



BALL VALVES

COMMERCIAL PRODUCTS CATALOG

Apollo Ball Valve Numbering System

APOLLO NUMBERING SYSTEM FORMULA: 70 - 105 - 01

XX	-	X	X	X	- XX
SERIES		CONFIGURATION	VARIATIONS	SIZE*	OPTIONS
32		1 = FNPT	4 = 316 Stainless Steel	1 = 1/4"	-01 = Standard
50		2 = Solder	Ball & Stem	2 = 3/8"	-02 = Grounded
51		3 = Union End NPT	9 = Pinned Retainer	3 = 1/2"	-04 = 2-1/4" Stem extension
6P		4 = Union End Solder		4 = 3/4"	-05 = Plain Ball
 6PLF		5 = Spring Return		5 = 1"	-07 = Tee Handle
		6 = 3-Way NPT		6 = 1-1/4"	-08 = 90° Reversed Stem
6Q		7 = Full-Port Refrigeration Valves		7 = 1-1/2"	-10 = Stainless Steel Lever & Nut
64		8 = Male X FNPT		8 = 2"	-11 = Thermo-Seal™ Insulating Handle
70		9 = 3-Way Solder		9 = 2-1/2"	-12 = Stamped "157 SWP" & Bagged
70LF				A = 4"	-13 = Stamped "157 SWP"
71					-14 = Side Vented Ball (uni-directional)
75					-15 = Round Handle, Steel
77					-16 = Chain Lever - Vertical
77B					-17 = Rough Chrome Plated
77C					-18 = Plain Yellow Grip
77CLF					-19 = Lock Plate
77D					-20 = Slot Vented Ball (bi-directional)
77F					-21 = UHMWPE Trim (non-PTFE)
 77FLF					-24 = Graphite Packing
77V					-27 = Stainless Steel Latch-Lock Lever & Nut
77VLF					-30 = Cam-Lock and Grounded
					-31 = 77B Series w/Boss NOT Drilled/Tapped
77W					-32 = Stainless Steel Tee Handle & Nut
77WLF					-35 = VTFE Trim (PTFE)
78					-36 = Stainless Steel Hi-Rise Round Handle, Stainless Steel Nut
79					-39 = SS Hi-rise Locking Round Handle, SS Nut
77B					-40 = Cyl-Loc and Grounded
7K					-41 = Automatic Drain
80					-45 = Less Lever and Nut
82					-46 = Latch-Lock Lever - Lock in Closed Position Only
82LF					-47 = SS Oval Latch-Lock Handle & Nut
90					-48 = SS Oval Handle (No Latch) & Nut
94A					-49 = Assembled Dry
94ALF-A					-50 = 2-1/4" Carbon Steel Locking Stem Extension
94MBV					-56 = Multifill Seats & Packing
 94XLF					-57 = Oxygen Cleaned
95ALF					-58 = Chain Lever - Horizontal
9A					-59 = SS External Trim - 3-pc. Valves & Flange
					-60 = Grounded Ball & Stem
					-62 = Body Center Section
					-63 = NPT x Solder
					-64 = 250 SWP
					-65 = Multifill Seats & Graphite Packing
					-72 = RTFE Packing
					-83 = SS Tee Handle & Nut (77B)
					-84 = Reverse SS Tee Handle & Nut (77B)
					-85 = Short Tee Handle (77B)
					-91 = Locking SS Tee (3/4" and 1")
					-92 = Balancing Stop
					-94 = -04 & Balancing stop
					-BC = Ball Check
					-HC = Hose Thread and Cap Option
					-SV = Safety vent - 77-100/7K-100 series (Auto drain)
					-SW = Limit switch mounted
					-TH = Tested, Hydrostatic
					-TC = Tested, Hydrostatic, w/certification
					-TW = Tested, Hydrostatic, w/witness and certification

*BODY SIZE WHEN ENDS ARE MIXED.

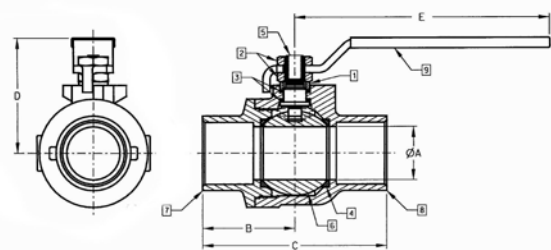
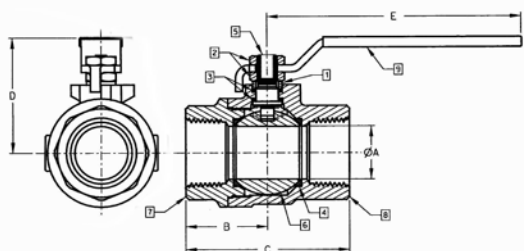
** LEAD FREE: The wetted surfaces of this product shall contain no more than 0.25% lead by weighted average. Complies with Federal Public Law 111-380. ANSI 3rd party approved and listed.

NOTE: NOT ALL VARIATIONS AND FEATURES ARE AVAILABLE ON SAME VALVE. CONSULT CONBRACO REPRESENTATIVE.

BALL VALVES

Full-Port Bronze Ball Valves

77C-100/200 SERIES



CONTRACTOR SERIES FULL PORT BRONZE BALL VALVE WITH SOLID BALL

Apollo's® solid ball design delivers true full-port performance with 100 percent American construction.

FEATURES

- ASTM grade bronze castings
- Solid brass ball, plated
- 600 psig CWP, non-shock
- 150 SWP steam rating
- Premium multi-fill MTFE seats and stem packing
- Adjustable stem packing
- Blow-out proof stem design
- Vacuum service to 29 in. Hg
- Full-port design through 2-1/2"
- Reversible handle orientation
- ANSI B16.18 solder end version available as 77C-200 Series

OPTIONS

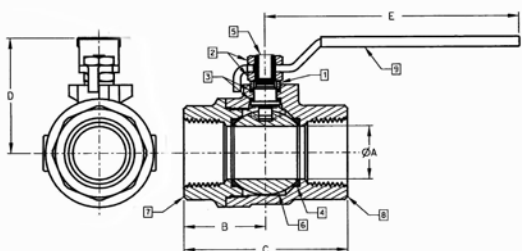
- 2-1/4" stem extension (-04)
- CS tee handle (-07)
- Therma-Seal™ insulating tee handle (-11)
- SS Latch-lock handle (-27),
- Stem extension and balancing stop (-94)
- SS vented ball and stem (77C140 and 77C240 series)
- Other handle options available
- Also available in a Lead free version as the 77CLF Series.

Model Number	Size (in.)	Dimensions (in.)					Cv	Wt. (lbs.)
		A	B	C	D	E		
Threaded Connection								
77C-101-01	1/4	0.37	0.95	1.97	1.76	3.74	4.5	0.6
77C-102-01	3/8	0.37	1.07	2.09	1.76	3.74	7.2	0.6
77C-103-01	1/2	0.50	1.15	2.25	1.79	3.74	15.5	0.6
77C-104-01	3/4	0.75	1.32	2.65	2.00	4.88	35.6	1.1
77C-105-01	1	1.00	1.53	3.07	2.19	4.88	68.1	1.8
77C-106-01	1-1/4	1.25	2.04	4.08	3.13	7.06	125.0	4.2
77C-107-01	1-1/2	1.50	2.21	4.43	3.29	7.06	177.0	4.6
77C-108-01	2	2.00	2.76	5.29	3.83	7.06	389.0	8.1
77C-109-01	2-1/2	2.50	3.12	6.37	4.51	8.06	503.0	16.2
Solder Connection								
77C-202-01	3/8	0.37	1.30	2.21	1.76	3.74	7.2	0.6
77C-203-01	1/2	0.50	1.41	2.58	1.79	3.74	15.5	0.6
77C-204-01	3/4	0.75	1.64	3.03	2.00	4.88	35.6	1.0
77C-205-01	1	1.00	1.92	3.61	2.19	4.88	68.1	1.6
77C-206-01	1-1/4	1.25	2.36	4.44	3.13	7.06	125.0	3.9
77C-207-01	1-1/2	1.50	2.63	4.89	3.29	7.06	177.0	5.8
77C-208-01	2	2.00	3.17	6.06	3.83	7.06	389.0	10.2
77C-209-01	2-1/2	2.50	3.77	7.14	4.51	8.06	503.0	14.8

COMMERCIAL PRODUCTS CATALOG

Full-Port Bronze Ball Valves

77CLF-100/200 SERIES



CONTRACTOR SERIES FULL PORT LEAD FREE BRONZE BALL VALVE WITH SOLID BALL

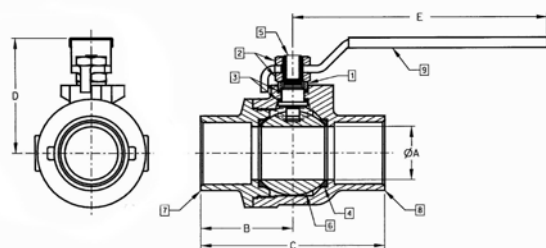
Apollo's® solid ball design delivers true full-port performance with 100 percent American construction.

FEATURES

- ASTM grade EZ-Solder™ lead free bronze
- Solders just like standard bronze
- 600 psig CWP, non-shock
- 150 SWP steam rating
- Premium multi-fill MTFE seats and stem packing
- Adjustable stem packing
- Blow-out proof stem design
- Solid brass ball, plated
- Vacuum service to 29 in. Hg
- Full-port design through 2-1/2"
- Reversible handle orientation
- NSF/ANSI 61-G
- NSF/ANSI 372 Lead Free
- ANSI B16.18 solder end version available as 77CLF-200 Series

OPTIONS

- 2-1/4" stem extension (-04)
- CS tee handle (-07)
- Therma-Seal™ insulating tee handle (-11)
- SS Latch-lock handle (-27),
- Stem extension and balancing stop (-94)
- SS vented ball and stem (77CLF140 and 77CLF240 series)
- Other handle options available

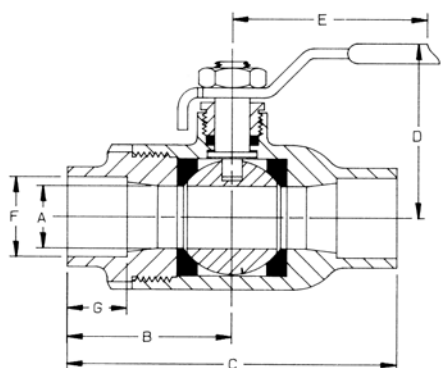
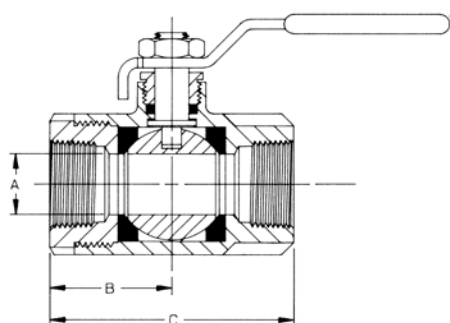


LF Model Number	Size (in.)	Dimensions (in.)					Cv	Wt. (lbs.)
		A	B	C	D	E		
Threaded Connection								
77CLF-101-01	1/4	0.37	0.95	1.97	1.76	3.74	4.5	0.6
77CLF-102-01	3/8	0.37	1.07	2.09	1.76	3.74	7.2	0.6
77CLF-103-01	1/2	0.50	1.15	2.25	1.79	3.74	15.5	0.6
77CLF-104-01	3/4	0.75	1.32	2.65	2.00	4.88	35.6	1.1
77CLF-105-01	1	1.00	1.53	3.07	2.19	4.88	68.1	1.8
77CLF-106-01	1-1/4	1.25	2.04	4.08	3.13	7.06	125.0	4.2
77CLF-107-01	1-1/2	1.50	2.21	4.43	3.29	7.06	177.0	4.6
77CLF-108-01	2	2.00	2.76	5.29	3.83	7.06	389.0	8.1
77CLF-109-01	2-1/2	2.50	3.12	6.37	4.51	8.06	503.0	16.2
Solder Connection								
77CLF-202-01	3/8	0.37	1.30	2.21	1.76	3.74	7.2	0.6
77CLF-203-01	1/2	0.50	1.41	2.58	1.79	3.74	15.5	0.6
77CLF-204-01	3/4	0.75	1.64	3.03	2.00	4.88	35.6	1.0
77CLF-205-01	1	1.00	1.92	3.61	2.19	4.88	68.1	1.6
77CLF-206-01	1-1/4	1.25	2.36	4.44	3.13	7.06	125.0	3.9
77CLF-207-01	1-1/2	1.50	2.63	4.89	3.29	7.06	177.0	5.8
77CLF-208-01	2	2.00	3.17	6.06	3.83	7.06	389.0	10.2
77CLF-209-01	2-1/2	2.50	3.77	7.14	4.51	8.06	503.0	14.8

BALL VALVES

General Purpose Ball Valves

70-100/200 SERIES



BRONZE BALL VALVE

The Apollo® 70 series is the most widely used and trusted bronze ball valve in the industry. It features blowout-proof stem, RPTFE seats and stuffing box ring and plated brass ball.

FEATURES

- Rated 600 psig CWP, non-shock
- 150 psig for saturated steam
- 100% tested
- Vacuum service to 29 in. Hg
- Adjustable packing gland
- Multiple options available (see pages 21-22)
- Lead Free option (70LF)

Model Number	Size (in.)	Dimensions (in.)*		
		A	B	C
NPT				
70-101-01	1/4	0.37	1.03	2.06
70-102-01	3/8	0.37	1.03	2.06
70-103-01	1/2	0.50	1.12	2.25
70-104-01	3/4	0.68	1.50	3.00
70-105-01	1	0.87	1.68	3.37
70-106-01	1-1/4	1.00	2.00	4.00
70-107-01	1-1/2	1.25	2.18	4.37
70-108-01	2	1.50	2.34	4.68
70-109-01A	2-1/2	2.00	3.12	6.25
70-100-01	3	2.50	3.37	6.75
70-10A-01	4	3.12	3.68	7.37

* Body only. Total will vary with handle and end connection options. Contact Conbraco Customer Service for additional dimensions.

NOTE: 1/4", 3/8", and 1/2" are full port.

Model Number	Size (in.)	Dimensions (in.)*						
		A	B	C	D	E	F	G
Solder								
70-202-01	3/8	0.37	1.28	2.56	1.75	3.87	0.505	0.37
70-203-01	1/2	0.50	1.43	2.87	1.75	3.87	0.63	0.50
70-204-01	3/4	0.68	1.93	3.87	2.12	4.87	0.88	0.75
70-205-01	1	0.87	2.25	4.50	2.25	4.87	1.13	0.90
70-206-01	1-1/4	1.00	2.31	4.62	2.62	5.50	1.38	0.96
70-207-01	1-1/2	1.25	2.62	5.25	3.06	8.00	1.63	1.09
70-208-01	2	1.50	3.18	6.37	3.25	8.00	2.13	1.34
70-209-01A	2-1/2	2.00	3.74	7.51	3.72	8.00	2.63	1.48
70-200-01	3	2.50	4.12	8.25	4.12	8.00	3.13	1.67
70-20A-01	4	3.12	4.61	9.22	5.22	9.94	4.13	2.16

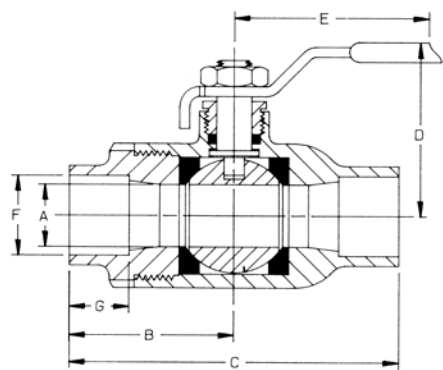
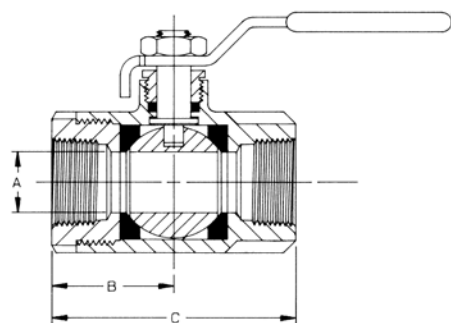
* Based on 70-200-01 – Dimensions may vary with options.
Soldering temperature: 500°F or less

NOTE: 1/4", 3/8", and 1/2" are full port.

COMMERCIAL PRODUCTS CATALOG

General Purpose Ball Valves

70LF-100/200 SERIES



LEAD FREE BRONZE BALL VALVE

The Apollo® 70LF series is the most widely used and trusted lead free bronze ball valve in the industry. It features blowout-proof stem, RPTFE seats and stuffing box ring and plated brass ball.

FEATURES

- EZ-Solder™ Lead Free Bronze
- Solders just like standard bronze
- Rated 600 psig CWP, non-shock
- 150 psig for saturated steam
- 100% factory tested
- Vacuum service to 29 in. Hg
- NSF/ANSI 61-G
- NSF/ANSI 372 Lead Free
- Adjustable packing gland
- Multiple options available (see pages 21-22)

LF Model Number	Size (in.)	Dimensions (in.)*		
		A	B	C
NPT				
70LF-101-01	1/4	0.37	1.03	2.06
70LF-102-01	3/8	0.37	1.03	2.06
70LF-103-01	1/2	0.50	1.12	2.25
70LF-104-01	3/4	0.68	1.50	3.00
70LF-105-01	1	0.87	1.68	3.37
70LF-106-01	1-1/4	1.00	2.00	4.00
70LF-107-01	1-1/2	1.25	2.18	4.37
70LF-108-01	2	1.50	2.34	4.68
70LF-109-01A	2-1/2	2.00	3.12	6.25
70LF-100-01	3	2.50	3.37	6.75
70LF-10A-01	4	3.12	3.68	7.37

* Body only. Total will vary with handle and end connection options. Contact Conbraco Customer Service for additional dimensions.

NOTE: 1/4", 3/8", and 1/2" are full port.

LF Model Number	Size (in.)	Dimensions (in.)*						
		A	B	C	D	E	F	G
Solder								
70LF-202-01	3/8	0.37	1.28	2.56	1.75	3.87	0.505	0.37
70LF-203-01	1/2	0.50	1.43	2.87	1.75	3.87	0.63	0.50
70LF-204-01	3/4	0.68	1.93	3.87	2.12	4.87	0.88	0.75
70LF-205-01	1	0.87	2.25	4.50	2.25	4.87	1.13	0.90
70LF-206-01	1-1/4	1.00	2.31	4.62	2.62	5.50	1.38	0.96
70LF-207-01	1-1/2	1.25	2.62	5.25	3.06	8.00	1.63	1.09
70LF-208-01	2	1.50	3.18	6.37	3.25	8.00	2.13	1.34
70LF-209-01A	2-1/2	2.00	3.74	7.51	3.72	8.00	2.63	1.48
70LF-200-01	3	2.50	4.12	8.25	4.12	8.00	3.13	1.67
70LF-20A-01	4	3.12	4.61	9.22	5.22	9.94	4.13	2.16

* Based on 70-200-01 – Dimensions may vary with options.
Soldering temperature: 500°F or less

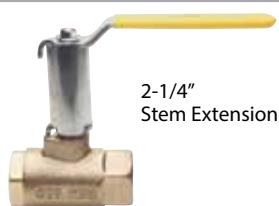
NOTE: 1/4", 3/8", and 1/2" are full port.

BALL VALVES

Common Ball Valve Options

Suffix No.

-04



Apollo offers these options on the 70 Series as well as many other valve series. Note: Not all options are available on all sizes and models. Review the latest submittal sheet or contact the factory to determine availability.

STANDARD BALL VALVE WITH STEM EXTENSION

A plated steel stem extension to accommodate 2" thick pipe insulation or to relocate handle position.

-07



THREADED VALVE WITH TEE HANDLE

Plated steel tee handle is ideal when space is limited and where safety is a consideration. Handle still provides visual indication of OPEN or CLOSED position.

-08



90° REVERSED STEM

Used in applications when handle is required to be in a parallel position when closed.

-10



STAINLESS STEEL LEVER AND NUT

Additional corrosion resistance for damp or outdoor installations.

-11



THERMA-SEAL® HANDLE - **NEW** UL 2043 CLASSIFIED

The Therma-Seal thermal insulating tee-handle is designed to be use in applications where vapor barrier piping insulation is required. Manufactured from high strength glass reinforce nylon, these handles are ideally suited for the toughest commercial and industrial applications. Handles are available as a factory installed option (-11 option suffix) or as a kit for retro fits.

-16 or -58



CHAIN LEVER BALL VALVES

Reliable quarter turn operation in overhead applications. A favorite for use in industrial environments.

- Specify suffix -16 for assembly with valve in vertical position
- Specify -58 for valve in horizontal position

-17



ROUGH CHROME PLATING

Use where a clean, bright finish is required or for matching up with other chrome-plated equipment.

COMMERCIAL PRODUCTS CATALOG

Common Ball Valve Options

Apollo offers these options on the 70 Series as well as many other valve series. Note: Not all options are available on all sizes and models. Review the latest submittal sheet or contact the factory to determine availability.

Suffix No.

-27



LATCH LOCK

Sliding lock mechanism secures handle in open or closed position. Valve can also be padlocked open or closed.

-30



CAM-LOCK® HANDLE

Patented Cam-Lock® handle gives valve extra protection against accidental operation. Reliable quarter-turn shut-off from a versatile, ruggedly built valve.

- RPTFE seats and stuffing box ring
- Rated 600 psig CWP, non-shock
- Available for the following Series: 70, 71, 73A, 76, 82, 83, 86, 87, 89, 9A, 92, and 96

-32 and -83



STAINLESS STEEL TEE HANDLE AND NUT

Increased corrosion resistance versus the plated steel -07 option.

- -32 for standard bronze
- -83 for 77B/77BLF and 77C/77CLF Series

-41



BALL VALVE WITH AUTOMATIC DRAIN

When this valve is closed for maintenance of pneumatic tool, downstream pressure from valve to tool is automatically drained to atmosphere to prevent accidental operation of the tool, causing possible injury.

- Conforms to certain OSHA requirements in pneumatic installations
- Easy, safe maintenance of pneumatic tools
- Cannot be used where drained media could cause damage
- Temperature range: 50°F to 200°F
- Rated 125 psig CWP, non-shock air or water
- Includes directional arrow for correct installation
- Available with latch lock option, specify -27 -41 suffix
- Available for the following Series: 70, 71, 75, and 78

-48



STAINLESS STEEL OVAL HANDLE

- Available for the following Series: 70, 71, 73A, 76, 76F, 77, 82, 83, 85, 86, 89, 9A, 92, and 96

-94



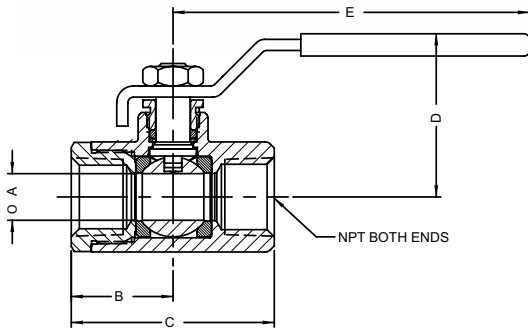
BALL VALVE WITH BALANCING STOP AND STEM EXTENSION

Ideal for HVAC systems. Stop plate and a 2-1/4" stem extension combination to accommodate insulation and handle repositioning. *Contact customer service for exact handle dimensions*

BALL VALVES

Steam Valves

70-140-64 SERIES



250 LB. BRONZE STEAM BALL VALVE

Designed for reliable operation on high pressure steam systems and with fluids of widely varying temperatures. Stainless steel slot vented ball and stem standard.

FEATURES

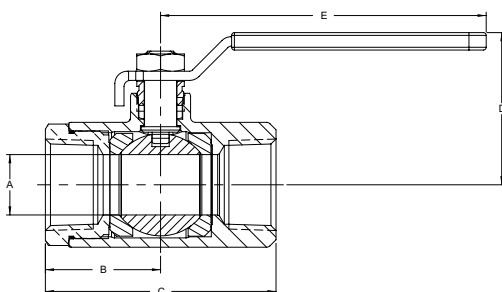
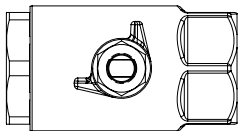
- Heavy cast bronze body
- ASTM B584 bronze body
- Slot vented stainless steel ball
- Special high-temperature MTFE seats and stem packing
- 250 SWP rating
- Red handle graphics for identification
- Made in USA

Model Number	Size (in.)	Dimensions (in.)				
		A	B	C	D	E
70-141-64	1/4	0.37	1.03	2.06	1.75	3.87
70-142-64	3/8	0.37	1.03	2.06	1.75	3.87
70-143-64	1/2	0.50	1.12	2.25	1.75	3.87
70-144-64	3/4	0.68	1.50	3.00	2.12	4.87
70-145-64	1	0.87	1.68	3.37	2.25	4.87
70-146-64	1-1/4	1.00	2.00	4.00	2.62	5.50
70-147-64	1-1/2	1.25	2.18	4.37	3.06	8.00
70-148-64	2	1.50	2.34	4.68	3.25	8.00
70-140-64	3	2.50	3.37	6.75	4.12	8.00

(Also available in 71 & 77 Series)

Bronze Ball Valves for Steam Boiler Service

70B-140 SERIES



B31.1 POWER PIPING BRONZE BALL VALVE

The Apollo® 70B series offers the same rugged features as the standard 70 series valves but with materials of construction that meet the latest requirements of the ASME B31.1 Power Piping Code for steam service. This valve provides proven performance and Code compliance for B31.1 Power Piping applications.

FEATURES

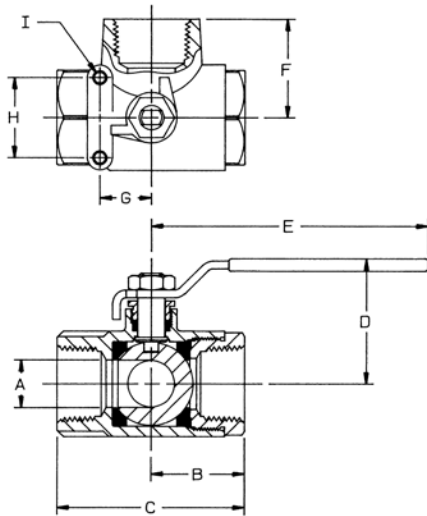
- ASTM B62 Bronze body and retainer
- Stainless Steel ball & stem
- Body is marked "250 SWP" and "B62"
- Pressure balanced slot-vented ball
- Blow-out proof stem design
- Premium MPTFE seats and stem packing
- 100% factory tested
- Made in USA

Model Number	Size (in.)	Dimensions (in.)					Wt. (lb.)
		A	B	C	D	E	
70B-141-64	1/4"	0.37	1.03	2.06	1.75	3.87	0.60
70B-142-64	3/8"	0.37	1.03	2.06	1.75	3.87	0.56
70B-143-64	1/2"	0.50	1.12	2.25	1.75	3.87	0.63
70B-144-64	3/4"	0.68	1.50	3.00	2.12	4.87	1.39
70B-145-64	1"	0.87	1.68	3.37	2.25	4.87	1.72
70B-146-64	1-1/4"	1.00	2.00	4.00	2.62	5.50	3.26
70B-147-64	1-1/2"	1.25	2.18	4.37	3.06	8.00	4.61
70B-148-64	2"	1.50	2.34	4.68	3.25	8.00	6.06

BALL VALVES

Diverter Valves

70-600 SERIES



THREADED 3-WAY BALL VALVE

Ideal for applications requiring flow diversion, this valve combines the features of two valves. Its large ports make tank selection and fluid transfers quicker and easier. Easy quarter-turn operation.

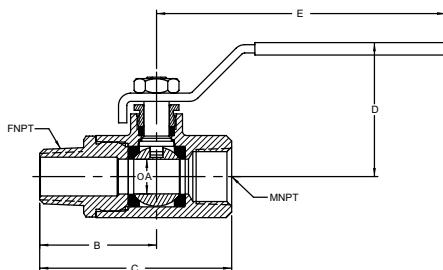
FEATURES

- Simple quarter-turn operation
- ASTM B584 Bronze
- 400 psig CWP, non-shock
- Blowout-proof stem
- Adjustable stem packing
- Vacuum service to 29 in. Hg

Model Number	Size (in.)	Dimensions (in.)								
		A	B	C	D	E	F	G	H	I
70-601-01	1/4	0.37	1.12	2.32	1.80	3.88	1.18	0.875	1.37	10-24
70-602-01	3/8	0.37	1.12	2.32	1.80	3.88	1.18	0.875	1.37	10-24
70-603-01	1/2	0.50	1.09	2.25	1.75	3.87	1.18	0.87	1.37	10-24
70-604-01	3/4	0.68	1.50	3.00	2.12	4.87	1.62	0.87	1.37	10-24
70-605-01	1	0.81	1.59	3.18	2.25	4.87	1.71	0.87	1.37	10-24
70-606-01	1-1/4	1.00	1.97	3.95	2.69	5.50	2.01	0.93	1.50	1/4-20
70-607-01	1-1/2	1.25	2.21	4.40	2.87	5.50	2.38	0.94	1.50	1/4-20
70-608-01	2	1.50	2.34	4.69	3.00	5.50	2.50	0.94	1.50	1/4-20

General Purpose Ball Valves

70-800 SERIES



MALE X FEMALE NPT BALL VALVE

Eliminates need for extra nipple when connecting to female connection to save time and labor. Ruggedly built for lasting performance with chromium-plated ball and blowout-proof stem.

FEATURES

- 600 psig CWP, non-shock
- 150 SWP steam rating
- RPTFE seats and stuffing box ring
- Adjustable stem packing
- Vacuum service to 29" Hg.

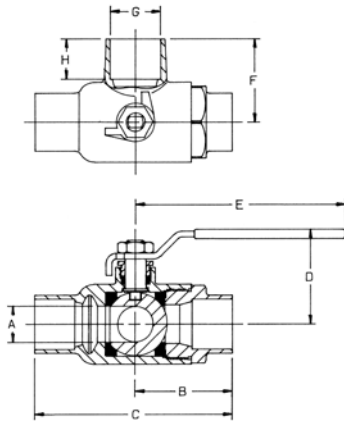
Model Number	Size (in.)	Dimensions (in.)				
		A	B	C	D	E
70-801-01	1/4	0.37	1.40	2.43	1.75	3.87
70-802-01	3/8	0.37	1.46	2.50	1.75	3.87
70-803-01	1/2	0.50	1.68	2.81	1.81	3.87
70-804-01	3/4	0.68	2.00	3.50	2.12	4.87
70-805-01	1	0.87	2.31	4.00	2.25	4.87
70-806-01	1-1/4	1.00	2.31	4.31	2.62	5.50
70-807-01	1-1/2	1.25	3.00	5.18	3.06	8.00

NOTE: 1/4", 3/8", and 1/2" are full port.

COMMERCIAL PRODUCTS CATALOG

Diverter Valves

70-900 SERIES



3-WAY DIVERTER VALVE WITH SOLDER ENDS

Tank selection and fluid transfers are easier because of large port diameters. The valve is 100 percent air tested under water. Designed to be soft soldered without disassembly.

FEATURES

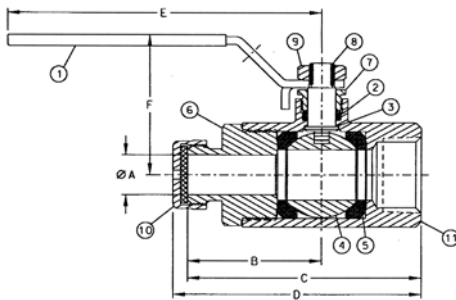
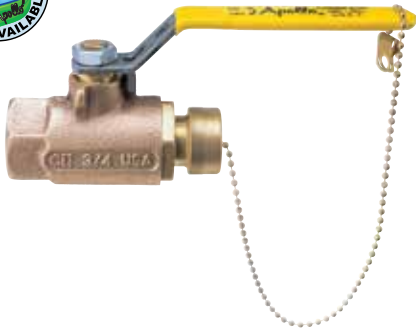
- Simple quarter-turn operation
- ASTM B584 Bronze
- 400 psig CWP, non-shock
- Blowout-proof stem
- Adjustable packing

Model Number	Size (in.)	Dimensions (in.)							
		A	B	C	D	E	F	G	H
70-903-01	1/2	0.50	1.44	2.87	1.75	3.87	1.34	0.628	0.50
70-904-01	3/4	0.68	1.94	3.87	2.12	4.87	1.69	0.878	0.90
70-905-01	1	0.81	2.19	4.42	2.25	4.87	1.87	1.129	0.90

BALL VALVES

Specialty Valves

70-HC SERIES



CAP & CHAIN VALVE WITH 3/4 INCH HOSE CONNECTION, HEAVY BRASS CAP AND REVERSE HANDLE

Ideally suited for HVAC systems, these valves allow direct connections to hoses. Valve features a securely attached cover (includes chain) which prevents damage to hose threads. -200 model designed for soft soldering into lines without disassembly.

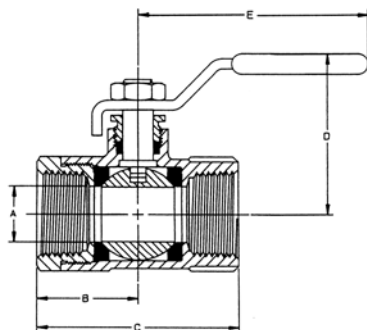
FEATURES

- Reverse lever is standard for easier installation
- Stainless steel lever & nut standard
- NPT and solder connections
- EZ-Solder™ Lead Free Bronze
- ASTM B584 Bronze
- Blowout-proof stem design
- RPTFE seats and stuffing box ring
- Adjustable packing gland
- Vacuum Service to 29 in. Hg
- Maximum pressure: 600 psi CWP
- Temperature rating: 200°F
- Full pressure rated brass hose cap
- Therma-Seal® insulating lever option (-11)
- Stainless Steel ball and stem option (70-24X-HC/70LF-24X-HC)

Model Number	LF Model Number	Size (in.)	Dimensions (in.)					
			A	B	C	D	E	F
70-103-HC	70LF-103-HC	1/2 NPT x 3/4 Hose	0.50	1.68	2.81	2.97	3.87	1.75
70-104-HC	70LF-104-HC	3/4 NPT x 3/4 Hose	0.68	1.96	3.50	3.67	4.87	2.12
70-105-HC	70LF-105-HC	1 NPT x 3/4 Hose	0.87	2.24	3.92	4.16	5.28	2.43
70-203-HC	70LF-203-HC	1/2 Solder x 3/4 Hose	0.50	1.68	3.14	3.28	3.89	1.75
70-204-HC	70LF-204-HC	3/4 Solder x 3/4 Hose	0.68	1.96	3.94	4.09	4.89	2.12

Regular Port Economy Ball Valves

32-100 SERIES



REGULAR PORT THREADED END BRONZE BALL VALVE

NPT threaded ball valve rated to 400 psig CWP, non-shock and 125 psig for saturated steam. Blowout-proof stem design with adjustable packing gland.

FEATURES

- ASTM B584 Bronze
- PTFE seats and MPTFE stuffing box ring

OPTIONS

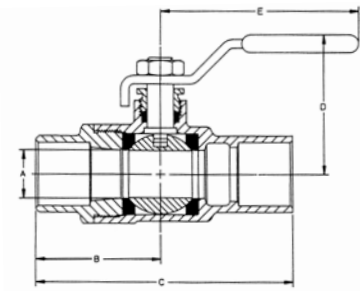
- 2-1/4" stem extension (-04)
- Tee handle (-07)
- Round handle (-15)
- SS latch-lock lever & nut (-27)
- Balancing stop (-92)

Model Number	Size (in.)	Dimensions (in.)				
		A	B	C	D	E
32-101-01	1/4	0.37	0.80	1.60	1.65	2.87
32-102-01	3/8	0.37	0.80	1.60	1.65	2.87
32-103-01	1/2	0.40	1.00	2.00	1.68	2.87
32-104-01	3/4	0.65	1.20	2.41	1.90	3.87
32-105-01	1	0.75	1.55	3.09	2.18	4.87
32-106-01	1-1/4	1.00	1.72	3.44	2.53	5.50
32-107-01	1-1/2	1.12	1.93	3.87	2.69	5.50
32-108-01	2	1.50	2.17	4.37	2.94	5.50

COMMERCIAL PRODUCTS CATALOG

Regular Port Economy Ball Valves

32-200 SERIES



REGULAR PORT SOLDER END BRONZE BALL VALVE

Solder end ball valve with vacuum service to 29" Hg. 400 psig CWP, non-shock 125 psig for saturated steam. Blowout-proof design with adjustable packing gland.

FEATURES

- ASTM B584 Bronze
- PTFE seats and MPTFE Stuffing box ring
- Extended solder cups help protect seats from excessive heat during soldering

OPTIONS

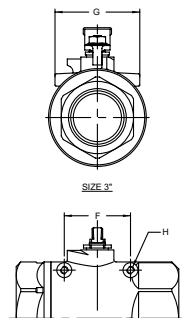
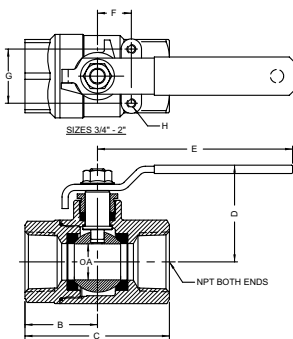
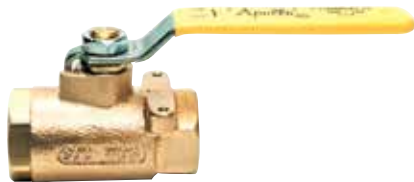
- 2-1/4" stem extension (-04)
- Tee handle (-07)
- Round handle (-15)
- SS latch-lock lever & nut (-27)
- Balancing stop (-92)

NOTE: This valve is being discontinued. After current stock is depleted; this valve will be replaced by the 77F-200 Series.

Model Number	Size (in.)	Dimensions (in.)				
		A	B	C	D	E
32-203-01	1/2	0.40	1.29	2.65	1.68	2.87
32-204-01	3/4	0.65	1.73	3.56	1.90	3.87
32-205-01	1	0.75	2.11	4.26	2.18	4.87
32-206-01	1-1/4	1.00	2.36	4.60	2.53	5.50
32-207-01	1-1/2	1.12	2.84	5.42	2.69	5.50
32-208-01	2	1.50	3.33	6.48	2.94	5.50

Ball Valves w/Mounting Pad

71-100 SERIES



BALL VALVE WITH MOUNTING PAD

Designed to easily accommodate spring return handle, actuator or simple panel mounting. Threaded end connections with RPTFE seats and stuffing box ring.

FEATURES

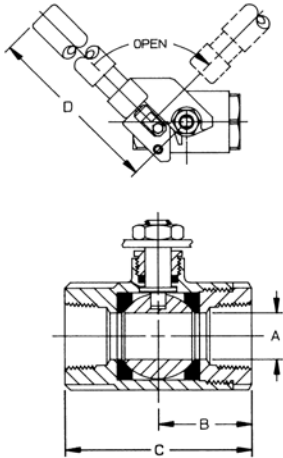
- 3/4" to 3" models (See 77 Series for 1/4" - 1/2")
- 600 CWP non-shock
- Blowout-proof stem
- ASTM B584 Bronze
- Round handle option
- Adjustable packing

Model Number	Size (in.)	Dimensions (in.)							
		A	B	C	D	E	F	G	H
71-104-01	3/4	0.68	1.50	3.00	2.12	4.87	0.87	1.37	10-24 NC
71-105-01	1	0.87	1.68	3.37	2.25	4.87	0.87	1.37	10-24 NC
71-106-01	1-1/4	1.00	2.00	4.00	2.62	5.50	0.93	1.50	1/4-20 NC
71-107-01	1-1/2	1.25	2.18	4.37	2.87	8.00	0.93	1.50	1/4-20 NC
71-108-01	2	1.50	2.34	4.68	3.06	8.00	0.93	1.50	1/4-20 NC
71-100-01	3	2.50	3.37	6.75	4.12	8.00	3.37	2.75	1/4-20 NC

BALL VALVES

Shut-Off Ball Valves

71-500 SERIES



CAST BRONZE VALVE WITH SPRING RETURN HANDLE

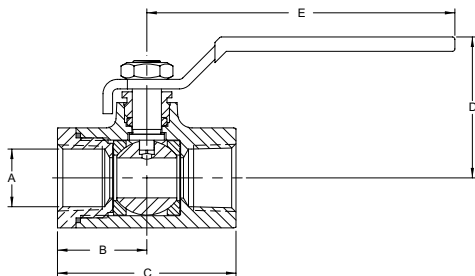
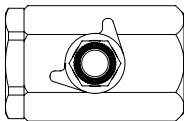
Ideal in applications where the valve must be in OFF position at all times such as feeding fuel lines. Can be used in reverse with 90° reverse stem option. Basic configuration: spring return to CLOSED. All lever components are stainless steel.

FEATURES

- Rated 600 psig CWP, non-shock
- 150 psig for saturated steam
- Spring return to OPEN (-08)

Model Number	Size (in.)	Dimensions (in.)			
		A	B	C	D
71-501-01	1/4	0.43	1.12	2.25	7.00
71-502-01	3/8	0.50	1.12	2.25	7.00
71-503-01	1/2	0.50	1.12	2.25	7.00
71-504-01	3/4	0.68	1.50	3.00	7.00
71-505-01	1	0.87	1.68	3.37	7.00
71-506-01	1-1/4	1.00	2.00	4.00	9.00
71-507-01	1-1/2	1.25	2.18	4.37	9.00
71-508-01	2	1.50	2.34	4.68	9.00

73A-100 SERIES



FORGED CARBON STEEL BALL VALVE

Threaded, 2 piece design, 1/4" to 1" 2000 psig CWP, 1-1/4" to 2" 1500 psig CWP Cold Non-Shock. 150 psig Saturated Steam.

FEATURES

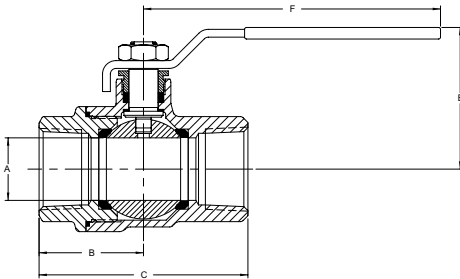
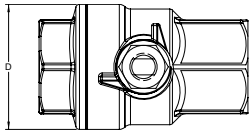
- RPTFE seats & packing
- Forged construction
- Raised handle stops
- Blow-out-proof stem design
- Adjustable packing gland
- Zinc phosphate corrosion protection
- (-24) Fire safe to API 607 4th ed. class 600 burn
- AAR Approved #E999032
- Vacuum Service to 29 inches Hg.

Model Number	Size (in.)	Dimensions (in.)				
		A	B	C	D	E
73A-101-01A	1/4"	.37	1.02	2.30	1.72	3.85
73A-102-01A	3/8"	.37	1.08	2.37	1.72	3.85
73A-103-01A	1/2"	.50	1.18	2.31	1.78	3.85
73A-104-01A	3/4"	.68	1.57	3.07	2.07	4.75
73A-105-01A	1"	.87	1.73	3.40	2.18	4.75
73A-106-01	1-1/4"	1.00	1.98	3.97	2.72	5.50
73A-107-01	1-1/2"	1.25	2.14	4.32	3.12	7.75
73A-108-01	2"	1.50	2.73	5.44	3.27	7.75

COMMERCIAL PRODUCTS CATALOG

Stainless Steel Full Port Ball Valves

76F-100-A SERIES



STAINLESS STEEL FULL PORT BALL VALVE

Threaded, 2 piece design, 1/2"-2" 1000 psig CWP Cold Non-Shock, 150 psig. Saturated Steam, Vacuum Service to 29 inches Hg.

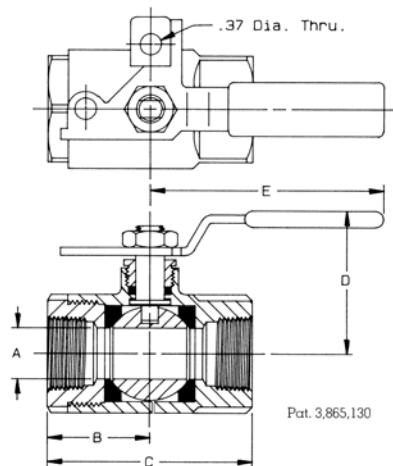
FEATURES

- 316 SS Investment cast components
- RPTFE seats
- Two-piece body
- Blow-out-proof stem design
- Adjustable packing gland
- (-24) Certified to API 607, 6th Edition, Class 600 burn
- Meets NACE MR-01-75-2000
- SS lever and nut
- Available with SS latch lock lever (-27)
- Therma Seal tee handle option (-11)
- Standard valve is certified **Lead Free**
- NSF/ANSI-61-G, NSF/ANSI 372 Lead Free

Model Number	Size (in.)	Dimensions (in.)						Wt.
		A	B	C	D	E	F	
76F-103-01A	1/2"	.50	1.21	2.35	1.27	1.73	3.85	0.57
76F-104-01A	3/4"	.75	1.39	2.77	1.62	1.96	3.85	0.91
76F-105-01A	1"	1.00	1.67	3.34	2.00	2.27	4.75	1.38
76F-106-01A	1-1/4"	1.25	1.96	3.92	2.73	3.21	7.77	4.17
76F-107-01A	1-1/2"	1.50	2.05	4.10	2.92	3.31	7.77	4.69
76F-108-01A	2"	2.00	2.37	4.74	3.75	3.69	7.77	6.90

Padlocking Ball Valves

75-100-41 SERIES



PADLOCKING BALL VALVE WITH AUTOMATIC DRAIN

Meets OSHA standards and provides for easy, safe maintenance of pneumatic tools. Valve drains downstream pressure for safety when lever is closed. Valve can be padlocked OPEN or CLOSED with same hardware.

FEATURES

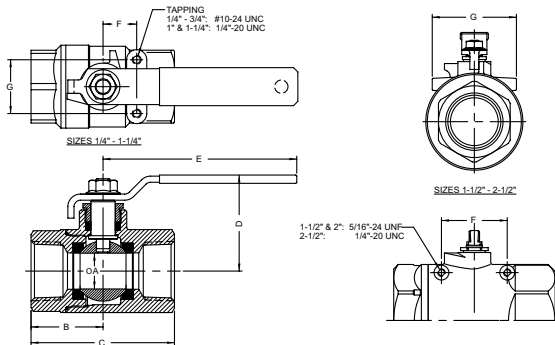
- Blowout-proof stem design
- Adjustable packing gland
- ASTM B584 Bronze
- RPTFE seats and stuffing box ring
- Pad lock lever
- Rated to 125 psig - air or water
- Temperature range: 50°F to 200°F
- Valve without drain option (suffix -01)

Model Number	Size (in.)	Dimensions (in.)				
		A	B	C	D	E
75-101-41	1/4	0.43	1.12	2.25	1.81	3.00
75-102-41	3/8	0.50	1.12	2.25	1.81	3.00
75-103-41	1/2	0.50	1.12	2.25	1.81	3.00
75-104-41	3/4	0.87	1.68	3.37	2.25	3.87
75-105-41	1	0.87	1.68	3.37	2.25	3.87
75-106-41	1-1/4	1.00	2.00	4.00	2.62	5.50
75-107-41	1-1/2	1.25	2.16	4.37	2.87	5.50
75-108-41	2	1.50	2.34	4.68	3.06	5.50

BALL VALVES

Ball Valves – Full Port

77-100 SERIES



HEAVY DUTY FULL PORT NPT PANEL MOUNT BALL VALVE

Designed for easy actuator mounting or panel mounting where highest Cv values are desired. RPTFE seats and stuffing box ring. Also available with 250 lb. steam trim option.

FEATURES

- Mounting pad
- ASTM B584 Bronze
- Blowout-proof stem design
- Adjustable packing gland
- Full flow, minimum pressure drop
- 600 CWP, non-shock pressure rating
- 150 SWP steam rating
- Chain lever kits available 3/4" - 2-1/2" (-16, -58)

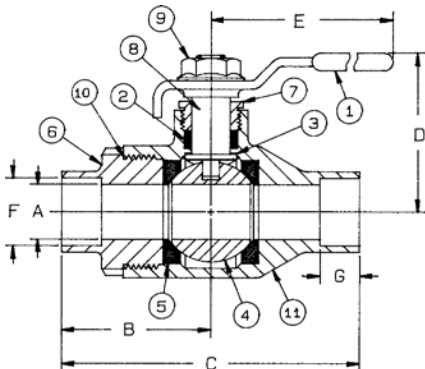
77 OPTIONS INCLUDE:

- 2-1/4" Stem Extension Latch Lock Lever (-27)
- Balance stop (-92)

Model Number	Size (in.)	Dimensions (in.)							Cv*
		A	B	C	D	E	F	G	
77-101-01	1/4	0.43	1.12	2.25	1.81	3.87	0.50	1.12	8.1
77-102-01	3/8	0.50	1.12	2.25	1.81	3.87	0.50	1.12	15
77-103-01	1/2	0.50	1.12	2.25	1.81	3.87	0.50	1.12	15
77-104-01	3/4	0.81	1.56	3.12	2.12	4.87	0.87	1.37	51
77-105-01	1	1.00	1.81	3.62	2.62	5.50	0.93	1.50	68
77-106-01	1-1/4	1.25	2.12	4.25	2.87	5.50	0.93	1.50	125
77-107-01	1-1/2	1.50	2.37	4.75	3.34	8.00	2.08	3.06	177
77-108-01	2	2.00	2.65	5.37	3.71	8.00	2.41	3.52	389
77-109-01	2-1/2	2.50	3.25	6.50	4.12	8.00	2.75	3.37	503

* The Cv factor is the gallons of water per minute that the valve will pass with 1 psig pressure drop.

77-200 SERIES



HEAVY DUTY FULL PORT SOLDER END BALL VALVE

Designed to be soldered into lines without disassembly. This allows a factory tested valve to be installed without disturbing the seats and seals. Designed for soft solder with melt points less than 500°F.

FEATURES

- Heavy duty cast bronze body
- Chromium plated ball
- Blowout-proof stem design
- Adjustable packing gland
- Full flow, minimum pressure drop
- 600 CWP, non-shock pressure rating
- 150 SWP

Model Number	Size (in.)	Dimensions (in.)						
		A	B	C	D	E	F	G
77-204-01	3/4	0.81	2.12	4.12	2.12	4.87	0.88	0.75
77-205-01	1	1.00	2.33	4.60	2.62	5.50	1.13	0.90
77-206-01	1-1/4	1.25	2.60	5.15	2.87	5.50	1.38	0.96
77-207-01	1-1/2	1.50	3.00	6.00	3.34	8.00	1.63	1.09
77-208-01	2	2.00	3.62	7.24	3.71	8.00	2.13	1.34
77-209-01	2-1/2	2.50	3.93	7.87	4.12	8.00	2.63	1.48

COMMERCIAL PRODUCTS CATALOG

"Safe" Solder/Braze Ball Valves (Two-Piece)

77-200-C8 SERIES

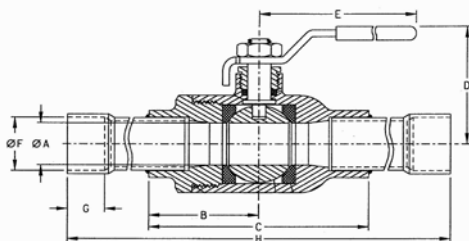


BRONZE FULL PORT BALL VALVE WITH 6" FEMALE COPPER EXTENSIONS (SOLDER CUP)

Solder end, 600 psig CWP, cold non-shock. Tube extensions allow valve to be brazed in-line without disassembly.

FEATURES

- ASTM B584 Bronze
- Adjustable packing gland
- RPTFE seats and stuffing box ring
- Blowout-proof stem design
- Full flow, minimum pressure drop



Model Number	Size (in.)	Dimensions (in.)							
		A	B	C	D	E	F	G	H
77-204-C8	3/4	0.81	2.12	4.12	2.12	4.87	0.88	0.75	16.12
77-205-C8	1	1.00	2.33	4.64	2.62	5.50	1.13	0.90	16.64
77-206-C8	1-1/4	1.25	2.60	5.15	2.87	5.50	1.38	0.96	17.15
77-207-C8	1-1/2	1.50	3.00	6.00	3.34	8.00	1.63	1.09	18.00
77-208-C8	2	2.00	3.62	7.24	3.71	8.00	2.13	1.34	19.24
77-209-C8	2-1/2	2.50	3.93	7.87	4.12	8.00	2.63	1.48	19.87

Ball Valves – Full Port – SAE Thread

77-900 SERIES

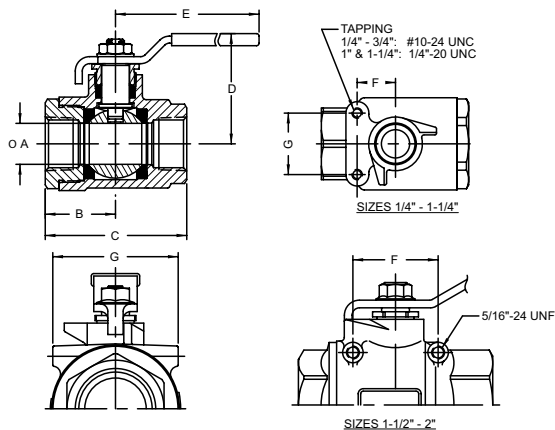


FULL PORT SAE STRAIGHT-THREAD BALL VALVES

Connections are designed for extended leak-free and energy saving performance in a broad range of applications, especially in manufacturing environments.

FEATURES

- 600 CWP non-shock
- ASTM B584 Bronze
- SAE J512/514 connections
- RPTFE seats & packing
- Blowout-proof stem and lever handle standard
- Drilled and tapped actuation pad standard

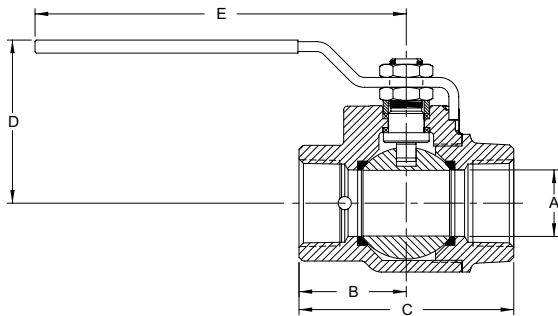
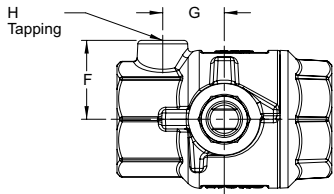


Model Number	Nom. Tube O.D. (in.)	Size (in.)	Dimensions (in.)						
			A	B	C	D	E	F	G
77-901-01	1/4	7/16-20	0.43	1.12	2.25	1.81	3.87	0.50	1.12
77-902-01	3/8	9/16-18	0.50	1.12	2.25	1.81	3.87	0.50	1.12
77-903-01	1/2	3/4-16	0.50	1.12	2.25	1.81	3.87	0.50	1.12
77-904-01	3/4	11/16-12	0.81	1.56	3.12	2.12	4.87	0.87	1.37
77-905-01	1	15/16-12	1.00	1.81	3.62	2.62	5.50	0.93	1.50
77-906-01	1-1/4	1-5/8-12	1.25	2.12	4.25	2.87	5.50	0.93	1.50
77-907-01	1-1/2	1-7/8-12	1.50	2.37	4.75	3.34	8.00	2.08	3.06
77-908-01	2	2-1/2-12	2.00	2.65	5.37	3.71	8.00	2.41	3.52

BALL VALVES

Two-Piece – Full Port Ball Valves

77B-100 SERIES



FULL PORT NPT VALVE WITH SIDE TAP

Design features lever handle and side tapping; can be used as a drain feature or with 1/8" and 1/4" test cocks, sensing lines, or pressure gauges. Offers extended service life with its ASTM B584 Bronze body, RPTFE packing and PTFE seats.

FEATURES

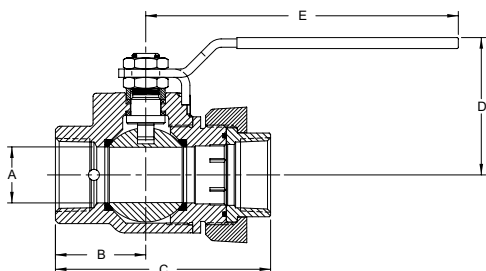
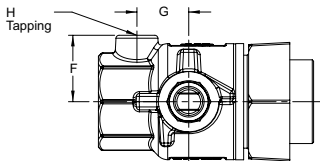
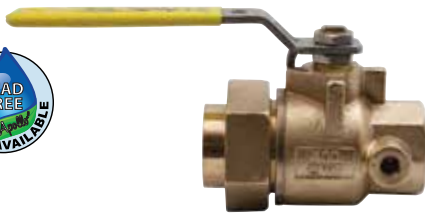
- Rated 400 psig CWP, non-shock
- Adjustable packing
- Blowout-proof stem design
- 125 psig SWP steam rating
- **Lead Free** option (77BLF)

OPTIONS

- All 77 levers
- SS Tee handle (-83)

Model Number	LF Model Number	Size (in.)	Dimensions (in.)							
			A	B	C	D	E	F	G	H
77B-103-01	77BLF-103-01	1/2"	0.50	1.29	2.44	1.79	3.74	0.85	0.70	1/8 NPT
77B-104-01	77BLF-104-01	3/4"	0.75	1.48	2.81	2.00	4.75	1.00	0.80	1/8 NPT
77B-105-01	77BLF-105-01	1"	1.00	1.66	3.20	2.19	4.78	1.15	0.88	1/8 NPT
77B-106-01	77BLF-106-01	1-1/4"	1.25	2.04	4.08	3.10	7.06	1.50	1.17	1/4 NPT
77B-107-01	77BLF-107-01	1-1/2"	1.50	2.12	4.23	3.09	7.06	1.60	1.38	1/4 NPT
77B-108-01	77BLF-108-01	2"	2.00	2.42	4.85	3.45	7.08	2.00	1.56	1/4 NPT

77B-300 SERIES



FULL PORT SINGLE UNION END VALVE WITH SIDE TAP

Valves offer union ends to make pipeline disassembly easier. Design features lever handle and side tapping; can be used as a drain feature or with 1/8" and 1/4" test cocks, sensing lines, or pressure gauges. Rated 400 psig CWP, non-shock, and is equipped with a rugged chromium-plated ball.

FEATURES

- Blowout-proof stem design
- PTFE seats
- Full flow, minimum pressure drop
- Boss not drilled and tapped option (-31)
- **Lead Free** option (77BLF)

OPTIONS

- All 77 levers
- SS Tee handle (-83)

Model Number	LF Model Number	Size (in.)	Dimensions (in.)							
			A	B	C	D	E	F	G	H
77B-303-01	77BLF-303-01	1/2"	0.50	1.29	3.05	1.44	2.50*	0.85	0.70	1/8 NPT
77B-304-01	77BLF-304-01	3/4"	0.75	1.48	3.58	1.77	4.00*	1.00	0.80	1/8 NPT
77B-305-01	77BLF-305-01	1"	1.00	1.66	3.94	1.96	4.00*	1.15	0.88	1/8 NPT
77B-306-01	77BLF-306-01	1-1/4"	1.25	2.04	4.86	3.10	7.03	1.50	1.17	1/4 NPT
77B-307-01	77BLF-307-01	1-1/2"	1.50	2.12	5.35	3.09	7.09	1.60	1.38	1/4 NPT
77B-308-01	77BLF-308-01	2"	2.00	2.42	5.91	3.45	7.08	2.00	1.56	1/4 NPT

* Tee Handles

COMMERCIAL PRODUCTS CATALOG

Ball Valve with Direct ISO Mounting

77D SERIES

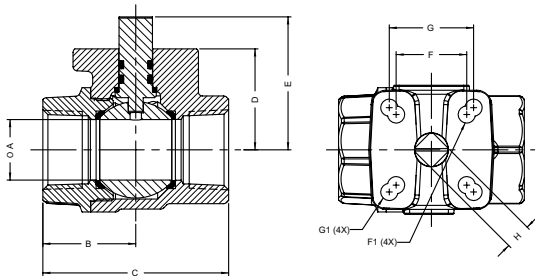


FULL PORT BRONZE BALL VALVE WITH DIRECT ISO MOUNTING PAD

Apollo's solid stainless steel ball design in a bronze valve with an integral ISO 5211 mounting pad with 100% American construction

FEATURES

- 600 CWP pressure rating
- Multi-fill seats and stem bearing
- Blowout-proof stem design
- Vacuum service to 29 in. Hg
- High cycle dual o-ring stem seal design (EPDM is standard)
- Ball is slot vented to equalize cavity and line pressure
- MSS SP-110 compliant
- Actuator ready



Suffix	Material	Temp Range	Steam (max)
-01E (std)	EPDM	-20 to 400°F	150 SWP @ 366°F
-01N	Nitrile	-20 to 250°F	15 SWP @ 250°F
-01V	Viton	-20 to 400°F	50 SWP @ 297°F

Model Number	Size (in.)	Dimensions (in.)									
		A	B	C	D	E	F	ØF1	G	ØG1	H
77D-143-01E	1/2	0.50	1.15	2.25	1.00	1.37	0.997	0.224	1.167	0.281	0.275
77D-144-01E	3/4	0.75	1.33	2.65	1.38	1.79	1.167	0.281	1.392	0.281	0.275
77D-145-01E	1	1.00	1.54	3.07	1.67	2.20	1.167	0.281	1.392	0.281	0.430
77D-147-01E	1-1/2	1.50	2.12	4.23	2.31	3.05	N/A	N/A	1.949	0.344	0.551
77D-148-01E	2	2.00	2.43	4.85	2.68	3.43	N/A	N/A	1.949	0.344	0.551

Gas/Fuel Shut-Off Valves

77G-UL SERIES



FULL PORT CSA & UL GAS SHUT-OFF VALVES

UL and CSA listed fuel shut off valve that features a durable bronze body, premium "multi-fill" MPTFE seats and stem packing, and a "Solid Ball" design that delivers true full port flow performance.

FEATURES

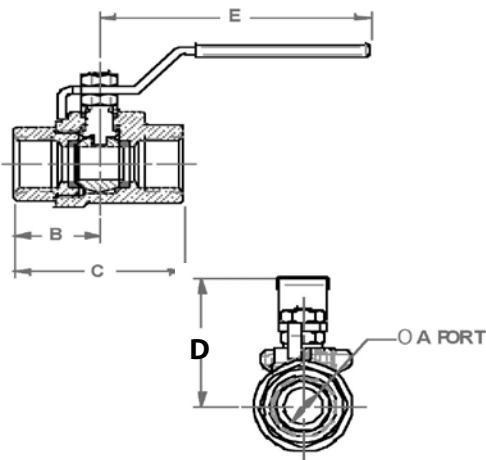
- Blowout-proof stem design
- ASTM B584 Bronze
- Maximum body pressure: 600 psig CWP
- CSA Rating: 125 psig
- CSA Rating: -20°F to 150°F
- UL Rating: 250 psig max @ 125°F
- MSS SP-110 ball valves
- CSA to ASME B16.33, 125
- CGA 3.16-M88, 125

UL LISTED

MHKZ
YSDT
YQNZ
YRBX
YRPV

UL LISTED

YRPV7
YRBX7
MHKZ7
YSDT7

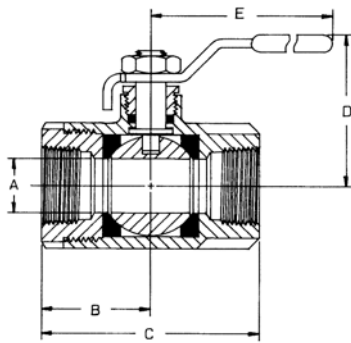
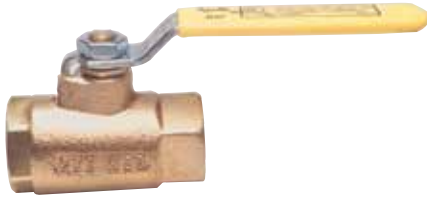


Model Number	Size (in.)	Dimensions (in.)					Wt.
		A	B	C	D	E	
77G-103-UL	1/2	0.50	1.19	2.35	1.80	3.74	0.68
77G-104-UL	3/4	0.75	1.42	2.74	1.98	4.78	1.26
77G-105-UL	1	1.00	1.64	3.18	2.18	4.78	2.08

BALL VALVES

Gas/Fuel Shut-Off Valves

80-100 SERIES



UL LISTED GAS SHUT-OFF VALVES

UL listed and designed as safe shut-off valve for LP gas, natural gas, flammable liquids and heated oil. Features easy quarter-turn ON/OFF, a large port to reduce pressure drop and NPT connections.

FEATURES

- RPTFE seats and seals
- Rated 600 psig CWP, non-shock
- 250 psig LP Gas
- Tee handle (-07)
- Latch lock handle (-27)
- Oxygen cleaned (-57)

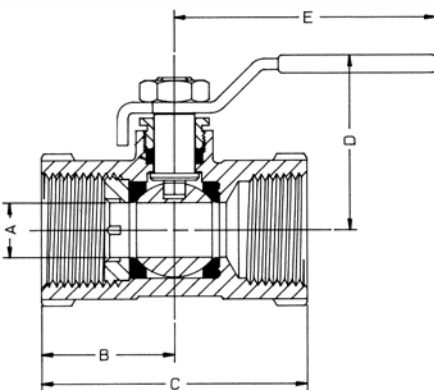
UL LISTED

YQNZ - UL1477
YRBX - UL842
YRPV - UL842
YSDT - UL125
MHKZ - UL842

Model Number	Size (in.)	Dimensions (in.)				
		A	B	C	D	E
80-101-01	1/4	0.37	1.03	2.06	1.75	3.87
80-102-01	3/8	0.37	1.03	2.06	1.75	3.87
80-103-01	1/2	0.50	1.12	2.25	1.81	3.87
80-104-01	3/4	0.68	1.50	3.00	2.12	4.87
80-105-01	1	0.87	1.68	3.37	2.25	4.87
80-106-01	1-1/4	1.00	2.00	4.00	2.62	5.50
80-107-01	1-1/2	1.25	2.18	4.37	2.87	5.50
80-108-01	2	1.50	2.34	4.68	3.06	5.50
80-109-01	2-1/2	2.50	3.25	6.50	4.12	8.00
80-100-01	3	2.50	3.37	6.75	4.12	8.00

Gas/Fuel Shut-Off Valves

90-100 SERIES



UL LISTED UNI-BODY THREADED BALL VALVE

A compact valve that's UL listed at 400 psig CWP, non-shock for fuel, inert gases and flammable liquids. Features ASTM Grade Bronze body, RPTFE seats and seals.

FEATURES

- Blowout-proof stem design
- One piece bronze body
- Optional tee handle (-07)
- Reduced port

UL LISTED

YQNZ - UL1477
YRBX - UL842
YRPV - UL842

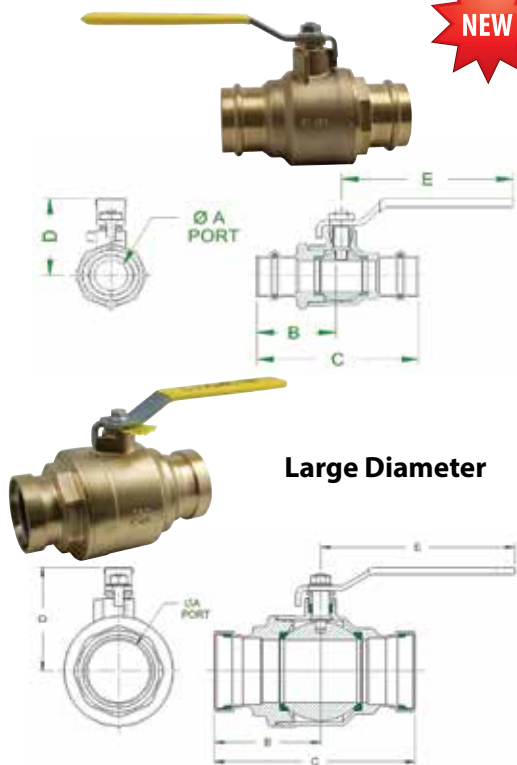
Model Number	Size (in.)	Dimensions (in.)				
		A	B	C	D	E
90-103-01A	1/2	0.37	1.14	2.15	1.68	3.87
90-104-01A	3/4	0.50	1.36	2.61	1.75	3.87
90-105-01A	1	0.62	1.50	2.90	2.00	4.87
90-106-01A	1-1/4	0.81	1.81	3.50	2.18	4.87
90-107-01A	1-1/2	1.00	2.06	3.79	2.62	5.50
90-108-01A	2	1.25	2.43	4.42	2.81	5.50

COMMERCIAL PRODUCTS CATALOG

APOLLOXPRESS® Ball Valves

77V SERIES

NEW



APOLLOXPRESS® PRESS END BRASS BALL VALVE

The APOLLOXPRESS® 77V Series two-piece press ball valve is ideal for installation in most HVAC systems. Features Leak Before Press® technology and 250 psig maximum working pressure. Proudly Made in the USA.

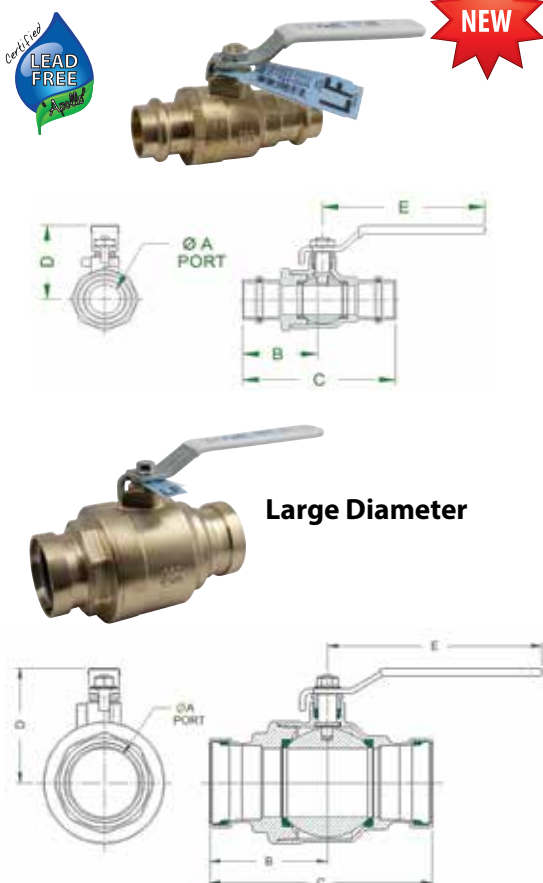
FEATURES

- 2 piece, heavy pattern forged design
- Full-Port Flow
- Max. Operating Pressure 250 psi
- Temperature Range: 0°F - 250°F
- Superior RPTFE Seats and Packing
- Adjustable Stem Packing
- Ridgid® XL Press Tool Compatible
- 2-1/2" - 4" are XLC Compatible
- Blow-Out Proof Stem
- Corrosion Resistant Materials
- Silicone Free Assembly
- 100% Factory Tested
- **Made in USA**, ARRA Compliant
- MSS SP-110 Ball Valves
- Directive 2011/65/CE (RoHS)
- Popular lever options and SS trim available

Model Number	Size (in.)	Dimensions (in.)					Wt.
		A	B	C	D	E	
77V-103-01	1/2"	0.50	1.57	2.89	1.66	2.85	0.4
77V-104-01	3/4"	0.75	1.90	3.63	1.91	3.86	0.9
77V-105-01	1"	1.00	2.20	3.88	2.11	3.86	1.2
77V-106-01	1-1/4"	1.25	2.23	4.22	2.44	4.75	2.3
77V-107-01	1-1/2"	1.50	2.84	5.45	2.91	5.42	3.4
77V-108-01	2"	2.00	3.40	6.57	3.69	7.77	6.0
77V-109-01	2-1/2"	2.50	4.26	8.04	4.13	7.77	12.0
77V-100-01	3"	3.00	5.10	9.45	5.03	9.92	19.5
77V-10A-01	4"	4.00	5.20	10.35	5.70	14.78	26.0

77VLF SERIES

NEW



LEAD FREE APOLLOXPRESS® PRESS END BRASS BALL VALVE

The APOLLOXPRESS® 77VLF Series Lead Free two-piece press ball valve is ideal for installation in most plumbing and heating systems, including potable water. Features Leak Before Press® technology and 250 psig maximum working pressure. Proudly Made in the USA.

FEATURES

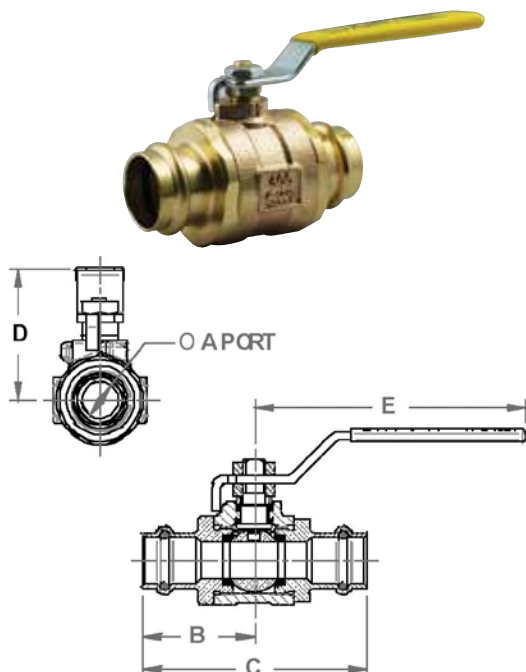
- Lead Free, ANSI 3rd Party Certified
- 2 piece, heavy pattern forged design
- Dezincification Resistant Materials
- Easily Identifiable White Handle Grip and Blue "Lead Free" Hang Tag
- Full-Port Flow
- Superior RPTFE Seats and Packing
- Adjustable Stem Packing
- Ridgid® XL Press Tool Compatible
- 2-1/2" - 4" are XLC Compatible
- Blow-Out Proof Stem
- Silicone Free Assembly
- 100% Factory Tested
- **Made in USA**, ARRA Compliant
- Maximum Operating Pressure 250 psi
- Temperature Range: 0°F - 250°F
- MSS SP-110 Ball Valves
- NSF/ANSI 61-G
- NSF/ANSI 372 Lead Free
- IAPMO IGC-157 Ball Valves
- Directive 2011/65/CE (RoHS)
- Popular lever options and SS trim available

Model Number	Size (in.)	Dimensions (in.)					Wt.
		A	B	C	D	E	
77VLF-103-01	1/2"	0.50	1.57	2.89	1.66	2.85	0.4
77VLF-104-01	3/4"	0.75	1.90	3.63	1.91	3.86	0.9
77VLF-105-01	1"	1.00	2.20	3.88	2.11	3.86	1.2
77VLF-106-01	1-1/4"	1.25	2.23	4.22	2.44	4.75	2.3
77VLF-107-01	1-1/2"	1.50	2.84	5.45	2.91	5.42	3.4
77VLF-108-01	2"	2.00	3.40	6.57	3.69	7.77	6.0
77VLF-109-01	2-1/2"	2.50	4.26	8.04	4.13	7.77	12.0
77VLF-100-01	3"	3.00	5.10	9.45	5.03	9.92	19.5
77VLF-14A-01	4"	4.00	5.20	10.35	5.70	14.78	26.0

BALL VALVES

APOLLOXPRESS® Ball Valves

77W SERIES



APOLLOXPRESS® BRONZE FULL PORT BALL VALVES

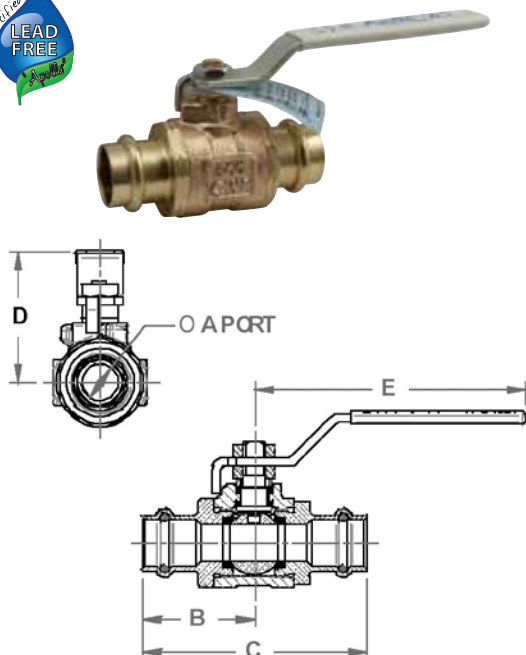
Apollo 77W Series APOLLOXPRESS® ball valves install in seconds, but the valve and the connection are made to last. Ideal for mechanical and heating systems. Not for use with natural gas.

FEATURES

- Full port
- Ridgid® "XL" Press Tool compatible
- Leak Before Press® technology
- 250 CWP, non-shock to 250°F max.
- MSS SP-110 ball valves
- Adjustable stem packing
- Excellent for hydronic heating (90% glycol max)
- Compatible with most 77C Series options
- Made in the USA
- **Lead Free** option (77WLF)

Model Number	Size (in.)	Dimensions (in.)					Wt.
		A	B	C	D	E	
77W-103-01	1/2	0.50	1.54	3.08	1.50	3.74	0.6
77W-104-01	3/4	0.75	1.78	3.55	2.01	4.78	1.1
77W-105-01	1	1.00	1.93	3.86	2.20	4.78	1.8
77W-106-01	1-1/4	1.25	2.44	4.87	3.13	7.04	4.3
77W-107-01	1-1/2	1.50	2.91	5.81	3.10	7.04	4.6
77W-108-01	2	2.00	3.74	7.47	3.48	7.04	8.2

77WLF SERIES



APOLLOXPRESS® LEAD FREE BRONZE FULL PORT BALL VALVES

Apollo 77WLF Series APOLLOXPRESS® ball valves install in seconds, but the valve and the connection are made to last. Ideal for most plumbing and heating systems including potable water. Not for use with natural gas.

FEATURES

- Full port
- Ridgid® "XL" Press Tool compatible
- Leak Before Press® technology
- 250 CWP, non-shock to 250°F max.
- MSS SP-110 ball valves
- NSF/ANSI 61-8 (2010) compliant
- NSF/ANSI 372 Lead Free
- Adjustable stem packing
- Excellent for hydronic heating (90% glycol max)
- Compatible with most 77C Series options
- **Made in the USA**

LF Model Number	Size (in.)	Dimensions (in.)					Wt.
		A	B	C	D	E	
77WLF-103-01	1/2	0.50	1.54	3.08	1.50	3.74	0.6
77WLF-104-01	3/4	0.75	1.78	3.55	2.01	4.78	1.1
77WLF-105-01	1	1.00	1.93	3.86	2.20	4.78	1.8
77WLF-106-01	1-1/4	1.25	2.44	4.87	3.13	7.04	4.3
77WLF-107-01	1-1/2	1.50	2.91	5.81	3.10	7.04	4.6
77WLF-108-01	2	2.00	3.74	7.47	3.48	7.04	8.2

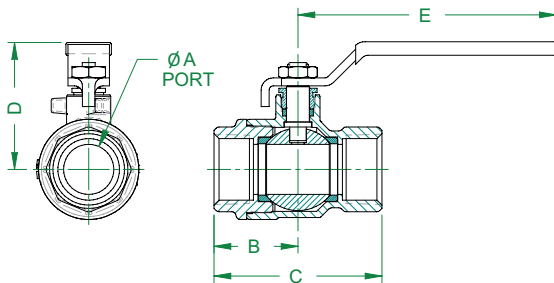
COMMERCIAL PRODUCTS CATALOG

Forged Brass Economy Ball Valves

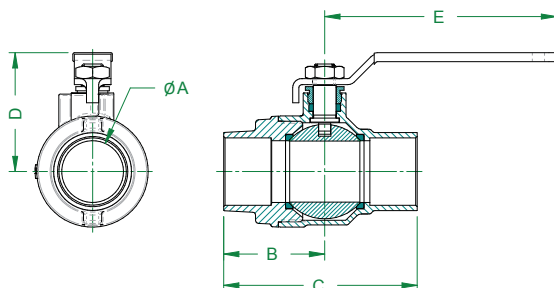
77F/77FLF SERIES



Large Diameter



Large Diameter



FULL PORT THREADED BRASS BALL VALVES

The Apollo 77F Series is a full port forged brass ball valve suitable for a wide range of plumbing and heating applications. These NPT threaded or solder, 2-piece valves combine reliable operation with maximum economy. Valves include most pertinent agency approvals. Proudly Made in the USA.

FEATURES

- Heavy Pattern Forged Design
- Full-Port Flow
- Superior RPTFE Seats and Packing
- Adjustable Stem Packing
- Blow-Out Proof Stem
- Corrosion Resistant Materials
- 100% Factory Tested
- Silicone Free Assembly
- **Made in USA**, ARRA Compliant
- Rating: 600 CWP (1/4" - 2")
- Rating: 400 CWP (2-1/2" - 4")
- Steam Rating: 150 psi SWP
- Vacuum Service to 29 in. Hg

77FLF FEATURES

- Easily Identifiable White Handle Grip and Blue "Lead Free" Hang Tag
- Lead Free Dezincification Resistant Brass
- NSF/ANSI 61-G
- NSF/ASNI 372 Lead Free
- Rating: 600 CWP (1/4" - 2")
- Rating: 400 CWP (2-1/2" - 4")
- Steam Rating: 150 psi SWP
- Vacuum Service to 29 in. Hg

Model Number	LF Model Number	Size (in.)	Dimensions (in.)					Wt.
			A	B	C	D	E	
NPT								
77F-101-01	77FLF-101-01	1/4"	0.38	0.81	1.62	1.61	2.85	0.3
77F-102-01	77FLF-102-01	3/8"	0.38	0.85	1.70	1.61	2.85	0.3
77F-103-01	77FLF-103-01	1/2"	0.50	1.14	2.25	1.66	2.85	0.5
77F-104-01	77FLF-104-01	3/4"	0.75	1.26	2.51	1.91	3.86	0.8
77F-105-01	77FLF-105-01	1"	1.00	1.60	3.20	2.11	3.86	1.3
77F-106-01	77FLF-106-01	1-1/4"	1.25	1.73	3.46	2.44	4.75	2.1
77F-107-01	77FLF-107-01	1-1/2"	1.50	2.00	4.00	2.91	5.42	3.2
77F-108-01	77FLF-108-01	2"	2.00	2.37	4.47	3.69	7.77	5.6
77F-109-01	77FLF-109-01	2-1/2"	2.50	2.99	5.98	4.14	7.77	12.8
77F-100-01	77FLF-100-01	3"	3.00	3.52	7.05	5.03	9.92	19.7
77F-10A-01	77FLF-14A-01	4"	4.00	3.83	7.65	5.70	14.78	25.5

Model Number	LF Model Number	Size (in.)	Dimensions (in.)					Wt.
			A	B	C	D	E	
Solder								
77F-203-01	77FLF-203-01	1/2"	0.50	1.37	2.37	1.66	2.85	0.4
77F-204-01	77FLF-204-01	3/4"	0.75	1.72	3.13	1.91	3.86	0.9
77F-205-01	77FLF-205-01	1"	1.00	2.01	3.73	2.11	3.86	1.3
77F-206-01	77FLF-206-01	1-1/4"	1.25	2.07	3.97	2.44	4.75	2.0
77F-207-01	77FLF-207-01	1-1/2"	1.50	2.42	4.69	2.91	5.42	3.3
77F-208-01	77FLF-208-01	2"	2.00	2.91	5.82	3.69	7.77	5.6
77F-209-01	77FLF-209-01	2-1/2"	2.50	3.68	7.05	4.14	7.77	11.6
77F-200-01	77FLF-200-01	3"	3.00	4.26	8.15	5.03	9.92	19.3
77F-20A-01	77FLF-24A-01	4"	4.00	4.82	9.57	5.70	14.78	25.6

APPROVALS

- MSS-SP-110
- IAPMO IGC-157 Ball Valves
- CGA 3.16 (125 PSI)
- CGA CR91-002 (5 PSI)
- ANSI Z21.15/CSA 9.1 (1/2 PSI)
- ASME B16.44 (5 PSI)
- ASME B16.33 (125 PSI) (1/2" - 2")



- FM 1140 (1/4" - 2")
- UL Guides: YSDT, MHKZ, YQNZ, YRBX & YRPV
- UL Guide VQGU (1/4" - 2")

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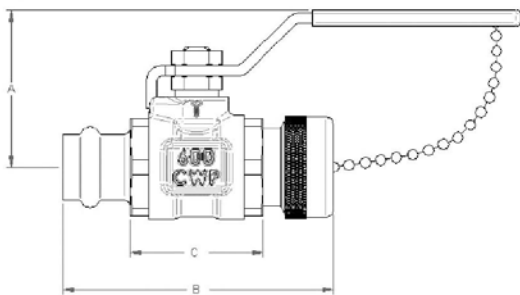
Customer Service (704) 841-6000



BALL VALVES

APOLLOXPRESS® Ball Valves

77W-HC SERIES



APOLLOXPRESS® x HOSE CAP & CHAIN BALL VALVE

Designed for direct mechanical connection to ASTM B88-Type K,L, and M copper tubing in the hard drawn condition for sizes 1/2"-3/4". Valves feature a 3/4" hose thread connection with heavy brass cap to protect the threads and is full pressure rated. Not for use with natural gas.

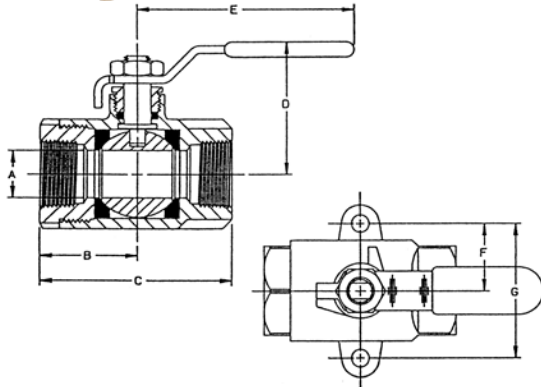
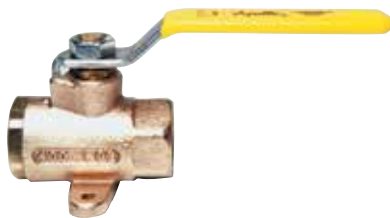
FEATURES

- Full port
- Ridgid® "XL" Press Tool compatible
- Leak Before Press® technology
- MSS SP-110 ball valves
- NSF/ANSI 61-G compliant (77WLF-HC)
- 77WLF supplied with Easily Identifiable White Handle Grip and Blue "Lead Free" Hang Tag
- Adjustable stem packing
- 250 CWP, non-shock to 250°F max.
- Excellent for hydronic heating (90% glycol max)
- Compatible with most 77C Series options
- **Made in the USA**
- Heavy brass dust cover is full pressure rated

Model Number	LF Model Number	Size (in.)	Dimensions (in.)			Wt. (lbs.)
			A	B	C	
77W-103-HC	77WLF-103-HC	1/2	1.80	3.12	1.54	0.61
77W-104-HC	77WLF-104-HC	3/4	2.01	3.45	1.72	1.09

Surface Mount Shut-Off Valves

78-256 SERIES



MULTI PURPOSE SHUT-OFF VALVE WITH MOUNTING EARS

Excellent for use with liquid fuels and often specified as a fuel tank shut-off valve in marine applications. All wetted parts are brass or cast bronze. Mounting ears for easy, positive installation.

FEATURES

- 400 psig CWP, non-shock
- Tested to 100 psig air under water
- Optional tee handle
- NPT threaded, both ends
- RPTFE seats and seals

Model Number	Size (in.)	Dimensions (in.)						
		A	B	C	D	E	F	G
78-248-01	1/4	0.43	1.12	2.25	1.78	3.87	0.93	1.87
78-250-01	3/8	0.43	1.12	2.25	1.78	3.87	0.93	1.87
78-256-01	1/2	0.50	1.12	2.25	1.78	3.87	0.93	1.87
78-438-01	3/4	0.68	1.50	3.00	2.12	4.87	1.06	2.12

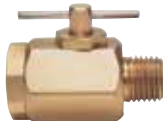
COMMERCIAL PRODUCTS CATALOG

Instrumentation Valves

78-260/290 SERIES

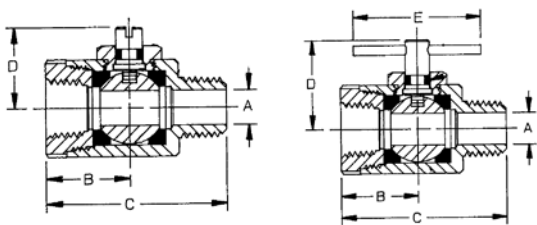


78-290: Bronze

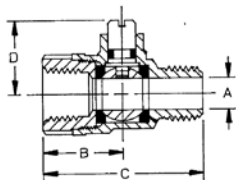


78-290: Bronze

Brass Valves



Bronze Valves



BRASS AND BRONZE INSTRUMENTATION BALL VALVES

Male x Female threaded. 400 psig CWP, non-shock. Air and liquid service.

FEATURES

- Micro-finish ball
- Blowout-proof stem design
- PTFE seats
- Nitrile stem seal
- Plated steel tee handle
- Compact design
- Optional mixed end fittings available

BRASS INSTRUMENTATION BALL VALVE - TEE HANDLE

Model Number	Size (in.)	Dimensions (in.)						Cv*	Wt.
		A	B	C	D	E			
78-260-05	1/8M x 1/8F	0.21	0.37	1.43	0.87	1.25		4.00	0.20
78-261-05	1/4M x 1/4F	0.31	0.43	1.43	0.87	1.25		5.50	0.19

BRASS INSTRUMENTATION BALL VALVE - SCREW SLOT

Model Number	Size (in.)	Dimensions (in.)						Cv*	Wt.
		A	B	C	D	E			
78-262-05	1/8M x 1/8F	0.21	0.37	1.43	0.75	N/A		4.00	0.20
78-263-05	1/4M x 1/4F	0.31	0.43	1.43	0.75	N/A		5.50	0.19

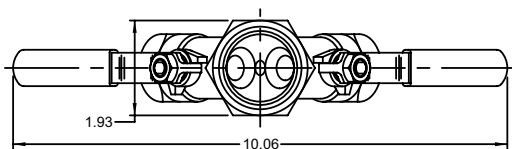
BRONZE INSTRUMENTATION BALL VALVE (INTERNATIONAL) - SCREW SLOT

Model Number	Size (in.)	Dimensions (in.)						Cv*	Wt.
		A	B	C	D	E			
78-290-01	1/8M x 1/4F	0.21	0.80	1.60	0.72	N/A		4.00	0.19
78-291-01	1/4M x 1/4F	0.31	0.80	1.60	0.72	N/A		5.50	0.19
78-292-01	1/8 x 1/4 SAE	0.21	0.80	1.60	0.72	N/A		4.00	0.19
78-293-01	1/4 x 1/4 SAE	0.31	0.80	1.60	0.72	N/A		5.50	0.19

* The Cv factor is the gallons of water per minute that the valve will pass with a 1 psig pressure drop.

Specialty Valves

78-274-01 SERIES

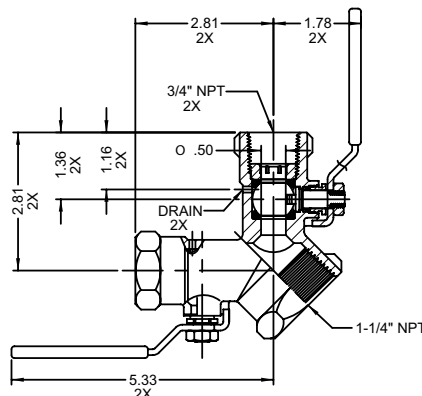


DUAL WYE AUTO DRAIN BALL VALVE

Dual action modular valve, ideal for compressor applications where safety exhaust may be needed for two air lines at once.

FEATURES

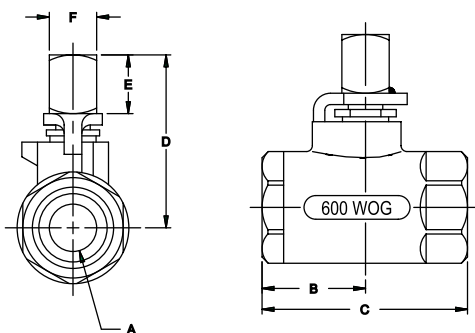
- 1-1/4" FNPT Inlet x (2) 3/4" FNPT outlets
- 600 CWP
- ASTM B584 Bronze



BALL VALVES

Irrigation Valves

78-130 SERIES



FEMALE END VALVE FOR UNDERGROUND SERVICE

Ideal for underground or below grade applications. This series (3/8"-2" FNPT) features a square head nut welded to the stem to allow operations with a ground key from standard grade.

Model Number	Size (in.)	Dimensions (in.)					
		A	B	C	D	E	F
78-132-01	3/8	0.37	1.03	2.06	1.75	0.62	0.50
78-133-01	1/2	0.50	1.09	2.18	1.83	0.62	0.50
78-134-01	3/4	0.68	1.50	3.00	2.12	0.62	0.62
78-135-01	1	0.87	1.68	3.37	2.25	0.62	0.62
78-136-01	1 1/4	1.00	2.00	4.00	2.88	0.75	0.75
78-137-01	1 1/2	1.25	2.18	4.38	3.06	0.75	0.75
78-138-01	2	1.50	2.34	4.68	3.25	0.75	0.75

78-114-01 SERIES



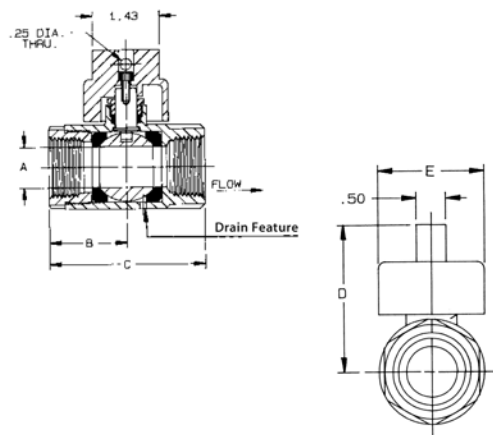
SAE MALE THREAD VALVE FOR UNDERGROUND SERVICE

Features the same square head nut as the 78-130 Series but with an optional SAE male thread on one end. Apollo valves can be manufactured with a variety of end connections.

FEATURES

- 1-1/16 SAE male o-ring x 3/4 FNPT

78-620 SERIES



BRONZE NPT IRRIGATION VALVE WITH AUTO-DRAIN

Ideal for underground use or where drained media will not cause damage. Heavy pattern design features ASTM B584 Bronze body.

FEATURES

- Auto-drain feature (when valve is in closed position) is standard
- Adjustable packing gland
- RPTFE seats and seals
- Stainless steel cover
- 200 psig water, CWP, non-shock
- Temperature range +50°F to 200°F

Model Number	Size (in.)	Dimensions (in.)				
		A	B	C	D	E
78-621-01	3/4	0.68	1.47	2.96	2.40	1.81
78-622-01	1	0.87	1.66	3.34	2.53	1.81
78-623-01	1-1/4	1.00	1.98	3.97	3.00	2.50
78-624-01	1-1/2	1.25	2.12	4.28	3.18	2.50
78-625-01	2	1.50	2.35	4.67	3.37	2.50

COMMERCIAL PRODUCTS CATALOG

Purge & Drain Valves

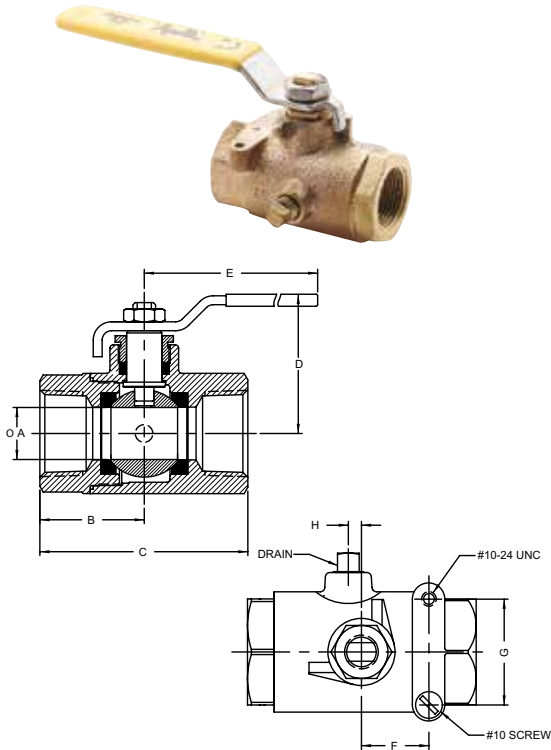
78-660 & 962 SERIES

BRONZE BALL VALVE WITH CENTER DRAIN

Center tap drain allows for winterization or purge and drain function. Features bronze body with built-in mounting pad for panel mounting or actuation. Ideal for hydronic heating and marine applications.

FEATURES

- 1/8" NPT side tap and plug
- RPTFE seats and stuffing box ring
- Stainless steel lever and nut
- Blowout-proof stem
- 600 psig CWP, non-shock
- Adjustable packing
- Drainable ball cavity to prevent freezing



Model Number	Size (in.)	Dimensions (in.)							
		A	B	C	D	E	F	G	H
78-664-01	3/4	0.68	1.50	3.00	2.12	4.87	0.87	1.37	0.17
78-665-01	1	0.87	1.68	3.37	2.25	4.87	0.87	1.37	0.21
78-666-01	1-1/4	1.00	2.00	4.00	2.62	5.50	0.93	1.50	0.28
78-667-01	1-1/2	1.25	2.18	4.37	3.05	8.00	0.93	1.50	0.40
78-962-01	2	1.50	2.34	4.68	3.24	8.00	0.93	1.50	0.45

"Safe" Solder Valves (Two-Piece)

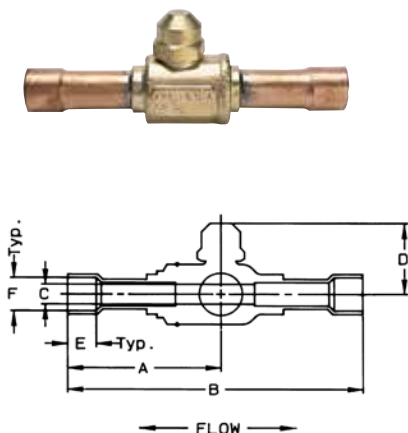
79-700 SERIES

UL-LISTED REFRIGERANT BALL VALVE ASSEMBLY

Complete hermetically welded assembly includes copper extensions and forged brass refrigerant ball valve with capped, triple-sealed stem to minimize leaks.

FEATURES

- Chrome plated ball
- RPTFE seats and seals
- Full port through 2-5/8"
- Bi-directional flow design
- Sizes from 3/8" to 3-1/8" O.D. tube
- All sizes UL listed - SFJQ
- Rated 500 psig CWP, non-shock
- For use with refrigerant Group 2 fluids



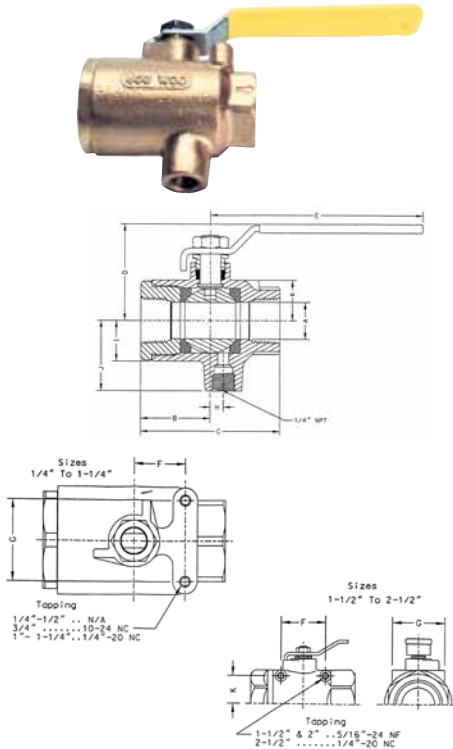
Model Number	Size (in.)	Dimensions (in.)						
		A	B	C	D	E	F	Cv*
79-701-01	3/8	3.38	6.45	0.45	1.56	0.38	0.38	8.5
79-702-01	1/2	3.38	6.45	0.45	1.56	0.38	0.50	8.5
79-703-01	5/8	3.56	6.82	0.50	1.56	0.50	0.62	9.8
79-704-01	7/8	3.91	7.53	0.68	1.79	0.75	0.87	32.0
79-705-01	1-1/8	4.39	8.51	0.87	1.98	0.90	1.12	44.0
79-706-01	1-3/8	4.42	8.94	1.25	2.62	0.96	1.38	66.0
79-707-01	1-5/8	4.55	9.19	1.25	2.62	1.09	1.62	148.0
79-708-01	2-1/8	5.16	10.31	1.50	2.93	1.34	2.12	218.0
79-709-01	2-5/8	6.50	13.00	2.50	3.90	1.48	2.62	440.0
79-600-01	3-1/8	7.00	14.00	2.50	3.90	1.67	3.12	390.0

* The Cv factor is the gallons of water per minute that the valve will pass with 1 psig pressure drop.

BALL VALVES

Air Exhaust Valves

7K-100 SERIES



FULL PORT SAFETY EXHAUST VALVE WITH 1/4" NPT TAP FOR DRAIN

For use on pneumatic equipment. Furnished with a 1/4" NPT tapped drain to accommodate a muffler or to pipe the exhausted air to a safe location.

FEATURES

- Safely vents compressed air (or other non-hazardous gases) from piping downstream of the closed valve
- Sizes 1/4" - 2-1/2"
- FNPT threads
- Rated 125 psig-air or water, CWP, non-shock
- Temperature range: +50°F - +200°F
- Optional stainless steel latch lock handle that locks in closed position only, specify suffix (-46)

Model Number	Size (in.)	Dimensions (in.)										
		A	B	C	D	E	F	G	H	I	J	K
7K-101-01	1/4	0.37	1.03	2.06	1.75	3.87	N/A	N/A	0.09	0.53	1.18	N/A
7K-102-01	3/8	0.37	1.03	2.06	1.75	3.87	N/A	N/A	0.09	0.53	1.18	N/A
7K-103-01	1/2	0.50	1.10	2.19	1.75	3.87	N/A	N/A	0.12	0.59	1.25	N/A
7K-104-01	3/4	0.81	1.56	3.12	2.12	4.78	0.87	1.37	0.29	0.90	1.56	0.90
7K-105-01	1	1.00	1.80	3.61	2.62	5.50	0.93	1.50	0.31	1.12	1.78	1.12
7K-106-01	1-1/4	1.25	2.12	4.25	2.87	5.50	0.93	1.50	0.37	1.37	2.03	1.37
7K-107-01	1-1/2	1.50	2.37	4.74	3.30	7.78	2.08	3.06	0.50	1.56	2.21	1.28
7K-108-01	2	2.00	2.70	5.38	3.71	7.78	2.41	3.52	0.62	2.03	2.68	1.56
7K-109-01	2-1/2	2.50	3.25	6.50	4.05	7.78	2.75	3.37	1.09	2.34	3.00	2.00

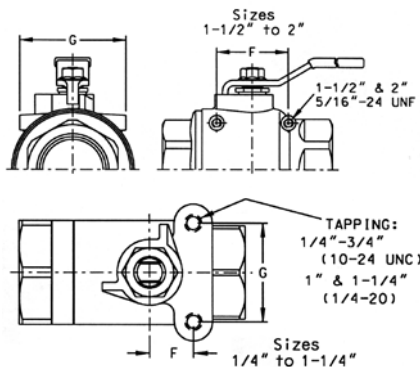
Also available in 70 & 77 Series as -41 option (without tapped drain)

Air Exhaust Valves

7K-SV SERIES



(7K-SV Series Shown)



SECURE-VENT FEATURE (-SV)

Available on the Apollo 77 and 7K full port bronze ball valves. Safely vents compressed air (or other non-hazardous gases) from piping downstream of the closed valve.

FEATURES

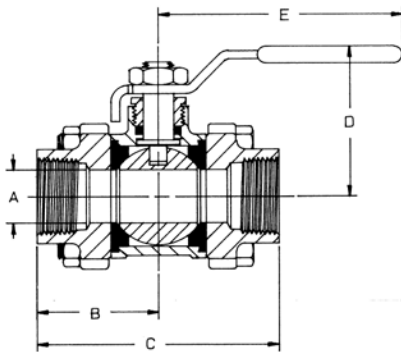
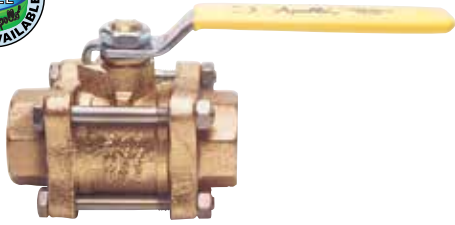
- Reliable shut-off and venting
- Pressure rating: 200 psig CWP, non-shock
- Temp. range: -20°F to 200°F
- Economical "no leakage" operation
- Belleville spring live-loaded active upstream seating
- Available with a full complement of handles

Model Number	Size (in.)	Dimensions (in.)						
		A	B	C	D	E	F	G
7K-101-SV	1/4	0.43	1.43	2.52	1.76	3.88	0.50	1.12
7K-102-SV	3/8	0.50	1.60	2.69	1.76	3.88	0.50	1.12
7K-103-SV	1/2	0.50	1.50	2.59	1.76	3.88	0.50	1.12
7K-104-SV	3/4	0.81	1.82	3.37	2.16	5.43	0.87	1.37
7K-105-SV	1	1.00	2.05	3.86	2.69	5.43	0.93	1.50
7K-106-SV	1-1/4	1.25	2.37	4.50	2.91	5.43	0.93	1.50
7K-107-SV	1-1/2	1.50	2.37	7.78	3.31	7.78	2.08	3.06
7K-108-SV	2	2.00	3.00	5.69	3.73	7.78	2.40	3.52

COMMERCIAL PRODUCTS CATALOG

Three-Piece Full Port Valves

82-100 SERIES



FULL PORT BRONZE NPT THREE-PIECE VALVE

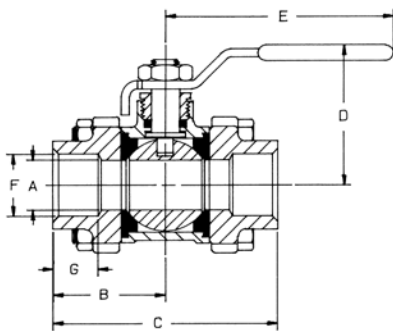
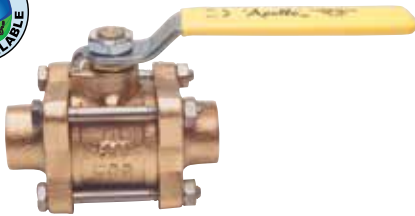
This inline-repairable threaded ball valve offers RPTFE seats and seals and a 600 CWP, non-shock rating.

FEATURES

- ASTM B584 Bronze body and ends
- SAE Grade 8 body bolts
- Adjustable packing nut
- Full port flow
- 600 CWP, 150 SWP
- Numerous options available
- 82-14X with SS ball and stem option
- **Lead Free** option (82LF)
 - NSF/ANSI 61-G and NSF/ANSI 372 Lead Free
 - Easily Identifiable White Handle Grip and Blue "Lead Free" Hang Tag

Model Number	LF Model Number	Size (in.)	Dimensions (in.)				
			A	B	C	D	E
82-101-01	82LF-101-01	1/4	0.43	1.28	2.56	1.81	3.87
82-102-01	82LF-102-01	3/8	0.50	1.28	2.56	1.81	3.87
82-103-01	82LF-103-01	1/2	0.62	1.40	2.81	1.93	4.87
82-104-01	82LF-104-01	3/4	0.81	1.71	3.43	2.18	4.87
82-105-01	82LF-105-01	1	1.00	1.93	3.87	2.62	5.50
82-106-01	82LF-106-01	1-1/4	1.25	2.37	4.75	2.87	5.50
82-107-01	82LF-107-01	1-1/2	1.50	2.62	5.25	3.37	8.00
82-108-01	82LF-108-01	2	2.00	3.01	6.03	3.68	8.00
82-109-01	82LF-109-01	2-1/2	2.50	3.62	7.25	5.14	9.75
82A-140-01	-	3	3.00	4.18	8.37	8.10	19.13
82A-14A-01	-	4	4.00	5.43	10.86	8.88	19.13

82-200 SERIES



FULL PORT BRONZE THREE-PIECE SOLDER/BRAZED END VALVE

Valve features full port and is easily repaired inline. Designed for soft soldering or brazed* installation. Includes RPTFE seats and seals.

FEATURES

- ASTM B584 Bronze
- SAE Grade 8 body bolts
- 600 CWP, non-shock
- 150 SWP steam rating
- 82-24X with SS ball and stem option
- **Lead Free** option (82LF) featuring EZ-Solder™ Lead Free Bronze
 - NSF/ANSI 61-G and NSF/ANSI 372 Lead Free
 - Easily Identifiable White Handle Grip and Blue "Lead Free" Hang Tag

Model Number	LF Model Number	Size (in.)	Dimensions (in.)						
			A	B	C	D	E	F	G
82-202-01	82LF-202-01	3/8	0.50	1.28	2.56	1.81	3.87	0.50	0.37
82-203-01	82LF-203-01	1/2	0.62	1.40	2.81	1.93	4.87	0.63	0.50
82-204-01	82LF-204-01	3/4	0.81	1.71	3.43	2.18	4.87	0.88	0.75
82-205-01	82LF-205-01	1	1.00	1.93	3.87	2.62	5.50	1.13	0.90
82-206-01	82LF-206-01	1-1/4	1.25	2.37	4.75	2.87	5.50	1.38	0.96
82-207-01	82LF-207-01	1-1/2	1.50	2.60	5.25	3.37	8.00	1.63	1.09
82-208-01	82LF-208-01	2	2.00	3.01	6.03	3.68	8.00	2.13	1.34
82-209-01	82LF-209-01	2-1/2	2.50	3.62	7.25	5.14	9.38	2.63	1.47
82A-240-01	-	3	3.00	4.18	8.37	8.10	19.13	3.13	1.66
82A-24A-01	-	4	4.00	5.43	10.86	8.88	19.13	4.13	2.16

* Model 82LF suitable for soft soldering only.

www.apollovalves.com

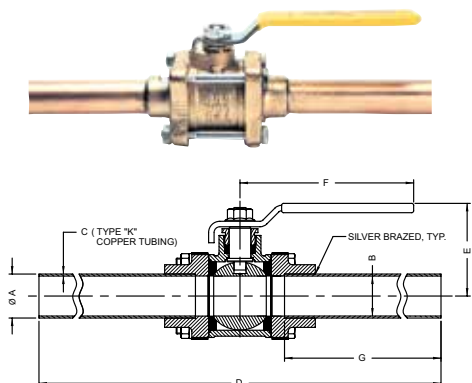
Customer Service (704) 841-6000



BALL VALVES

Three-Piece Brazed Tube-End Valves

82-200/82-240 SERIES



THREE-PIECE FULL PORT VALVE WITH BRAZED TUBE EXTENSIONS

This valve is useful in pharmaceutical, medical gas, pneumatic, and liquid applications where valves should not be disassembled prior to soldering or brazing.

FEATURES

- 6" type K copper tubing brazed into both end cup
- Rated 600 psig CWP, non-shock
- Optional gage port tapping
- Complies with NFPA99 and CGA G4.1
- Oxygen service option
- ASTM B584 Bronze
- SS ball and stem option

Nominal Tubing O.D.

Size (in.)	Standard Model No.	Standard Model No. 316 Ball & Stem	Oxygen Cleaned Model No.	Oxygen Cleaned Model No. 316 Ball & Stem	Dimensions (in.)						
					A	B	C	D	E	F	G
1/2	82-203-B8	82-243-A8	82-203-K1	82-243-K1	5/8	0.62	0.05	13.81	2.00	4.87	6.00
3/4	82-204-A8	82-244-B3	82-204-K1	82-244-K1	0.87	0.81	0.07	13.93	2.18	4.87	6.00
1	82-205-B7	82-245-B1	82-205-K1	82-245-K1	1.12	1.00	0.07	14.04	2.62	5.50	6.00
1-1/4	82-206-B7	82-246-B0	82-206-K1	82-246-K1	1.37	1.25	0.07	14.81	2.87	5.50	6.00
1-1/2	82-207-B2	82-247-B2	82-207-K1	82-247-K1	1.62	1.50	0.07	15.07	3.37	8.00	6.00
2	82-208-B7	82-248-B2	82-208-K1	82-248-K1	2.12	2.00	0.08	15.23	3.70	8.00	6.00
2-1/2	82-209-A2	82-249-A2	82-209-K1	82-249-K1	2.63	2.44	0.10	23.45	5.13	9.94	9.60
3	-	82A-240-A2	-	82A-240-K1	3.13	3.00	0.11	23.87	6.67	18.00	9.42
4	-	82A-24A-A0	-	82A-24A-K1	3.13	3.00	0.11	23.87	6.67	18.00	9.42

COMMERCIAL PRODUCTS CATALOG

Medical Gas Ball Valves - Outside the Zone Box

DESIGN: "F1", "F3", & "G3" CONFIGURATIONS

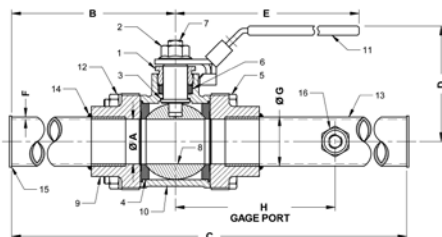
- Cast Bronze Valve Body & Valve End Caps
- RPTFE Seats and Stuffing Box Ring
- 600 psig CWP Non-Shock (3" & 4" 400 CWP)
- Vacuum Service to 29 inches Hg
- Full Port in All Sizes
- Blow-Out-Proof Stem Design
- Adjustable Packing Nut
- In-Line Repairable
- Locking Handle
- Cleaned for Oxygen Service per CGA G4.1 & NFPA 99
- Factory Brazed, Male Extensions for Solder or Brazed Installation without Disassembly (Type K copper tubing brazed into both end caps)

OUTSIDE THE ZONE BOX

NFPA 99 requires the valves to be secured in the open position. For medical gas applications that are Outside-the-Zone-Box, Apollo offers three standard configurations: "F1" (1 gage port), "F3" (2 gage ports), and "G3" (no gage ports).

82-200-F1 AND 82-240-F1 SERIES

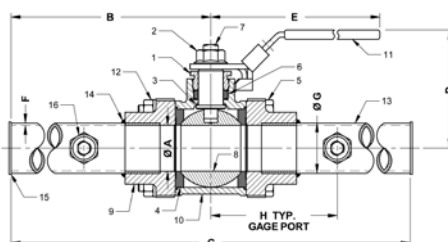
MALE EXTENSIONS AND 1 GAGE PORT



Size (in.)	82-200 Model Number	82-240 Model Number 316SS Ball & Stem	Dimensions (in.)							
			A	B	C	D	E	F	G	H
1/2	82-203-F1	82-243-F1	0.62	6.91	17.41	2.23	5.31	0.049	5/8"	7.15
3/4	82-204-F1	82-244-F1	0.81	6.97	17.47	2.41	5.31	0.065	3/4"	7.22
1	82-205-F1	82-245-F1	1.00	7.03	17.62	3.01	6.29	0.065	1-1/4"	7.28
1-1/4	82-206-F1	82-246-F1	1.25	7.38	22.71	3.22	6.29	0.065	1-3/8"	7.00
1-1/2	82-207-F1	82-247-F1	1.50	7.50	22.57	4.04	8.93	0.072	1-5/8"	6.74
2	82-208-F1	82-248-F1	2.00	7.74	22.58	4.15	8.93	0.083	2-1/8"	6.51
2-1/2	82-209-F1	82-249-F1	2.50	11.75	23.50	5.31	10.06	0.095	2-1/2"	6.38

82-200-F3 AND 82-240-F3 SERIES

MALE EXTENSIONS AND 2 GAGE PORTS

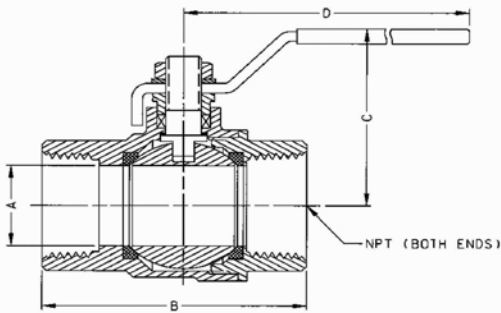
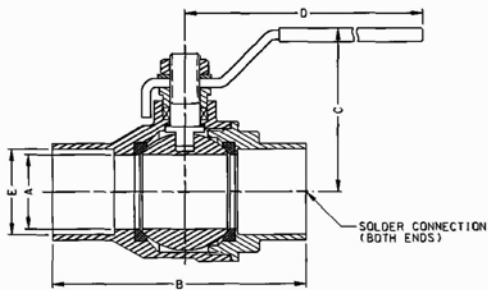


Size (in.)	82-200 Model Number	82-240 Model Number 316SS Ball & Stem	Dimensions (in.)							
			A	B	C	D	E	F	G	H
1/2	82-203-F3	82-243-F3	0.62	12.27	24.53	2.23	5.31	0.049	5/8"	4.25
3/4	82-204-F3	82-244-F3	0.81	12.25	24.50	2.41	5.31	0.065	3/4"	4.24
1	82-205-F3	82-245-F3	1.00	12.30	24.60	3.01	6.29	0.065	1-1/4"	4.24
1-1/4	82-206-F3	82-246-F3	1.25	12.23	24.46	3.22	6.29	0.065	1-3/8"	4.23
1-1/2	82-207-F3	82-247-F3	1.50	12.25	24.50	4.04	8.93	0.072	1-5/8"	4.25
2	82-208-F3	82-248-F3	2.00	12.25	24.50	4.15	8.93	0.083	2-1/8"	4.25
2-1/2	82-209-F3	82-249-F3	2.50	11.75	23.50	5.31	10.06	0.095	2-1/2"	6.38

BALL VALVES

Forged Brass Economy Valves

94A SERIES



94A OPTIONS

Size	Replacement Handles	2-1/4" Stem Extension + Memory Stop
1/4"-3/8"	W932400	78217101
1/2"	W932500	78217201
3/4"	W936000	78217301
1"	W932600	78217401
1-1/4"	W932700	78217501
1-1/2"-2"	W932800	78217601
2-1/2"-3"	W932900	78217701
4"	W933000	78217801

- Kits do not include stem nut

- Replacement handles are not UL marked



APOLLO INTERNATIONAL™ ECONOMY FULL PORT BALL VALVES

These full port ball valves with forged brass body are UL listed and CSA approved.

FEATURES

- Adjustable stem packing nut
- Meets MSS SP110 requirements
- 600 CWP non-shock (1/4" - 2")
- 400 CWP non-shock (2-1/2" - 4")
- 2-1/4" memory stop option
- 100% Factory Tested
- **Lead Free** option (94ALF-A)

APPROVALS

CSA listed (File # 226234) per the following standards:

- CAN 1-9.1 1/2 psig
- CGA 3.16 125 psig
- CGA CR91-002 5 psig
- ANSI Z21.15 1/2 psig
- ASME B16.44 5 psig
- ANSI/ASME B16.33 125 psig



UL listed

- Guides YQNZ, YRBX, YRPV, YSDT and MHKZ (1/4" - 4" NPT only)
- UL 258 - VQGU Trim & Drain 175# max (1/4" - 2")



FM 1140

* Gas approvals apply to NPT models only

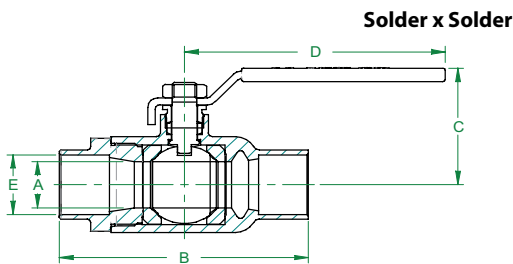
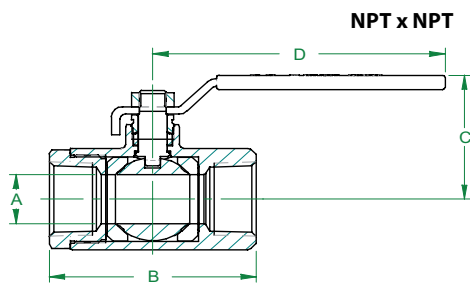


Model Number	Size (in.)	Dimensions (in.)					Wt.
		A	B	C	D	E	
NPT							
94A-101-01	1/4"	0.395	1.746	1.840	3.543	—	0.33
94A-102-01	3/8"	0.407	1.756	1.840	3.543	—	0.30
94A-103-01	1/2"	0.583	2.047	1.921	3.543	—	0.44
94A-104-01	3/4"	0.748	2.362	2.087	3.780	—	0.66
94A-105-01	1"	0.945	2.756	2.559	4.528	—	1.10
94A-106-01	1-1/4"	1.260	3.307	2.953	4.528	—	1.57
94A-107-01	1-1/2"	1.575	3.661	3.346	5.512	—	2.40
94A-108-01	2"	1.969	4.181	3.681	5.512	—	3.37
94A-109-01	2-1/2"	2.520	5.378	4.764	8.661	—	7.60
94A-100-01	3"	2.953	6.039	5.079	8.661	—	9.36
94A-10A-01	4"	3.898	7.386	5.866	9.606	—	16.85
Solder							
94A-203-01	1/2"	0.583	2.047	1.839	3.543	0.630	0.38
94A-204-01	3/4"	0.748	2.748	1.996	3.780	0.878	0.64
94A-205-01	1"	0.945	3.228	2.441	4.528	1.130	0.99
94A-206-01	1-1/4"	1.260	3.819	2.854	4.528	1.378	1.40
94A-207-01	1-1/2"	1.575	4.425	3.169	5.512	1.630	2.17
94A-208-01	2"	1.969	5.315	3.449	5.512	2.130	2.97
94A-209-01	2-1/2"	2.520	6.283	4.764	8.661	2.630	6.36
94A-200-01	3"	2.953	7.150	5.079	8.661	3.130	8.32
94A-20A-01	4"	3.945	9.276	5.866	9.606	4.130	15.78

COMMERCIAL PRODUCTS CATALOG

Lead Free Forged Brass Economy Valves

94ALF-A SERIES



APOLLO INTERNATIONAL™ ECONOMY FULL PORT BALL VALVES

These Lead Free ball valves with forged DZR brass body are UL listed and CSA approved.

FEATURES

- Lead Free* materials and certification
- Solders like standard brass
- Distinctive white "Lead Free" handle grip and blue "Lead Free" hang tag
- 2-Piece, Full-Port design
- Blow-out Proof Stem
- Adjustable Stem Packing Nut
- Multiple agency approvals
- Valve Design Rating: 600 CWP – 1/4 to 2", 400 CWP – 2-1/2" to 4"
- Temperature Range: -20°F to 366°F
- 100% Factory Tested

APPROVALS

- MSS SP-110 - Ball Valves
- NSF/ANSI 61-G
- NSF/ANSI 372 Lead Free
- IAPMO IGC 157 (cUPC)
- ANSI Z21.15 (1/2 psi) (CSA 9.1) (1/4" – 2")
- ASME B16.44 (5 psi) (CR91-002) (1/4" – 2")
- ASME B16.33 (125 psi) (CGA 3.16) (1/4" – 2")
- UL: Guides YQNZ, YRBX, YRPV, YSDT and MHKZ (1/4" - 4" NPT only)
- UL 258 – VQGU Trim & Drain 175# max (1/4" – 2")
- FM 1140 (1/4" - 2" NPT & Solder)



Note: Gas approvals apply to NPT valves only

94ALF-A OPTIONS

Size	Replacement Handles	2-1/4" Stem Extension + Memory Stop
1/4"-3/8"	W234700	78217101
1/2"	W234800	78217201
3/4"	W234900	78217301
1"	W235000	78217401
1-1/4"	W235100	78217501
1-1/2"-2"	W235200	78217601
2-1/2"-3"	W235300	78217701
4"	W273800	78217801

- Replacement handles are not UL marked

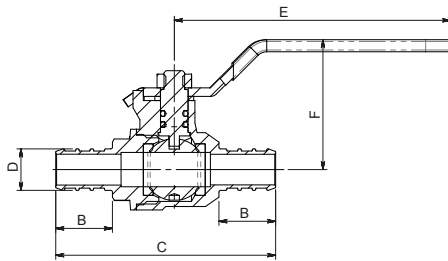


LF Model Number	Size (in.)	Dimensions (in.)					Wt.
		A	B	C	D	E	
NPT							
94ALF-101-01A	1/4"	0.39	1.76	1.73	3.54	-	0.29
94ALF-102-01A	3/8"	0.39	1.76	1.73	3.54	-	0.30
94ALF-103-01A	1/2"	0.59	2.05	1.94	3.54	-	0.44
94ALF-104-01A	3/4"	0.75	2.36	2.11	3.78	-	0.71
94ALF-105-01A	1"	0.95	2.76	2.58	4.53	-	1.10
94ALF-106-01A	1-1/4"	1.26	3.31	2.96	4.53	-	1.63
94ALF-107-01A	1-1/2"	1.58	3.66	3.37	5.51	-	2.41
94ALF-108-01A	2"	1.97	4.18	3.70	5.51	-	3.66
94ALF-109-01A	2-1/2"	2.52	5.38	4.76	8.66	-	7.60
94ALF-100-01A	3"	2.95	6.04	5.08	8.66	-	9.60
94ALF-10A-01A	4"	3.90	7.39	5.86	9.61	-	21.00
Solder							
94ALF-203-01A	1/2"	0.59	2.05	1.84	3.54	0.63	0.40
94ALF-204-01A	3/4"	0.75	2.75	2.00	3.78	0.88	0.68
94ALF-205-01A	1"	0.95	3.23	2.45	4.53	1.13	1.15
94ALF-206-01A	1-1/4"	1.26	3.82	2.86	4.53	1.38	1.53
94ALF-207-01A	1-1/2"	1.57	4.43	3.17	5.51	1.63	2.31
94ALF-208-01A	2"	1.96	5.38	3.49	5.51	2.13	3.77
94ALF-209-01A	2-1/2"	2.52	6.28	4.76	8.66	2.63	6.79
94ALF-200-01A	3"	2.92	7.15	5.08	8.66	3.13	8.67
94ALF-20A-01A	4"	3.90	9.28	5.87	9.61	4.13	16.67

BALL VALVES

Lead Free APOLLOPEX Ball Valve

94XLF SERIES



BRASS PEX BALL VALVE

The Apollo® International 94XLF Lead Free* DZR forged brass ball valves combine reliable operation with maximum economy. Ideal for plumbing and heating applications including potable water. Valves are ANSI 3rd party Lead Free* certified and listed to NSF 14, NSF 61 and NSF 372.

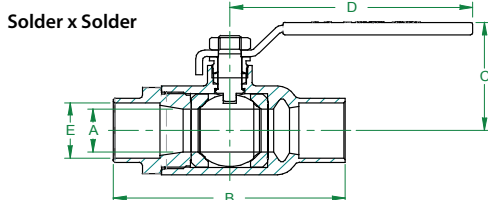
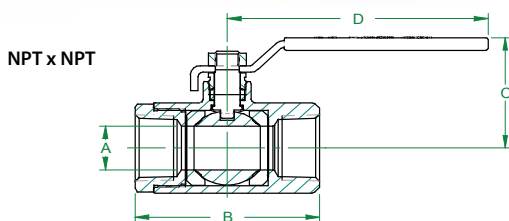
FEATURES

- Lead Free* DZR materials and certification
- ASTM F1807 Pex design
- White Handle Grip identifies Lead Free construction
- Standard Port design
- Double O-ring stem seal
- Blow-out Proof Stem Design
- Silicone Free assembly

Model Number	Size (in.)	Dimensions (in.)					Wt. (lbs.)
		B	C	D	E	F	
94XLF-103-01	1/2	0.65	2.52	.47	3.17	1.49	.25
94XLF-104-01	3/4	0.65	2.62	.67	3.17	1.57	.41
94XLF-105-01	1	0.80	2.91	.86	3.17	1.57	.57

Stop & Waste Ball Valves

95ALF SERIES



FULL-PORT LEAD FREE BRASS BALL VALVE

The Apollo International™ 95ALF Lead Free forged DZR brass ball valves combine reliable operation with maximum economy. Ideal for plumbing or hydronic systems where draining is required. Valves are certified by IAPMO and ANSI 3rd party certified lead free.

FEATURES

- Lead Free materials and certification
- Blow-out proof stem design
- Adjustable stem packing nut
- Drain port with finger tight shut-off
- Fast, quarter-turn operation
- Valve Design Rating: 600 CWP
- Temperature Range: 32°F to 250°F
- IAPMO IGC157
- NSF/ANSI 61-G Water Quality
- NSF/ANSI 372 Lead Free

LF Model Number	Size (in.)	Dimensions (in.)				
		A	B	C	D	E
NPT						
95ALF-103-01	1/2	0.59	2.24	1.78	3.74	-
95ALF-104-01	3/4	0.79	2.53	2.09	3.94	-
95ALF-105-01	1	0.98	3.15	2.36	4.33	-
Solder						
95ALF-203-01	1/2	0.59	2.12	1.78	3.74	0.63
95ALF-204-01	3/4	0.79	2.87	1.94	3.94	0.88
95ALF-205-01	1	0.98	3.53	2.36	4.33	1.13

COMMERCIAL PRODUCTS CATALOG

Mini Ball Valves

94 MBV SERIES

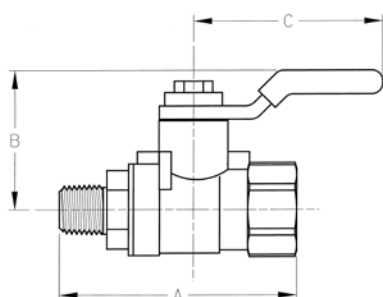


MINI BALL VALVE – APOLLO INTERNATIONAL™

Designed for commercial and light industrial use. Conventional port, constructed of heavy-duty forged brass, PTFE seats and gland follower with double viton o-rings, to prevent stem leakage.

FEATURES

- Reversible handle
- Blowout-proof stem
- Double viton o-rings
- Large raised wrench flats
- Chrome plated brass ball
- Maximum 600 psig at 100°F, non-shock
- Temps from -40°F to 300°F
- CSA/ANSI Z21.15 (1/2 psig), CGA9.1 approved
- ASME B16.44 (2 and 5 psig) approved
- MSS-SP110 compliant



Model Number	Size (in.)	Dimensions (in.)			Port Ø	Wt. (lbs.)
		A	B	C		
94-MBV-01	1/4 FNPT x 1/8 MNPT	1.96	1.25	1.67	0.31	0.19
94-MBV-02	1/4 FNPT x 1/4 MNPT	2.04	1.15	1.67	0.31	0.20
94-MBV-03	1/4 FNPT x 1/4 FNPT	1.63	1.28	1.67	0.31	0.17
94-MBV-04	1/8 FNPT x 1/8 MNPT	1.97	1.20	1.67	0.31	0.16
94-MBV-05	1/8 FNPT x 1/8 FNPT	1.61	1.23	1.67	0.31	0.16

General Purpose Uni-Body Valves

9A-100 SERIES



HEAVY PATTERN UNI-BODY THREADED BALL VALVE

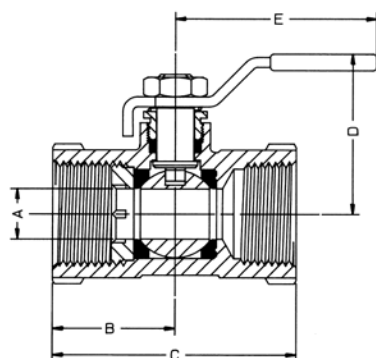
One piece bronze valve eliminates leak paths. Features static grounding devices and adjustable packing gland. Lever handle standard.

FEATURES

- Rated 600 psig CWP, non-shock
- 150 SWP
- Blowout-proof stem design

OPTIONS INCLUDE:

- Cam lock option (-30 suffix)
- Round handle option (-15 suffix)
- Latch lock handle option (-27 suffix)



Model Number	Size (in.)	Dimensions (in.)				
		A	B	C	D	E
9A-101-01	1/4	0.37	1.34	2.59	1.68	3.87
9A-102-01	3/8	0.37	1.34	2.59	1.68	3.87
9A-103-01	1/2	0.37	1.34	2.59	1.81	3.87
9A-104-01	3/4	0.50	1.44	2.84	1.84	3.87
9A-105-01	1	0.62	1.72	3.28	2.00	4.87
9A-106-01	1-1/4	0.81	1.94	3.84	2.18	4.87
9A-107-01	1-1/2	1.00	2.06	4.00	2.68	5.50
9A-108-01	2	1.25	2.29	4.56	2.87	5.50

BALL VALVES

Versatile Iron Ball Valves (International)

IBV-125 SERIES (6P & 6Q SERIES)



6P

6P CAST IRON FULL PORT CLASS 125 FLANGED BALL VALVE

Meets MSS SP-72, ANSI B16.10 performance standards. Can be used to replace IBBM gate valve or plug valve. Low profile handle for easy installation in tight areas.

FEATURES

- 200 CWP/ 125 SWP
- 350° F max.
- Full port design in all sizes offers superior flow rate
- No bronze seat rings, disc rings or stems to wear out
- Quarter-turn operation offers instant, positive shut off with zero leakage
- Gear operator standard for 8" and 10"
- Stainless steel ball resists corrosion
- Handle indicates valve operation status
- Large actuator mounting pad standard
- Blowout-proof stainless steel stem
- PTFE seats and packing, not nitrile or EPDM



6Q

6Q EPOXY COATED DUCTILE IRON FULL PORT CLASS 125 FLANGED BALL VALVE

All of the same design and construction features of the 6P ductile iron construction plus an FDA-approved, heat fused epoxy coating. Rated 200 CWP @ 200°F.

IBV Model Number	IBVE Model Number	Size (in.)	Dimensions (in.)				Wt.
			A	B	C	D	
6P-208-01	-	2	7.00	6.00	9.00	3.00	22.0
6P-209-01	6Q-209-01	2-1/2	7.50	7.00	16.00	3.70	34.0
6P-200-01	6Q-200-01	3	8.00	7.50	16.00	4.00	38.0
6P-20A-01	6Q-20A-01	4	9.00	9.00	19.70	4.80	58.0
6P-20C-01	6Q-20C-01	6	10.50	11.00	26.00	7.20	118.0
6P-20E-01	-	8*	11.50	13.50	-	9.24	345.0
6P-20G-01	-	10*	13.00	16.00	-	11.81	440.0

* with manual gear operator

These valves are being discontinued. After current stock is depleted; this valve will be replaced by the Lead Free 6PLF Series. See page 52.

COMMERCIAL PRODUCTS CATALOG

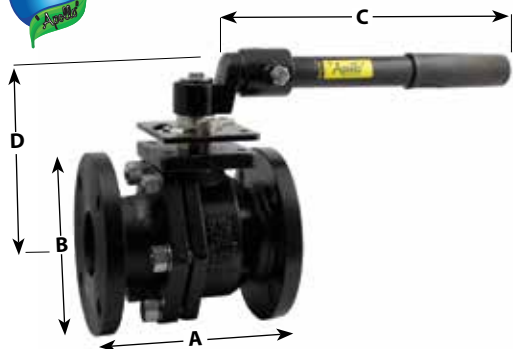
Apollo International™ Cast Iron Ball Valve

6PLF SERIES



Now Available!

NEW



CAST IRON CLASS 125 FLANGED BALL VALVE

The cast iron/epoxy coated, Class 125 Apollo International™ 6PLF Series Lead Free* Ball Valves offer unobstructed turbulence-free flow that gate and butterfly valves can't match. Compact design and low profile handle for easy installation in tight areas.

FEATURES

- A126 Class B Cast Iron Body with FDA food-grade epoxy powder coat
- Stainless Steel Ball & Stem
- PTFE Seats
- ISO 5211 Mounting Pad for Easy Actuation
- Adjustable stem packing
- Full Port through 6"
- NSF/ANSI 61-G Water Quality
- NSF/ANSI 372 Lead Free
- 200 CWP/125 SWP
- Vacuum Service to 29" Hg

LF Model Number	Size (in.)	Dimensions (in.)				Wt.
		A	B	C	D	
6PLF-208-01	2	7.00	6.00	12.20	6.50	22.70
6PLF-209-01	2-1/2	7.50	7.00	13.78	7.42	36.73
6PLF-200-01	3	8.00	7.50	13.78	8.17	46.63
6PLF-20A-01	4	9.00	9.00	15.75	9.00	71.83
6PLF-20C-01	6	10.50	11.00	30.00	11.32	111.99
6PLF-20E-01*	8	11.50	13.50	30.00	11.32	210.54
6PLF-20G-01*	10	13.00	16.00	33.00	13.05	294.10

* Gear Operated

Gas/Fuel Shut-Off Valves

GB-10 SERIES

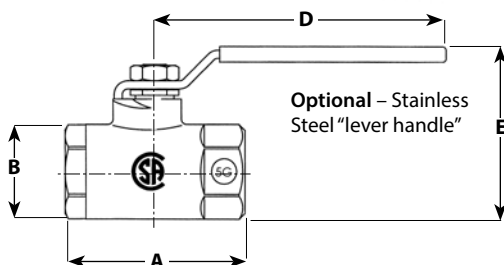
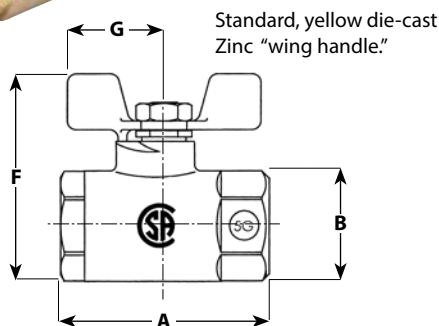


CSA GAS SHUT-OFF VALVES

Manual shut-off valves engineered specifically for low pressure gas service. Canadian Standard Association design and capacity certified with American-made quality. High-copper content body, chrome-plated ball, and PTFE seats.

FEATURES

- Complies with ANSI Z21.15, CR91-002, and ASME 16.44
- Use with natural, manufactured, mixed and liquefied petroleum gases, LP gas-air mixtures
- Temperature range: 32°F - 125°F at pressures of 1/2 and 5 psig
- Standard die-cast zinc "wing" handle (-01), epoxy coated
- Lever (-L1) or tee handle (-T1) options
- Made in USA



Model Number	Size (in.)	Connection	BTU/Hr*	Dimensions (in.)						
				A	B	C	D	E	F	G
51GB-201	3/8	3/8 NPT	318,700	2.04	1.06	0.38	3.85	2.24	2.20	0.81
51GB-301	1/2	1/2 NPT	623,750	2.24	1.18	0.50	3.85	2.30	2.24	0.81
51GB-401	3/4	3/4 NPT	1,265,000	2.97	1.55	0.69	4.75	2.85	2.90	1.00
51GB-501	1	1 NPT	2,037,500	3.33	1.81	0.88	4.75	3.10	3.15	1.00

* Capacity based on a gas having a heating value of 1000 Btu/cubic feet and an S.G. of 0.64 at a P.D. of 1" W.C.

BALL VALVES

Gas Appliance Ball Valves – Apollo International™

GB-15 SERIES



GB-15



GAS BALL VALVE

Designed for natural gas, manufactured and mixed gas, liquefied petroleum gases and LP gas-air mixture applications.

APPROVALS

- ANSI Z21.15 (Appliance & Hose)/CGA9.1(1/2 psi)
- ASME B16.44 (5 psi)
- UL Guide YRBX (Flammable Liquid Shut-Off)
- UL Guide MHKZ (Manual Valves)
- UL Guide YRPV (Gas Shut-Off –250#)
- UL Guide YSDT (LP Gas)

Model Number	Part Number	Size & End Connection (in.)
GB-15	51GF301A	1/2 FNPT x 1/2 FNPT
GB-15	51GF401A	3/4 FNPT x 3/4 FNPT

5-Port Tank Selector

78-124/78-125 SERIES



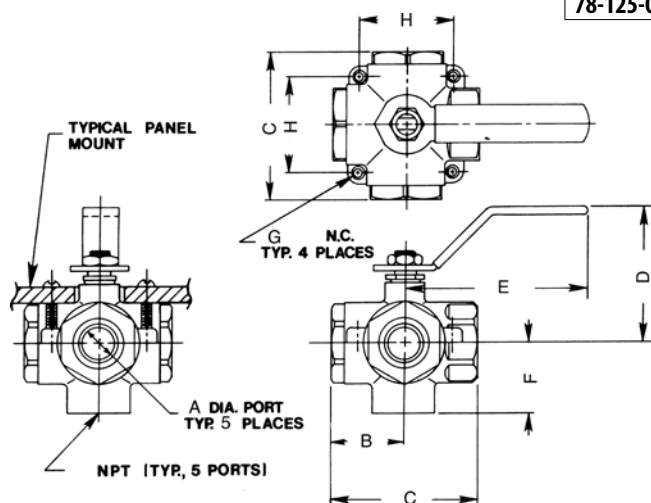
5-PORT TANK SELECTOR

Unique ball design allows for higher flow capacities. Five port construction allows access to four tanks using only one valve.

FEATURES

- Five NPT connections
- Bronze ball valve with stainless steel Lever and Nut
- PTFE seats and RPTFE stem packing
- Stem packing adjustable for wear
- Non-lubricated
- 50 psig pressure rating
- Operation: four selected inlets feed one common outlet
- Pointer on handle indicates the selected inlet
- Easy mounting design

Series Number	Size (in.)	Dimensions (in.)								Wt./100 (lbs.)
		A	B	C	D	E	F	G	H	
78-124-01	1/2	0.50	1.26	2.52	2.27	3.53	1.12	10-24	1.40	106
78-125-01A	3/4	0.75	1.56	3.12	2.93	3.87	1.53	1/4-20	1.98	264



COMMERCIAL PRODUCTS CATALOG

Gas/Fuel Shut-Off Valves

GB-50 & GB-50A SERIES



GB-50



GB-50A



CSA GAS SHUT-OFF VALVES

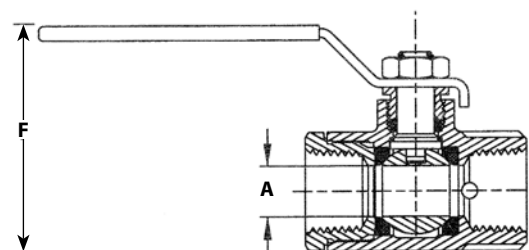
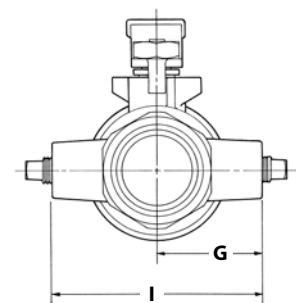
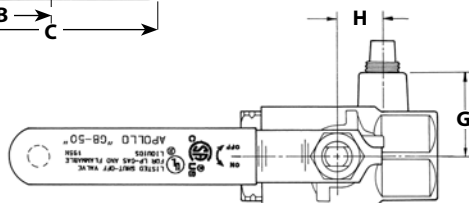
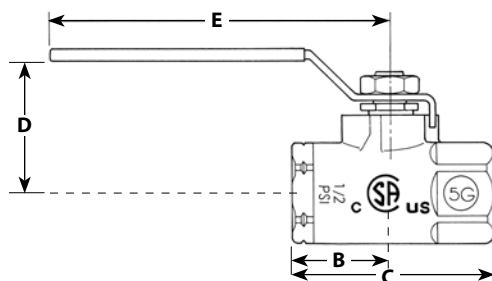
Designed for indoor "main burner" applications with cast-in single or dual pilot tap. ASTM B584 bronze body, chrome-plated ball, brass stem, retainer and gland screws for corrosion resistance.

FEATURES

- For natural gas, manufactured and mixed Gas, liquefied petroleum gases and LP gas-air mixtures
- Rated pressures of 1/2 and 5 psig
- Standard connection is FNPT x FNPT
- High capacity
- Reversible plated steel lever handle. Optional "tee" handle (-07)

APPROVALS

- ANSI Z21.15, CGA9.1
- ASME B16.44 (2 and 5 psig)
- MSS-SP110
- UL Guide YRBX
- UL Guide MHKZ
- UL Guide YRPV
- UL Guide YSDT
- UL 125, UL 842



Model No. Single Tapped	Model No. Dual Tapped	Size (in.)	Tapping	Dimensions (in.)									Capacity BTU/Hr.
				A	B	C	D	E	F	G	H	I	
50GB-301	--	1/2	1/8	0.50	1.11	2.25	1.68	3.85	2.27	1.00	0.53	-	693000
50GB-401	50GB-401A	3/4	1/8	0.75	1.26	2.67	1.93	3.85	2.72	1.12	0.75	2.24	1258000
50GB-501	50GB-501A	1	1/8	1.00	1.65	3.42	2.19	4.78	3.18	1.53	0.94	3.06	3144000
50GB-601	50GB-601A	1-1/4	1/8	1.25	1.87	3.86	2.37	4.78	3.56	1.62	1.15	3.24	6441000
50GB-701	50GB-701A	1-1/2	1/8	1.50	2.05	4.22	2.81	5.40	4.21	1.81	1.31	3.62	7745000
50GB-801	50GB-801A	2	1/8	2.00	2.48	5.02	3.18	5.40	4.93	2.18	1.68	4.36	14741000
50GB-5A1	50GB-5A1A	1	1/4	1.00	1.65	3.42	2.19	4.78	3.18	1.53	0.94	3.06	3144000
50GB-6A1	50GB-6A1A	1-1/4	1/4	1.25	1.87	3.86	2.37	4.78	3.56	1.62	1.15	3.24	6441000
50GB-7A1	50GB-7A1A	1-1/2	1/4	1.50	2.05	4.22	2.81	5.40	4.21	1.81	1.31	3.62	7745000
50GB-8A1	50GB-8A1A	2	1/4	2.00	2.48	5.02	3.18	5.40	4.93	2.18	1.68	4.36	14741000

* Note: Capacities based on 1000 Btu/cubic feet gas at 0.64 specific gravity, at a P.D. of 1" W.C.