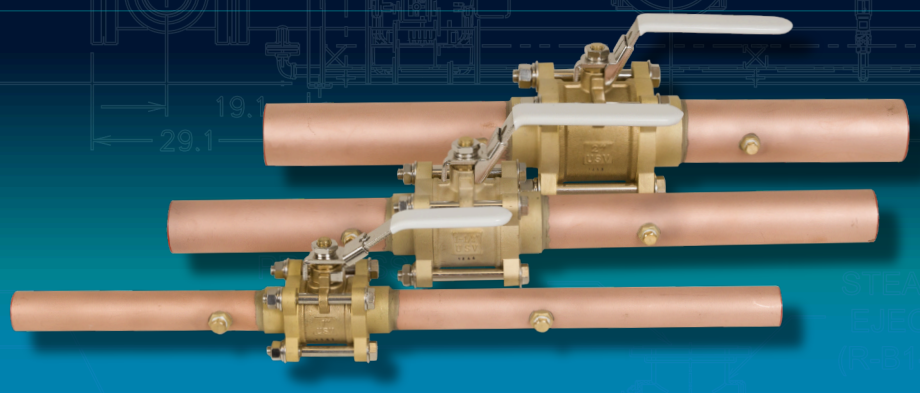
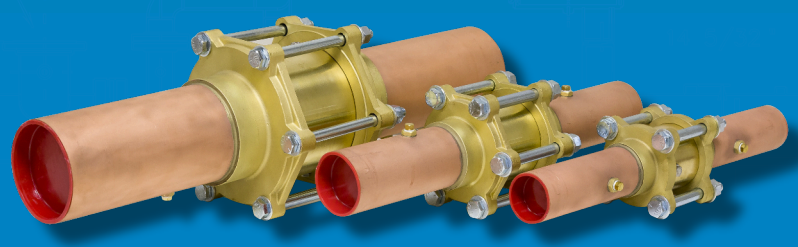
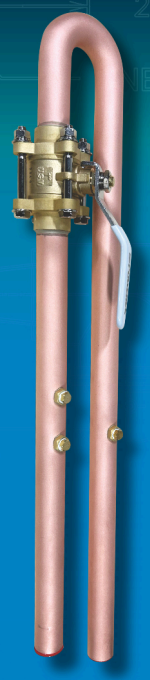
US VALVE

ISO 9001 : 2015







Medical Gas Valves

NFPA-99 Compliant Ball and Check Valves

Maximizing the Flow

The Leader In Medical Gas Valves

US Valve is the recognized leader in medical gas valves for flow control of medical gases including oxygen, nitrogen, and air in hospitals and other healthcare facilities. For over 25 years US Valve has produced quality forged brass medical ball and check valves in our own manufacturing facilities for the top medical equipment suppliers worldwide. In the critical application of medical gas, there is no other brand you can trust more than US Valve - Responsive, Reliable, Supportive.

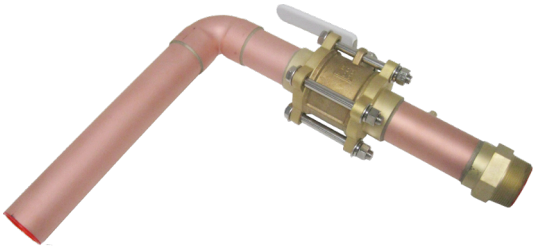
NFPA-99 Compliant

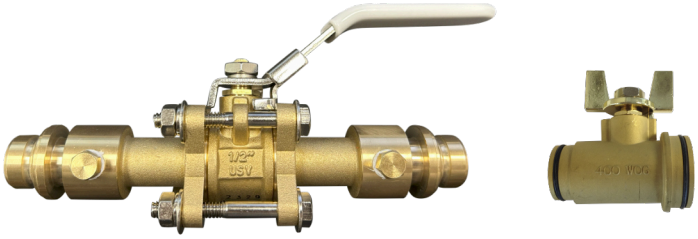
All US Valve ball and check valves are in full compliance with NFPA-99, latest revision. Core to compliance is the high level of cleanliness needed for medical applications and the ability to purge the valve connections with gas during installation to prevent contamination during installation. All valves are shipped cleaned to CGA G-4.1, Cleaning of Equipment for Oxygen Service, and packed in individual sealed enclosures to ensure cleanliness prior to installation. During installation the purging ports equipped in all USV valves ensure a trouble-free clean installation.

Flexible Configuration

Included in this catalog is a sampling of US Valve's product offering for medical gas valves, including zone valves, distribution ball valves, and check valves. US Valve specializes in white and private label of both standard and customized valves, contact us today for these and other options:

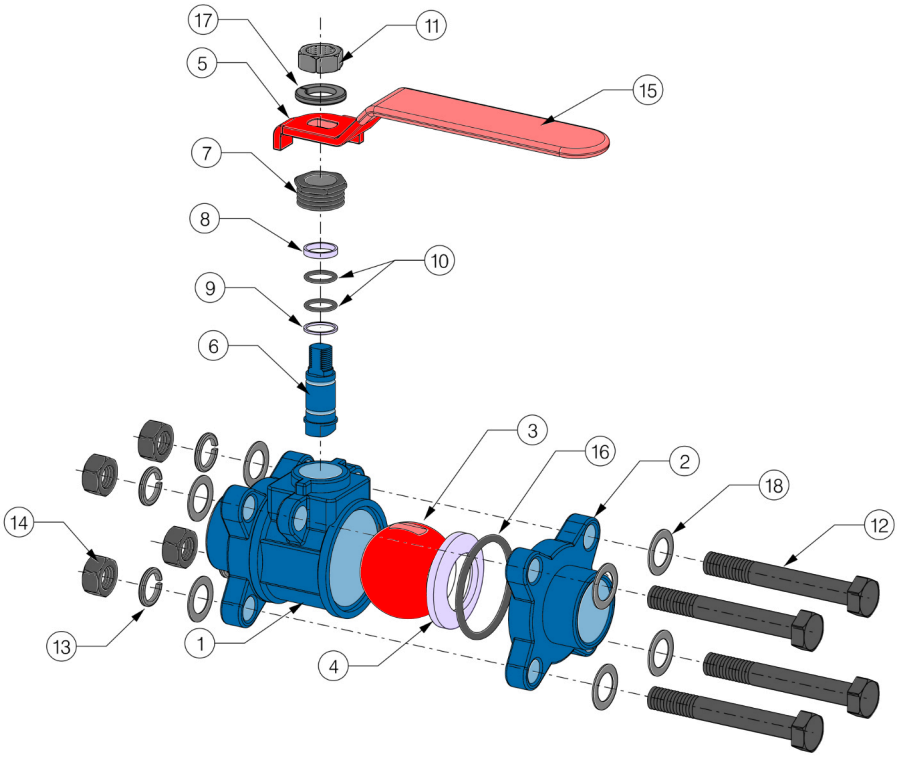
- Logos and marking personalization
- Tailored gauge port count and/or location
- Specialized end connections
- Customized lengths
- 2-Piece Valves
- And more..





THREE-PIECE BALL VALVES MATERIALS OF CONSTRUCTION

All US Valve 3-piece ball valves share the same core forged brass valve, ensuring consistency, serviceability, and parts interchangeability across all embodiments needed for modern medical facilities.

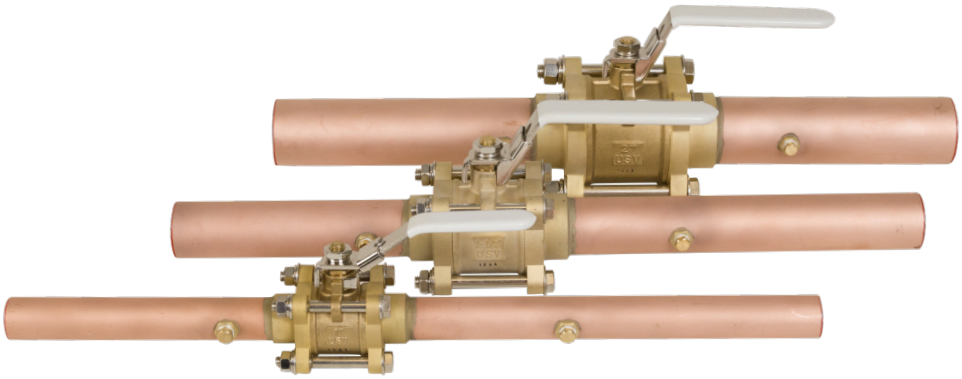


ITEM	QTY	DESCRIPTION	MATERIAL
1	1	BODY	FORGED BRASS, C377 OR CW617N
2	2	END FLANGE	FORGED BRASS, C377 OR CW617N
3	1	BALL	FORGED BRASS, C377 OR CW617N, CHROME PLATED
4	2	BALL SEAT	RTFE
5	1	HANDLE	NICKEL PLATED STEEL, A29
6	1	STEM	BRASS C360
7	1	STEM GLAND	BRASS C360
8	1	STEM SEAL	RTFE
9	1	THRUST WASHER	RTFE
10	2	STEM O-RING	VITON
11	1	HANDLE NUT	NICKEL PLATED STEEL
12	4/6	HEX BOLT	NICKEL PLATED STEEL
13	4/6	LOCK WASHER	NICKEL PLATED STEEL
14	4/6	HEX NUT	NICKEL PLATED STEEL
15	1	GRIP	VINYL
16	2	FLANGE O-RING	HI TEMP SILICONE
17	1	LOCK WASHER	NICKEL PLATED STEEL
18	8/12	FLAT WASHER	NICKEL PLATED STEEL
NS	1	BAG	POLYETHYLENE
NS	1	DESICCANT BAG	SILICA GEL

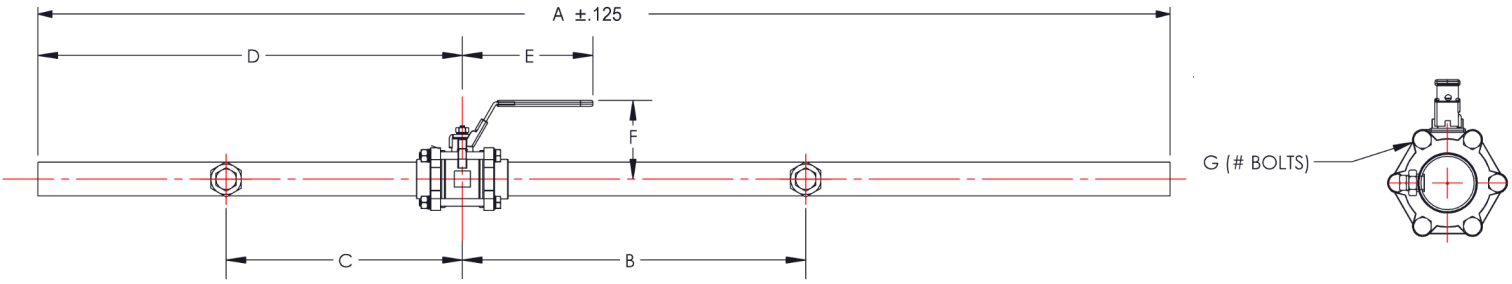
DUAL GAUGE-PORT BALL VALVES

Commonly used for medical gas and vacuum source equipment & distribution lines. The tube extensions and gauge ports ensure the valve can be brazed without damaging or contaminating the valve.

- Dual Gauge Port Design
- 600PSI WOG CWP
- In Line Serviceable 3-Piece Body
- Full Port High Flow Ball
- Blow-out Proof Valve Stem
- Type K Copper Tube Extensions
- Lockout Handle as Standard
- 100% Tested to MSS SP-110
- Cleaned to CGA -G-4.1
- Individually Bagged
- Stainless Ball/Stem Option Available



SIZE	PART NUMBER	A	B	C	D	E	F	G
1/2"	0.5-41-4105001-00	21.0	6.37	2.38	7.87	4.33	1.69	4
3/4"	0.8-41-4107501-00	21.0	6.06	2.69	8.25	4.33	2.00	4
1"	1-41-4110001-00	21.0	5.87	2.88	8.58	5.12	2.16	4
1-1/4"	1.3-41-4112501-00	21.0	5.50	3.25	8.75	5.12	2.68	4
1-1/2"	1.5-41-4115001-00	21.0	5.37	3.38	8.87	6.30	2.87	4
2"	2-41-4120001-00	21.0	5.00	3.75	10.9	6.30	3.35	4
2-1/2"	2.5-41-4125001-00	32.0	4.25	4.25	16.0	9.06	4.29	6
3"	3-41-4130001-00	32.0	4.50	4.50	16.0	9.06	4.60	6
4"	4-41-4140001-00	32.0	7.90	7.90	16.0	11.7	6.85	6

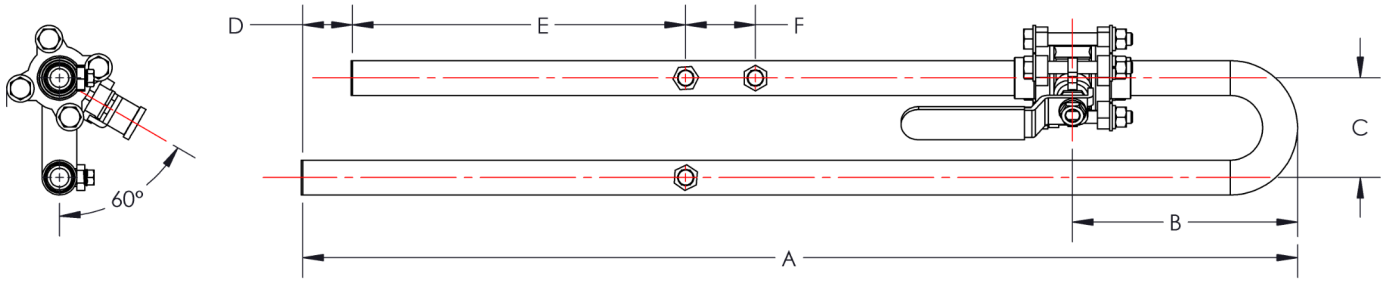


VERTICAL THREE-PIECE BALL VALVES

The standard for a new generation of low profile zone boxes, the mandrel bent U-shape allows piping enables installation of zone boxes within one stud cavity.

- Space Saving Design
- Mandrel Bent One-piece U-shape
  - No Kinks or Crimping
- Triple Gauge Port Design
- 300PSI WOG CWP
- In Line Serviceable 3-Piece Body
- Full Port High Flow Ball
- Blow-out Proof Valve Stem
- Type K Copper Tube Extensions
- 100% Tested to MSS SP-110
- Cleaned to CGA -G-4.1
- Individually Bagged

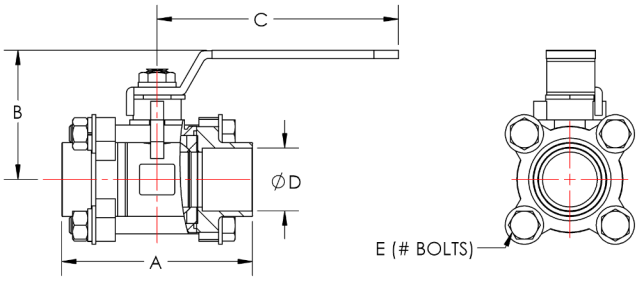
SIZE	PART NUMBER	A	B	C	D	E	F
1/2"	0.5-41-41050V00-00	25.00	5.44	1.60	1.25	8.38	1.75
3/4"	0.8-41-41075V00-00	25.00	5.65	2.50	1.25	8.38	1.75
1"	1-41-41100V00-00	25.00	6.03	2.50	1.25	8.38	1.75



THREE PIECE MEDICAL BALL VALVES

Used for distribution piping, equipment isolation, and custom fabrications.

- Socket Weld Connections
- 600PSI WOG CWP
- In Line Serviceable 3-Piece Body
- Full Port High Flow Ball
- Blow-out Proof Valve Stem
- 100% Tested to MSS SP-110
- Cleaned to CGA -G-4.1
- Individually Bagged



SIZE	PART NUMBER	A	B	C	D	E
1/2"	0.5-41-41050MBV-00	2.62	1.69	3.35	0.630	4
3/4"	0.8-41-41075MBV-00	2.93	2.00	4.33	0.878	4
1"	1-41-41100MBV-00	3.44	2.16	4.33	1.13	4
1-1/4"	1.3-41-41125MBV-00	3.96	2.68	5.12	1.38	4
1-1/2"	1.5-41-41150MBV-00	4.43	2.87	5.12	1.62	4
2"	2-41-41200MBV-00	5.55	3.35	6.30	2.13	6
2-1/2"	2.5-41-41250MBV-00	6.73	4.29	9.05	2.63	6
3"	3-41-41300MBV-00	7.56	4.60	9.05	3.13	6
4"	4-41-41400MBV-00	9.80	6.85	11.7	4.13	6

REPAIR KITS FOR 3-PIECE BALL VALVES

Repair kits for servicing all 3-piece US Valve ball valves, including valves with and without tube ends.

Includes:

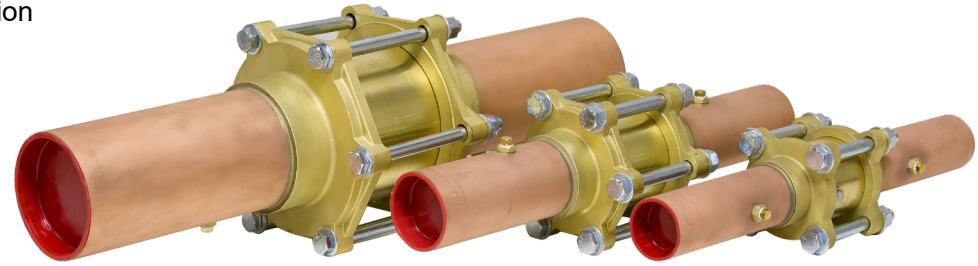
- Two PTFE Seats
- Two Silicone Flange O-Rings
- PTFE Stem Seal
- Two Viton Stem O-Ring
- PTFE Stem Thrust Washer

SIZE	KIT NUMBER
1/2"	43050-02
3/4"	43075-02
1"	43100-02
1-1/4"	43125-02
1-1/2"	43150-02
2"	43200-02
2-1/2"	43250-02
3"	43300-02
4"	43400-02

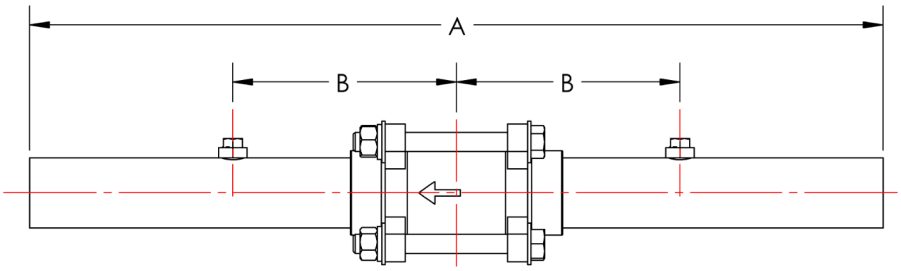
MEDICAL CHECK VALVES

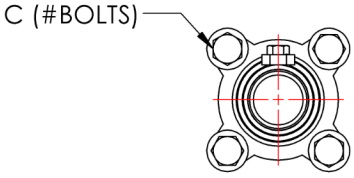
Commonly used for protection on medical gas generating equipment and to prevent back-feed or cross contamination.

- Patented Design
  - US6,098,656
  - USD5,364,443
- High Performance with Minimal Restriction
- 300PSI WOG CWP
- In Line Serviceable 3-Piece Body
- Type K Copper Tube Extensions
- 100% Tested to MSS SP-110
- Cleaned to CGA -G-4.1
- Individually Bagged



SIZE	PART NUMBER	A	B	C
1/2"	0.5-51-5105001-00	15.21	3.61	4
3/4"	0.8-51-5107501-00	15.21	3.61	4
1"	1-51-5110001-00	15.72	3.86	4
1-1/4"	1.3-51-5112501-00	16.06	4.03	4
1-1/2"	1.5-51-5115001-00	16.45	4.23	4
2"	2-51-5120001-00	17.18	4.59	4
2-1/2"	2.5-51-5125001-00	18.10	5.05	6
3"	3-51-5130001-00	18.76	5.38	6
4"	4-41-4140001-00	20.56	6.28	6





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