SUBMITTAL SHEET

Job Name:	
Job Location:	
Engineer:	
Contractor:	
Tag:	
PO Number:	
Representative:	

94ALF

Lead Free Brass Full Port Ball Valves

The 94ALF Series ball valve by is a lead free forged brass ball valve that combines reliable operation with the utmost economy. The 94ALF Series is ideal for gas, fuels, fire protection, and general plumbing and HVAC applications including potable water. Featuring quarter-turn lever handle flow control, the 94ALF Series ball valve is a versatile and reliable ball valve.

Features:

- Blowout-proof stem design
- Corrosion resistant
- Reinforced Teflon seats
- Adjustable stem packing nut
- Corrosion resistant
- Solid chrome plated ball that helps fluid flow smoothly at a constant velocity
- Quarter-turn lever handle design
- Ideal for potable water

Performance Rating:

- 600 CWP
- Max. Temperature: 400º F

Approvals:

- NSF/ANSI/CAN 61 - Water Quality
- IAPMO/ANSI Z1157
- ANSI Z21.15 (1/2 psi) (CSA 9.1)
- ASME B16.33 (125 psi) (CGA 3.16)
- NSF/ANSI 372 - Lead Free
- FM 1140 Fire Protection Quick Opening Valves
- ASME B16.44 (5 psi) (CR91-002)
- UL 125, 258, 842, 1477

Installation:

The 94ALF Series ball valves are bi-directional. They may be installed in vertical or horizontal pipe runs without regard to flow direction and without regard to stem orientation.

Threaded End Valves

Clean pipe ends and valve threads. Apply PTFE tape or pipe dope to the male threads. Two wrenches must be used when mating up pipe joints. Apply one flat-faced wrench on the valve hex closest to the pipe joint being tightened and use a pipe wrench on the pipe to prevent transmitting torque through the valve body joint. Typical wrench make-up is 1-1/2 turns after installing the pipe hand-tight. Do not overtighten the valve onto the pipe. Do not reverse-rotate after tightening as this can damage the body/retainer seal.

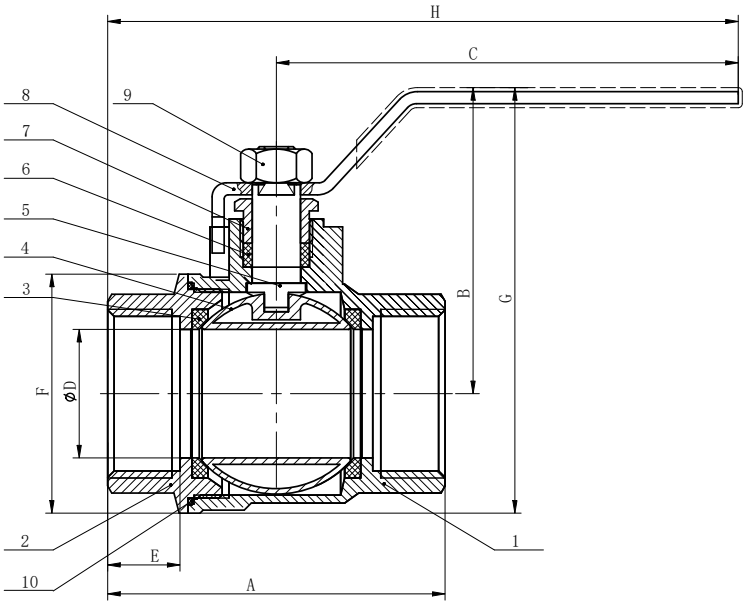
Solder End (Sweat In) Valves

Caution: Use only solders with melt points below 500°F. Valves should only be soldered in the fully open position.

During soldering, the mid-portion of the valve body should not exceed 300°F. Depending on the fuel selected and the orientation of the installation it may be necessary to wrap the valve body with wet rags or employ other heat absorbing techniques. The flame must be directed away from the valve body, concentrated on the solder cup. The cup should be heated evenly. Allow heated joints to cool naturally. After soldering, it may be necessary to adjust the stem packing due to temperatures involved. See Regular Maintenance instructions.

Fuel Flame temperature in Air, Propane 3596°F 1980°C, Natural Gas 3560°F 1960°C, MAPP Gas 3670°F 2021°C, Acetylene 4622°F 2550°C, Acetylene w/ O2 5612°F 3100°C

Warning!: Excessive heat input will damage the body seal resulting in leaks at the valve body joint. In extreme cases, seats and stem packing may also be damaged.



Standard Materials List:

1. BODY	Lead-Free Brass
2. END CAP	Lead-Free Brass
3. BALL SEAT	PTFE
4. BALL	Stainless Steel 316
5. STEM	Stainless Steel 316
6. STEM PACKING	PTFE
7. PACKING NUT	Brass
8. LEVER HANDLE	Nickel-Plated Steel w/PVC Grip
9. STEM NUT	Brass-Plated Steel
10. SEAL / O-RING	PTFE (94A10) / FPM (94A20)

Threaded Brass Ball Valves

Part Number	Description	A	B	C	D	E	F	G	H	Wt (lbs)	Carton Qty
94A10101TMG	1/4 in.	1.76	1.73	3.54	0.39	0.46	1.01	2.24	4.42	0.34	20
94A10201TMG	3/8 in.	1.76	1.73	3.54	0.39	0.46	1.01	2.24	4.42	0.32	20
94A10301TMG	1/2 in.	2.05	2.04	3.54	0.58	0.52	1.24	2.56	4.57	0.45	50
94A10401TMG	3/4 in.	2.36	2.26	3.78	0.75	0.56	1.49	2.85	4.96	0.69	30
94A10501TMG	1 in.	2.76	2.58	4.53	0.95	0.63	1.79	3.48	5.91	1.11	20
94A10601TMG	1-1/4 in.	3.31	3.05	4.53	1.26	0.71	2.34	4.13	6.18	1.60	12
94A10701TMG	1-1/2 in.	3.66	3.37	5.51	1.58	0.72	2.84	4.78	7.34	2.46	9
94A10801TMG	2 in.	4.18	3.70	6.30	1.97	0.75	3.43	5.41	8.39	3.62	6
94A10901TMG	2-1/2 in.	5.38	4.65	8.66	2.52	1.02	4.33	6.97	11.35	7.82	2
94A10001TMG	3 in.	6.04	4.97	8.66	2.94	1.10	4.92	7.58	11.68	9.57	2
94A10A01TMG	4 in.	7.39	6.13	11.02	3.94	1.22	6.61	9.36	14.71	18.19	1

Solder Brass Ball Valves

Part Number	Description	A	B	C	D	E	F	G	H	Wt (lbs)	Carton Qty
94A20201TMG	3/8"	1.87	1.73	3.54	0.39	0.51	1.01	2.28	4.52	0.31	20
94A20301TMG	1/2"	2.11	1.84	3.54	0.58	0.51	1.28	2.52	4.63	0.4	50
94A20401TMG	3/4"	2.81	2.14	3.78	0.75	0.75	1.54	2.80	5.21	0.64	30
94A20501TMG	1"	3.31	2.45	4.53	0.95	0.91	1.83	3.40	6.22	1.01	20
94A20601TMG	1-1/4"	3.82	3.04	4.53	1.26	0.97	2.30	4.05	6.48	1.54	12
94A20701TMG	1-1/2"	4.43	3.17	5.51	1.58	1.10	2.76	4.59	7.76	2.33	9
94A20801TMG	2"	5.38	3.49	6.30	1.97	1.35	3.41	5.23	8.99	3.59	6
94A20901TMG	2-1/2"	6.28	4.66	8.66	2.52	1.48	4.17	6.97	11.84	6.58	2
94A20001TMG	3"	7.15	4.87	8.66	2.94	1.67	4.78	7.55	12.28	8.65	2
94A20A01TMG	4"	9.28	5.87	11.02	3.94	2.17	6.30	9.17	15.66	16.66	1

*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.

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