TE - Tube End | | Blank - Male | | Blank -None | | Blank -Std | | Oxygen Cleaned |
| | | S- Stainless | | | | F - Female | | G -1 Port | | LD - Locking Lever | | |
| | | | | | | | | 2G - 2 Port | | | | |
| | | | | | | | | | | | | |

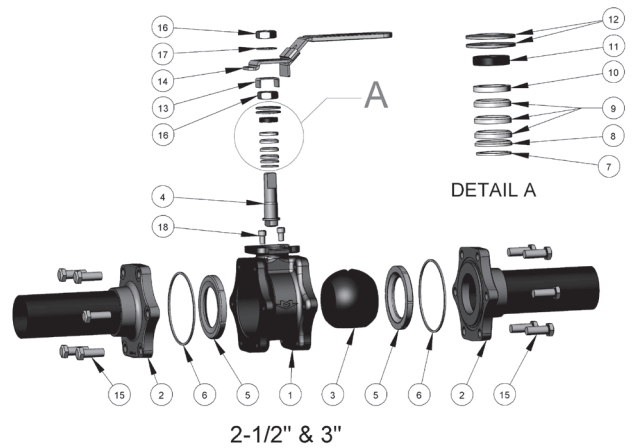
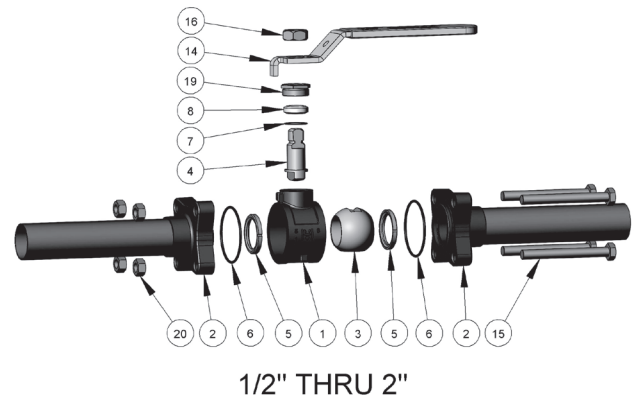
Example: BA-350S-TE-F-G-LD-OC Stainless Steel trim, female ends, one gauge port, locking handle cleaned for oxygen

BA-350 Series

| Material List | | | |
|---------------|------------------------|-------------------------|-------------|
| | Part | Materials | ASTM Spec. |
| 1 | Body | Bronze | B584 |
| 2 | Sil Brazed Tube | Bronze, Copper Tube | - |
| 3 | Ball | Chrome Plated Brass | B16 |
| | | 316 Stainless Steel | A276 |
| 4 | Stem | Brass | B16 |
| | | 316 Stainless Steel | A276 |
| 5 | Seat | 15% Glass RPTFE | - |
| 6 | O-Ring | Viton | MIL-R-83248 |
| 7 | Washer, Thrust | 25% Glass RPTFE | - |
| 8 | Packing, Male | PTFE | - |
| | Packing "V" | PTFE | - |
| 9 | Packing, Female | PTFE | - |
| 10 | Packing Follower | Brass | B16 |
| 11 | Washer, Belleville | 17-7 PH S.S. | Commercial |
| 12 | Nut Locker | S.S. 301 | Commercial |
| 13 | Handle Assy | Stainless Steel | A276 |
| 14 | Hex Head Cap Screw | SAE, Grade 8 | Commercial |
| 15 | Nut, Jam | Steel, Zinc Plating | Commercial |
| 16 | Washer, Internal Tooth | Stainless Steel | Commercial |
| 17 | Socket Head Cap Screw | Commercial Carbon Steel | Zinc Plated |
| 18 | Gland Nut | Brass | B16 |
| 19 | Hex Nut | Commercial | SAE 5140 |

*Not intended for use in potable water.

Pressure temperature charts containing valve seat and body ratings are available from the factory. Please contact the factory for accurate application data.

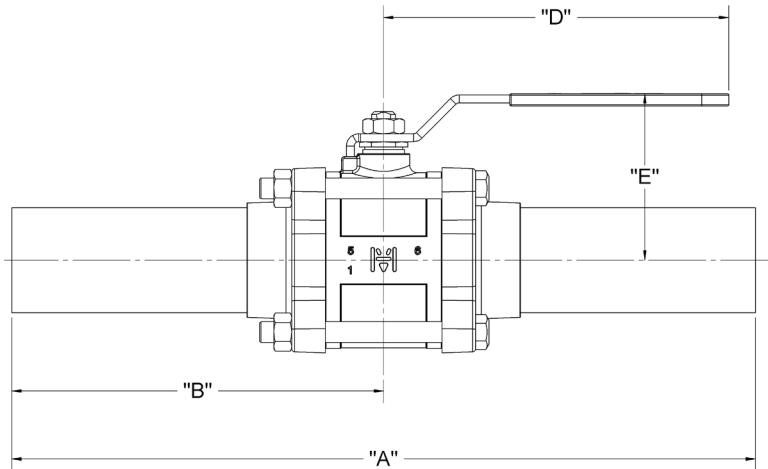


Available Options

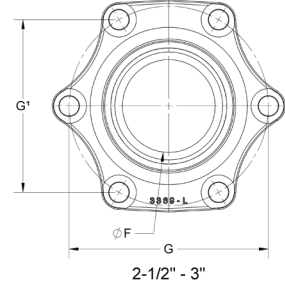
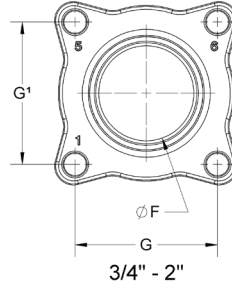
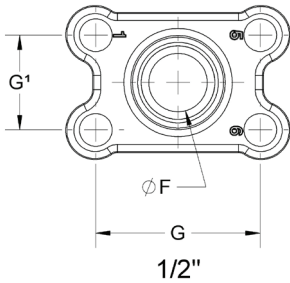
- Male Tube Ends - Type "K" (Standard)
- Female Tube Ends - Type "L" (-F) or Type "K" (-K) Cleaned For Oxygen Service In Accordance With NFPA 99C CSA-41 (-OC)
- Stainless-Steel Ball and Stem (-S)
- Stainless-Steel Locking Lever (-LD)
- Oval Handle (-OH)
- Oval Locking Handle (-LO)
- Stem Extension (-XH)
- Insulator/MS Handle (-TIH)
- Gauge Port (-G)
- Two Gauge Ports (-2G)

BA-350TE/350STE* 1/2" - 3"

*Not intended for use
in potable water.



Bronze Ball Valve
Three Piece
Full Port
600 WOG
Extended Tube Ends
Inline Repairable
Blow-Out Proof Stem
MSS SP-110

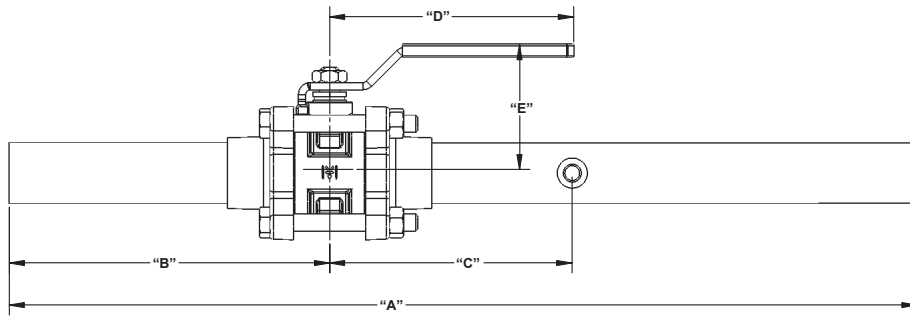


| | | Dimensions | | | | | | | |
|----------------|--------|------------|-------|-------|--------|--------|-------|--------|-------|
| | Units | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" |
| A | INCHES | 13.86 | 13.92 | 14.09 | 14.82 | 15.12 | 15.46 | 19.00 | 19.00 |
| | mm | 352 | 354 | 358 | 377 | 384 | 393 | 483 | 483 |
| B | INCHES | 6.93 | 6.96 | 7.04 | 7.41 | 7.56 | 7.73 | 9.50 | 9.50 |
| | mm | 176 | 177 | 179 | 188 | 192 | 196 | 241 | 241 |
| D | INCHES | 3.75 | 4.50 | 6.25 | 6.25 | 6.25 | 7.13 | 8.00 | 8.00 |
| | mm | 95 | 114 | 159 | 159 | 159 | 181 | 203 | 203 |
| E | INCHES | 1.85 | 2.20 | 2.65 | 2.79 | 2.97 | 3.47 | 5.44 | 5.44 |
| | mm | 47 | 56 | 67 | 71 | 75 | 88 | 138 | 138 |
| ØF | INCHES | 0.50 | 0.75 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 2.50 |
| | mm | 13 | 19 | 25 | 32 | 38 | 51 | 64 | 64 |
| G | INCHES | 1.41 | 1.51 | 1.80 | 2.16 | 2.38 | 3.00 | 5.38 | 5.38 |
| | mm | 36 | 38 | 46 | 55 | 60 | 76 | 137 | 137 |
| G ¹ | INCHES | 0.81 | 1.51 | 1.80 | 2.16 | 2.38 | 3.00 | 4.66 | 4.66 |
| | mm | 21 | 38 | 46 | 55 | 60 | 76 | 118 | 118 |
| C _v | | 17 | 31 | 60 | 110 | 185 | 360 | 390 | 390 |

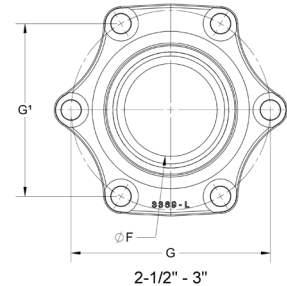
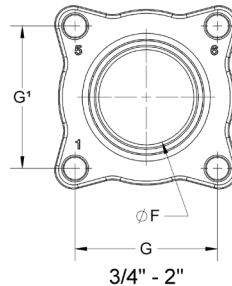
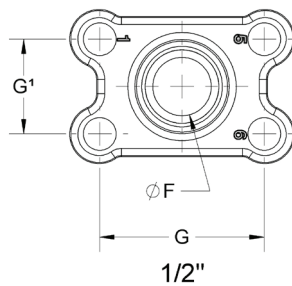
The information presented on this sheet is correct at time of publication. Milwaukee Valve reserves the right to change design and/or materials without notice. For our Installation, Operation and Maintenance Manual and the most current product information go to www.milwaukeevalve.com.
 ⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

BA-350TE-G/350STE-G* 1/2" - 3"

*Not intended for use in potable water.



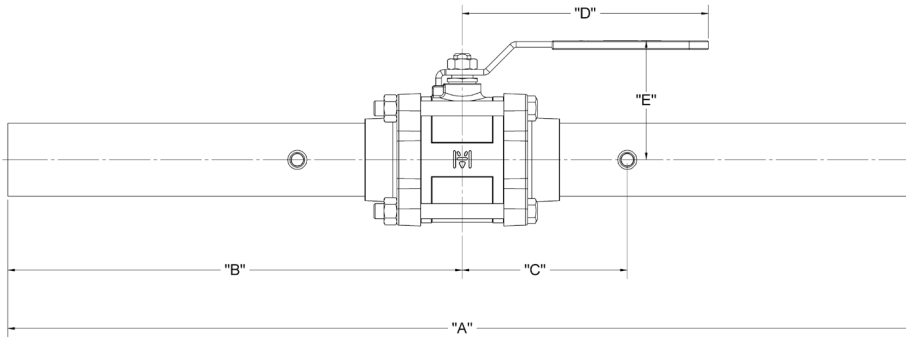
Bronze Ball Valve
Three Piece
Full Port
600 WOG
Extended Tube Ends with 1/8" NPT
Gauge Port
Inline Repairable
Blow-Out Proof Stem
MSS SP-110



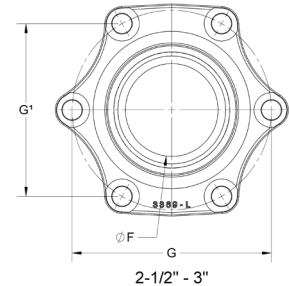
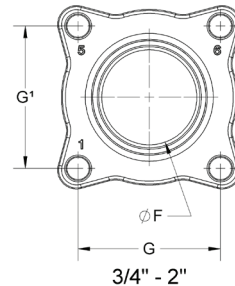
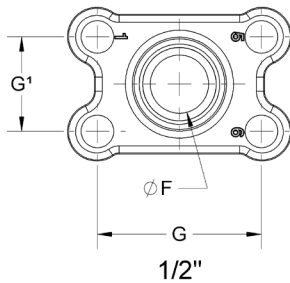
| | | Dimensions | | | | | | | |
|----------------|--------|------------|-------|-------|--------|--------|-------|--------|-------|
| | Units | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" |
| | | DN15 | DN20 | DN25 | DN32 | DN40 | DN50 | DN65 | DN75 |
| A | INCHES | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 24.25 | 24.25 |
| | mm | 533 | 533 | 533 | 533 | 533 | 533 | 616 | 616 |
| B | INCHES | 6.93 | 6.96 | 7.04 | 7.43 | 7.56 | 7.73 | 9.50 | 9.50 |
| | mm | 176 | 177 | 179 | 189 | 192 | 196 | 241 | 241 |
| C | INCHES | 6.46 | 6.11 | 5.82 | 5.44 | 5.23 | 4.79 | 4.25 | 4.25 |
| | mm | 164 | 155 | 148 | 138 | 133 | 122 | 108 | 108 |
| D | INCHES | 3.75 | 4.50 | 6.25 | 6.25 | 6.25 | 7.13 | 8.00 | 8.00 |
| | mm | 95 | 114 | 159 | 159 | 159 | 181 | 203 | 203 |
| E | INCHES | 1.85 | 2.20 | 2.65 | 2.79 | 2.97 | 3.47 | 5.44 | 5.44 |
| | mm | 7 | 56 | 67 | 71 | 75 | 88 | 138 | 138 |
| ØF | INCHES | 0.50 | 0.75 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 2.50 |
| | mm | 13 | 19 | 25 | 31 | 38 | 51 | 64 | 64 |
| G | INCHES | 1.41 | 1.51 | 1.80 | 2.16 | 2.38 | 3.00 | 5.38 | 5.38 |
| | mm | 36 | 38 | 46 | 55 | 60 | 76 | 137 | 137 |
| G1 | INCHES | 0.81 | 1.51 | 1.80 | 2.16 | 2.38 | 3.00 | 4.66 | 4.66 |
| | mm | 21 | 38 | 46 | 55 | 60 | 76 | 118 | 118 |
| C _v | | 17 | 31 | 60 | 110 | 185 | 360 | 390 | 390 |

BA-350TE-2G/350STE-2G* 1/2" - 3"

*Not intended for use in potable water.



Bronze Ball Valve
Three Piece
Full Port
600 WOG
Extended Tube Ends with 1/8" NPT
Two Gauge Ports
Inline Repairable
Blow-Out Proof Stem
MSS SP-110



Dimensions

| | Units | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" |
|----------------------|--------|-------|-------|-------|--------|--------|-------|--------|-------|
| | | DN15 | DN20 | DN25 | DN32 | DN40 | DN50 | DN65 | DN75 |
| A | INCHES | 28.14 | 27.96 | 27.90 | 27.12 | 26.90 | 26.54 | 29.50 | 29.50 |
| | mm | 715 | 710 | 709 | 689 | 683 | 674 | 749 | 749 |
| B | INCHES | 14.07 | 13.98 | 13.95 | 13.56 | 13.45 | 13.27 | 14.75 | 14.75 |
| | mm | 357 | 355 | 354 | 344 | 342 | 337 | 375 | 375 |
| C | INCHES | 6.46 | 6.11 | 5.82 | 5.44 | 5.23 | 4.79 | 4.25 | 4.25 |
| | mm | 164 | 155 | 148 | 138 | 133 | 122 | 108 | 108 |
| D | INCHES | 3.75 | 4.50 | 6.25 | 6.25 | 6.25 | 7.13 | 8.00 | 8.00 |
| | mm | 95 | 114 | 159 | 159 | 159 | 181 | 203 | 203 |
| E | INCHES | 1.85 | 2.20 | 2.65 | 2.79 | 2.97 | 3.47 | 5.44 | 5.44 |
| | mm | 47 | 56 | 67 | 71 | 75 | 88 | 138 | 138 |
| ØF | INCHES | 0.50 | 0.75 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 2.50 |
| | mm | 13 | 19 | 25 | 32 | 38 | 51 | 64 | 64 |
| G | INCHES | 1.41 | 1.51 | 1.80 | 2.16 | 2.38 | 3.00 | 5.38 | 5.38 |
| | mm | 36 | 38 | 46 | 55 | 60 | 76 | 137 | 137 |
| G¹ | INCHES | 0.81 | 1.51 | 1.80 | 2.16 | 2.38 | 3.00 | 4.66 | 4.66 |
| | mm | 21 | 38 | 46 | 55 | 60 | 76 | 118 | 118 |
| C_v | | 17 | 31 | 60 | 110 | 185 | 360 | 390 | 390 |