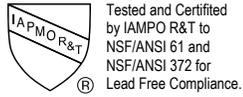




**Bronze Ball Valve For Potable Water**  
**Three Piece**  
**Full Port**  
**600 psig WOG**  
**Threaded Ends**  
**Blow-Out Proof Stem**

# UP8604/8603 1/4"-3"

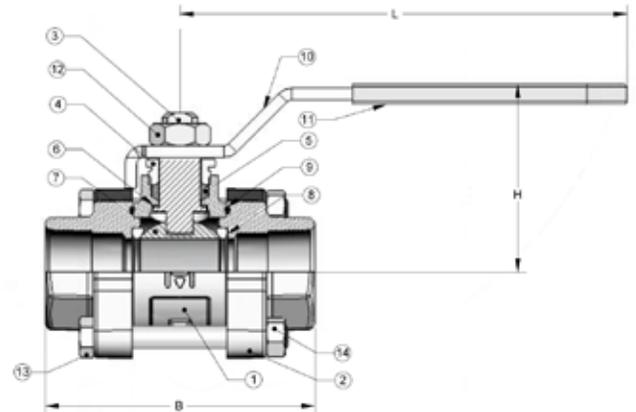
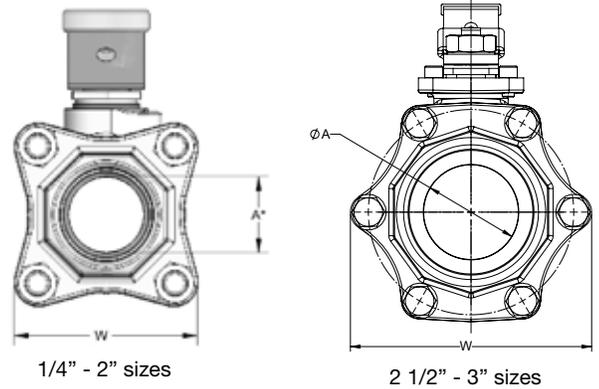
**Dimensions and Workmanship Conform to MSS SP-110**



### MATERIALS LIST

ITEM	PART	MATERIALS	ASTM SPEC.
1	Body	Cast Bronze	B584 C89833
2	End Cap	Cast Bronze	B584 C89833
3	Stem	Brass	B21 C46400, H02
		316 Stainless Steel (1)	A276
4	Packing Nut	Brass	B16
5	Packing	PTFE	Commercial
6	Thrust Washer	RPTFE, 25% Glass Reinforced	Commercial
7	Ball	Brass w/Hard Chrome Plating	B283 C27450
		316 Stainless Steel (1)	A276
8	Seat	RPTFE, 15% Glass Filled	Commercial
9	O-Ring	Viton	Commercial
10	Handle	Steel w/Zinc Plating	Commercial
11	Handle Grip	Vinyl	Commercial
12	Handle Nut	Steel w/Zinc Plating	Commercial
13	Bolt	Steel w/Zinc Plating	Commercial
14	Nut	Steel w/Zinc Plating	Commercial

(1) Ball and stem are stainless for UPBA300S



### DIMENSIONS

	UNITS	1/4" DN6	3/8" DN10	1/2" DN15	3/4" DN20	1" DN25	1-1/4" DN32	1-1/2" DN40	2" DN50	2-1/2" DN 65	3" * DN 80
A	INCHES	0.38	0.45	0.50	0.75	1.00	1.25	1.50	2.00	2.50	2.50
	mm	10	11	13	19	25	32	38	51	64	64
B	INCHES	2.68	2.68	3.03	3.56	3.82	4.86	5.06	5.90	6.84	6.84
	mm	68	68	77	90	97	123	129	150	174	174
H	INCHES	1.85	1.85	1.85	2.20	2.65	2.79	2.97	3.47	5.44	5.44
	mm	47	47	47	56	67	71	75	88	138	138
L	INCHES	4.03	4.03	4.06	4.58	6.30	6.32	7.20	7.20	8.00	8.00
	mm	102	102	103	116	160	161	183	183	203	203
W	INCHES	1.95	1.95	1.95	2.19	2.48	3.00	3.13	3.78	6.25	6.25
	mm	50	50	50	56	63	76	80	96	159	159
F	THREAD SIZE	1/4" NPT	3/8" NPT	1/2" NPT	3/4" NPT	1" NPT	1-1/4" NPT	1-1/2" NPT	2" NPT	2-1/2" NPT	3" NPT
Cv		7	7	17	31	60	110	185	360	390	390

Note: DN (Diameter Nominal) = Metric equivalent size.

\* 3" is Standard Port.

**Note:** Lead free refers to the wetted surface of the pipe, fittings and fixtures in potable water systems that have a weighted average lead content  $\leq 0.25\%$ . Source: California Health and Safety Code (116875).

The information presented on this sheet is correct at time of publication. Hammond Valve reserves the right to change design and/or materials without notice. For our Installation, Operation and Maintenance Manual and the most current product information go to [www.hammondvalve.com](http://www.hammondvalve.com). Hammond Valve is a registered trademark of Milwaukee Valve.

⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

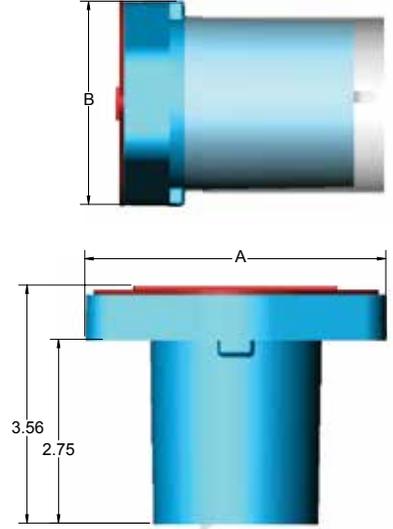
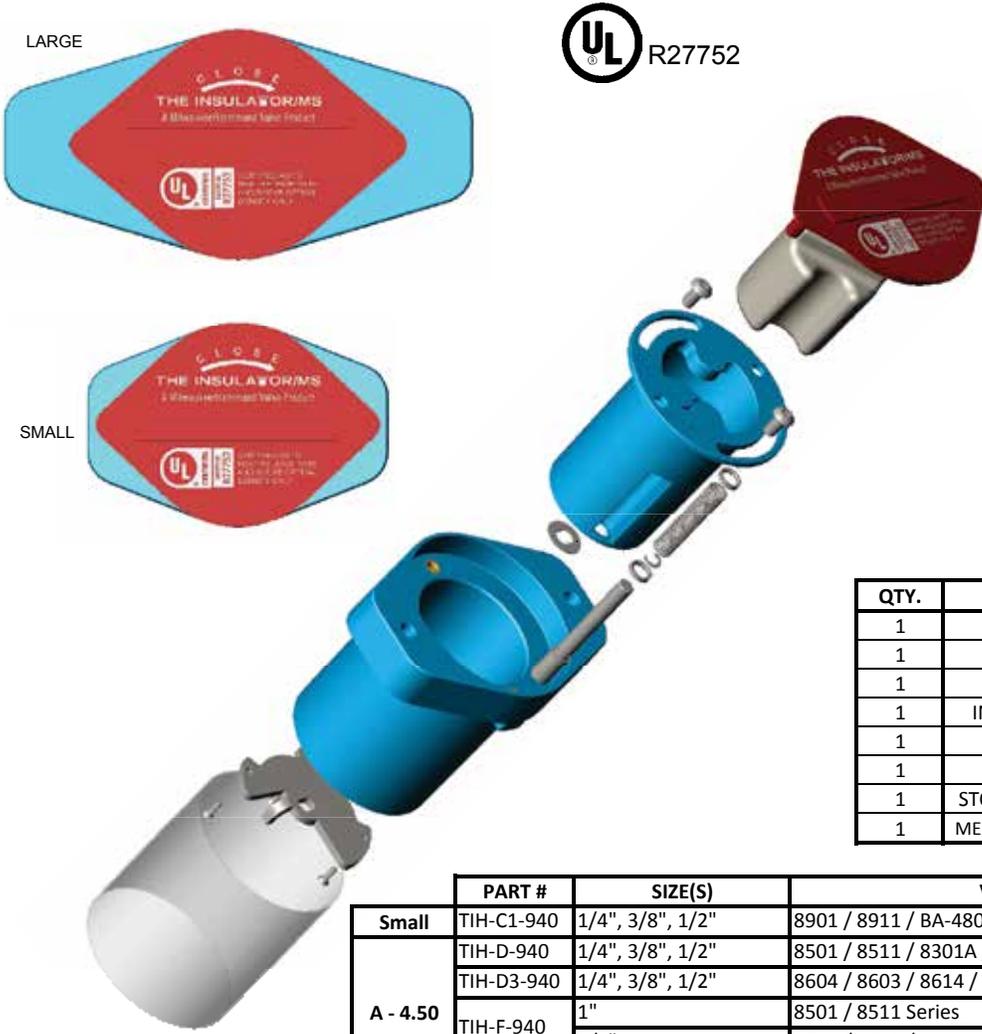


# THE INSULATOR/MS<sup>®</sup>

## Bronze & Brass Ball Valves

Hammond Valve's insulated extension handle is designed to prevent condensation and other extraneous moisture from entering your insulated piping system, while also minimizing thermal energy loss from the system via metal extension tubes, levers, and similar parts.

Our handle design incorporates a unique memory stop feature that requires no disassembly or removal of the handle to engage and make adjustments.



### Bill of Material

QTY.	DESCRIPTION	MATERIAL
1	HOUSING	FIRE RESISTANT ABS
1	SLEEVE	FIRE RESISTANT ABS
1	CAP	POLYETHYLENE
1	INSULATION INSERT	POLYSTYRENE
1	SHIELD	PLASTIC SLEEVE
1	LOCK WASHER	SS
1	STOP PLATE & SCREWS	SS
1	MEMORY STOP ASSEMBLY	SS

	PART #	SIZE(S)	VALVE*
Small	TIH-C1-940	1/4", 3/8", 1/2"	8901 / 8911 / BA-480B / BA-490B Series
A - 4.50	TIH-D-940	1/4", 3/8", 1/2"	8501 / 8511 / 8301A / 8311A Series
	TIH-D3-940	1/4", 3/8", 1/2"	8604 / 8603 / 8614 / 8613
	TIH-F-940	1"	8501 / 8511 Series
A - 4.50	TIH-F3-940	3/4"	8501 / 8511 / 8301A / 8311A Series
		3/4"	8604 / 8603 / 8614 / 8613
B - 3.06	TIH-H1-940	3/4", 1", 1 1/4", 1 1/2"	8901 / 8911 / BA-480B / BA-490B Series
Large	TIH-J-940	2"	8501 / 8511 Series
		1 1/4", 1 1/2"	8501 / 8511 / 8301A / 8311A Series
B - 3.44	TIH-J1-940	1"	8301A / 8311A Series
		2"	8901 / 8911 / BA-480B / BA-490B Series
	TIH-J3-940	1", 1 1/4", 1 1/2"	8604 / 8603 / 8614 / 8613
	TIH-K-940	2"	8301A / 8311A Series
	TIH-K3-940	2"	8604 / 8603 / 8614 / 8613

To order factory assembled to the valve suffix 16

TIH handle is rated to 275°F. Installation of Solder end valves with the TIH installed: slide the plastic sleeve up to avoid contact with the valve body, wrap the TIH handle with a damp cloth to protect and draw heat away while directing the flame away from the center of the valve during heating.

\*Will fit our equivalent Ultrapure Low Lead Valves.

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