8614/8613* ⅜”-3”

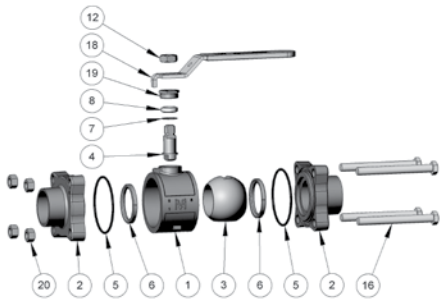
Bronze Ball Valve
Three Piece
Full Port
600 WOG
Solder Ends
Blow-Out Proof Stem
MSS SP-110

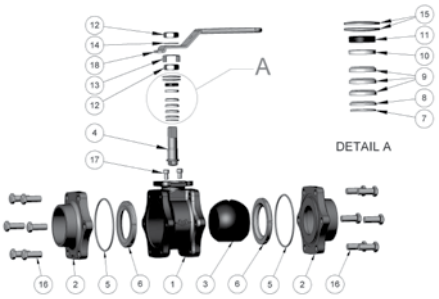
***Not intended for use in potable water.**

MATERIALS LIST

ITEM	PART	MODEL/SIZE	MATERIALS	ASTM SPEC.
1	Body	8614/8613	Cast Bronze	B584
2	Tailpiece	8614/8613	Bronze	B584
3	Ball	8614	Chrome Plated Brass	B16
		8613	316 Stainless Steel (1)	A276
4	Packing	8614	Brass	B16
		8613	316 Stainless Steel (1)	A276
5	O-Ring	8614/8613	Viton	MIL-R-83248
6	Seat	8614/8613	15% Glass RPTFE	
7	Thrust, Washer	8614/8613	25% Glass RPTFE	
8	Packing, Male	2-1/2”-3”	PTFE (2 1/2" - 3")	
	Packing	3/8”-2”	PTFE (3/8" - 2")	
9	Packing, “V”	8614/8613	PTFE	
10	Packing, Female	8614/8613	PTFE	
11	Packing Follower	8614/8613	Brass	B16
12	Hex Jam Nut	8614/8613	Stainless Steel	Commercial
13	Nut Locker	8614/8613	S.S. Type 301/302	
14	Washer, Internal Tooth	8614/8613	Stainless Steel	Commercial
15	Belleville, Washer	8614/8613	S.S. 17-7 PH	Commercial
16	Hex Head Cap Screw	8614/8613	SAE, Grade 8	Commerical
17	Socket Head Cap Screw	2-1/2”-3”	Commercial Carbon Steel	Zinc Plated
18	Handle Assy	8614/8613	-	-
19	Gland Nut	3/8”-2”	Brass	B16
20	Hex Nut	3/8”-2”	Commercial	SAE 5140

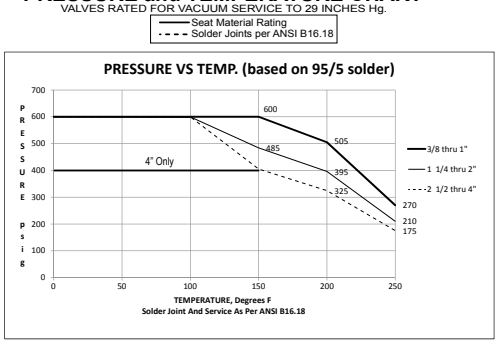
(1) Ball and stem are stainless for 8613

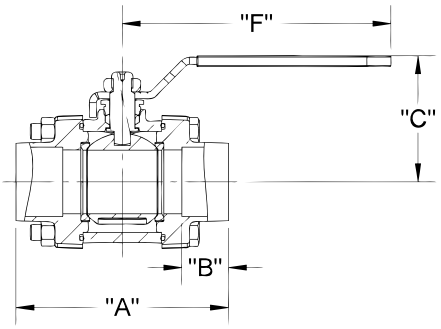




PRESSURE and TEMPERATURE CHART

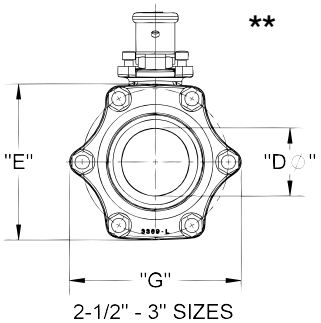
VALVES RATED FOR VACUUM SERVICE TO 29 INCHES Hg.





DIMENSIONS

	UNITS	3/8” DN10	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	INCHES	2.68	3.02	3.56	3.81	4.66	5.00	5.70	7.01	7.01
	mm	68	77	90	97	118	127	145	178	178
B	INCHES	0.44	0.51	0.76	0.92	0.98	1.10	1.35	1.48	1.67
	mm	11	13	19	23	25	28	34	38	42
C	INCHES	1.85	1.85	2.20	2.65	2.79	2.97	3.47	5.44	5.44
	mm	47	47	56	67	71	75	88	138	138
D	INCHES	0.45	0.50	0.75	1.00	1.25	1.50	2.00	2.50	2.50
	mm	11	13	19	25	32	38	51	64	64
E	INCHES	1.32	1.32	2.13	2.41	2.94	3.13	3.86	5.74	5.74
	mm	34	34	54	61	75	80	98	146	146
F	INCHES	3.80	3.80	4.55	6.32	6.32	6.32	7.20	8.10	8.10
	mm	96	96	116	160	160	160	183	206	206
G	INCHES	1.92	1.92	2.13	2.41	2.94	3.13	3.86	6.31	6.31
	mm	49	49	54	61	75	80	98	160	160
Cv		7	17	31	60	110	185	360	390	390



*3” is standard Port. **2-1/2” & 3” Only.

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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

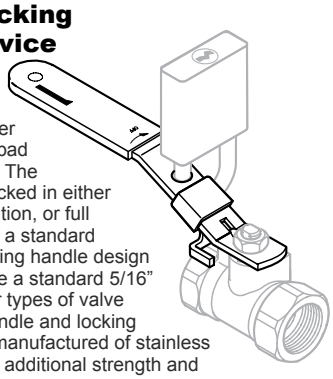
OPTIONS

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.

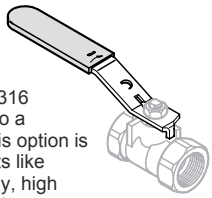
The design incorporates a unique memory stop feature that requires no disassembly or removal of the handle to engage and make adjustments.

07 Locking Device

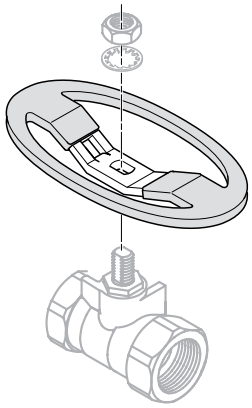


The "07" Locking Handle offers the end user the security of a pad lockable handle. The handle can be locked in either the full open position, or full closed by adding a standard padlock.The locking handle design will accommodate a standard 5/16" pad-lock or other types of valve lockouts. The handle and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

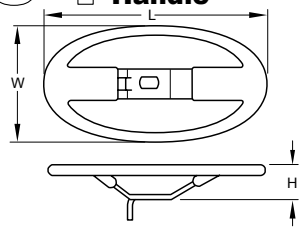
08 Stainless Steel Handle



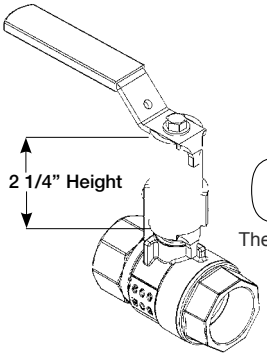
The "08" handle option adds a 316 stainless steel handle and nut to a standard bronze ball valve. This option is intended for harsh environments like areas subject to salt water spray, high humidity, cleaning chemicals, etc.



04 Oval Handle

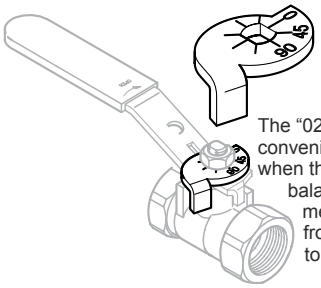


Oval handles can also prevent accidental valve operations, since they have less projection than a lever handle, and require more turning force to operate. OSHA requires the use of oval handles in many installations for safety reasons.



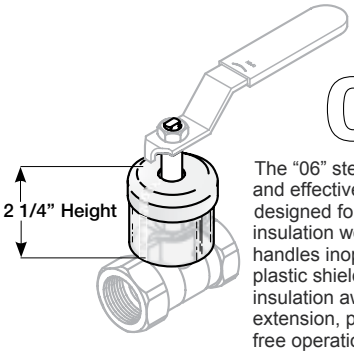
09 Extension Handle with Memory Stop

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.



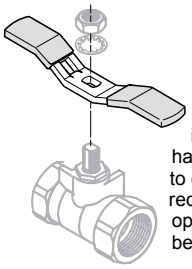
02 Memory Stop

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.



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.



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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