

# 8501/8503\* P2 1/2"-3"



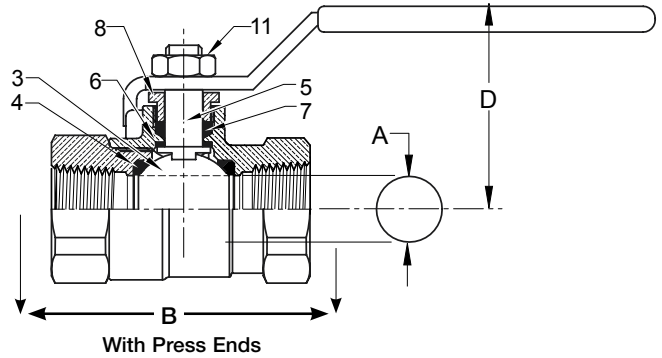
**Bronze Ball Valve**  
**Two Piece**  
**Standard Port (1"-3") Full Port (1/2"-3/4")**  
**200 psig @ 250°F†**  
**Press x Press Ends**  
**Press x Threaded Ends Available (Consult Factory)**  
**Blow-Out Proof Stem**  
**Conforms to MSS SP-110**

\*Not intended for use in potable water.

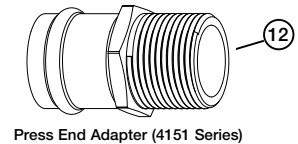
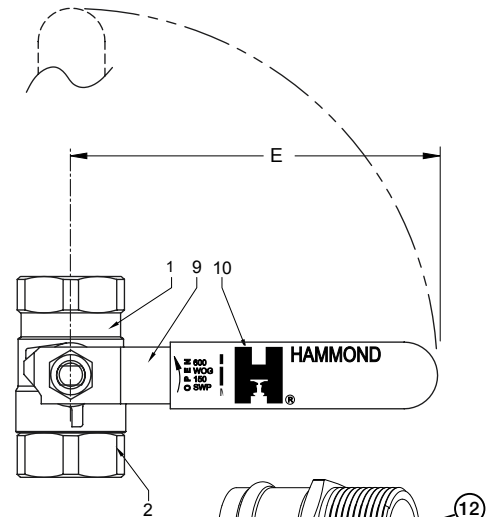
## MATERIAL LIST

ITEM	PART	MATERIAL	ASTM SPEC
1	Body	Cast Bronze	B584 C84400
2	Tailpiece	Brass	B283 C37700
		Cast Bronze (1 1/4" & up)	B584 C84400
3	Ball	Brass w/Hard Chrome Plating	B283 C37700
		316 Stainless Steel (1)	A276 S31600
4	Seat	RPTFE, 15% Glass filled	
5	Stem	Brass	B21 C46400 H02
		316 Stainless Steel (1)	A276 S31600
6	Thrust Washer	RPTFE, 25% Glass Filled	
7	Packing	PTFE	
8	Packing Nut	Brass	B16 C36000 H02
9	Handle	Steel w/Zinc Plating	Commercial
10	Handle Grip	Vinyl	
11	Handle Nut	Steel w/Zinc Plating	Commercial
12	Press Adapters	Brass Fitting w/EPDM O-Ring (1/2" - 2")	B283 C27450
		Copper (2 1/2" - 3")	B88
13	O-Ring	EPDM	
14	Backing Seal	Acetal	
15	Backing Ring	304 Stainless Steel	A276

(1) Ball and stem are stainless for 8503 P2



Note: 2 1/2" & 3" are built from 8511/8513

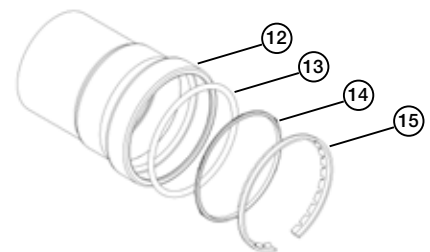


## DIMENSIONS

	UNITS	1/2" DN15	3/4" DN20	1" DN25	1-1/4" DN32	1-1/2" DN40	2" DN50	2-1/2" DN65	3" DN80
A (DIA)	INCHES	0.50	0.76	0.88	1.07	1.32	1.57	2.00	2.31
	mm	13	19	22	27	33	40	51	59
STD Insertion	INCHES	0.87	0.98	0.98	1.02	1.42	1.58	1.80	2.10
	mm	22	25	25	26	36	40	46	53
B	INCHES	5.19	6.17	7.17	7.57	8.44	10.30	12.02	13.94
	mm	132	157	182	192	214	262	305	354
D	INCHES	1.91	2.32	2.68	2.82	3.00	3.36	3.47	3.88
	mm	47	59	68	72	76	85	88	99
E	INCHES	3.82	4.55	4.56	6.33	6.33	7.19	7.19	7.19
	mm	94	116	116	161	161	183	183	183

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

†Non-Shock



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# OPTIONS

8301A/8303A

8501/8503

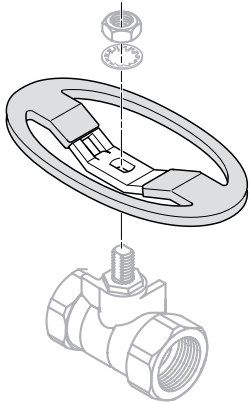
8604/8603

## TIH THE INSULATOR/MS® Extension Handle

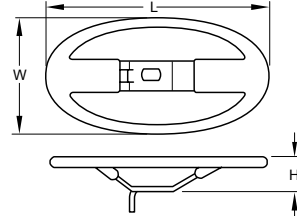
The **THE INSULATOR/MS®** extension handle is designed to prevent condensation and other extraneous moisture from entering the insulated piping system, while also minimizing thermal energy loss from the system via metal extension tubes, levers, and similar parts.



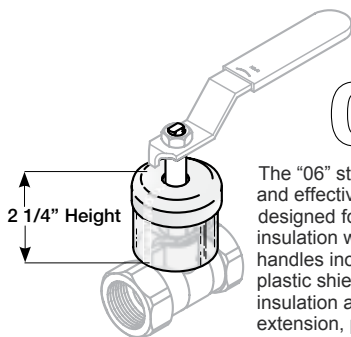
The design incorporates a unique memory stop feature that requires no disassembly or removal of the handle to engage and make adjustments.



### 04 Oval Handle



Oval handles can also prevent accidental valve operations, since they have less projection than a lever handle, and require more turning force to operate. OSHA requires the use of oval handles in many installations for safety reasons.

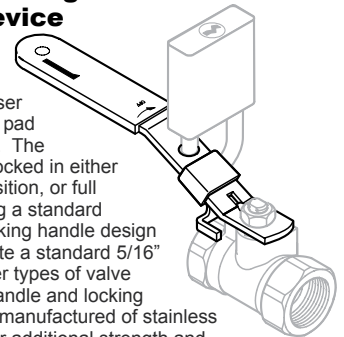


### 06 Extension Stem

The "06" stem extension is simple and effective design. This option is designed for installations where pipe insulation would make standard handles inoperable. The external plastic shield helps to keep the insulation away from the stem extension, providing years of trouble free operation.

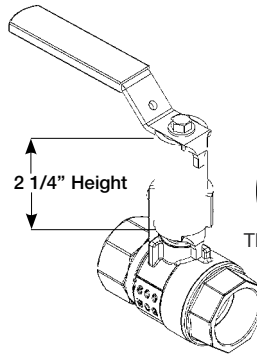
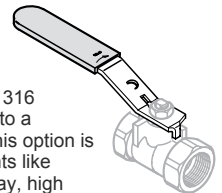
### 07 Locking Device

The "07" Locking Handle offers the end user the security of a pad lockable handle. The handle can be locked in either the full open position, or full closed by adding a standard padlock. The locking handle design will accommodate a standard 5/16" pad-lock or other types of valve lockouts. The handle and locking device are also manufactured of stainless steel material for additional strength and corrosion resistance.



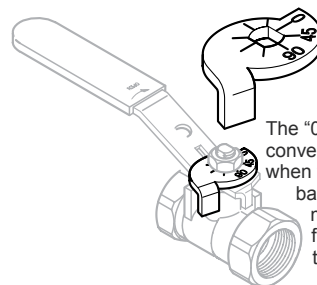
### 08 Stainless Steel Handle

The "08" handle option adds a 316 stainless steel handle and nut to a standard bronze ball valve. This option is intended for harsh environments like areas subject to salt water spray, high humidity, cleaning chemicals, etc.



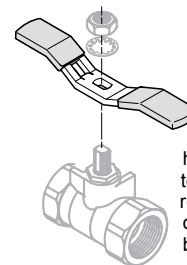
### 09 Extension Handle with Memory Stop

The "09" stem extension is all-metallic with an adjustable memory stop. This option is designed for installations where pipe insulation would make standard handles inoperable. The adjustable memory stop allows the valve opening to be limited to a preset position. This option can be ordered with or without the memory stop.



### 02 Memory Stop

The "02" Memory Stop offers the convenience of a preset stop when the valve is used in a balancing application. The memory stop can be set from the full closed position, to any preset opening point.



### 03 Tee Handle

Tee handles offer the same installation space savings as oval handles, with a slightly shorter end to end dimension. Tee handles require more handle force to operate, so accidental openings can be reduced.

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