

## SUBMITTAL SHEET

94A

# Full Port Brass Ball Valves

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

The 94A Series ball valve by is a forged brass ball valve that combines reliable operation with the utmost economy. The 94A Series is ideal for gas, fuels, fire protection, and general plumbing and HVAC applications. Featuring quarter-turn lever handle flow control, the 94A Series ball valve is a versatile and reliable ball valve.  
*Not for use in potable water applications in the United States.*

### Features:

- 2-Piece, full port design
- Corrosion resistant
- Quarter-turn lever handle design
- Solid chrome plated ball that helps fluid flow smoothly at a constant velocity
- Blowout-proof stem design
- Reinforced Teflon seats
- Adjustable stem packing nut

### Performance Rating:

- 600 CWP - 1/4 in. - 4 in.
- 400 CWP - 2½ in. - 4 in.
- Max. Temperature: 400° F

### Approvals:

- FM 1140 Fire Protection Quick Opening Valves
  - ANSI Z21.1591-002 (1/4 in. - 4 in.)
  - ASME B16.33 (125 psi) (CGA 3.16) (1/4 in. - 2 in.)
  - UL 125, 258 (1/4 in. - 2 in.), 842 (1/4 in. - 4 in. NPT), 1477 (1/4 in. - 4 in. NPT)
- Gas approvals apply to NPT models only.*



### Installation:

The 94A 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.

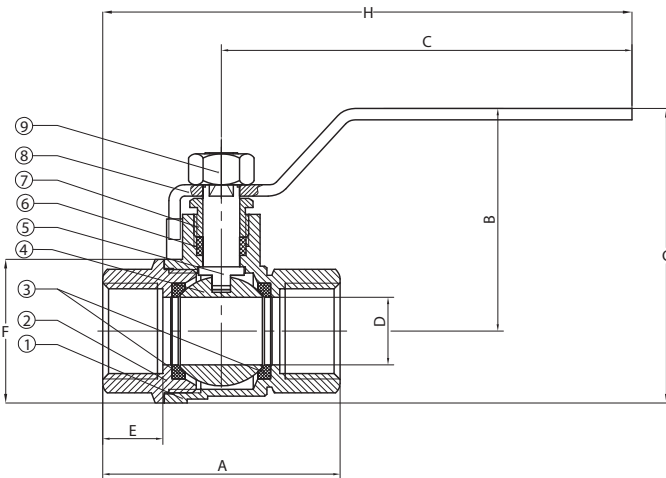
### Solder End (Sweat In) Valves

*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:

<b>1. BODY</b>	Forged Brass (Cu > 57%)
<b>2. END CAP</b>	Forged Brass (Cu > 57%)
<b>3. BALL SEAT</b>	PTFE
<b>4. BALL</b>	Brass
<b>5. STEM</b>	Brass
<b>6. STEM PACKING</b>	PTFE
<b>7. PACKING NUT</b>	Brass
<b>8. LEVER HANDLE</b>	Nickel-Plated Steel w/PVC Grip
<b>9. STEM NUT</b>	Brass-Plated Steel



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	2.28	4.46	0.34	20
94A10201TMG	3/8 in.	1.76	1.73	3.54	0.39	0.46	1.01	2.28	4.46	0.32	20
94A10301TMG	1/2 in.	2.05	1.94	3.54	0.58	0.52	1.24	2.60	4.61	0.45	50
94A10401TMG	3/4 in.	2.36	2.11	3.78	0.75	0.56	1.49	2.89	5.00	0.69	30
94A10501TMG	1 in.	2.76	2.58	4.53	0.95	0.63	1.79	3.51	5.95	1.11	20
94A10601TMG	1-1/4 in.	3.31	2.96	4.53	1.26	0.71	2.28	4.14	6.22	1.60	12
94A10701TMG	1-1/2 in.	3.66	3.37	5.51	1.58	0.72	2.78	4.79	7.38	2.46	9
94A10801TMG	2 in.	4.18	3.70	6.30	1.97	0.75	3.37	5.42	8.43	3.62	6
94A10901TMG	2-1/2 in.	5.38	4.76	8.66	2.52	1.02	4.33	6.97	11.39	7.82	2
94A10001TMG	3 in.	6.04	5.08	8.66	2.94	1.10	4.86	7.55	11.72	9.57	2
94A10A01TMG	4 in.	7.39	5.87	11.02	3.94	1.22	6.38	9.21	13.34	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	0.32	0.47	1.01	2.28	4.48	0.31	20
94A20301TMG	1/2"	2.11	1.84	3.54	0.58	0.51	1.28	2.52	4.66	0.4	50
94A20401TMG	3/4"	2.81	2.00	3.78	0.75	0.75	1.54	2.80	5.25	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	2.86	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	7.77	2.33	9
94A20801TMG	2"	5.32	3.45	5.51	1.94	1.35	3.31	5.14	8.21	3.59	6
94A20901TMG	2-1/2"	6.28	4.76	8.66	2.52	1.48	4.17	6.93	11.84	6.58	2
94A20001TMG	3"	7.15	5.08	8.66	2.94	1.67	4.78	7.55	12.28	8.65	2
94A20A01TMG	4"	9.28	5.87	9.61	3.94	2.17	6.30	9.17	14.28	16.66	1