

# Bronze & Iron Gate, Globe & Check Valve Index

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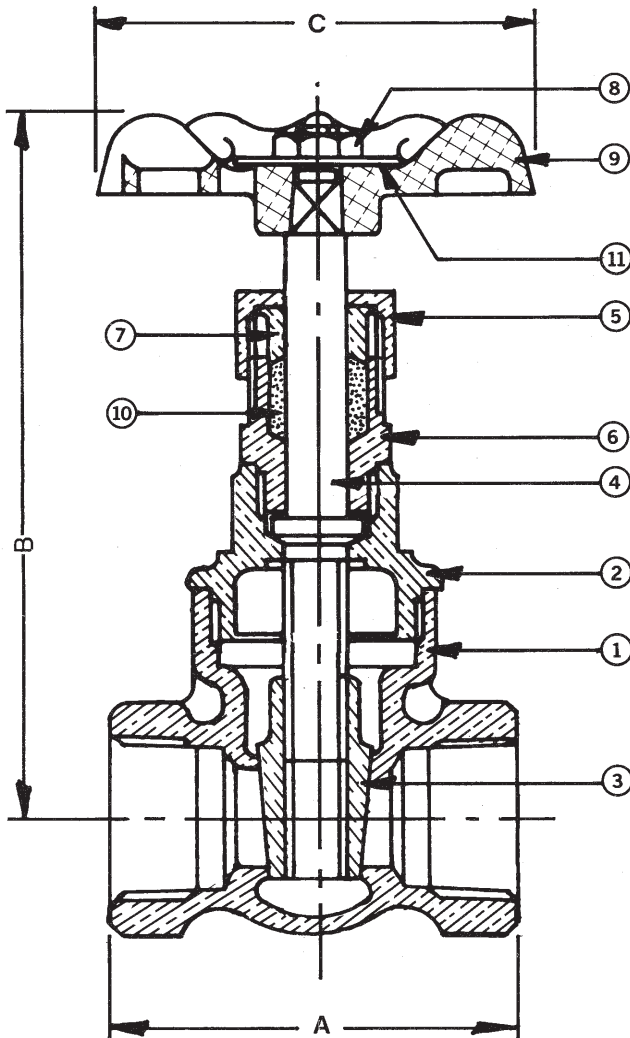
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# IB645 1/4"-4"

**Bronze Gate Valve**  
**125 SWP-200 WOG †**  
**Non-Rising Stem 1/4" - 3" • Rising Stem 4"**  
**Solid Wedge Disc**  
**Threaded Bonnet • Threaded Ends**  
**Conforms to: MSS SP-80\***



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Bonnet	Bronze	ASTM B62
3	Wedge	Bronze	ASTM B62
4	Stem	Bronze	ASTM B62
5	Packing Nut	Brass	ASTM B283 C37700
6	Stuffing Box	Brass	ASTM B283 C37700
7 <sup>1</sup>	Gland	Brass	ASTM B283 C37700
8	Handwheel Nut	Brass	Commercial
9	Handwheel	Mall. Iron	Commercial
10	Packing	Graphite	Commercial
11	Name Plate	Sh. Alum	Commercial

<sup>1</sup> Not used on 1/2" and smaller

DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	A	B	C	C <sub>v</sub>
Inches	1/4	1.75	3.63	2.00	5.6
mm		45	92	51	
Inches	3/8	1.81	3.63	2.00	10.7
mm		46	92	51	
Inches	1/2	2.00	3.63	2.00	17.6
mm		51	92	51	
Inches	3/4	2.18	4.38	2.50	32.0
mm		55	111	64	
Inches	1	2.56	5.00	2.75	54.0
mm		65	127	70	
Inches	1 1/4	2.78	5.31	3.44	97.0
mm		71	135	87	
Inches	1 1/2	2.81	6.34	3.75	135.0
mm		72	161	95	
Inches	2	3.31	7.44	3.75	230.0
mm		84	189	95	
Inches	2 1/2	4.19	9.13	4.75	337.0
mm		106	232	121	
Inches	3	4.63	10.47	5.25	536.0
mm		118	266	133	
Inches	4	5.50	15.50	5.25	960.0
mm		140	394	133	

† Non-Shock

\* 4" is not covered in MSS SP-80

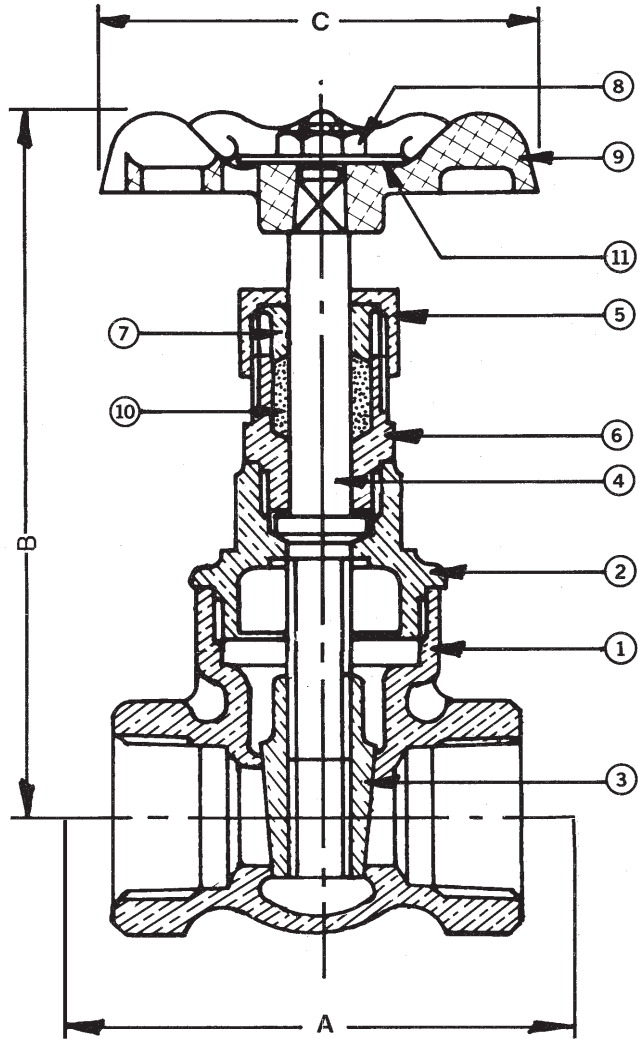
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# IB645 P2 1/2"-2"

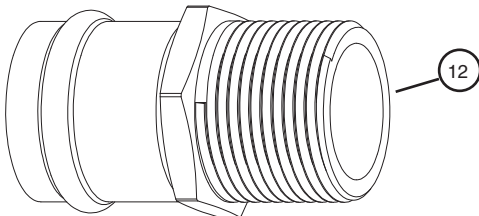
## ULTRAPRESS®

**Bronze Gate Valve**  
**200 psig @ 250°F †**  
**Solid Wedge Disc • Non-Rising Stem**  
**Threaded Bonnet • Press Ends**  
**Conforms to: MSS SP-80**



With Press Ends

Note: Not intended for use in potable water.



Press End Adapter (4151 Series)

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Bonnet	Bronze	ASTM B62
3	Wedge	Bronze	ASTM B62
4	Stem	Bronze	ASTM B62
5	Packing Nut	Brass	ASTM B283 C37700
6	Stuffing Box	Brass	ASTM B283 C37700
7 <sup>1</sup>	Gland	Brass	ASTM B283 C37700
8	Handwheel Nut	Brass	Commercial
9	Handwheel	Mall. Iron	Commercial
10	Packing	Graphite	Commercial
11	Name Plate	Sh. Alum	Commercial
12	Press Adapters	Brass Fitting W/ EPDM O-Ring	ASTM C27450

<sup>1</sup> Not used on 1/2"

DIMENSIONS - INCHES/MILLIMETERS						
Units	Size	STD Insertion Depth	A	B	C	C <sub>v</sub>
Inches mm	1/2	0.87 22	5.00 127	3.63 92	2.00 51	17.6
Inches mm	3/4	0.98 25	5.76 146	4.38 111	2.50 64	32.0
Inches mm	1	0.98 25	6.56 167	5.00 127	2.75 70	54.0
Inches mm	1 1/4	1.02 26	6.85 174	5.31 135	3.44 87	97.0
Inches mm	1 1/2	1.42 36	7.29 185	6.34 161	3.75 95	135.0
Inches mm	2	1.58 40	9.31 237	7.44 189	3.75 95	230.0

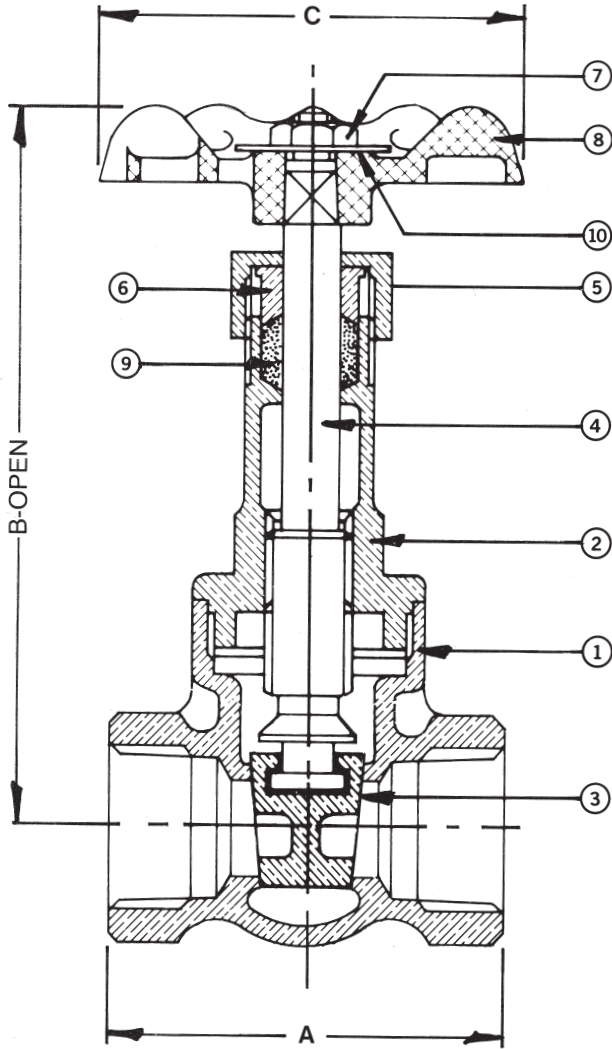
† Non-Shock

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# IB640 1/4"-4"

**Bronze Gate Valve**  
**125 SWP - 200 WOG †**  
**Solid Wedge Disc • Rising Stem**  
**Threaded Bonnet • Threaded Ends**  
**Conforms to: MSS SP-80\***



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Bonnet	Bronze	ASTM B62
3	Wedge	Bronze	ASTM B62
4	Stem	Bronze	ASTM B62
5	Packing Nut	Brass	ASTM B283 C37700
6 <sup>1</sup>	Gland	Brass	ASTM B124 C37700
7	Handwheel Nut	Brass	Commercial
8	Handwheel	Mall. Iron	Commercial
9	Packing	Graphite	Commercial
10	Name Plate	Sh. Alum	Commercial

<sup>1</sup> Not used on 1/2" and smaller

DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	A	B	C	C <sub>v</sub>
Inches	1/4	1.75	4.38	2.00	5.6
mm		45	111	51	
Inches	3/8	1.81	4.38	2.00	10.7
mm		46	111	51	
Inches	1/2	2.00	4.38	2.00	17.6
mm		51	111	51	
Inches	3/4	2.18	5.84	2.50	32.0
mm		55	148	64	
Inches	1	2.56	7.06	2.75	54.0
mm		65	179	70	
Inches	1 1/4	2.78	8.78	3.44	97.0
mm		71	223	87	
Inches	1 1/2	2.81	9.50	3.75	135.0
mm		72	241	95	
Inches	2	3.31	11.50	3.75	230.0
mm		84	292	95	
Inches	2 1/2	4.19	14.31	4.75	337.0
mm		106	364	121	
Inches	3	4.63	16.63	5.25	536.0
mm		118	422	133	
Inches	4	5.50	15.50	5.25	960.0
mm		140	394	133	

† Non-Shock

\* 4" is not covered in MSS SP-80

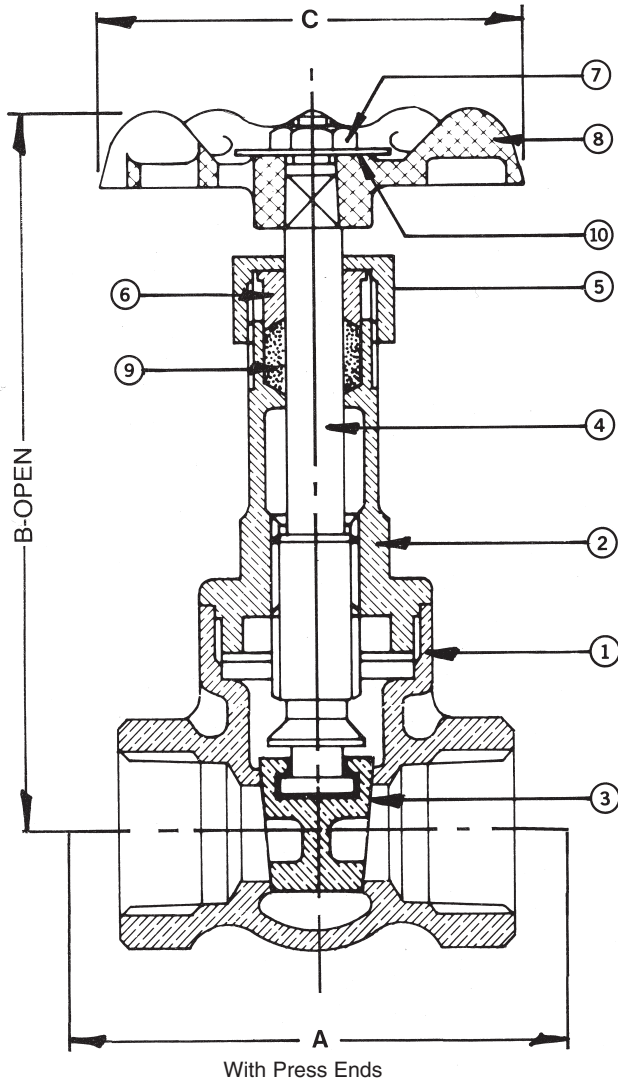
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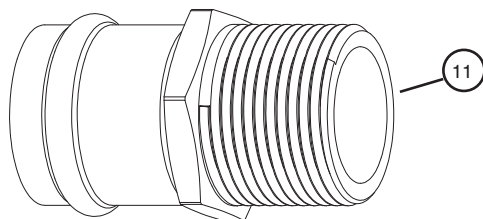
# IB640 P2 1/2"-2"

## ULTRAPRESS®

**Bronze Gate Valve**  
**200 psig @ 250°F †**  
**Solid Wedge Disc • Rising Stem**  
**Threaded Bonnet • Press Ends**  
**Conforms to: MSS SP-80**



Note: Not intended for use in potable water.



Press End Adapter (4151 Series)

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Bonnet	Bronze	ASTM B62
3	Wedge	Bronze	ASTM B62
4	Stem	Bronze	ASTM B62
5	Packing Nut	Brass	ASTM B283 C37700
6 <sup>1</sup>	Gland	Brass	ASTM B124 C37700
7	Handwheel Nut	Brass	Commercial
8	Handwheel	Mall. Iron	Commercial
9	Packing	Graphite	Commercial
10	Name Plate	Sh. Alum	Commercial
11	Press Adapter	Brass Fitting W/ EPDM O-Ring	ASTM C27450

<sup>1</sup> Not used on 1/2"

DIMENSIONS - INCHES/MILLIMETERS						
Units	Size	STD Insertion Depth	A	B	C	C <sub>V</sub>
Inches mm	1/2	0.87 22	5.00 127	4.38 111	2.00 51	17.6
Inches mm	3/4	0.98 25	5.76 146	5.84 148	2.50 64	32.0
Inches mm	1	0.98 25	6.56 167	7.06 179	2.75 70	54.0
Inches mm	1 1/4	1.02 26	6.85 174	8.78 223	3.44 87	97.0
Inches mm	1 1/2	1.42 36	7.29 185	9.50 241	3.75 95	135.0
Inches mm	2	1.58 40	9.31 236	11.50 292	3.75 95	230.0

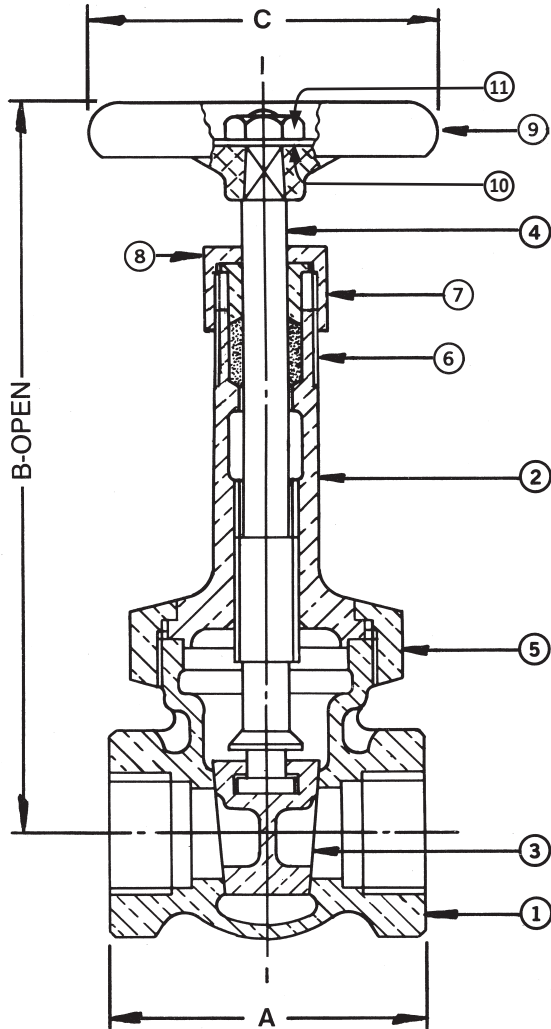
† Non-Shock

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# IB617 1/4"-3"

**Bronze Gate Valve  
125 SWP - 200 WOG †  
Solid Wedge Disc • Rising Stem  
Union Bonnet • Threaded Ends  
Conforms to: MSS SP-80**



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Bonnet	Bronze	ASTM B62
3	Wedge Disc	Bronze	ASTM B62
4	Stem	Bronze	ASTM B62
5	Union Bonnet Nut	Bronze	ASTM B62
6	Packing	Graphite	Commercial
7	Gland	Brass	ASTM B124 C37700
8	Packing Nut	Brass	ASTM B283 C37700
9	Handwheel	Mall. Iron	Commercial
10	Name Plate	Aluminum	Commercial
11	Handwheel Nut	Brass	ASTM B 16

DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	A	B	C	C <sub>v</sub>
Inches mm	1/4	1.75 45	5.13 130	2.00 51	5.6
Inches mm	3/8	1.88 48	5.13 130	2.00 51	10.7
Inches mm	1/2	2.13 54	5.50 140	2.50 64	17.6
Inches mm	3/4	2.25 57	6.25 159	2.75 70	32.0
Inches mm	1	2.56 65	7.19 183	2.75 70	54.0
Inches mm	1 1/4	2.78 71	8.56 218	3.44 87	97.0
Inches mm	1 1/2	3.25 83	9.63 245	3.75 95	135.0
Inches mm	2	3.63 92	11.75 299	4.25 108	230.0
Inches mm	2 1/2	4.50 114	14.50 368	4.75 121	337.0
Inches mm	3	4.88 124	16.75 426	5.25 133	536.0

† Non-Shock

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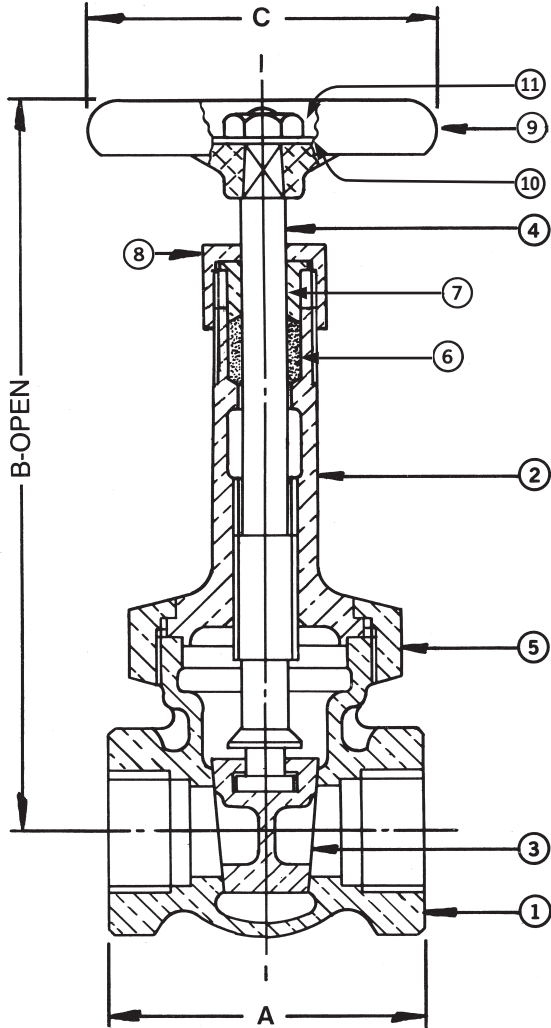
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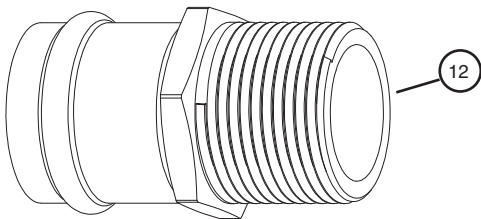
# IB617 P2 1/2"-2"

## ULTRAPRESS®

**Bronze Gate Valve**  
**200 psig @ 250°F †**  
**Solid Wedge Disc • Rising Stem**  
**Union Bonnet • Press Ends**  
**Conforms to: MSS SP-80**



Note: Not intended for use in potable water.



Press End Adapter (4151 Series)

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Bonnet	Bronze	ASTM B62
3	Wedge Disc	Bronze	ASTM B62
4	Stem	Bronze	ASTM B62
5	Union Bonnet Nut	Bronze	ASTM B62
6	Packing	Graphite	Commercial
7	Gland	Brass	ASTM B124 C37700
8	Packing Nut	Brass	ASTM B283 C37700
9	Handwheel	Mall. Iron	Commercial
10	Name Plate	Aluminum	Commercial
11	Handwheel Nut	Brass	ASTM B 16
12	Press Adapter	Brass Fitting W/ EPDM O-Ring	ASTM C27450

DIMENSIONS - INCHES/MILLIMETERS						
Units	Size	STD Insertion Depth	A	B	C	C <sub>v</sub>
Inches mm	1/2	0.87 22	5.13 130	5.50 140	2.50 64	17.6
Inches mm	3/4	0.98 25	5.83 148	6.25 159	2.75 70	32.0
Inches mm	1	0.98 25	6.56 167	7.19 183	2.75 70	54.0
Inches mm	1 1/4	1.02 26	6.85 174	8.56 216	3.44 87	97.0
Inches mm	1 1/2	1.42 36	7.73 196	9.63 245	3.75 98	135.0
Inches mm	2	1.58 40	9.63 245	11.75 299	4.25 108	230.0

† Non-Shock

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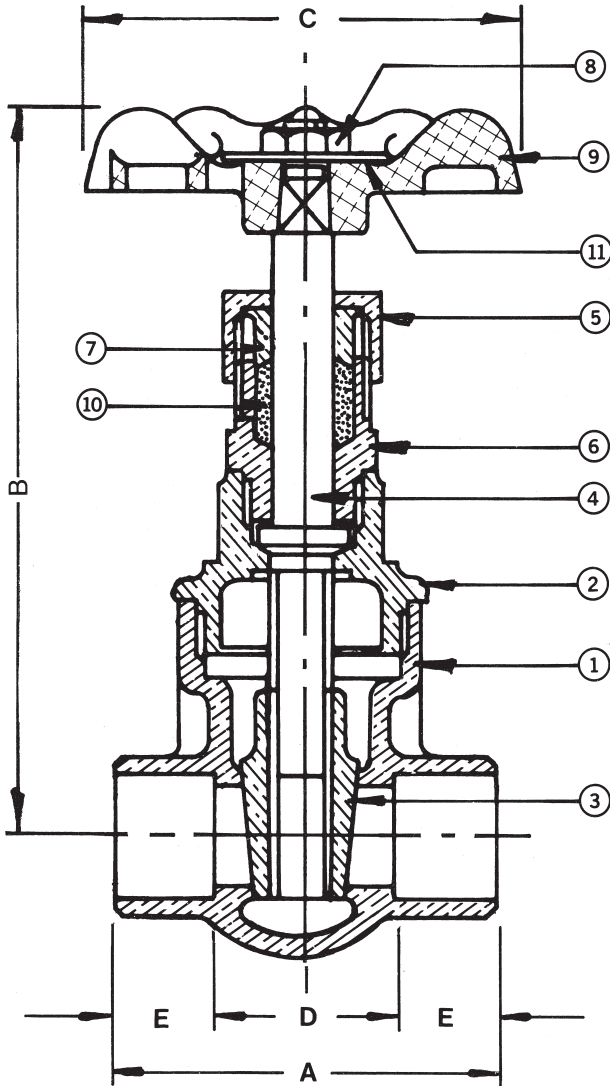


# IB647 3/8" - 4"

**Bronze Gate Valve**  
**125 SWP - 200 WOG †**  
**Non-Rising Stem 3/8" - 3" • Rising Stem 4"**  
**Solid Wedge Disc**  
**Threaded Bonnet • Solder Ends**  
**Conforms to: MSS SP-80\***

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Bonnet	Bronze	ASTM B62
3	Wedge	Bronze	ASTM B62
4	Stem	Bronze	ASTM B62
5	Packing Nut	Brass	ASTM B283 C37700
6	Stuffing Box	Brass	ASTM B283 C37700
7 <sup>1</sup>	Gland	Brass	ASTM B124 C37700
8	Handwheel Nut	Brass	ASTM B16
9	Handwheel	Mall. Iron	Commercial
10	Packing	Graphite	Commercial
11	Name Plate	Sh. Alum	Commercial

<sup>1</sup> Not used on 1/2" and smaller



Note: Not intended for use in potable water.

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C <sub>v</sub>
Inches	3/8	1.63	3.56	2.00	0.88	0.38	10.7
mm		41	91	51	22	10	
Inches	1/2	1.88	3.56	2.00	0.88	0.50	17.6
mm		48	91	51	22	13	
Inches	3/4	2.50	4.75	2.50	1.00	0.75	32.0
mm		64	121	64	25	19	
Inches	1	3.00	5.00	2.75	1.19	0.91	54.0
mm		76	127	70	30	23	
Inches	1 1/4	3.25	5.88	3.44	1.31	0.97	97.0
mm		83	149	87	33	25	
Inches	1 1/2	3.63	6.50	3.75	1.44	1.09	135.0
mm		92	165	95	37	28	
Inches	2	4.31	7.44	3.75	1.63	1.34	230.0
mm		110	189	95	41	34	
Inches	2 1/2	4.81	9.13	4.75	1.88	1.47	337.0
mm		122	232	121	48	37	
Inches	3	5.44	10.38	5.25	2.13	1.66	536.0
mm		138	264	133	54	42	
Inches	4	7.25	15.50	5.25	2.93	2.16	960.0
mm		184	394	133	75	55	

† Non-Shock

\* 4" is not covered in MSS SP-80. It has a split wedge and bolted bonnet.

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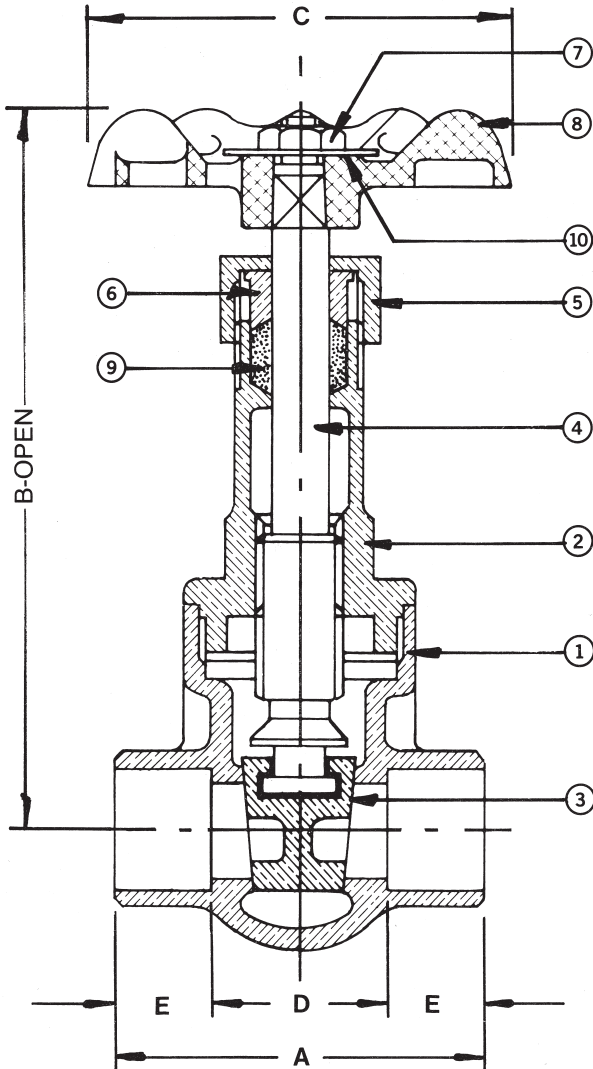
⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

# IB635 3/8"-4"

**Bronze Gate Valve**  
**125 SWP - 200 WOG †**  
**Solid Wedge Disc • Rising Stem**  
**Threaded Bonnet • Solder Ends**  
**Conforms to: MSS SP-80\***

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Bonnet	Bronze	ASTM B62
3	Wedge	Bronze	ASTM B62
4	Stem	Bronze	ASTM B62
5	Packing Nut	Brass	ASTM B283 C37700
6 <sup>1</sup>	Gland	Brass	ASTM B124 C37700
7	Handwheel Nut	Brass	Commercial
8	Handwheel	Mall. Iron	Commercial
9	Packing	Graphite	Commercial
10	Name Plate	Sh. Alum	Commercial

<sup>1</sup> Not used on 1/2" and smaller



Note: Not intended for use in potable water.

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C <sub>v</sub>
Inches mm	3/8	1.63 41	4.31 110	2.00 51	0.88 22	0.38 10	10.7
Inches mm	1/2	1.88 48	4.31 110	2.00 51	0.88 22	0.50 13	17.6
Inches mm	3/4	2.50 64	6.25 159	2.50 64	1.00 25	0.75 19	32.0
Inches mm	1	3.00 76	7.00 178	2.75 70	1.19 30	0.91 23	54.0
Inches mm	1 1/4	3.25 83	8.63 219	3.44 87	1.31 33	0.97 25	97.0
Inches mm	1 1/2	3.63 92	9.50 241	3.75 95	1.44 37	1.09 28	135.0
Inches mm	2	4.31 110	11.50 292	3.75 95	1.63 41	1.34 34	230.0
Inches mm	2 1/2	4.81 122	14.31 364	4.75 121	1.88 48	1.47 37	337.0
Inches mm	3	5.44 138	16.38 416	5.25 133	2.13 54	1.66 42	536.0
Inches mm	4	7.25 184	15.50 394	5.25 133	2.93 75	2.16 55	960.0

† Non-Shock

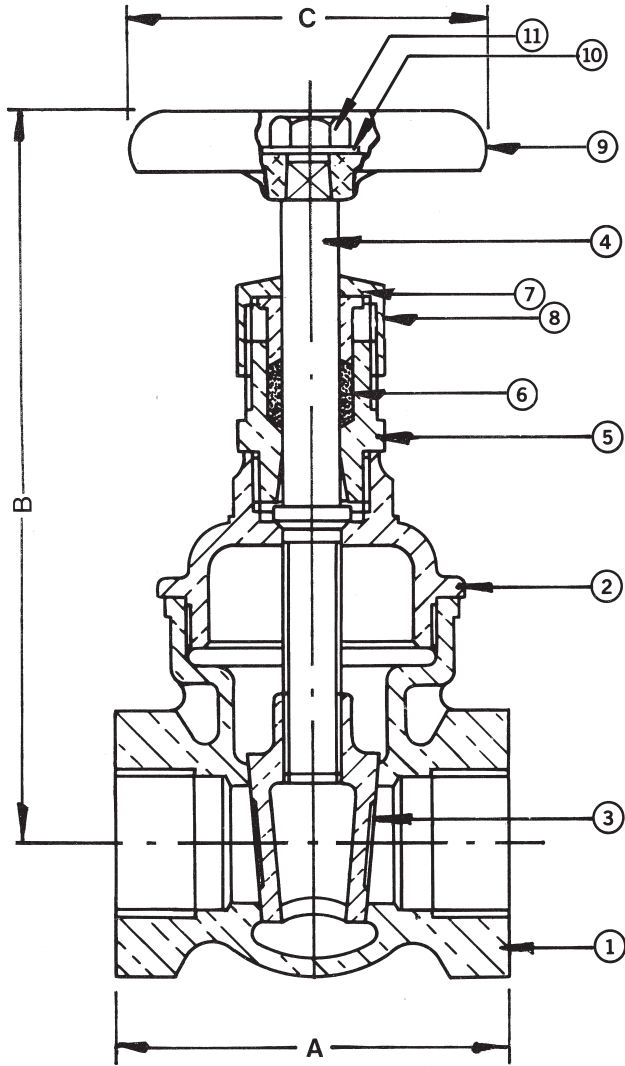
\* 4" is not covered in MSS SP-80. It has a split wedge and bolted bonnet.

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

# IB646 1/4"-4"

**Bronze Gate Valve**  
**150 SWP - 300 WOG †**  
**Non-Rising Stem 1/4" - 3" • Rising Stem 4"**  
**Solid Wedge Disc**  
**Threaded Bonnet • Threaded Ends**  
**Conforms to: MSS SP-80\***



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Bonnet	Bronze	ASTM B62
3	Wedge Disc	Bronze	ASTM B62
4	Stem	Bronze	ASTM B62
5	Stuffing Box	Bronze	ASTM B16
6	Packing	Graphite	Commercial
7	Gland	Brass	ASTM B124 C37700
8	Packing Nut	Brass	ASTM B283 C37700
9	Handwheel	Mall. Iron	Commercial
10	Name Plate	Aluminum	Commercial
11	Handwheel Nut	Brass	Commercial

DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	A	B	C	C <sub>v</sub>
Inches	1/4	1.75	3.63	2.00	5.6
mm		45	92	51	
Inches	3/8	1.81	3.63	2.00	10.7
mm		46	92	51	
Inches	1/2	2.00	3.63	2.00	17.6
mm		51	92	51	
Inches	3/4	2.18	4.38	2.50	32.0
mm		55	111	64	
Inches	1	2.56	5.00	2.75	54.0
mm		65	127	70	
Inches	1 1/4	2.78	5.31	3.44	97.0
mm		71	135	87	
Inches	1 1/2	2.81	6.34	3.75	135.0
mm		72	161	95	
Inches	2	3.31	7.44	3.75	230.0
mm		84	189	95	
Inches	2 1/2	4.19	9.13	4.75	337.0
mm		106	232	121	
Inches	3	4.63	10.47	5.25	536.0
mm		118	266	133	
Inches	4	5.50	15.50	5.25	960.0
mm		140	394	133	

† Non-Shock

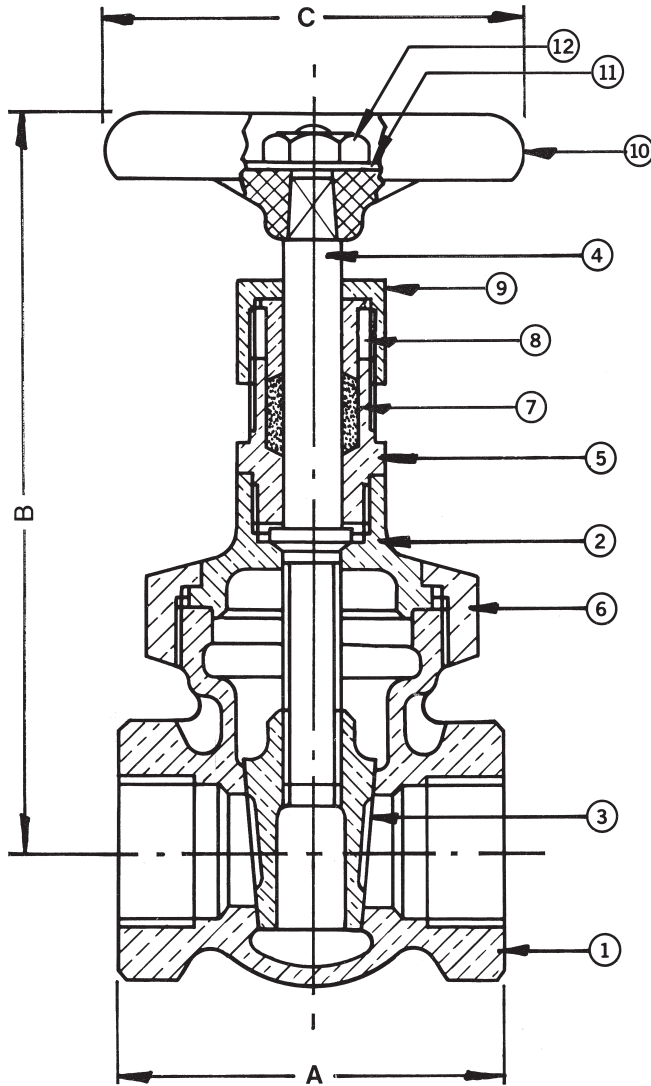
\* 4" is not covered in MSS SP-80. It has a split wedge and bolted bonnet.

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# IB638 1/4"-2"

**Bronze Gate Valve  
150 SWP - 300 WOG †  
Solid Wedge Disc • Non-Rising Stem  
Union Bonnet • Threaded Ends  
Conforms to: MSS SP-80**



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Bonnet	Bronze	ASTM B62
3	Wedge Disc	Bronze	ASTM B62
4	Stem	Bronze	ASTM B62
5	Stuffing Box	Bronze	ASTM B16
6	Union Bonnet Nut	Bronze	ASTM B62
7	Packing	Graphite	Commercial
8	Gland	Brass	ASTM B124 C37700
9	Packing Nut	Brass	ASTM B283 C37700
10	Handwheel	Mall. Iron	Commercial
11	Name Plate	Aluminum	Commercial
12	Handwheel Nut	Brass	Commercial

DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	A	B	C	C <sub>v</sub>
Inches	1/4	1.75	3.69	2.00	5.6
mm		45	94	51	
Inches	3/8	1.88	3.69	2.00	10.7
mm		48	94	51	
Inches	1/2	2.13	4.31	2.50	17.6
mm		54	110	64	
Inches	3/4	2.25	4.56	2.75	32.0
mm		57	116	70	
Inches	1	2.56	5.19	2.75	54.0
mm		65	132	70	
Inches	1 1/4	3.25	5.94	3.44	97.0
mm		83	151	87	
Inches	1 1/2	3.25	6.38	3.75	135.0
mm		83	162	95	
Inches	2	3.63	7.69	4.25	230.0
mm		92	195	108	

† Non-Shock

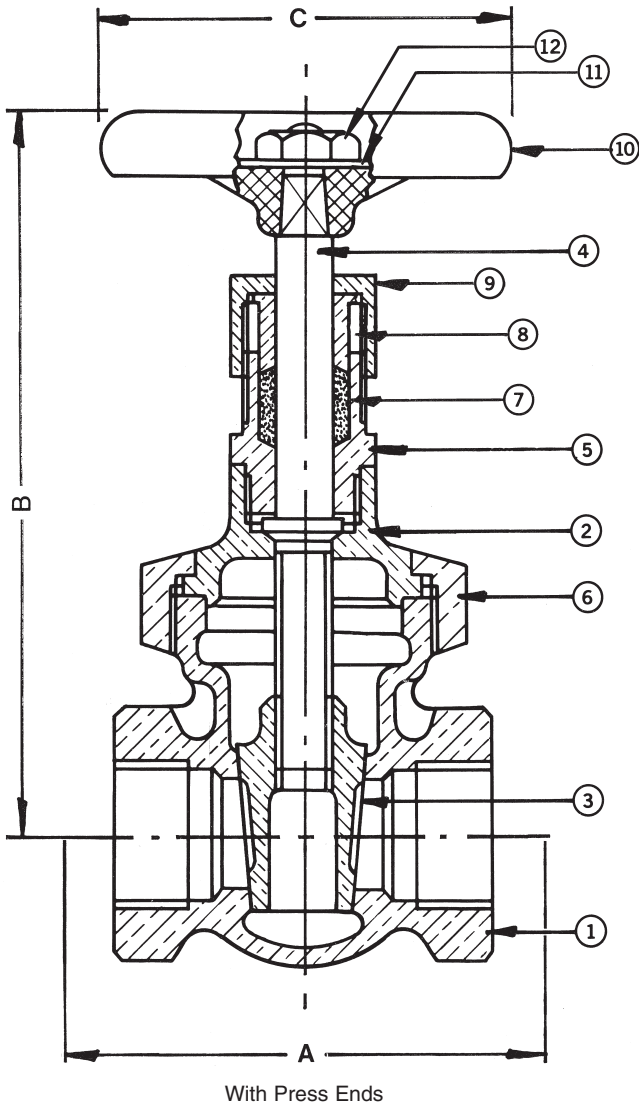
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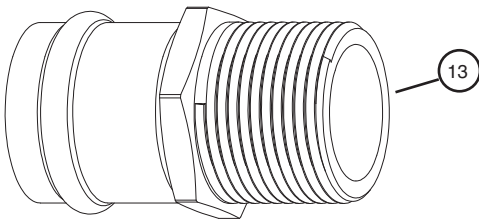
# IB638 P2 1/2"-2"

## ULTRAPRESS®

**Bronze Gate Valve**  
**200 psig @ 250°F †**  
**Solid Wedge Disc • Non-Rising Stem**  
**Union Bonnet • Press Ends**  
**Conforms to: MSS SP-80**



Note: Not intended for use in potable water.



Press End Adapter (4151 Series)

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Bonnet	Bronze	ASTM B62
3	Wedge Disc	Bronze	ASTM B62
4	Stem	Bronze	ASTM B62
5	Stuffing Box	Bronze	ASTM B16
6	Union Bonnet Nut	Bronze	ASTM B62
7	Packing	Graphite	Commercial
8	Gland	Brass	ASTM B124 C37700
9	Packing Nut	Brass	ASTM B283 C37700
10	Handwheel	Mall. Iron	Commercial
11	Name Plate	Aluminum	Commercial
12	Handwheel Nut	Brass	Commercial
13	Press Adapter	Brass Fitting W/ EPDM O-Ring	ASTM C27450

DIMENSIONS - INCHES/MILLIMETERS						
Units	Size	STD Insertion Depth	A	B	C	C <sub>v</sub>
Inches mm	1/2	0.87 22	5.13 130	4.31 110	2.50 64	17.6
Inches mm	3/4	0.98 25	5.83 148	4.56 116	2.75 70	32.0
Inches mm	1	0.98 25	6.56 167	5.19 132	2.75 70	54.0
Inches mm	1 1/4	1.02 26	7.32 186	5.94 151	3.44 87	97.0
Inches mm	1 1/2	1.42 36	7.73 196	6.38 162	3.75 95	135.0
Inches mm	2	1.58 40	9.63 245	7.69 195	4.25 108	230.0

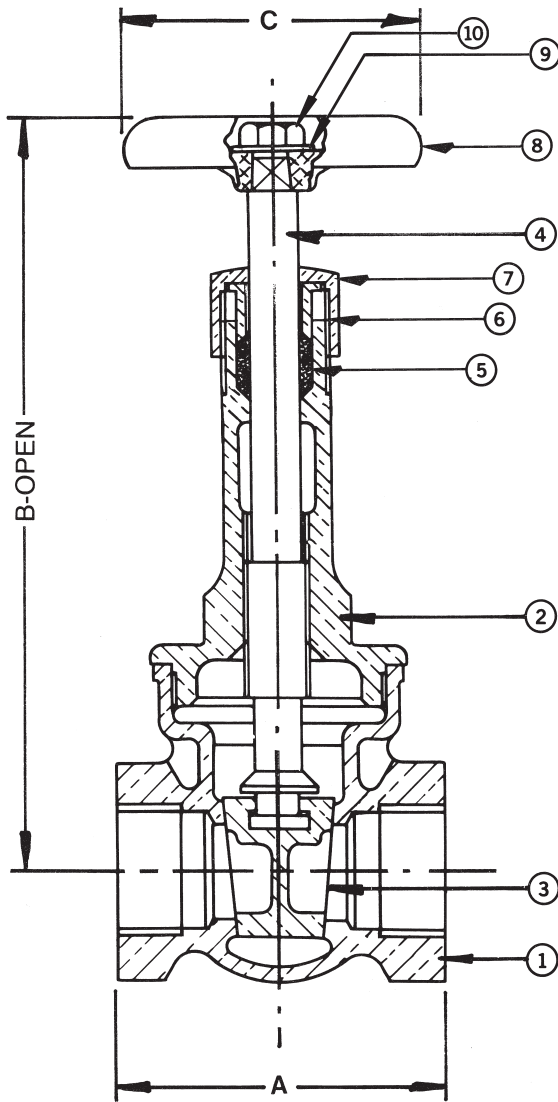
† Non-Shock

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# IB641 1/4"-4"

**Bronze Gate Valve  
150 SWP - 300 WOG †  
Solid Wedge Disc • Rising Stem  
Threaded Bonnet • Threaded Ends  
Conforms to: MSS SP-80\***



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Bonnet	Bronze	ASTM B62
3	Wedge Disc	Bronze	ASTM B62
4	Stem	Bronze	ASTM B62
5	Packing	Graphite	Commercial
6	Gland	Brass	ASTM B124 C37700
7	Packing Nut	Brass	ASTM B283 C37700
8	Handwheel	Mall. Iron	Commercial
9	Name Plate	Aluminum	Commercial
10	Handwheel Nut	Brass	Commercial

DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	A	B	C	C <sub>v</sub>
Inches	1/4	1.75	4.38	2.00	5.6
mm		45	111	51	
Inches	3/8	1.81	4.38	2.00	10.7
mm		46	111	51	
Inches	1/2	2.00	4.38	2.00	17.6
mm		51	111	51	
Inches	3/4	2.18	5.84	2.50	32.0
mm		55	149	64	
Inches	1	2.56	7.06	2.75	54.0
mm		65	180	70	
Inches	1 1/4	2.78	8.78	3.44	97.0
mm		71	223	87	
Inches	1 1/2	2.81	9.50	3.75	135.0
mm		72	241	95	
Inches	2	3.31	11.50	3.75	230.0
mm		84	292	95	
Inches	2 1/2	4.19	14.31	4.75	337.0
mm		106	364	121	
Inches	3	4.63	16.63	5.25	536.0
mm		118	422	133	
Inches	4	5.50	15.50	5.25	960.0
mm		140	394	133	

† Non-Shock

\* 4" is not covered in MSS SP-80. It has split wedge and bolted bonnet.

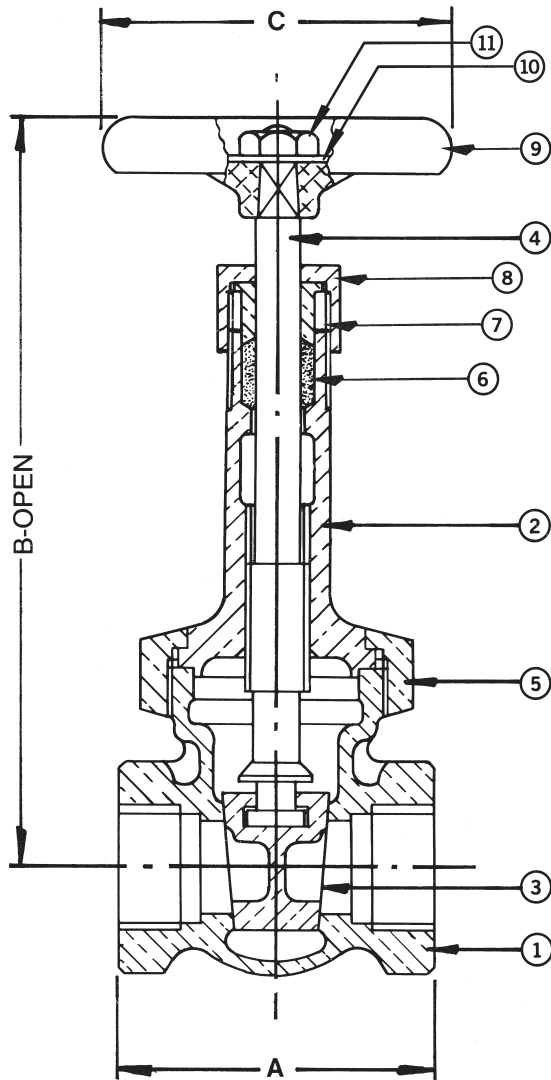
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# IB629 1/4"-3"

**Bronze Gate Valve**  
**150 SWP - 300 WOG †**  
**Solid Wedge Disc • Rising Stem**  
**Union Bonnet • Threaded Ends**  
**Conforms to: MSS SP-80**



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Bonnet	Bronze	ASTM B62
3	Wedge Disc	Bronze	ASTM B62
4	Stem	Bronze	ASTM B62
5	Union Bonnet Nut	Bronze	ASTM B62
6	Packing	Graphite	Commercial
7	Gland	Brass	Commercial
8	Packing Nut	Brass	Commercial
9	Handwheel	Mall. Iron	Commercial
10	Name Plate	Aluminum	Commercial
11	Handwheel Nut	Brass	Commercial

DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	A	B	C	C <sub>v</sub>
Inches mm	1/4	1.75 45	5.13 130	2.00 51	5.6
Inches mm	3/8	1.88 48	5.13 130	2.00 51	10.7
Inches mm	1/2	2.13 54	5.50 140	2.50 64	17.6
Inches mm	3/4	2.25 57	6.25 159	2.75 70	32.0
Inches mm	1	2.56 65	7.19 183	2.75 70	54.0
Inches mm	1 1/4	2.78 71	8.56 218	3.44 87	97.0
Inches mm	1 1/2	3.25 83	9.63 245	3.75 95	135.0
Inches mm	2	3.63 92	11.75 299	4.25 108	230.0
Inches mm	2 1/2	4.50 114	14.50 368	4.75 121	337.0
Inches mm	3	4.88 124	16.75 426	5.25 133	536.0

† Non-Shock

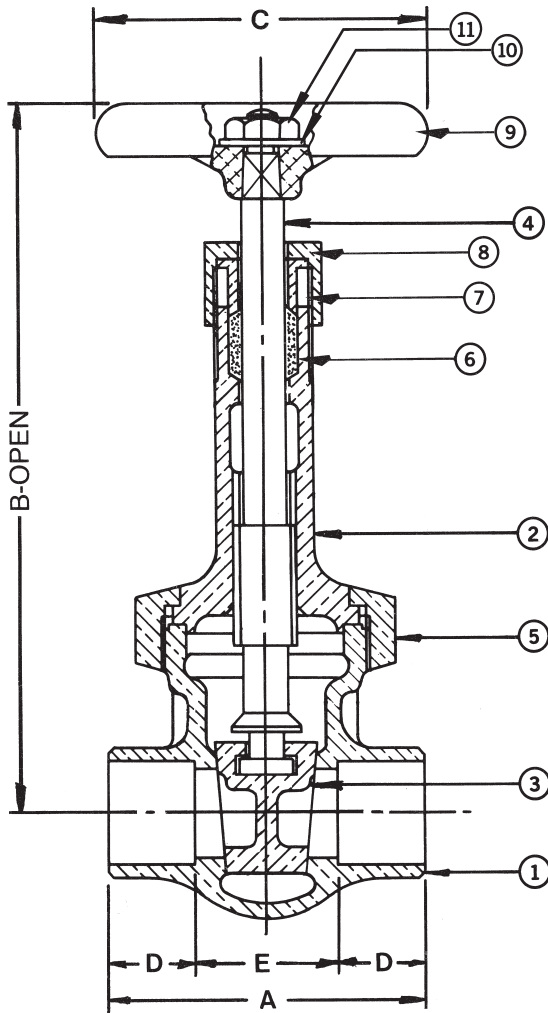
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# IB648 3/8"-3"

**Bronze Gate Valve  
150 SWP - 300 WOG †  
Solid Wedge Disc • Rising Stem  
Union Bonnet • Solder Ends  
Conforms to: MSS SP-80**



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Bonnet	Bronze	ASTM B62
3	Wedge Disc	Bronze	ASTM B62
4	Stem	Bronze	ASTM B62
5	Union Bonnet Nut	Bronze	ASTM B62
6	Packing	Graphite	Commercial
7	Gland	Brass	ASTM B124 C37700
8	Packing Nut	Brass	ASTM B283 C37700
9	Handwheel	Mall. Iron	Commercial
10	Name Plate	Aluminum	Commercial
11	Handwheel Nut	Brass	Commercial

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C <sub>v</sub>
Inches mm	3/8	1.63 41	5.13 130	2.00 51	0.38 10	0.88 22	10.7
Inches mm	1/2	2.13 54	5.50 140	2.50 64	0.50 13	1.13 29	17.6
Inches mm	3/4	2.63 67	6.25 159	2.75 70	0.75 19	1.13 29	32.0
Inches mm	1	3.00 76	7.19 183	2.75 70	0.91 23	1.19 30	54.0
Inches mm	1 1/4	3.38 86	8.56 218	3.44 87	0.97 25	1.44 37	97.0
Inches mm	1 1/2	3.75 95	9.63 245	3.75 95	1.09 28	1.56 40	135.0
Inches mm	2	4.31 110	11.75 299	4.25 108	1.34 34	1.63 41	230.0
Inches mm	2 1/2	5.25 133	14.25 362	4.75 121	1.47 37	2.31 59	337.0
Inches mm	3	5.75 133	16.50 419	5.25 133	1.66 42	2.44 62	536.0

† Non-Shock

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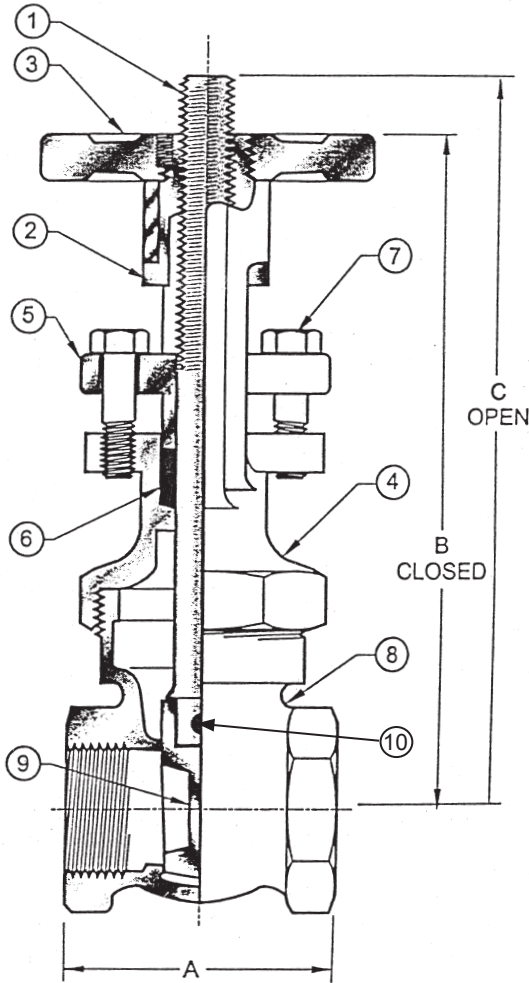
# 118-FP 1"-2"

**Bronze Gate Valve**  
**175 WOG† • O.S. & Y**  
**Solid Wedge Disc • Threaded Ends • Threaded Bonnet**  
**New York City Board of Standards and Approval**  
**Approval: U.L. Listed, F.M., N.Y. C.B.S.A. No. 1079-81-SA**



**MEA255-93-E**

## FM Approved and UL Listed as Fig 118



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Stem	Brass	CDA-360
2	Yoke Bushing	Brass	CDA-360
3	Handwheel	Ductile Iron	
4	Bonnet	Bronze	CDA-844
5	Packing Gland	Brass	CDA-844
6	Packing	Graphite	
7	Gland Follower Bolt	Plated Steel	
8	Body	Bronze	B-584
9	Wedge	Bronze	B-584
10	Roll Pin	Bronze	

DIMENSIONS - INCHES/MILLIMETERS				
Units	Size	A	B	C
Inches mm	1	2.50 64	6.50 165	8.00 203
	1 1/4	2.75 70	7.63 194	9.50 241
Inches mm	1 1/2	2.86 152	8.00 203	10.00 254
	2	3.13 79	9.00 229	11.25 286

† Non-Shock

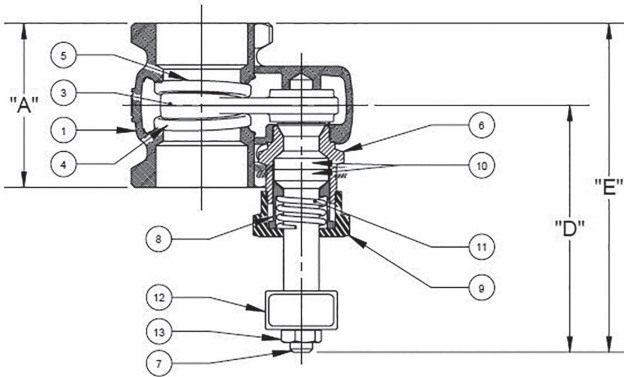
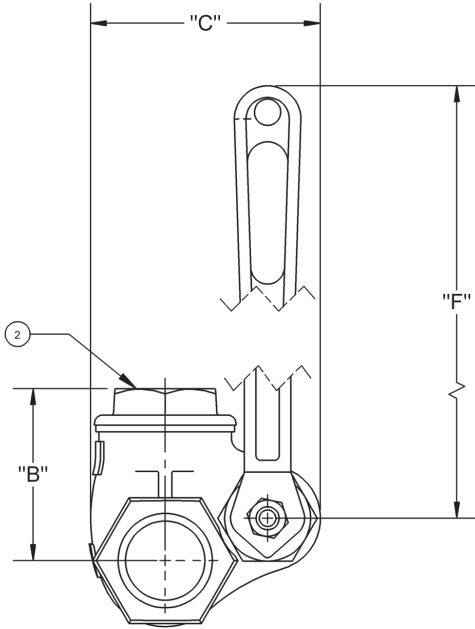
Note: Not intended for use in potable water.

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# IB610 1/2"-4"

**Bronze Gate Valve  
150 SWP - 300 WOG †  
Quick Opening  
Lever Operated • Double Disc • Threaded Ends**



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Cap	Bronze	ASTM B62
3	Lever	Bronze	ASTM B62
4	Male Disc	Brass	ASTM B16
5	Female Disc	Brass	ASTM B16
6	Bonnet	Bronze	ASTM B62
7	Stem	Brass	ASTM B16
8	Gland	Brass	ASTM B16
9	Packing Nut	Bronze	ASTM B62
10	Packing	Graphite	
11	Gland Spring	Steel	
12	Handle Lever	Mall. Iron	
13	Handle Nut	Steel	

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	F
Inches	1/2	2.00	1.38	2.44	2.78	3.78	4.69
mm		51	35	62	71	96	119
Inches	3/4	2.25	1.69	2.94	3.21	4.33	4.69
mm		57	43	75	82	110	119
Inches	1	2.50	2.38	3.37	4.31	5.56	7.00
mm		64	60	86	109	141	178
Inches	1 1/4	2.88	2.81	3.84	4.44	5.88	8.19
mm		73	71	98	113	149	208
Inches	1 1/2	3.18	3.25	4.34	4.79	6.38	10.50
mm		81	83	110	122	162	270
Inches	2	3.75	4.12	5.31	5.41	7.28	10.50
mm		95	105	135	137	185	267
Inches	2 1/2	4.25	4.50	5.94	5.47	7.59	11.51
mm		108	114	151	139	193	292
Inches	3	4.75	5.63	7.02	5.59	7.97	11.50
mm		121	143	178	142	202	292
Inches	4	6.00	7.87	7.50	5.56	8.56	14.00
mm		152	200	191	141	217	356

† Non-Shock

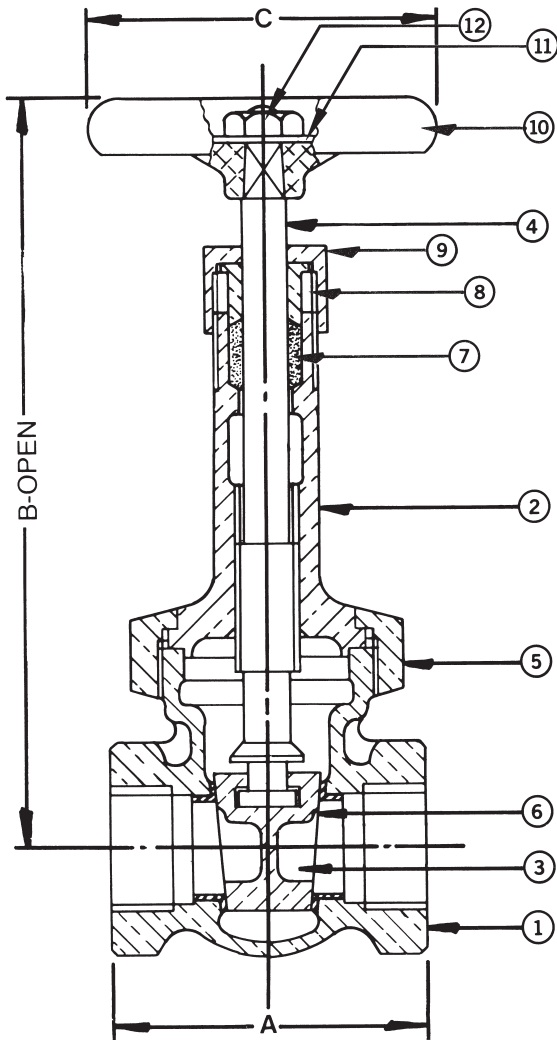
\*4" SIZE HAS A BOLTED BONNET (NOT PICTURED)

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# IB650 1/4"-2"

**Bronze Gate Valve**  
**200 SWP - 400 WOG †**  
**Solid Wedge Disc • Rising Stem**  
**Union Bonnet • Threaded Ends • Cu-Ni Seat**  
**Conforms to: MSS SP-80**



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B61
2	Bonnet	Bronze	ASTM B61
3	Wedge Disc	Bronze	ASTM B61
4	Stem	Bronze	ASTM B61
5	Union Bonnet Nut	Bronze	ASTM B61
6	Seat Ring	Cu-Ni	90-10
7	Packing	Graphite	Commercial
8	Gland	Brass	ASTM B 124 C37700
9	Packing Nut	Brass	ASTM B 283 C37700
10	Handwheel	Mall. Iron	Commercial
11	Name Plate	Aluminum	Commercial
12	Handwheel Nut	Brass	Commercial

DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	A	B	C	C <sub>v</sub>
Inches	1/4	1.81	5.13	2.00	5.6
mm		46	130	51	
Inches	3/8	1.88	5.13	2.00	10.7
mm		48	130	51	
Inches	1/2	2.25	5.50	2.50	17.6
mm		57	140	64	
Inches	3/4	2.50	6.25	2.75	32.0
mm		64	159	70	
Inches	1	2.88	7.19	2.75	54.0
mm		73	183	70	
Inches	1 1/4	3.25	8.56	3.44	97.0
mm		83	218	87	
Inches	1 1/2	3.50	9.56	3.75	135.0
mm		89	243	95	
Inches	2	3.75	11.75	4.25	230.0
mm		95	299	108	

† Non-Shock

Note: Not intended for use in potable water.

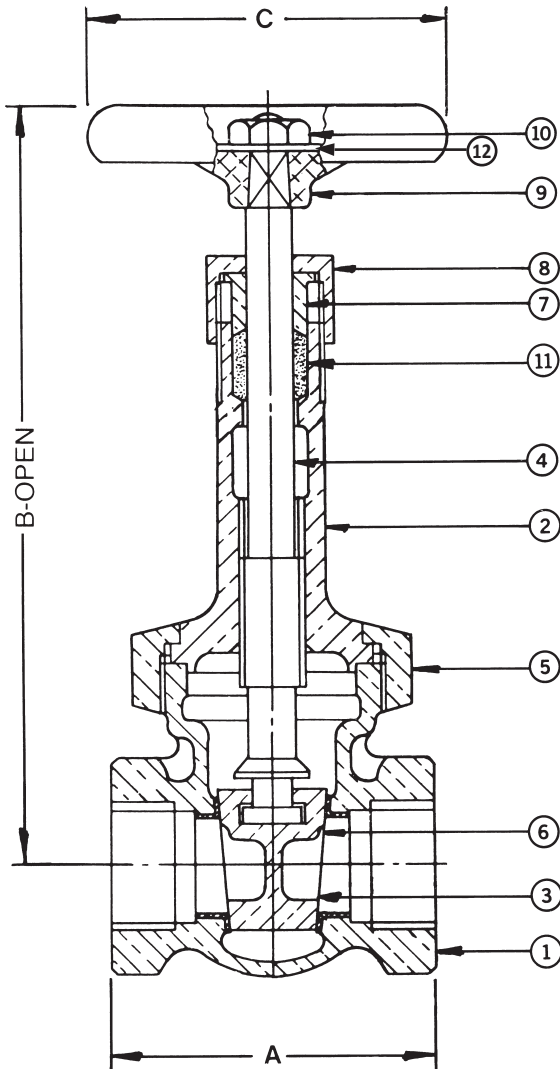
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# IB651 1/4"-3"

**Bronze Gate Valve**  
**200 SWP - 400 WOG †**  
**Solid Wedge Disc • Rising Stem**  
**Union Bonnet • Threaded Ends • Stainless Seat**  
**Conforms to: MSS SP-80**

Wear-resistant stainless seat rings are securely expanded into the body to assure trouble-free service. Normal seating wear is restricted to the bronze wedge and can be easily replaced.



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B61
2	Bonnet	Bronze	ASTM B61
3	Wedge Disc	Bronze	ASTM B61
4	Stem	Bronze	ASTM B61
5	Union Bonnet Nut	Bronze	ASTM B61
6	Seat Ring	St. Steel	ASTM A 240 TY304
7	Gland	Brass	ASTM B 124 C37700
8	Packing Nut	Brass	ASTM B 283 C37700
9	Handwheel	Mall. Iron	Commercial
10	Handwheel Nut	Brass	Commercial
11	Packing	Graphite	Commercial
12	Identification Plate	Aluminum	Commercial

DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	A	B	C	C <sub>v</sub>
Inches mm	1/4	1.81 46	5.13 130	2.00 51	5.6
Inches mm	3/8	1.88 48	5.13 130	2.00 51	10.7
Inches mm	1/2	2.25 57	5.50 140	2.50 64	17.6
Inches mm	3/4	2.50 64	6.25 159	2.75 70	32.0
Inches mm	1	2.88 73	7.19 183	2.75 70	54.0
Inches mm	1 1/4	3.25 83	8.56 218	3.44 87	97.0
Inches mm	1 1/2	3.50 89	9.63 245	3.75 95	135.0
Inches mm	2	3.75 95	11.75 299	4.25 108	230.0
Inches mm	2 1/2	4.63 118	14.50 368	4.75 121	337.0
Inches mm	3	5.00 127	16.75 426	5.50 140	536.0

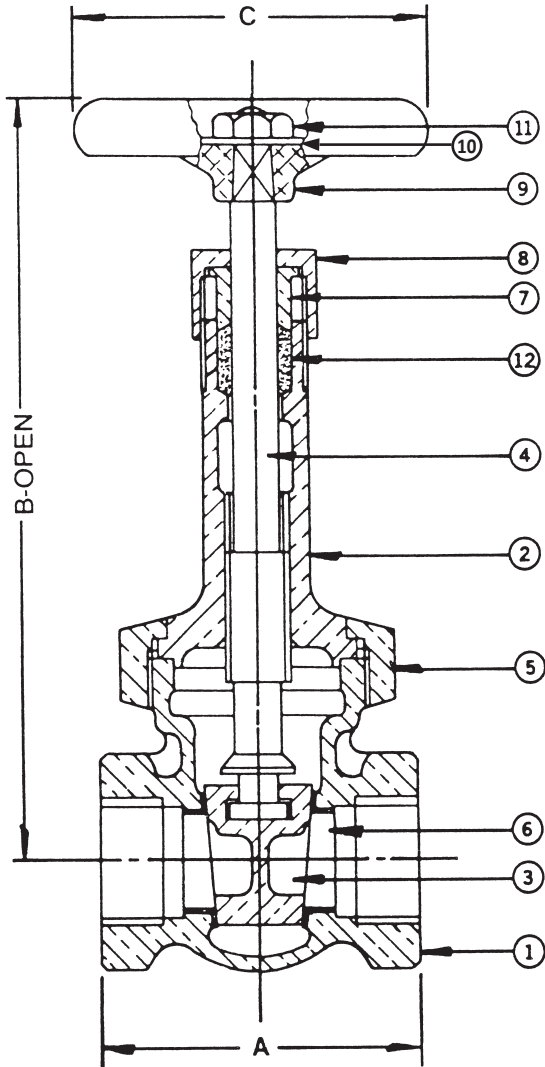
† Non-Shock

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# IB652 1/4"-2"

**Bronze Gate Valve**  
**300 SWP - 1000 WOG †**  
**Solid Wedge Disc • Rising Stem**  
**Union Bonnet • Threaded Ends • Cu-Ni Seat**  
**Conforms to: MSS SP-80**



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B61
2	Bonnet	Bronze	ASTM B61
3	Wedge Disc	Bronze	ASTM B61
4	Stem	Bronze	ASTM B61
5	Union Bonnet Nut	Bronze	ASTM B61
6	Seat Ring	Cu-Ni	90-10
7	Gland	Brass	ASTM B 124 C37700
8	Packing Nut	Brass	ASTM B 283 C37700
9	Handwheel	Mall. Iron	Commercial
10	Name Plate	Aluminum	Commercial
11	Handwheel Nut	Brass	Commercial
12	Packing	Graphite	Commercial

DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	A	B	C	C <sub>v</sub>
Inches	1/4	1.81	5.13	2.00	5.6
mm		46	130	51	
Inches	3/8	1.88	5.13	2.00	10.7
mm		48	130	51	
Inches	1/2	2.25	5.50	2.50	17.6
mm		57	140	64	
Inches	3/4	2.50	6.25	2.75	32.0
mm		64	159	70	
Inches	1	3.00	7.19	2.75	54.0
mm		76	183	70	
Inches	1 1/4	3.38	8.56	3.44	97.0
mm		86	218	87	
Inches	1 1/2	3.50	9.63	3.75	135.0
mm		89	245	95	
Inches	2	3.75	11.75	4.25	230.0
mm		95	299	108	

† Non-Shock

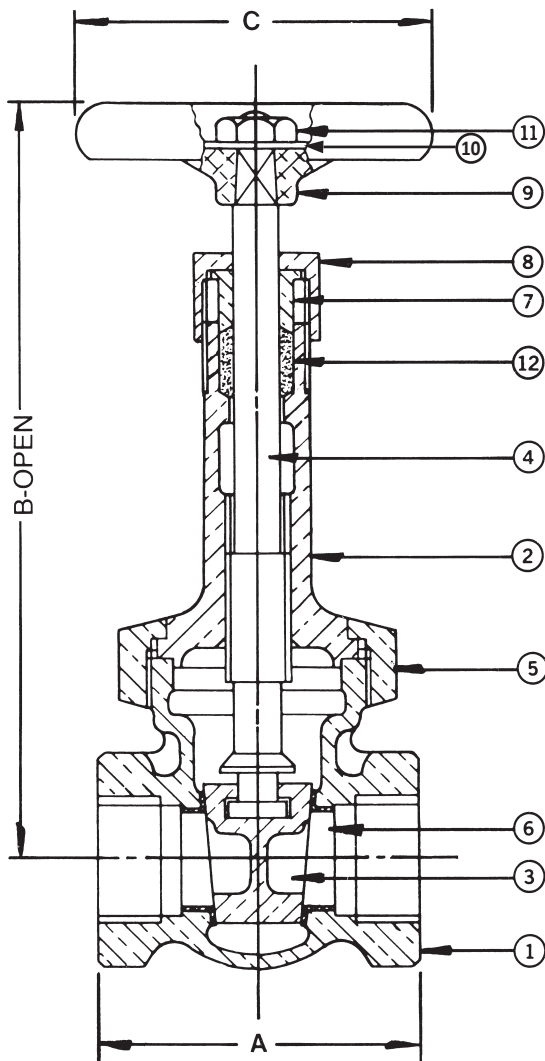
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# IB654 1/4"-3"

**Bronze Gate Valve**  
**300 SWP - 1000 WOG †**  
**Solid Wedge Disc • Rising Stem**  
**Union Bonnet • Threaded Ends • Stainless Seat**  
**Conforms to: MSS SP-80**

Wear-resistant stainless seat rings are securely expanded into the body to assure trouble-free service. Normal seating wear is restricted to the bronze wedge and can be easily replaced.



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B61
2	Bonnet	Bronze	ASTM B61
3	Wedge Disc	Bronze	ASTM B61
4	Stem	Bronze	ASTM B61
5	Union Bonnet Nut	Bronze	ASTM B61
6	Seat Ring	St. Steel	ASTM A 240 TY304
7	Gland	Brass	ASTM B 124 C37700
8	Packing Nut	Brass	ASTM B 283 C37700
9	Handwheel	Mall. Iron	Commercial
10	Name Plate	Aluminum	Commercial
11	Handwheel Nut	Brass	Commercial
12	Packing	Graphite	Commercial

DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	A	B	C	C <sub>v</sub>
Inches mm	1/4	1.81 46	5.13 130	2.00 51	5.6
Inches mm	3/8	1.88 48	5.13 130	2.00 51	10.7
Inches mm	1/2	2.25 57	5.50 140	2.50 64	17.6
Inches mm	3/4	2.50 64	6.25 159	2.75 70	32.0
Inches mm	1	3.00 76	7.19 183	2.75 70	54.0
Inches mm	1 1/4	3.38 86	8.56 218	3.44 87	97.0
Inches mm	1 1/2	3.50 89	9.63 245	3.75 95	135.0
Inches mm	2	3.75 95	11.75 299	4.25 108	230.0
Inches mm	2 1/2	4.63 118	14.50 368	4.75 121	337.0
Inches mm	3	5.00 127	16.75 426	5.50 140	536.0

† Non-Shock

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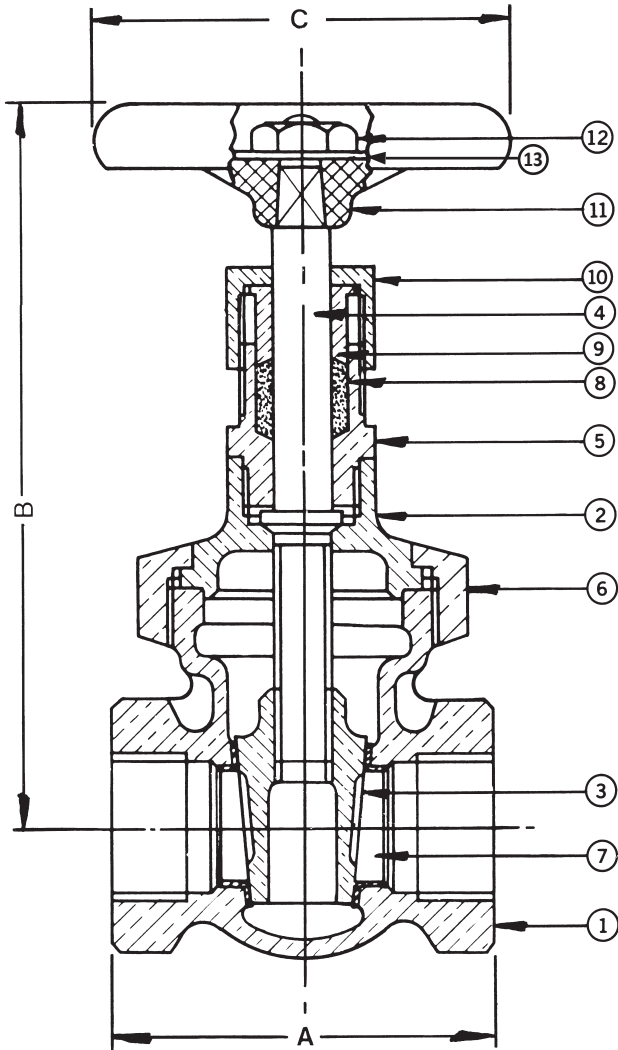
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# IB656 1/4"-2"

**Bronze Gate Valve**  
**300 SWP - 1000 WOG †**  
**Solid Wedge Disc • Non-Rising Stem**  
**Union Bonnet • Threaded Ends • Stainless Seat**  
**Conforms to: MSS SP-80**

Wear-resistant stainless seat rings are securely expanded into the body to assure trouble-free service. Normal seating wear is restricted to the bronze wedge and can be easily replaced.



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B61
2	Bonnet	Bronze	ASTM B61
3	Wedge Disc	Bronze	ASTM B61
4	Stem	Bronze	ASTM B61
5	Stuffing Box	Bronze	ASTM B61
6	Union Bonnet Nut	Bronze	ASTM B61
7	Seat Ring	St. Steel	ASTM A 240 TY304
8	Packing	Graphite	Commercial
9	Gland	Brass	ASTM B 124 C37700
10	Packing Nut	Brass	ASTM B 283 C37700
11	Handwheel	Mall. Iron	Commercial
12	Handwheel Nut	Brass	Commercial
13	Name Plate	Aluminum	Commercial

DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	A	B	C	C <sub>v</sub>
Inches	1/4	1.81	4.13	2.00	5.6
mm		46	105	51	
Inches	3/8	1.88	4.13	2.00	10.7
mm		48	105	51	
Inches	1/2	2.25	4.31	2.50	17.6
mm		57	110	64	
Inches	3/4	2.50	4.56	2.75	32.0
mm		64	116	70	
Inches	1	3.00	5.19	2.75	54.0
mm		76	132	70	
Inches	1 1/4	3.38	5.94	3.44	97.0
mm		86	151	87	
Inches	1 1/2	3.50	6.38	3.75	135.0
mm		89	162	95	
Inches	2	3.75	7.69	4.25	230.0
mm		95	195	108	

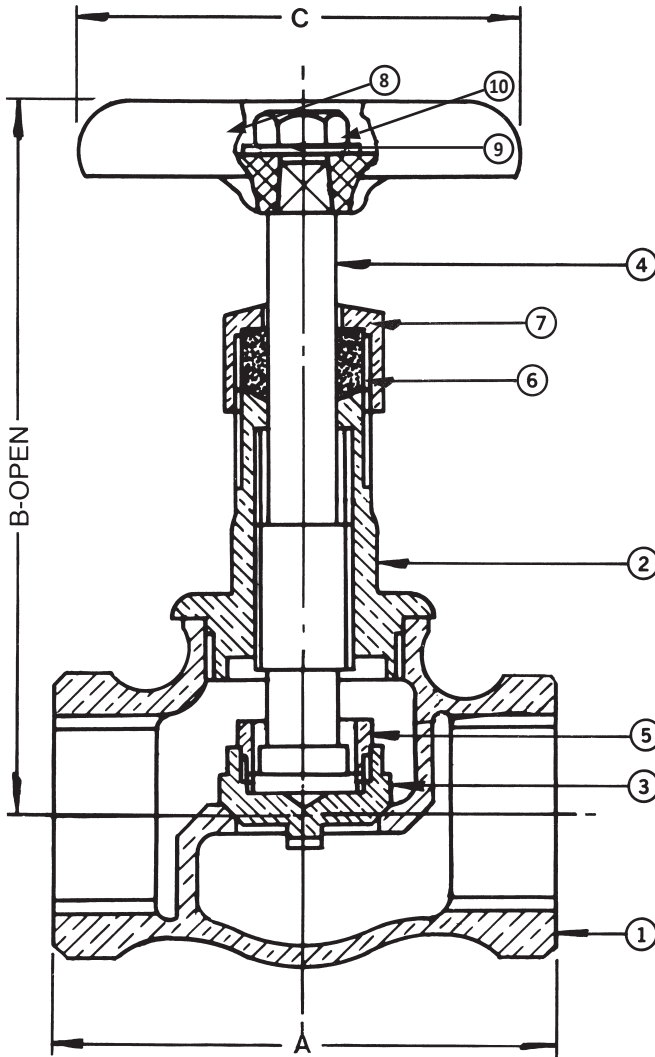
† Non-Shock

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# IB440 1/8"-3"

**Bronze Globe Valve**  
**125 SWP - 200 WOG †**  
**Threaded Bonnet • Threaded Ends**  
**Conforms to: MSS SP-80**



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Bonnet	Brass	ASTM B16, 1/8" - 1/2"
		Bronze	ASTM B62, 3/4" - 3"
3	Disc*	Brass	ASTM B453, 3/4" - 1-1/4"
		Bronze	ASTM B62, 1-1/2" - 3"
4	Stem	Brass	ASTM B505
5	Disc Ring*	Brass	ASTM B16, 3/4" - 2", 3"
		Bronze	ASTM B62, 2-1/2"
6	Packing	Graphite	Commercial
7	Packing Nut	Brass	ASTM B16, 1/8" - 3/4", 1-1/4" - 2"
		Brass	ASTM B283, 1"
		Bronze	ASTM B584, 2-1/2"
		Bronze	ASTM B62, 3"
8	Handwheel	Mall. Iron	ASTM A47
9	Name Plate	Aluminum	Commercial
10	Handwheel Nut	Brass	ASTM B16
11	Gland (not shown)	Brass	ASTM B16, 2-1/2" and 3" only

\* 1/8" to 1/2" sizes have the disc integral with the stem

DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	A	B	C	C <sub>v</sub>
Inches mm	1/8	1.63 41	3.06 78	2.00 51	0.61
Inches mm	1/4	1.63 41	3.06 78	2.00 51	1.16
Inches mm	3/8	1.81 46	3.19 81	2.00 51	2.21
Inches mm	1/2	2.31 59	3.63 92	2.00 51	3.64
Inches mm	3/4	2.56 65	3.94 100	2.50 64	6.65
Inches mm	1	2.94 75	4.38 111	2.75 70	11.10
Inches mm	1 1/4	3.38 86	5.19 132	3.44 87	20.00
Inches mm	1 1/2	3.69 94	5.75 146	3.75 95	28.00
Inches mm	2	4.44 113	6.75 172	4.25 108	48.00
Inches mm	2 1/2	5.75 146	8.63 219	4.75 121	70.00
Inches mm	3	7.50 191	9.25 235	5.50 140	111.00

† Non-Shock

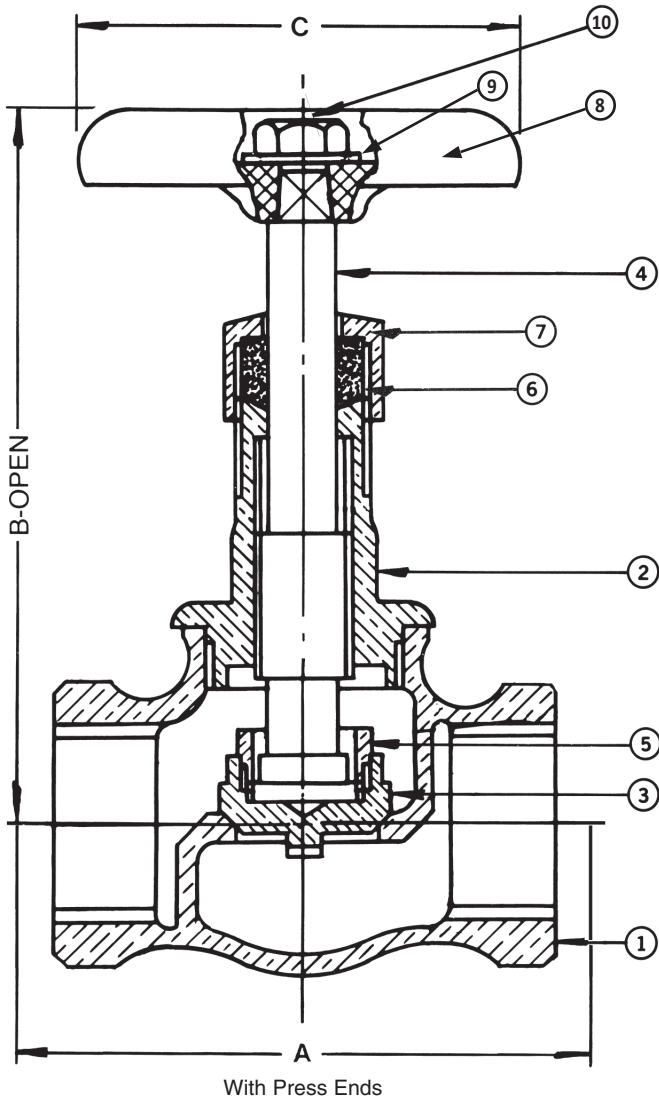
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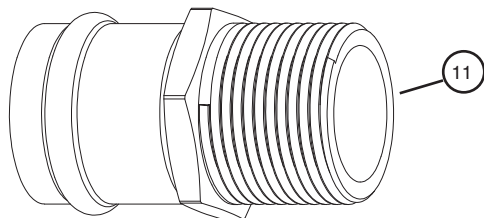
# IB440 P2 1/2"-2"

## ULTRAPRESS®

**Bronze Globe Valve**  
**200 psig @ 250°F †**  
**Threaded Bonnet • Press Ends**  
**Conforms to: MSS SP-80**



Note: Not intended for use in potable water.



Press End Adapter (4151 Series)

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Bonnet	Brass	ASTM B16, 1/2"
		Bronze	ASTM B62, 3/4" - 2"
3	Disc*	Brass	ASTM B453, 3/4" - 1-1/4"
		Bronze	ASTM B62, 1-1/2" - 2"
4	Stem	Brass	ASTM B505
5	Disc Ring*	Brass	ASTM B16, 3/4" - 2"
6	Packing	Graphite	Commercial
7	Packing Nut	Brass	ASTM B16, 1/2" - 3/4", 1-1/4"-2"
		Brass	ASTM B283, 1"
8	Handwheel	Mall. Iron	ASTM A47
9	Name Plate	Aluminum	Commercial
10	Handwheel Nut	Brass	ASTM B16
11	Press Adapter	Brass W/ EPDM O-Ring	ASTM B927

\* 1/2" size has the disc integral with the stem and has no disc ring

DIMENSIONS - INCHES/MILLIMETERS						
Units	Size	STD Insertion Depth	A	B	C	C <sub>v</sub>
Inches mm	1/2	0.87 22	5.31 135	3.63 92	2.00 51	3.64
Inches mm	3/4	0.98 25	6.14 156	3.94 100	2.50 64	6.65
Inches mm	1	0.98 25	6.94 176	4.38 111	2.75 70	11.10
Inches mm	1 1/4	1.02 26	7.45 189	5.19 132	3.44 87	20.00
Inches mm	1 1/2	1.42 36	8.17 208	5.75 146	3.75 95	28.00
Inches mm	2	1.58 40	10.44 265	6.75 172	4.25 108	48.00

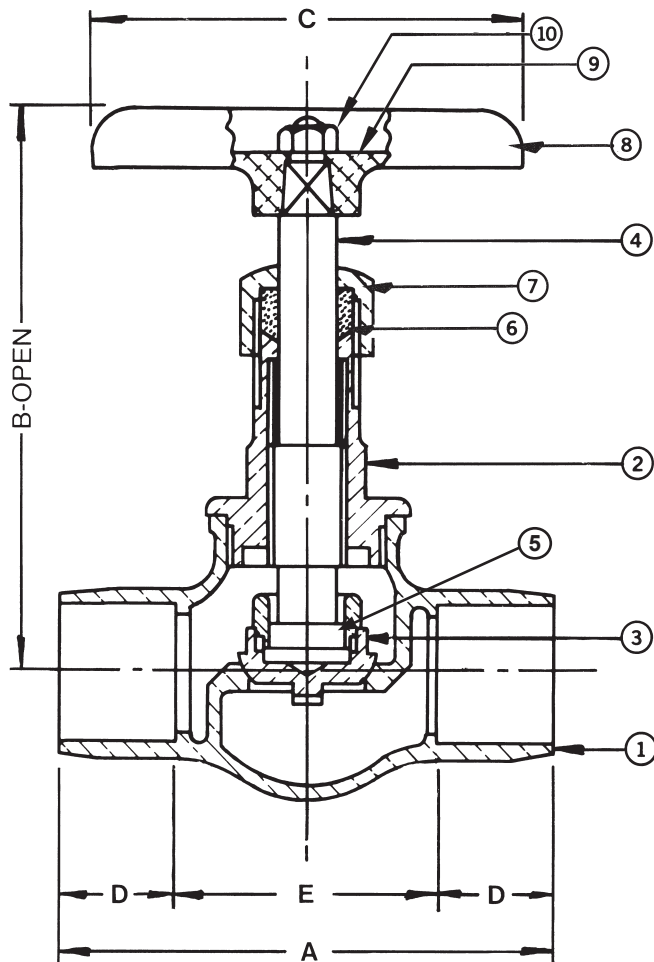
† Non-Shock

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# IB418 3/8"-2"

**Bronze Globe Valve**  
**125 SWP - 200 WOG †**  
**Bronze Disc**  
**Threaded Bonnet • Solder Ends**  
**Conforms to: MSS SP-80**



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Bonnet	Bronze	ASTM B62
3	Disc*	Bronze	ASTM B62
4	Stem	Bronze	ASTM B16
5	Disc Ring	Brass	ASTM B16 3/4" to 2" Incl.
6	Packing	Graphite	Commercial
7	Packing Nut	Brass	ASTM B16
8	Handwheel	Mall. Iron	Commercial
9	Name Plate	Aluminum	Commercial
10	Handwheel Nut	Brass	Commercial

\* 3/8" and 1/2" sizes have the disc integral with the stem and have no disc ring. 3/4" - 1 1/4" sizes Disc material is ASTM B453 C34500

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C <sub>v</sub>
Inches mm	3/8	1.94 49	3.19 82	2.00 51	0.38 10	1.18 30	2.21
Inches mm	1/2	2.44 62	3.75 95	2.00 51	0.50 13	1.44 37	3.64
Inches mm	3/4	3.19 81	4.00 102	2.50 64	0.75 19	1.69 43	6.65
Inches mm	1	3.69 94	4.38 111	2.75 70	0.91 23	1.88 43	11.10
Inches mm	1 1/4	4.19 106	5.13 130	3.44 87	0.97 25	2.25 57	20.00
Inches mm	1 1/2	4.75 121	5.63 143	3.75 95	1.09 28	2.56 65	28.00
Inches mm	2	5.94 151	6.69 170	4.25 121	1.34 34	3.25 83	48.00

† Non-Shock

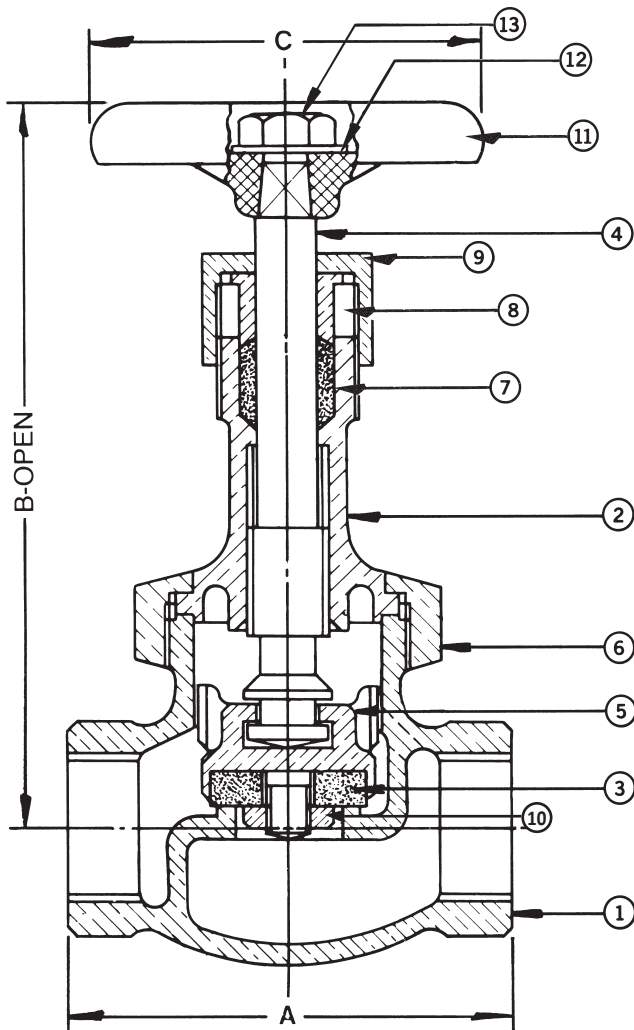
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# IB413T 1/8"-3"

**Bronze Globe Valve  
150 SWP - 300 WOG †  
Teflon Disc**

**Union Bonnet • Threaded Ends  
Conforms to: MSS SP-80**



Note: Not intended for use in potable water.

## MATERIAL LIST

No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Bonnet	Bronze	ASTM B62
3	Disc	Teflon	
4	Stem	Bronze	ASTM B62
5	Disc Holder	Bronze	ASTM B16 1/4" to 3/4" ASTM B62 1" to 3"
6	Union Bonnet Nut	Bronze	ASTM B62
7	Packing	Graphite	Commercial
8	Gland	Brass	ASTM B 124 C37700
9	Packing Nut	Brass	ASTM B 283 C37700
10	Disc Nut	Bronze	Commercial
11	Handwheel	Mall. Iron	Commercial
12	Name Plate	Aluminum	Commercial
13	Handwheel Nut	Brass	Commercial

## DIMENSIONS - INCHES/MILLIMETERS

Units	Size	A	B	C	C <sub>v</sub>
Inches mm	1/8	2.06 52	3.94 100	2.00 51	0.61
Inches mm	1/4	2.06 52	3.94 100	2.00 51	1.16
Inches mm	3/8	2.06 52	4.25 108	2.00 51	2.21
Inches mm	1/2	2.44 62	4.56 116	2.50 64	3.64
Inches mm	3/4	2.94 75	5.19 132	2.75 70	6.65
Inches mm	1	3.44 87	5.50 140	3.44 87	11.10
Inches mm	1 1/4	3.88 98	6.25 159	3.75 95	20.00
Inches mm	1 1/2	4.50 114	7.13 181	3.75 95	28.00
Inches mm	2	5.75 146	8.88 226	4.75 121	48.00
Inches mm	2 1/2	6.75 172	10.63 270	5.50 140	70.00
Inches mm	3	8.00 203	12.13 308	6.00 152	111.00

† Non-Shock

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# IB413T P2 1/2"-2"

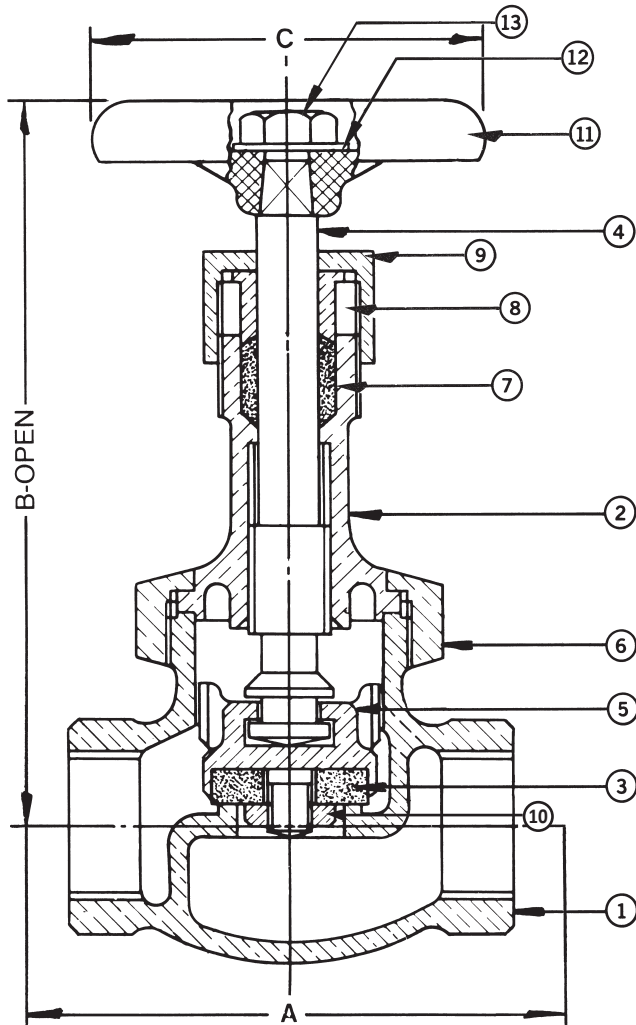
## ULTRAPRESS<sup>®</sup>

**Bronze Globe Valve**  
200 psig @ 250°F †

**Teflon Disc**

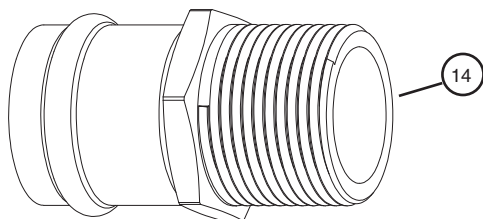
**Union Bonnet • Press Ends**

**Conforms to: MSS SP-80**



With Press Ends

Note: Not intended for use in potable water.



Press End Adapter (4151 Series)

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Bonnet	Bronze	ASTM B62
3	Disc	Teflon	
4	Stem	Bronze	ASTM B62
5	Disc Holder	Bronze	ASTM B16 1/4" to 3/4" ASTM B62 1" to 2"
6	Union Bonnet Nut	Bronze	ASTM B62
7	Packing	Graphite	Commercial
8	Gland	Brass	ASTM B 124 C37700
9	Packing Nut	Brass	ASTM B 124 C37700
10	Disc Nut	Bronze	Commercial
11	Handwheel	Mall. Iron	Commercial
12	Name Plate	Aluminum	Commercial
13	Handwheel Nut	Brass	Commercial
14	Press Adapters	Brass Fitted W/EPDM O-Ring	ASTM C27450

DIMENSIONS - INCHES/MILLIMETERS						
Units	Size	STD Insertion Depth	A	B	C	C <sub>v</sub>
Inches mm	1/2	0.87 22	5.44 138	4.56 116	2.50 64	3.64
Inches mm	3/4	0.98 25	6.52 166	5.19 132	2.75 70	6.65
Inches mm	1	0.98 25	7.44 189	5.50 140	3.44 87	11.10
Inches mm	1 1/4	1.02 26	7.95 202	6.25 159	3.75 95	20.00
Inches mm	1 1/2	1.42 36	8.98 228	7.13 181	3.75 95	28.00
Inches mm	2	1.58 40	11.75 298	8.88 226	4.75 121	48.00

† Non-Shock

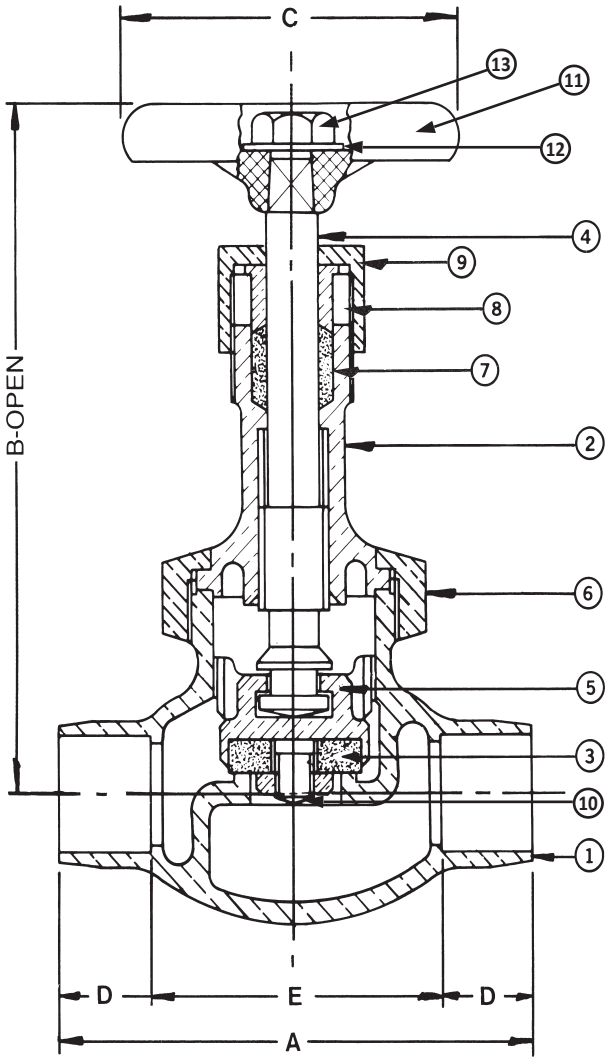
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# IB423 1/2"-3"

**Bronze Globe Valve**  
**150 SWP - 300 WOG †**  
**Teflon Disc**  
**Union Bonnet • Solder Ends**  
**Conforms to: MSS SP-80**



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Bonnet	Bronze	ASTM B62
3	Disc	Teflon	
4	Stem	Bronze	ASTM B62
5	Disc Holder	Bronze	ASTM B62
6	Union Bonnet Nut	Bronze	ASTM B62
7	Packing	Graphite	Commercial
8	Gland	Brass	ASTM B16
9	Packing Nut	Brass 1/2"-1 1/4"	ASTM B16
		Bronze 1 1/2"-3"	ASTM B584 or ASTM B62
10	Disc Nut	Brass	ASTM B16
11	Handwheel	Mall. Iron	Commercial
12	Name Plate	Aluminum	Commercial
13	Handwheel Nut	Brass	ASTM B16

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C <sub>v</sub>
Inches	1/2	2.75	4.50	2.50	0.50	1.75	3.64
mm		70	114	64	13	45	
Inches	3/4	3.56	5.19	2.75	0.75	2.06	6.65
mm		91	132	70	19	52	
Inches	1	4.38	5.50	3.44	0.91	2.56	11.10
mm		111	140	87	23	65	
Inches	1 1/4	5.00	6.25	3.75	0.97	3.06	20.00
mm		127	159	95	25	78	
Inches	1 1/2	5.88	7.13	3.75	1.09	3.70	28.00
mm		149	181	95	28	94	
Inches	2	7.06	8.88	4.75	1.34	4.38	48.00
mm		179	225	121	34	111	
Inches	2 1/2	8.19	10.63	5.50	1.47	5.25	70.00
mm		208	270	140	37	133	
Inches	3	9.56	12.13	6.00	1.66	6.25	111.00
mm		243	308	152	42	159	

† Non-Shock

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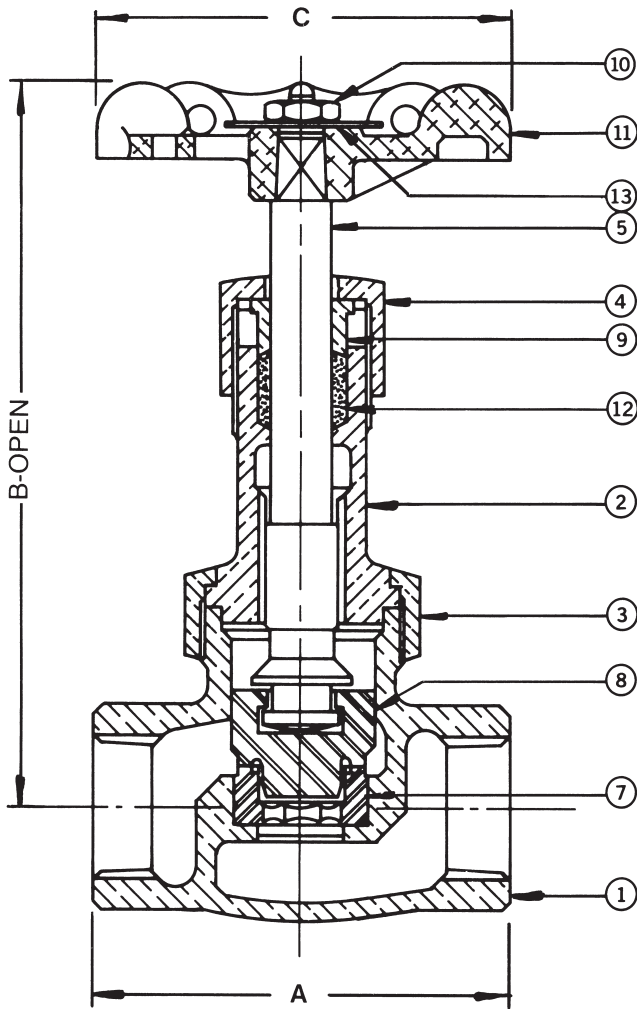
⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).



# IB434 1/4"-2"

**Bronze Globe Valve  
200 SWP - 400 WOG †  
Special Hardened S.S. Seat Ring and Disc  
Union Bonnet • Threaded Ends  
Conforms to: MSS SP-80**

- This valve has flat seat shutoff with plug type disc for throttling action and replaceable seat and disc.



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B61
2	Bonnet	Bronze	ASTM B61
3	Union Bonnet Nut	Bronze	ASTM B61
4	Packing Nut	Bronze	ASTM B62
5	Stem	Bronze	ASTM B61
6 <sup>1</sup>	Disc Ring	Bronze	ASTM B62
7	Seat Ring	St. Steel	ASTM A 276, TY. 420
8	Disc	St. Steel	ASTM A 276, TY. 420
9	Gland	Brass	ASTM B 124 C37700
10	Handwheel Nut	Brass	ASTM B16
11	Handwheel	Mall. Iron	Commercial
12	Packing	Graphite	Graphite
13	Name Plate	Sh. Alum.	Commercial

<sup>1</sup> Not shown- used on 1 1/4" and larger valves only.

DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	A	B	C	C <sub>v</sub>
Inches	1/4	2.13	4.38	2.00	1.16
mm		54	111	51	
Inches	3/8	2.38	4.44	2.00	2.21
mm		60	113	51	
Inches	1/2	2.50	4.50	2.50	3.64
mm		64	114	64	
Inches	3/4	2.94	5.13	2.75	6.65
mm		75	130	70	
Inches	1	3.38	5.25	3.25	11.10
mm		86	133	83	
Inches	1 1/4	3.88	6.19	3.75	20.00
mm		98	157	95	
Inches	1 1/2	4.50	7.25	4.25	28.00
mm		114	184	108	
Inches	2	4.88	8.19	4.75	48.00
mm		124	208	121	

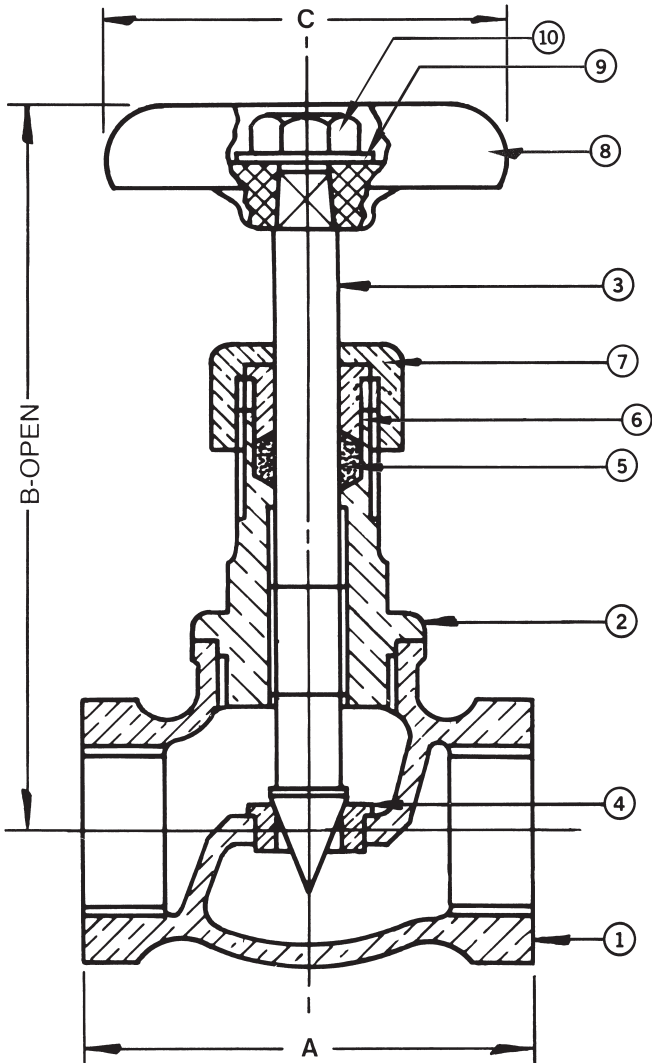
† Non-Shock

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# IB415 1/8"-3/4"

**Bronze Globe Valve  
200 SWP - 400 WOG †  
Needle Point Bronze Stem  
Threaded Bonnet • Threaded Ends  
Conforms to: MSS SP-80**



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B61
2	Bonnet	Bronze	ASTM B61
3	Stem	Bronze	ASTM B61
4	Seat Ring (Pressed In)	Bronze	ASTM B61
5	Packing	Graphite	
6	Gland	Brass	ASTM B 124 C37700
7	Packing	Brass	ASTM B 283 C37700
8	Handwheel	Mall. Iron	Commercial
9	Name Plate	Aluminum	Commercial
10	Handwheel Nut	Brass	Commercial

DIMENSIONS - INCHES/MILLIMETERS				
Units	Size	A	B	C
Inches	1/8	1.63	3.19	2.00
mm		41	81	51
Inches	1/4	1.63	3.19	2.00
mm		41	81	51
Inches	3/8	1.81	3.19	2.00
mm		46	81	51
Inches	1/2	2.31	3.63	2.00
mm		59	92	51
Inches	3/4	2.56	3.94	2.00
mm		65	100	51

† Non-Shock

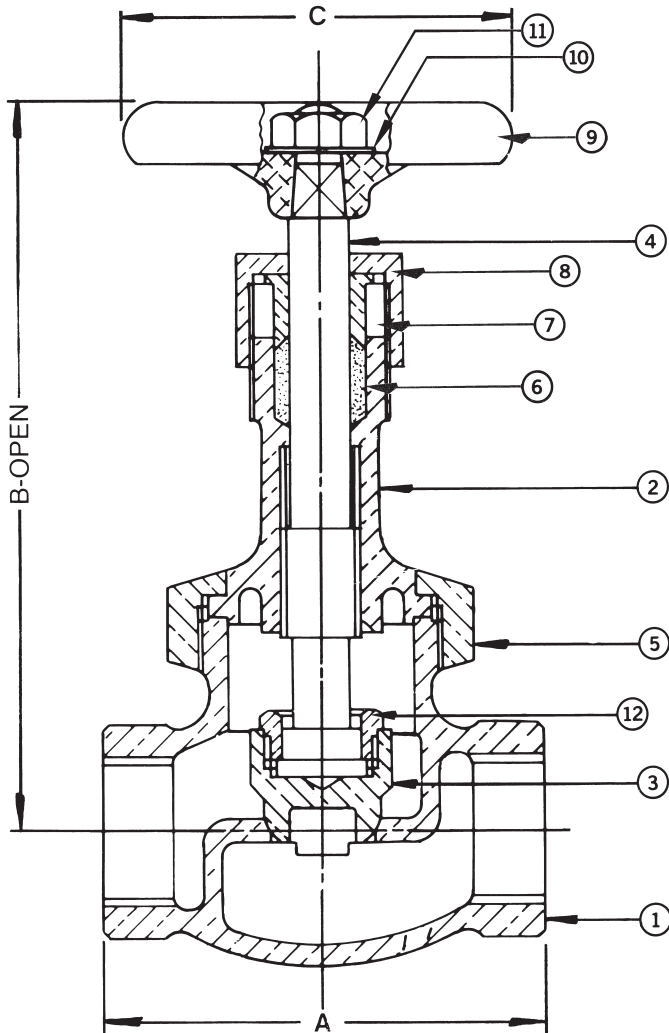
Note: Not intended for use in potable water.

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# IB412 1/4"-2"

**Bronze Globe Valve  
300 SWP - 1000 WOG †  
Bronze Renewable Disc  
Union Bonnet • Threaded Ends  
Conforms to: MSS SP-80**



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B61
2	Bonnet	Bronze	ASTM B61
3	Disc	Bronze	ASTM B61
4	Stem	Bronze	ASTM B61
5	Union Bonnet Nut	Bronze	ASTM B61
6	Packing	Graphite	Commercial
7	Gland	Brass	ASTM B 124 C37700
8	Packing Nut	Brass	ASTM B16
9	Handwheel	Mall. Iron	Commercial
10	Name Plate	Aluminum	Commercial
11	Handwheel Nut	Brass	Commercial
12	Disc Ring	Bronze	Commercial

1/4" to 1/2" sizes have the disc integral with the stem and have no disc ring

DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	A	B	C	C <sub>v</sub>
Inches mm	1/4	2.06 52	4.00 102	2.00 51	1.16
Inches mm	3/8	2.06 52	4.00 102	2.00 51	2.21
Inches mm	1/2	2.44 62	4.50 114	2.50 64	3.64
Inches mm	3/4	2.94 75	5.19 132	2.75 70	6.65
Inches mm	1	3.75 95	6.38 162	3.44 87	11.10
Inches mm	1 1/4	4.25 108	7.00 178	3.75 95	20.00
Inches mm	1 1/2	4.75 121	7.75 197	4.25 108	28.00
Inches mm	2	5.75 146	10.00 254	4.75 121	48.00

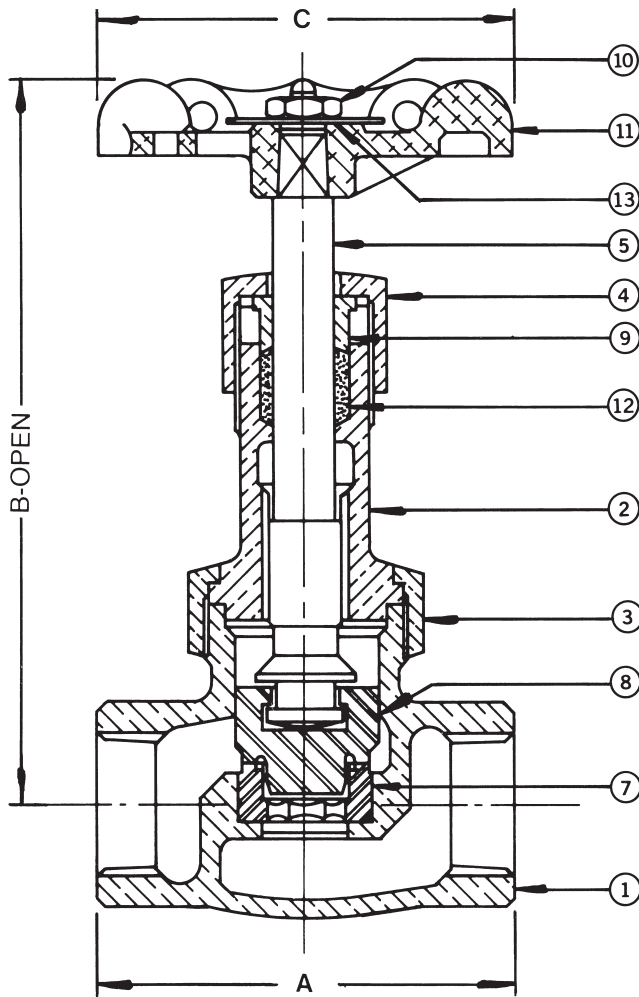
† Non-Shock

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# IB444 1/4"-2"

**Bronze Globe Valve  
300 SWP - 1000 WOG †  
Special Hardened S.S. Seat Ring and Disc  
Union Bonnet • Threaded Ends  
Conforms to: MSS SP-80**



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B61
2	Bonnet	Bronze	ASTM B61
3	Union Bonnet Nut	Bronze	ASTM B61
4	Packing Nut	Bronze	ASTM B62
5	Stem	Bronze	ASTM B61
6 <sup>1</sup>	Disc Ring	Bronze	ASTM B62
7	Seat Ring	St. Steel	ASTM A 276, TY. 420
8	Disc	St. Steel	ASTM A 276, TY. 420
9	Gland	Brass	ASTM B16
10	Handwheel Nut	Brass	ASTM B16
11	Handwheel	Mall. Iron	Commercial
12	Packing	Graphite	
13	Name Plate	Sh. Alum.	Commercial

<sup>1</sup> Not shown- used on 1 1/4" and larger valves only.

• This valve has flat seat shutoff with plug type disc for throttling action and replaceable seat and disc.

DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	A	B	C	C <sub>v</sub>
Inches mm	1/4	2.13 54	4.38 111	2.00 51	1.16
Inches mm	3/8	2.38 60	4.44 113	2.00 51	2.21
Inches mm	1/2	2.75 70	4.50 114	2.50 64	3.64
Inches mm	3/4	3.19 81	5.13 130	2.75 70	6.65
Inches mm	1	3.63 92	5.38 137	3.25 83	11.10
Inches mm	1 1/4	4.13 105	6.25 159	3.75 95	20.00
Inches mm	1 1/2	4.75 121	7.38 187	4.25 108	28.00
Inches mm	2	5.13 130	8.38 213	4.75 121	48.00

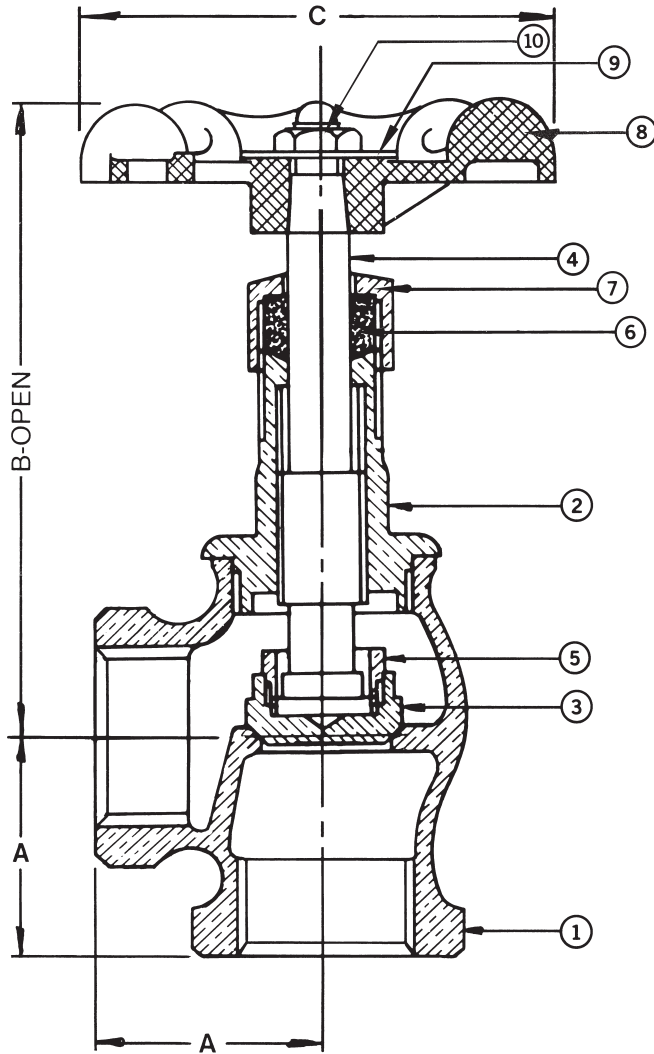
† Non-Shock

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# IB463 1/4" - 2 1/2"

**Bronze Angle Valve**  
**125 SWP - 200 WOG †**  
**Bronze Disc**  
**Threaded Bonnet • Threaded Ends**  
**Conforms to: MSS SP-80**



Note: Not intended for use in potable water.

## MATERIAL LIST

No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Bonnet	Bronze	ASTM B62
3	Disc	Bronze	ASTM B62
4	Stem	Bronze	ASTM B62
5	Disc Ring	Brass	ASTM B 16 3/4" to 2" ASTM B 62 2 1/2"
6	Packing	Graphite	Commercial
7	Packing Nut	Brass	ASTM B16
8	Handwheel	Mall. Iron	Commercial
9	Name Plate	Aluminum	Commercial
10	Handwheel Nut	Brass	Commercial
11	Gland (not shown)	Bronze	ASTM B 16

• 1/4" to 1/2" sizes have the disc integral with the stem and have no disc ring.

## DIMENSIONS - INCHES/MILLIMETERS

Units	Size	A	B	C	C <sub>v</sub>
Inches mm	1/4	0.75 19	3.06 78	2.00 51	1.60
Inches mm	3/8	0.91 23	3.19 81	2.00 51	3.10
Inches mm	1/2	1.00 25	3.63 92	2.00 51	5.10
Inches mm	3/4	1.25 32	3.94 100	2.50 64	9.20
Inches mm	1	1.44 37	4.38 111	2.75 70	16.00
Inches mm	1 1/4	1.69 43	5.19 132	3.44 87	28.00
Inches mm	1 1/2	1.81 46	5.75 146	3.75 95	39.00
Inches mm	2	2.19 56	6.75 172	4.25 108	66.00
Inches mm	2 1/2	3.00 76	8.63 219	4.75 121	100.00

† Non-Shock

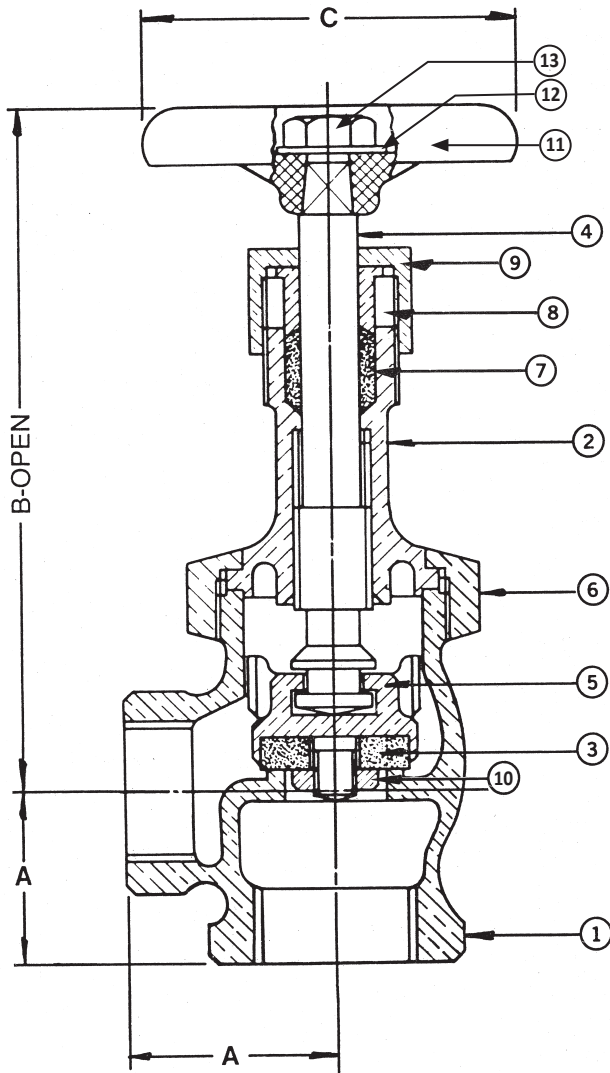
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# IB454T 1/4"-2"

**Bronze Angle Valve  
150 SWP - 300 WOG †  
Teflon Disc**

**Union Bonnet • Threaded Ends  
Conforms to: MSS SP-80**



Note: Not intended for use in potable water.

## MATERIAL LIST

No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Bonnet	Bronze	ASTM B62
3	Disc	Teflon	
4	Stem	Bronze	ASTM B62
5	Disc Ring	Brass	ASTM B505 1/4" to 3/4" ASTM B 62 1" to 2"
6	Union Bonnet Nut	Bronze	ASTM B62
7	Packing	Graphite	Commercial
8	Gland	Bronze	ASTM B16
9	Packing Nut	Bronze	Commercial
10	Disc Nut	Brass	Commercial
11	Handwheel	Mall. Iron	Commercial
12	Identification Plate	Aluminum	Commercial
13	Handwheel Nut	Brass	Commercial

## DIMENSIONS - INCHES/MILLIMETERS

Units	Size	A	B	C	C <sub>v</sub>
Inches mm	1/4	1.06 27	3.94 100	2.00 51	1.60
Inches mm	3/8	1.19 30	4.25 108	2.00 51	3.10
Inches mm	1/2	1.19 30	5.13 130	2.50 64	5.10
Inches mm	3/4	1.44 37	5.19 132	2.75 70	9.20
Inches mm	1	1.75 45	6.56 167	3.25 83	16.00
Inches mm	1 1/4	2.06 52	6.25 159	3.75 95	28.00
Inches mm	1 1/2	2.25 57	7.63 194	4.25 108	39.00
Inches mm	2	2.75 70	8.88 225	4.75 121	66.00

† Non-Shock

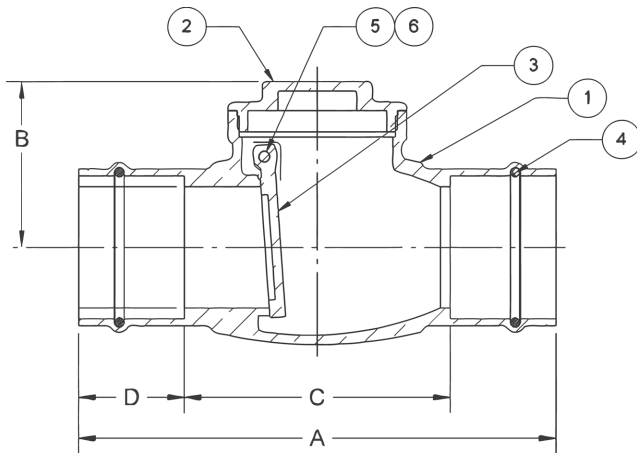
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# 969\* 1/2"-2"

# ULTRAPRESS®

**Brass Check Valve**  
**200 psig @ 250°F †**  
**Horizontal Swing, Press Ends**



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Brass	ASTM B283, C37700
2	Cap	Brass	ASTM B283, C37700
3	Disc	Brass	ASTM B283, C37700
4	O-Ring	EPDM	D2000 NSF61
5	Pin	St. Steel	ASTM A276 TY. 304
6	Side Plug	Brass	ASTM B124, C37700

\* Ultra Press Valves are designed and qualified for use in copper tubing systems only, Types K, L, & M per ASTM B88. For installation instructions please see engineering section on website.

DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	A	B	C	D
Inches	1/2	3.35	1.38	1.7	0.83
mm		85	35	43	21
Inches	3/4	3.74	1.43	1.75	0.99
mm		95	36	45	25
Inches	1	4.36	1.74	2.38	0.99
mm		111	44	61	25
Inches	1 1/4	4.97	1.99	2.92	1.02
mm		126	51	74	26
Inches	1 1/2	6.13	2.28	3.3	1.42
mm		156	58	84	36
Inches	2	7.16	2.48	3.99	1.59
mm		182	63	101	40

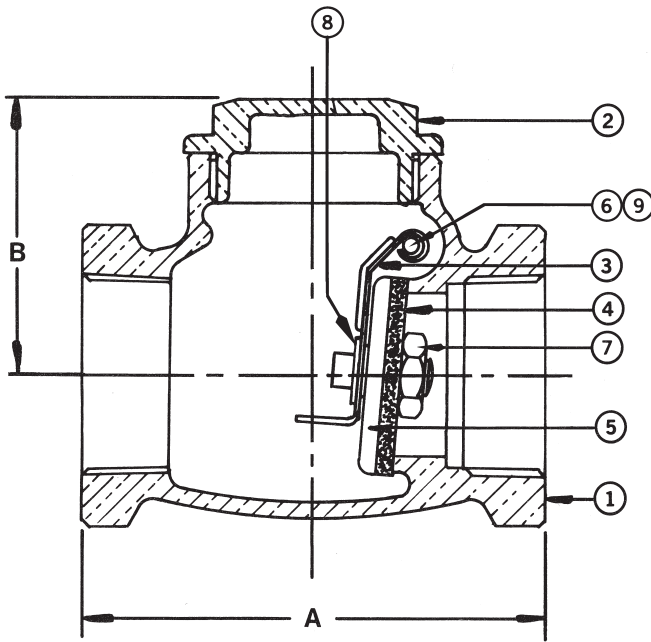
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# IB904/IB940 1/4"-3"

**Bronze Check Valve**  
**125 SWP - 200 WOG †**  
**Horizontal Swing • Threaded Ends**  
**Conforms to: MSS SP-80**



DIMENSIONS - INCHES/MILLIMETERS				
Units	Size	A	B	C <sub>v</sub>
Inches mm	1/4	2.13 54	1.32 34	3.3
Inches mm	3/8	2.13 54	1.32 34	6.0
Inches mm	1/2	2.31 59	1.32 34	10.0
Inches mm	3/4	2.63 67	1.69 43	18.0
Inches mm	1	3.25 83	2.00 51	31.0
Inches mm	1 1/4	3.56 91	2.13 54	54.0
Inches mm	1 1/2	4.00 102	2.38 60	76.0
Inches mm	2	4.75 121	2.81 71	131.0
Inches mm	*2 1/2	6.00 152	3.63 92	233.8
Inches mm	*3	6.88 175	4.19 106	286.4

† Non-Shock

\*2 1/2" and 3" not available in the IB940.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Cap	Bronze	ASTM B62
3	Lever	St. Steel-IB904	Commercial 1/4" to 2"
		Bronze-IB904	ASTM B584 2 1/2" and 3"
		Brass-IB940	ASTM B16 1/4" to 2"
4	Disc	Brass-IB904	ASTM B16 1/4" to 3/4"
			ASTM B453 1" to 1 1/2"
		Bronze-IB904	ASTM B62 2" to 3"
5	Disc Holder (509T Only)	Brass	ASTM B16 1/4" to 3/4"
		Bronze	ASTM B62 1" to 2"
6	Pin	St. Steel	Commercial
7	Disc Nut	Brass	ASTM B16
8	Retaining Ring	St. Steel	Commercial
9	Plug (not shown)	Brass	ASTM B16
10	Washer (not shown)	Brass	ASTM B16

Note: Not intended for use in potable water.

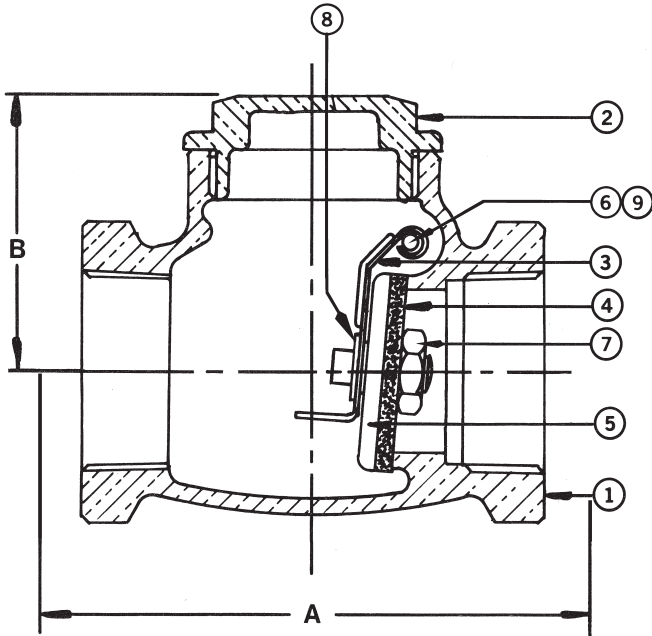
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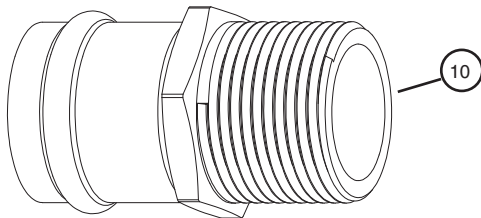
# IB904/IB940 P2 1/2"-2"



**Bronze Check Valve**  
**200 psig @ 250°F †**  
**Horizontal Swing • Press Ends**  
**Conforms to: MSS SP-80**



With Press Ends



Press End Adapter (4151 Series)

Note: Not intended for use in potable water.

## MATERIAL LIST

No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Cap	Bronze	ASTM B62
3	Lever	Stainless Steel IB904 P2	Commercial 1/2" to 2"
		Brass IB940 P2	ASTM B 16 1/2" to 2"
4	Disc	Brass IB904 P2	ASTM B 16 1/2" to 3/4"
			ASTM B 453 1" to 1 1/2"
		Brone IB904 P2	ASTM B62 2"
		PTFE IB940 P2	Commercial
5	Disc Holder (509T P2 Only)	Brass	ASTM B16 1/2" to 3/4"
		Bronze	ASTM B62 1" to 2"
6	Pin	St. Steel	Commercial
7	Disc Nut	Brass	ASTM B16
8	Retaining Ring	St. Steel	Commercial
9	Plug (not shown)	Brass	ASTM B16
10	Press Adapters	Brass Fitting w/EPDM O-ring	ASTM B283 C27450

## DIMENSIONS - INCHES/MILLIMETERS

Units	Size	STD Insertion Depth	A	B	C <sub>V</sub>
Inches mm	1/2	0.87 22	5.31 135	1.32 34	10.0
Inches mm	3/4	0.98 25	6.21 158	1.69 43	18.0
Inches mm	1	0.98 25	7.25 184	2.00 51	31.0
Inches mm	1 1/4	1.02 26	7.63 194	2.13 54	54.00
Inches mm	1 1/2	1.42 36	8.48 215	2.38 60	76.00
Inches mm	2	1.58 40	10.75 273	2.81 71	131.00

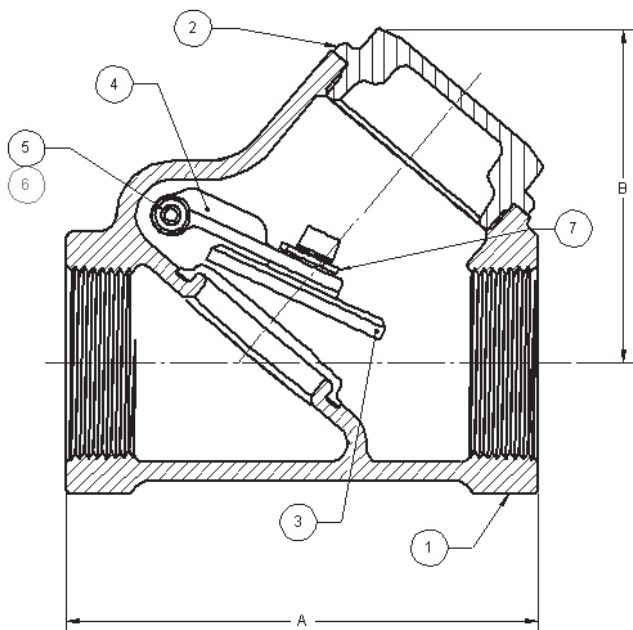
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# 509Y 1/4"-3"

**Bronze Check Valve**  
**125 SWP - 200 WOG †**  
**Horizontal Swing • Threaded Ends**  
**Y-Pattern**  
**Conforms to: MSS SP-80**



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Cast Bronze	ASTM B62
2	Cap	Brass (1/4"-3/8") Cast Bronze (1/2" and Larger)	ASTM B16 ASTM B62
3	Disc	Bronze (1/4"-3/8") Brass (1/2"- 1-1/2") Cast Bronze (2"-3")	ASTM B505 ASTM B453 ASTM B62
4	Lever	Silicon Bronze (1/4" - 2") Cast Bronze (2 1/2" - 3")	ASTM B584 ASTM B62
5	Pin	St. Steel	TYPE 303
6	Plug (not shown)	Brass	ASTM B16
7	Retaining Ring	St. Steel	TYPE 304

DIMENSIONS - INCHES/MILLIMETERS				
Units	Size	A	B	C <sub>v</sub>
Inches mm	1/4	2.25 57	1.63 41	2.3
Inches mm	3/8	2.25 57	1.63 41	4.3
Inches mm	1/2	2.63 67	1.75 45	7.2
Inches mm	3/4	3.00 76	1.94 49	13.0
Inches mm	1	3.69 94	2.50 64	22.0
Inches mm	1 1/4	4.38 111	3.00 76	39.0
Inches mm	1 1/2	4.63 118	3.31 84	56.0
Inches mm	2	5.88 149	4.00 102	92.0
Inches mm	2 1/2	7.00 178	4.75 121	150.0
Inches mm	3	7.88 200	5.57 141	240.0

† Non-Shock

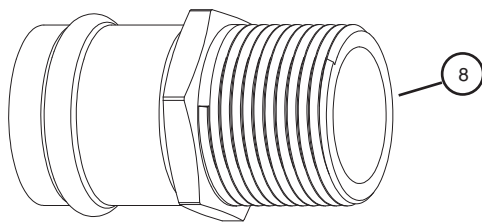
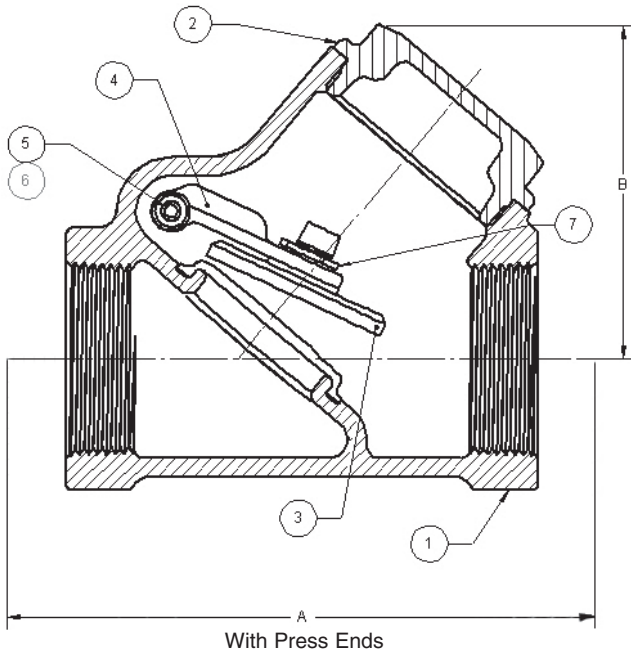
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# 509Y P2 1/2"-2"

## ULTRAPRESS®

**Bronze Check Valve**  
**200 psig @ 250°F †**  
**Horizontal Swing • Press Ends**  
**Y-Pattern**  
**Conforms to: MSS SP-80**



Press End Adapter (4151 Series)

Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Cast Bronze	ASTM B62
2	Cap	Cast Bronze (1/2" and Larger)	ASTM B62
3	Disc	Brass (1/2"- 1-1/2") Cast Bronze (2")	ASTM B453 ASTM B62
4	Lever	Silicon Bronze	ASTM B584
5	Pin	St. Steel	TYPE 303
6	Plug (not shown)	Brass	ASTM B16
7	Retaining Ring	St. Steel	TYPE 304
8	Press Adapters	Brass Fitting W/EPDM O-Ring	ASTM B283 C27450

DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	STD Insertion Depth	A	B	C <sub>v</sub>
Inches mm	1/2	0.87 22	5.63 143	1.75 45	7.2
Inches mm	3/4	0.98 25	6.58 167	1.94 49	13.0
Inches mm	1	0.98 25	7.69 195	2.50 64	22.0
Inches mm	1 1/4	1.02 26	8.45 215	3.00 76	39.0
Inches mm	1 1/2	1.42 36	9.11 231	3.31 84	56.0
Inches mm	2	1.58 40	11.88 302	4.00 101	92.0

† Non-Shock

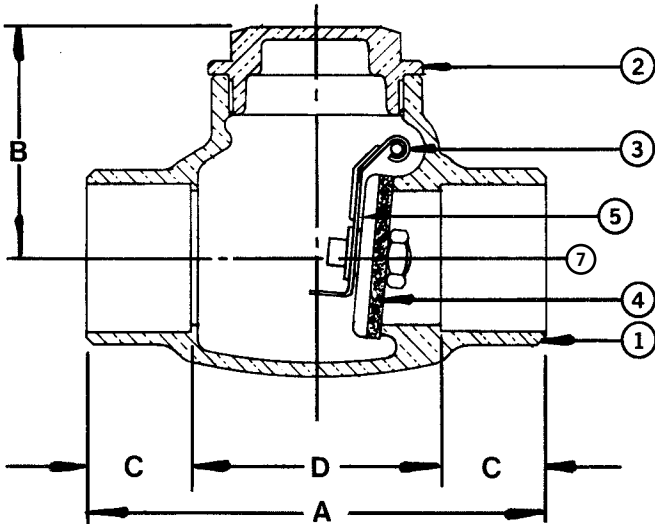
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# IB912 3/8"-3"

**Bronze Check Valve**  
**125 SWP - 200 WOG †**  
**Bronze Disc**  
**Horizontal Swing • Solder Ends**  
**Conforms to: MSS SP-80**

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Cap	Bronze	ASTM B62
3	Lever	St. Steel	Commercial
4	Disc	Brass	ASTM B16 1/4" to 3/4"
			ASTM B453 1" to 1 1/2"
		Bronze	ASTM B62 2" to 3"
5	Pin	St. Steel	Commercial
6	Plug (not shown)	Brass	ASTM B16
7	Retaining Ring	St. Steel	Commercial



Note: Not intended for use in potable water.

DIMENSIONS - INCHES/MILLIMETERS						
Units	Size	A	B	C	D	C <sub>v</sub>
Inches	3/8	2.25	1.44	0.38	1.50	6.0
mm		57	37	10	38.1	
Inches	1/2	2.56	1.44	0.50	1.56	10.0
mm		65	37	13	40	
Inches	3/4	3.31	1.69	0.75	1.75	18.0
mm		84	43	19	45	
Inches	1	4.00	1.97	0.91	2.19	31.0
mm		102	50	23	56	
Inches	1 1/4	4.25	2.16	0.97	2.31	54.0
mm		108	55	25	59	
Inches	1 1/2	4.94	2.41	1.09	2.75	76.0
mm		125	61	28	70	
Inches	2	6.13	2.81	1.34	3.44	131.0
mm		156	72	34	87	
Inches	2 1/2	7.38	3.63	1.47	4.44	233.8
mm		187	92	37	123	
Inches	3	8.50	4.81	1.66	5.19	286.4
mm		216	106	42	132	

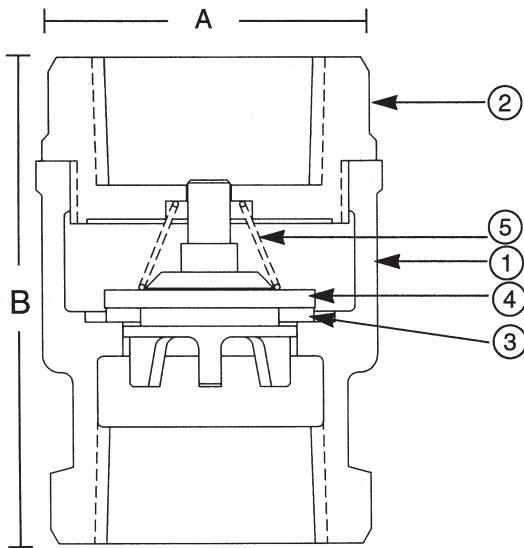
† Non-Shock

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# 943 3/8"-2"

## Bronze Lift Check Valve 250 WOG † Spring Loaded • Threaded Ends



**Do not use for reciprocating air compressor service.**

**Note 1:** Not intended for use in potable water.

**Note 2:** Check Valves may be installed in both the horizontal and vertical lines with upward flow or in any intermediate position.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Cast Bronze	ASTM B584, C84400
2	Tail Piece	Cast Bronze	ASTM B584, C84400
3	Disc	Buna	
4	Disc Holder	Cast Bronze	ASTM B584, C85700
5	Spring	Bronze	ASTM B103, C52100

DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	A	B	Weight	C <sub>v</sub>
Inches mm	3/8	1.22 31	1.97 50	0.35	2.5
Inches mm	1/2	1.22 31	2.09 53.2	0.44	4.1
Inches mm	3/4	1.50 38	2.31 59	0.57	7.6
Inches mm	1	1.91 48	2.66 68	0.89	13.0
Inches mm	1 1/4	2.16 55	3.09 79	1.28	23.0
Inches mm	1 1/2	2.59 66	3.31 84	1.72	31.0
Inches mm	2	3.13 51	3.78 96	2.58	54.0

† Non-Shock

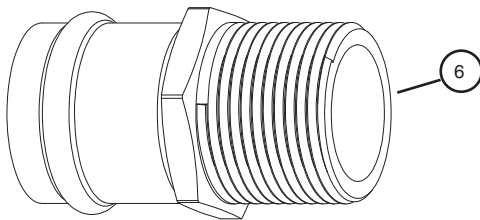
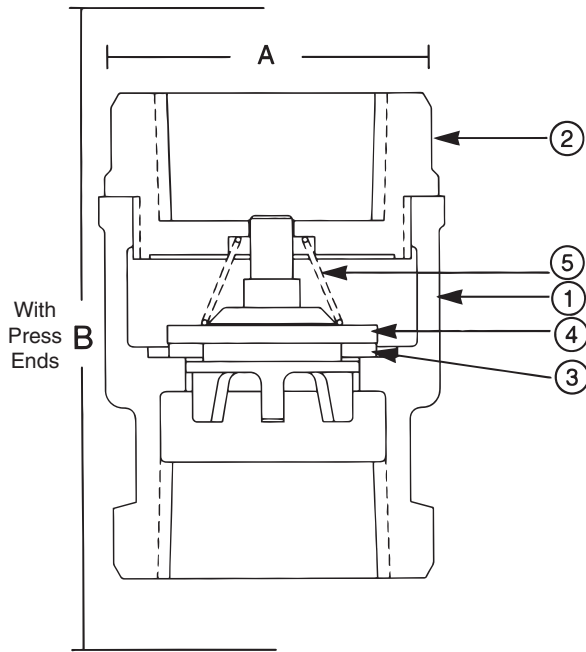
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# 943 P2 1/2"-2"



**Bronze Lift Check Valve**  
**200 psig @ 250°F †**  
**Spring Loaded • Press Ends**



Press End Adapter (4151 Series)

**Do not use for reciprocating air compressor service.**

**Note 1:** Not intended for use in potable water.

**Note 2:** Check Valves may be installed in both the horizontal and vertical lines with upward flow or in any intermediate position.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Cast Bronze	ASTM B584, C84400
2	Tail Piece	Cast Bronze	ASTM B584, C84400
3	Disc	Buna	Commercial
4	Disc Holder	Cast Bronze	ASTM B584, C85700
5	Spring	Bronze	ASTM B103, C52100
6	Press Adapter	Brass Fitting W/EPDM O-Ring	ASTM C27450

DIMENSIONS - INCHES/MILLIMETERS						
Units	Size	STD Insertion Depth	A	B	Weight	C <sub>v</sub>
Inches mm	1/2	0.87 22	1.22 31	4.22 107	0.44	4.1
Inches mm	3/4	0.98 166	1.50 38	5.08 129	0.57	7.6
Inches mm	1	0.98 166	1.91 48	5.91 150	0.89	13.0
Inches mm	1 1/4	1.02 26	2.16 55	6.23 158	1.28	23.0
Inches mm	1 1/2	1.42 36	2.59 66	7.07 180	1.72	31.0
Inches mm	2	1.58 40	3.13 79	9.13 232	2.58	54.0

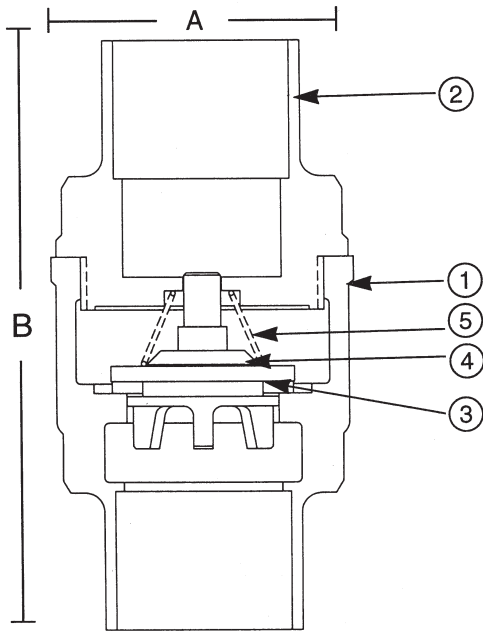
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# 947 3/8"-2"

**Bronze Lift Check Valve**  
**250 WOG †**  
**Spring Loaded • Solder Ends**  
**Buna (B) or TFE (T)**



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Cast Bronze	ASTM B584, C84400
2	Tail Piece	Cast Bronze	ASTM B584, C84400
3	Disc	BUNA	
4	Disc Holder	Cast Bronze	ASTM B584, C85700
5	Spring	Bronze	ASTM B103, C52100

**Do not use for reciprocating air compressor service.**

**Note 1:** Not intended for use in potable water.

**Note 2:** Check Valves may be installed in both the horizontal and vertical lines with upward flow or in any intermediate position.

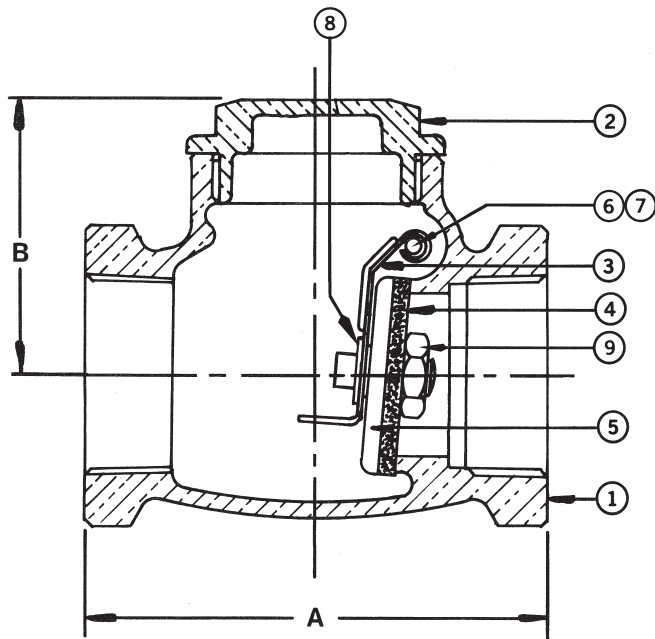
DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	A	B	Weight	C <sub>v</sub>
Inches mm	3/8	1.22 31	1.97 50	0.35	2.5
Inches mm	1/2	1.22 31	2.41 61	0.45	4.1
Inches mm	3/4	1.50 38	2.81 71	0.62	7.6
Inches mm	1	1.91 48	3.53 90	0.97	13.0
Inches mm	1 1/4	2.16 55	4.22 107	1.42	23.0
Inches mm	1 1/2	2.59 66	4.88 124	1.84	31.0
Inches mm	2	3.13 79	5.09 129	2.75	54.0

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# IB946 1/4"-2"

**Bronze Check Valve**  
**150 SWP - 300 WOG †**  
**Horizontal Swing • Threaded Ends**  
**TFE Disc**  
**Conforms to: MSS SP-80**



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Cap	Bronze	ASTM B62
3	Lever	Brass	Commercial
4	Disc	TFE	
5	Disc Holder	Brass	ASTM B16 1/4" to 3/4"
		Bronze	ASTM B62 1" to 2"
6	Pin	St. Steel	Commercial
7	Plug (not shown)	Brass	ASTM B16
8	Retaining Ring	St. Steel	Commercial
9	Disc Nut	Brass	ASTM B16

DIMENSIONS - INCHES/MILLIMETERS				
Units	Size	A	B	C <sub>v</sub>
Inches mm	1/4	2.13 54	1.32 34	3.3
Inches mm	3/8	2.13 54	1.32 34	6.0
Inches mm	1/2	2.31 59	1.32 34	10.0
Inches mm	3/4	2.63 67	1.69 43	18.0
Inches mm	1	3.25 83	2.00 51	31.0
Inches mm	1 1/4	3.56 91	2.13 54	54.0
Inches mm	1 1/2	4.00 102	2.38 60	76.0
Inches mm	2	4.75 121	2.81 71	131.0

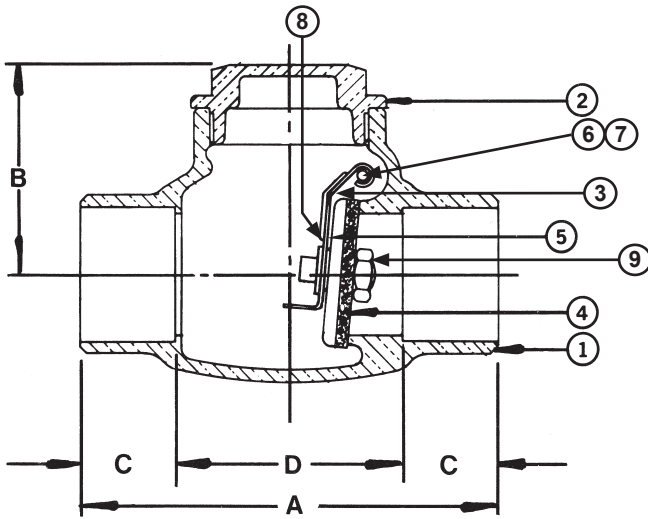
† Non-Shock

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# IB945 1/2"-2"

**Bronze Check Valve**  
**150 SWP - 300 WOG †**  
**Horizontal Swing • Solder Ends**  
**TFE Disc**  
**Conforms to: MSS SP-80**



Note: Not intended for use in potable water.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Cap	Bronze	ASTM B62
3	Lever	Brass	Commercial
4	Disc	Teflon	
5	Disc Holder	Brass	ASTM B16 1/2" to 3/4"
		Bronze	ASTM B62 1" to 2"
6	Pin	St. Steel	Commercial
7	Plug (not shown)	Brass	ASTM B16
8	Retaining Ring	St. Steel	Commercial
9	Disc Nut	Brass	ASTM B16

DIMENSIONS - INCHES/MILLIMETERS						
Units	Size	A	B	C	D	C <sub>v</sub>
Inches mm	1/2	2.75 70	1.32 34	0.50 13	1.75 44	10.0
Inches mm	3/4	3.31 84	1.69 43	0.75 19	1.81 46	18.0
Inches mm	1	4.00 102	1.97 50	0.91 23	2.18 55	31.0
Inches mm	1 1/4	4.25 108	2.16 55	0.97 25	2.31 59	54.0
Inches mm	1 1/2	4.94 125	2.41 61	1.09 28	2.76 70	76.0
Inches mm	2	6.13 156	2.81 71	1.34 34	3.45 88	131.0

† Non-Shock

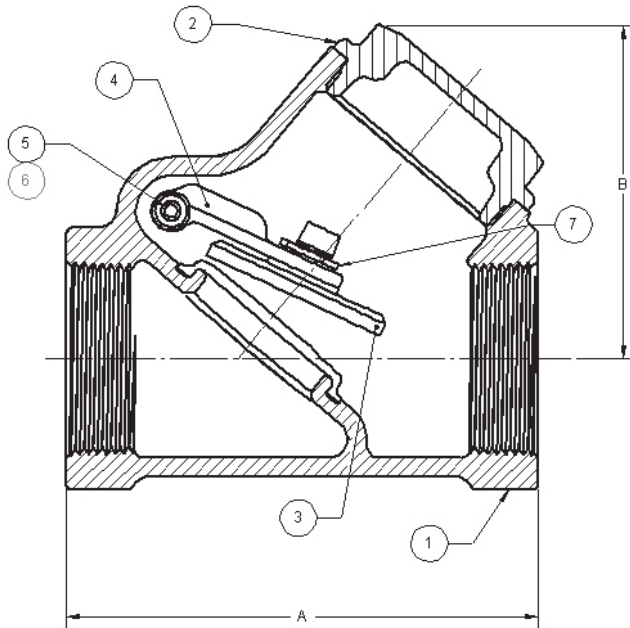
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# 515Y 1/4"-3"

**Bronze Check Valve**  
**150 SWP - 300 WOG †**  
**Horizontal Swing • Threaded Ends**  
**Y-Pattern**  
**Conforms to: MSS SP-80**

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Cast Bronze	ASTM B62
2	Cap	Brass (1/4" - 3/8") Cast Bronze (1/2" and Larger)	ASTM B16 ASTM B62
3	Disc	Bronze (1/4" - 3/8") Brass (1/2" - 1 1/2") Cast Bronze (2"-3")	ASTM B505 ASTM B453 ASTM B62
4	Lever	Silicon Bronze (1/4" - 2") Cast Bronze (2 1/2" - 3")	ASTM B584 ASTM B62
5	Pin	St. Steel	TYPE 303
6	Plug (not shown)	Brass	ASTM B16
7	Retaining Ring	St. Steel	TYPE 304



Note: Not intended for use in potable water.

DIMENSIONS - INCHES/MILLIMETERS				
Units	Size	A	B	C <sub>v</sub>
Inches mm	1/4	2.25 57	1.63 41	2.3
Inches mm	3/8	2.25 57	1.63 41	4.3
Inches mm	1/2	2.63 67	1.75 45	7.2
Inches mm	3/4	3.00 76	1.94 49	13.0
Inches mm	1	3.69 94	2.50 64	22.0
Inches mm	1 1/4	4.38 111	3.00 76	39.0
Inches mm	1 1/2	4.63 118	3.31 84	56.0
Inches mm	2	5.88 149	4.00 102	92.0
Inches mm	2 1/2	7.00 178	4.75 121	150.0
Inches mm	3	7.88 200	5.57 141	240.0

† Non-Shock

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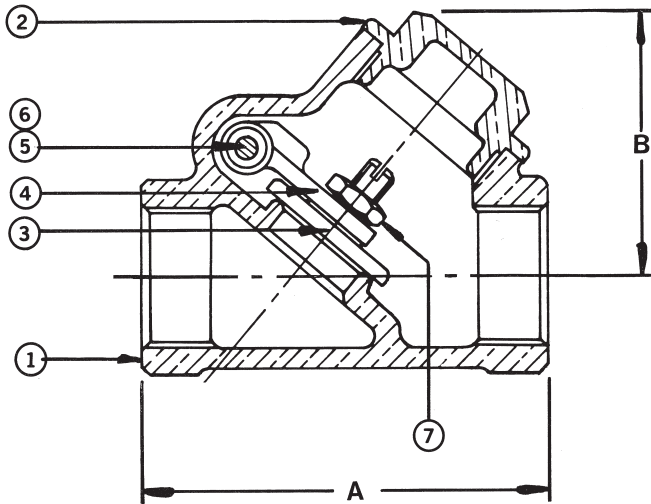
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# IB944 1/4"-3"

**Bronze Check Valve**  
**200 SWP - 400 WOG †**  
**Horizontal Swing • Threaded Ends**  
**Y-Pattern**  
**Conforms to: MSS SP-80**

## MATERIAL LIST

No.	PART	MATERIAL	SPECIFICATION
1	Body	Cast Bronze	ASTM B61
2	Cap	Cast Bronze	ASTM B61
3	Disc	Cast Bronze	ASTM B61
4	Lever	Cast Bronze	ASTM B61
5	Pin	St. Steel	Commercial
6	Plug (not shown)	Rod Brass	ASTM B16
7	Retaining Ring	St. Steel	ASTM A276 TY.304



Note: Not intended for use in potable water.

## DIMENSIONS - INCHES/MILLIMETERS

Units	Size	A	B	C <sub>v</sub>
Inches mm	1/4	2.25 57	1.63 41	2.3
Inches mm	3/8	2.25 57	1.63 41	4.3
Inches mm	1/2	2.63 67	1.75 44	7.2
Inches mm	3/4	3.00 76	1.94 49	13.0
Inches mm	1	3.69 94	2.50 64	22.0
Inches mm	1 1/4	4.38 111	3.00 76	39.0
Inches mm	1 1/2	4.63 118	3.31 84	56.0
Inches mm	2	5.88 149	4.00 102	92.0
Inches mm	2 1/2	7.00 178	4.75 121	150.0
Inches mm	3	7.88 200	5.57 141	240.0

† Non-Shock

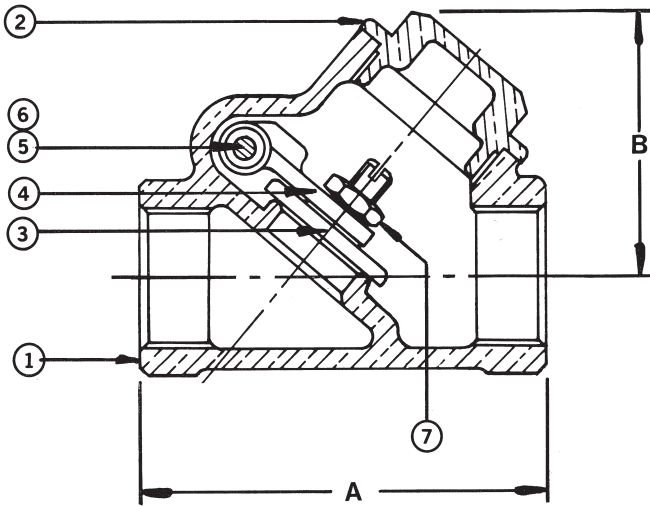
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# IB949 1/4"-3"

**Bronze Check Valve**  
**300 SWP - 600 WOG †**  
**Horizontal Swing • Threaded Ends**  
**Y-Pattern**  
**Conforms to: MSS SP-80**

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Cast Bronze	ASTM B61
2	Cap	Cast Bronze	ASTM B61
3	Disc	Cast Bronze	ASTM B61
4	Lever	Cast Bronze	ASTM B61
5	Pin	St. Steel	Commercial
6	Plug	Rod Brass	ASTM B16
7	Retaining Ring	St. Steel	ASTM A276 TY.304



Note: Not intended for use in potable water.

DIMENSIONS - INCHES/MILLIMETERS				
Units	Size	A	B	C <sub>v</sub>
Inches mm	1/4	2.25 57	1.63 41	2.3
Inches mm	3/8	2.25 57	1.63 41	4.3
Inches mm	1/2	2.63 67	1.75 44	7.2
Inches mm	3/4	3.00 76	1.94 49	13.0
Inches mm	1	3.69 94	2.50 64	22.0
Inches mm	1 1/4	4.38 111	3.00 76	39.0
Inches mm	1 1/2	4.63 118	3.31 84	56.0
Inches mm	2	5.88 149	4.00 102	92.0
Inches mm	2 1/2	7.00 178	4.75 121	150.0
Inches mm	3	7.88 200	5.57 141	240.0

† Non-Shock

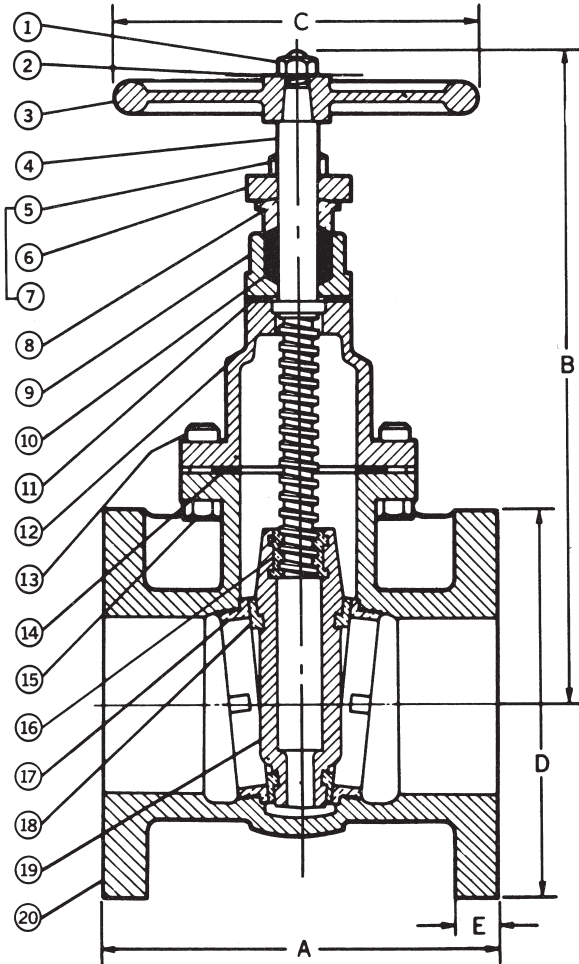
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# IR1138 2"-12"

**Iron Gate Valve**  
**125 SWP - 200 WOG †**  
**Non-Rising Stem • Solid Wedge Disc**  
**Bolted Bonnet • Flanged Ends**  
**Conforms to: MSS SP-70**

Flange shape and drilling to specification ASME B 16.1 (125 lb.)



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Handwheel Nut	Steel	
2	Name Plate	Aluminum	
3	Handwheel	Cast Iron	ASTM A126, Class B
4	Stem	Brass	ASTM B16
5	Gland Follower Nut	Bronze	
6	Gland Follower	Cast Iron	ASTM A126, Class B
7	Gland Follower Bolt	Steel	
8	Packing Gland	Brass	ASTM B16
9	Stuffing Box	Cast Iron	ASTM A126, Class B
10	Packing	Graphite	
11	Stuffing Box Gasket	Graphite	
12	Bonnet	Cast Iron	ASTM A126, Class B
13	Body Bolt	Steel	
14	Body Gasket	Aramid Fiber/NBR	
15	Body Nut	Steel	
16	Wedge Bushing	Cast Bronze	ASTM B62
17	Seat Ring	Cast Bronze	ASTM B62
18	Wedge Face Ring	Cast Bronze	ASTM B62
19	Wedge	Cast Iron	ASTM A126, Class B
20	Body	Cast Iron	ASTM A126, Class B
21	Stuffing Box Nut (not shown)	Bronze	

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C <sub>v</sub>
Inches mm	2	7.00 178	12.00 305	7.00 178	6.00 152	0.63 16	215
Inches mm	2 1/2	7.50 191	13.25 337	7.00 178	7.00 178	0.69 17	335
Inches mm	3	8.00 203	13.50 343	8.00 203	7.50 191	0.75 19	510
Inches mm	4	9.00 229	17.00 432	10.00 254	9.00 229	0.94 24	945
Inches mm	5	10.00 254	18.00 457	12.00 305	10.00 254	0.94 24	1525
Inches mm	6	10.50 267	22.00 559	12.00 305	11.00 279	1.00 25	2250
Inches mm	8	11.50 292	26.50 673	14.00 356	13.50 343	1.13 29	4150
Inches mm	10	13.00 330	30.00 762	16.00 406	16.00 406	1.19 30	6700
Inches mm	12	14.00 356	35.00 889	18.00 457	19.00 483	1.25 32	9925

† Non-Shock

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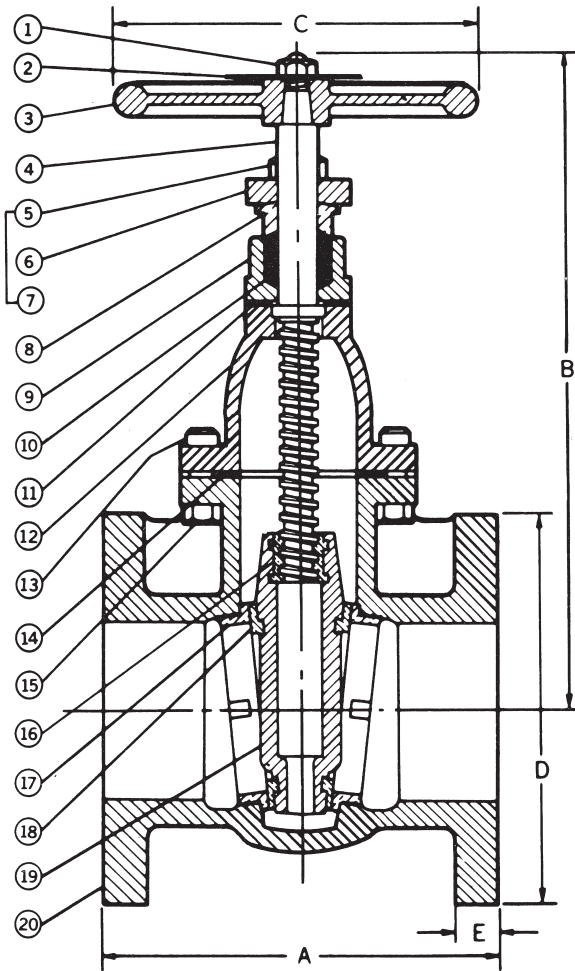
⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).



# IR1138-HI 2"-12"

**Iron Gate Valve**  
**125 SWP - 200 WOG †**  
**Non-Rising Stem • Solid Wedge Disc**  
**Bolted Bonnet • Flanged Ends**  
**Conforms to: MSS SP-70**

Flange shape and drilling to specification ASME B 16.1 (125 lb.)



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Handwheel Nut	Steel	ASTM A307
2	Name Plate	Aluminum	
3	Handwheel	Cast Iron	ASTM A126, Class B
4	Stem	Brass	ASTM B16
5	Gland Follower Nut	Steel	ASTM A307
6	Gland Follower	Ductile Iron	ASTM A536
7	Gland Follower Bolt	Steel	ASTM A307
8	Packing Gland	Cast Bronze	ASTM B62
9	Stuffing Box	Cast Iron	ASTM A126, Class B
10	Packing	Graphite	
11	Stuffing Box Gasket	Graphite	
12	Bonnet	Cast Iron	ASTM A126, Class B
13	Body Bolt	Steel	ASTM A307
14	Body Gasket	Graphite	
15	Body Nut	Steel	ASTM A307
16	Wedge Bushing	Bronze	ASTM B62
17	Seat Ring	Bronze	ASTM B62
18	Wedge Face Ring	Bronze	ASTM B62
19	Wedge	Cast Iron	ASTM A126, Class B
20	Body	Cast Iron	ASTM A126, Class B
21	Stuffing Box Nut (not shown)	Steel	ASTM A307

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C <sub>v</sub>
Inches mm	2	7.00 178	12.00 305	7.00 178	6.00 152	0.63 16	215
Inches mm	2 1/2	7.50 191	13.25 337	7.00 178	7.00 178	0.69 17	335
Inches mm	3	8.00 203	13.50 343	8.00 203	7.50 191	0.75 19	510
Inches mm	4	9.00 229	17.00 432	10.00 254	9.00 229	0.94 24	945
Inches mm	5	10.00 254	18.00 457	12.00 305	10.00 254	0.94 24	1525
Inches mm	6	10.50 267	22.00 559	12.00 305	11.00 279	1.00 25	2250
Inches mm	8	11.50 292	26.50 673	14.00 356	13.50 343	1.13 29	4150
Inches mm	10	13.00 330	30.00 762	16.00 406	16.00 406	1.19 30	6700
Inches mm	12	14.00 356	35.00 889	18.00 457	19.00 483	1.25 32	9925

Suffix HI – Signifies International Valves.

† Non-Shock

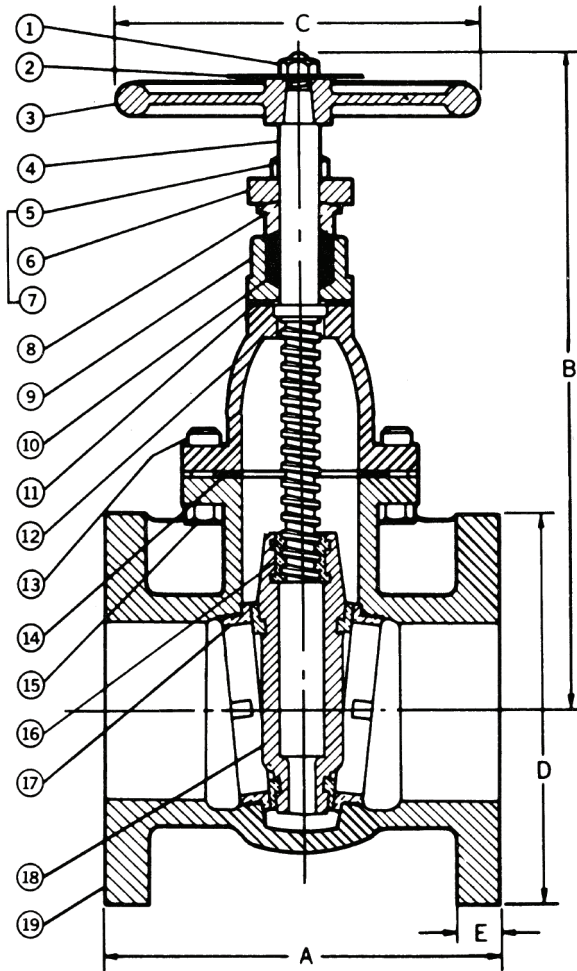
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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

# IR1144-HI 2"-12"

**Iron Gate Valve**  
**125 SWP - 200 WOG †**  
**Non-Rising Stem • Solid Wedge Disc**  
**Bolted Bonnet • Flanged Ends**  
**Conforms to: MSS SP-70**

Flange shape and drilling to specification ASME B 16.1 (125 lb.)



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Handwheel Nut	Ductile Iron	ASTM A536
2	Name Plate	Aluminum	
3	Handwheel	Cast Iron	ASTM A126, Class B
4	Stem	Steel	ASTM A108-Gr.1020
5	Gland Follower Nut	Steel	ASTM A307
6	Gland Follower	Ductile Iron	ASTM A536
7	Gland Follower Bolt	Steel	ASTM A307-B
8	Packing Gland	Cast Iron	ASTM A126, Class B
9	Stuffing Box	Cast Iron	ASTM A126, Class B
10	Packing	Graphite	Graphite
11	Stuffing Box Gasket	Graphite	Graphite
12	Bonnet	Cast Iron	ASTM A126, Class B
13	Body Nut	Steel	ASTM A307-A
14	Body Gasket	Graphite	Graphite
15	Body Nut	Steel	ASTM A563-B
16	Wedge Bushing	Ductile Iron	ASTM A536
17	Seat Ring	Cast Iron	ASTM A126, Class B
18	Wedge	Cast Iron	ASTM A126, Class B
19	Body	Cast Iron	ASTM A126, Class B
20	Stuffing Box Nut (not shown)	Steel	ASTM A563-B

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C <sub>v</sub>
Inches mm	2	7.00 178	12.00 305	7.00 178	6.00 152	0.63 16	215
Inches mm	2 1/2	7.50 191	13.25 337	7.00 178	7.00 178	0.69 17	335
Inches mm	3	8.00 203	13.50 343	8.00 203	7.50 191	0.75 19	510
Inches mm	4	9.00 229	17.00 432	10.00 254	9.00 229	0.94 24	945
Inches mm	5	10.00 254	18.00 457	12.00 305	10.00 254	0.94 24	1525
Inches mm	6	10.50 267	22.00 559	12.00 305	11.00 279	1.00 25	2250
Inches mm	8	11.50 292	26.50 673	14.00 356	13.50 343	1.13 29	4150
Inches mm	10	13.00 330	30.00 762	16.00 406	16.00 406	1.19 30	6700
Inches mm	12	14.00 356	35.00 889	18.00 457	19.00 483	1.25 32	9925

Note: The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (.25%) of lead by weight. Meets the requirements of Senate law S.3874.

† Non-Shock

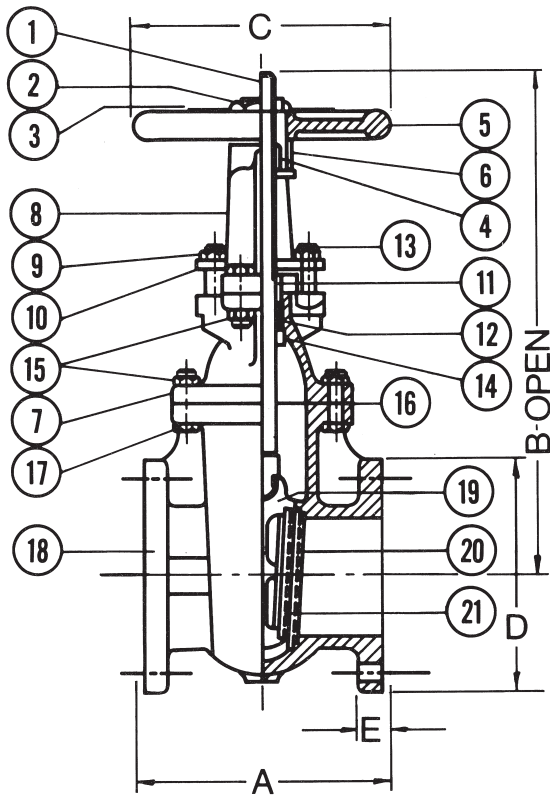
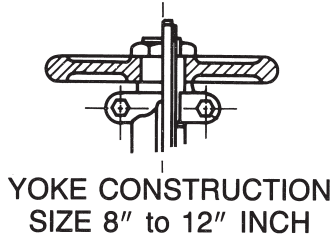
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# IR1140 2"-12"

**Iron Gate Valve**  
**125 SWP - 200 WOG †**  
**OS & Y • Solid Wedge Disc**  
**Bolted Bonnet • Flanged Ends**  
**Conforms to: MSS SP-70**

Flange shape and drilling to specification ASME B 16.1 (125 lb.)



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Stem	Brass	ASTM B16
2	Handwheel Nut	Ductile Iron	
3	Name Plate	Aluminum	
4	Yoke Bushing	Cast Bronze	ASTM B62
5	Handwheel	Cast Iron	ASTM A126, Class B
6 <sup>2</sup>	Yoke Bushing Nut	Cast Iron	ASTM A126, Class B
7 <sup>1</sup>	Bonnet	Cast Iron	ASTM A126, Class B
8 <sup>1</sup>	Yoke	Cast Iron	ASTM A126, Class B
9	Gland Follower Nut	Steel	ASTM A307-B
10	Gland Follower	Ductile Iron	ASTM A536
11	Packing Gland	Cast Bronze	ASTM B62
12	Packing	Graphite	
13	Gland Follower Bolt	Steel	ASTM A307-B
14	Backseat Bushing	Cast Bronze	ASTM B62
15	Nut	Steel	ASTM A307-B
16	Body Gasket	Aramid Fiber/NBR	
17	Bolt	Steel	ASTM A307-B
18	Body	Cast Iron	ASTM A126, Class B
19	Wedge	Cast Iron	ASTM A126, Class B
20	Seat Ring	Cast Bronze	ASTM B62
21	Wedge Face Ring	Cast Bronze	ASTM B62

<sup>1</sup> Sizes 2" to 3" made with yoke integral with bonnet.  
 Sizes 4" through 12" made with separate yoke bolted to bonnet.  
<sup>2</sup> Sizes 2" to 3" only

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C <sub>v</sub>
Inches mm	2	7.00 178	15.00 381	7.00 178	6.00 152	0.63 16	215
Inches mm	2 1/2	7.50 191	16.88 429	7.00 178	7.00 178	0.69 17	335
Inches mm	3	8.00 203	18.75 476	8.00 203	7.50 191	0.75 19	510
Inches mm	4	9.00 229	22.75 578	10.00 254	9.00 229	0.94 24	945
Inches mm	5	10.00 254	27.13 689	12.00 305	10.00 254	0.94 24	1525
Inches mm	6	10.50 267	30.13 765	12.00 305	11.00 279	1.00 25	2250
Inches mm	8	11.50 292	40.13 1019	14.00 356	13.50 343	1.13 29	4150
Inches mm	10	13.00 330	48.25 1226	16.00 406	16.00 406	1.81 46	6700
Inches mm	12	14.00 356	56.88 1445	18.00 457	19.00 483	1.25 32	9925

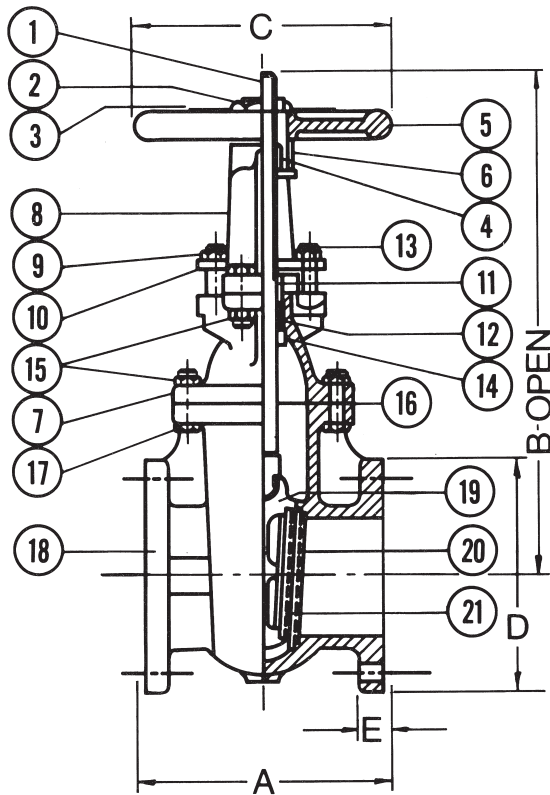
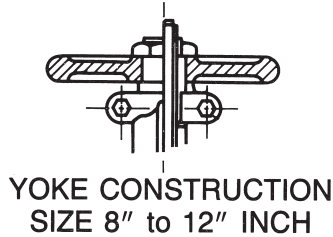
† Non-Shock

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# IR1140-HI 2"-12"

**Iron Gate Valve**  
**125 SWP - 200 WOG †**  
**OS & Y • Solid Wedge Disc**  
**Bolted Bonnet • Flanged Ends**  
**Conforms to: MSS SP-70**



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Stem	Brass	ASTM B16
2	Handwheel Nut	Ductile Iron	
3	Name Plate	Aluminum	
4	Yoke Bushing	Cast Bronze	ASTM B62
5	Handwheel	Cast Iron	ASTM A126, Class B
6 <sup>2</sup>	Yoke Bushing Nut	Cast Iron	ASTM A126, Class B
7 <sup>1</sup>	Bonnet	Cast Iron	ASTM A126, Class B
8 <sup>1</sup>	Yoke	Cast Iron	ASTM A126, Class B
9	Gland Follower Nut	Steel	ASTM A307-B
10	Gland Follower	Ductile Iron	ASTM A536
11	Packing Gland	Cast Bronze	ASTM B62
12	Packing	Graphite	
13	Gland Follower Bolt	Steel	ASTM A307-B
14	Backseat Bushing	Cast Bronze	ASTM B62
15	Nut	Steel	ASTM A307-B
16	Body Gasket	Graphite	
17	Bolt	Steel	ASTM A307-B
18	Body	Cast Iron	ASTM A126, Class B
19	Wedge	Cast Iron	ASTM A126, Class B
20	Seat Ring	Cast Bronze	ASTM B62
21	Wedge Face Ring	Cast Bronze	ASTM B62

<sup>1</sup> Sizes 2" to 3" made with yoke integral with bonnet.  
 Sizes 4" through 12" made with separate yoke bolted to bonnet.  
<sup>2</sup> Sizes 2" to 3" only

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C <sub>v</sub>
Inches mm	2	7.00 178	15.00 381	7.00 178	6.00 152	0.63 16	215
Inches mm	2 1/2	7.50 191	16.88 429	7.00 178	7.00 178	0.69 17	335
Inches mm	3	8.00 203	18.75 476	8.00 203	7.50 191	0.75 19	510
Inches mm	4	9.00 229	22.75 578	10.00 254	9.00 229	0.94 24	945
Inches mm	5	10.00 254	27.13 689	12.00 305	10.00 254	0.94 24	1525
Inches mm	6	10.50 267	30.13 765	12.00 305	11.00 279	1.00 25	2250
Inches mm	8	11.50 292	40.13 1019	14.00 356	13.50 343	1.13 29	4150
Inches mm	10	13.00 330	48.25 1226	16.00 406	16.00 406	1.81 46	6700
Inches mm	12	14.00 356	56.88 1445	18.00 457	19.00 483	1.25 32	9925

Suffix HI – Signifies International Valves.  
 † Non-Shock

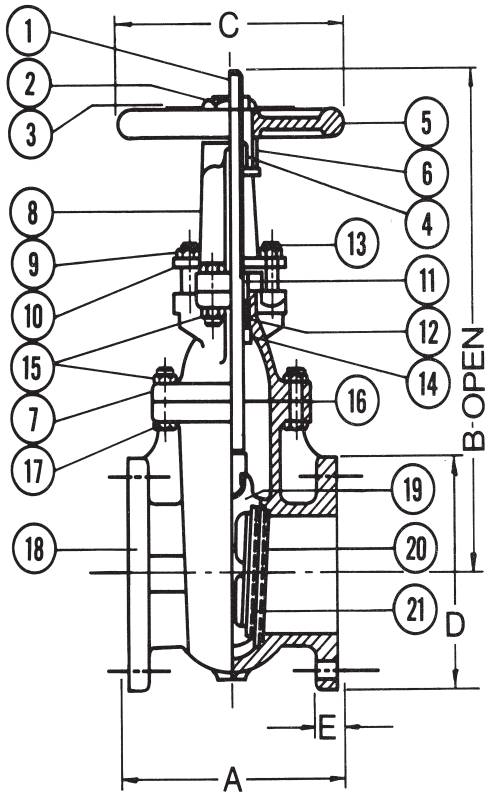
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# IR1140-HI 14"-24"

**Iron Gate Valve**  
**100 SWP -150 WOG †**  
**OS & Y • Solid Wedge Disc**  
**Bolted Bonnet • Flanged Ends**  
**Conforms to: MSS SP-70**

Flange shape and drilling to specification ASME/ANSI B16.1 (125 lb.)



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Stem	Brass	ASTM B16
2	Handwheel Nut	Ductile Iron	
3	Name Plate	Aluminum	
4	Yoke Bushing	Cast Bronze	ASTM B62
5	Handwheel	Cast Iron	ASTM A126, Class B
6	Yoke Bushing Nut	Cast Iron	ASTM A126, Class B
7	Bonnet	Cast Iron	ASTM A126, Class B
8	Yoke	Cast Iron	ASTM A126, Class B
9	Gland Follower Nut	Steel	ASTM A307-B
10	Gland Follower	Ductile Iron	ASTM A536
11	Packing Gland	Cast Bronze	ASTM B62
12	Packing	Graphite	
13	Gland Follower Bolt	Steel	ASTM A307-B
14	Backseat Bushing	Cast Bronze	ASTM B62
15	Nut	Steel	ASTM A307-B
16	Body Gasket	Graphite	
17	Bolt	Steel	ASTM A307-B
18	Body	Cast Iron	ASTM A126, Class B
19	Wedge	Cast Iron	ASTM A126, Class B
20	Seat Ring	Cast Bronze	ASTM B62
21	Wedge Face Ring	Cast Bronze	ASTM B62

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C <sub>v</sub>
Inches mm	14	15.00 381	62.00 1575	20.00 508	21.00 533	1.38 35	13800
Inches mm	16	16.00 406	71.00 1803	22.00 559	23.50 570	1.44 37	18375
Inches mm	18	17.00 432	75.00 1905	24.00 610	25.00 635	1.56 40	23600
Inches mm	20	18.00 457	87.00 2210	24.00 610	28.00 699	1.69 43	29600
Inches mm	24	20.00 508	100.00 2540	30.00 762	32.00 813	1.88 48	43570

Suffix HI – Signifies International Valves.

† Non-Shock

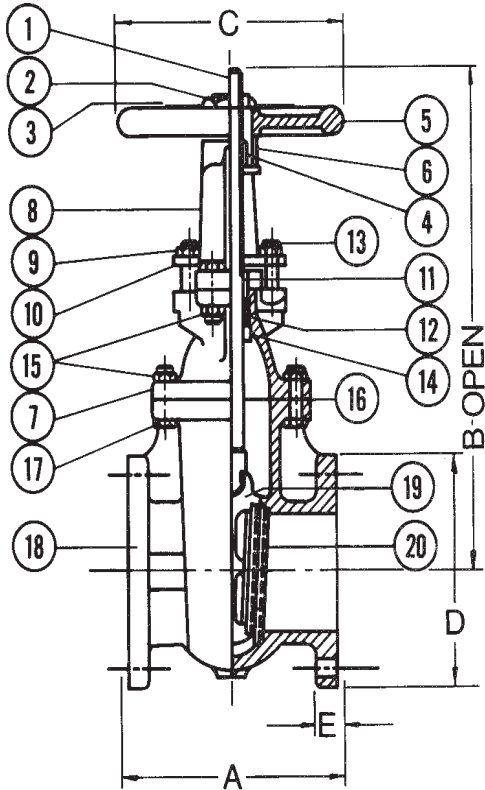
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# IR1146-HI 2"-12"

**Iron Gate Valve**  
**125 SWP -200 WOG †**  
**OS & Y • Solid Wedge Disc**  
**Bolted Bonnet • Flanged Ends**  
**Conforms to: MSS SP-70**

Flange shape and drilling to specification ASME/ANSI B16.1 (125 lb.)



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Stem	Steel	ASTM A108-Gr.1020
2	Handwheel Nut	Ductile Iron	ASTM A 536
3	Name Plate	Aluminum	
4	Yoke Bushing	Ductile Iron	ASTM A 536
5	Handwheel	Cast Iron	ASTM A126, Class B
6 <sup>2</sup>	Yoke Bushing Nut	Cast Iron	ASTM A 126, Class B
7 <sup>1</sup>	Bonnet	Cast Iron	ASTM A 126, Class B
8 <sup>1</sup>	Yoke	Cast Iron	ASTM A 126, Class B
9	Gland Follower Nut	Steel	ASTM A307-B
10	Gland Follower	Ductile Iron	ASTM A 536
11	Packing Gland	Cast Iron	ASTM A 126, Class B
12	Packing	Graphite	
13	Gland Follower Bolt	Steel	ASTM A307-B
14	Backseat Bushing	Ductile Iron	ASTM A 536
15	Nut	Steel	ASTM A307-B
16	Body Gasket	Graphite	
17	Bolt	Steel	ASTM A307-B
18	Body	Cast Iron	ASTM A126, Class B
19	Wedge	Cast Iron	ASTM A126, Class B
20	Seat Ring	Cast Iron	ASTM A126, Class B

- <sup>1</sup> Sizes 2" to 3" made with yoke integral with bonnet.  
 Sizes 4" through 12" made with separate yoke bolted to bonnet.  
<sup>2</sup> Sizes 2" to 3" only

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C <sub>v</sub>
Inches mm	2	7.00 178	15.00 381	7.00 178	6.00 152	0.63 16	215
Inches mm	2 1/2	1.50 191	16.88 429	7.00 178	7.00 178	0.69 17	335
Inches mm	3	8.00 203	18.75 476	8.00 203	7.50 191	0.75 19	510
Inches mm	4	9.00 229	22.75 578	10.00 254	9.00 229	0.94 24	945
Inches mm	5	10.00 254	27.13 689	12.00 305	10.00 254	0.94 24	1525
Inches mm	6	10.50 267	30.13 765	12.00 305	11.00 279	1.00 25	2250
Inches mm	8	11.50 292	40.13 1019	14.00 356	13.50 343	1.13 29	4150
Inches mm	10	13.00 330	48.25 1226	16.00 406	16.00 406	1.81 46	6700
Inches mm	12	14.00 356	56.88 1445	18.00 457	19.00 483	1.25 32	9925

Suffix HI – Signifies International Valves.  
 † Non-Shock

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# IR1140-UL 2 1/2"-8"

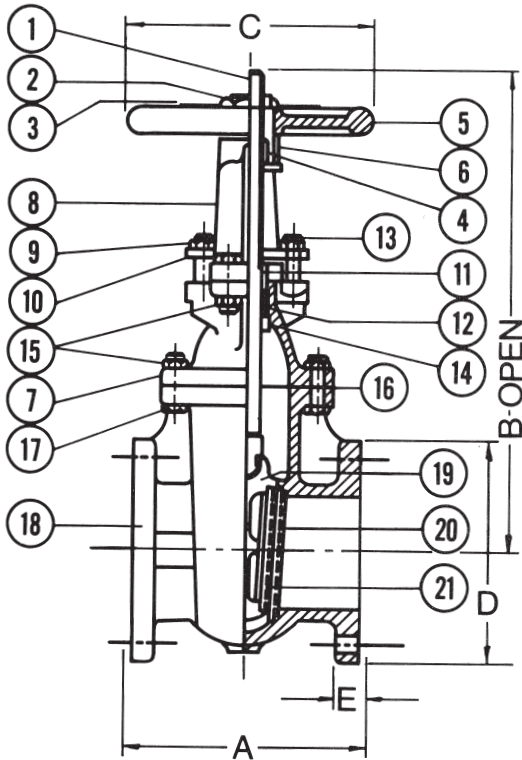
Iron Gate Valve  
175 WOG †

NEW YORK CITY BOARD OF STANDARDS and APPROVAL

Approvals: U.L. Listed, F.M.,  
N.Y.C. B.S.A. No. 278-90-SM



OS & Y • Solid Wedge Disc  
Bolted Bonnet • Flanged Ends



## MATERIAL LIST

No.	PART	MATERIAL	SPECIFICATION
1	Stem	Silicon Brass	1 ASTM B98
2	Handwheel Nut	Ductile Iron	ASTM A636
3	Name Plate	Aluminum	
4	Yoke Bushing	Brass	ASTM B16
5	Handwheel	Cast Iron	ASTM A126, Class B
6 <sup>2</sup>	Yoke Bushing Nut	Cast Iron	ASTM A126, Class B
7 <sup>3</sup>	Bonnet	Cast Iron	ASTM A126, Class B
8 <sup>3</sup>	Yoke	Cast Iron	ASTM A126, Class B
9	Gland Follower Nut	Steel	ASTM A563
10	Gland Follower	Ductile Iron	ASTM A536
11	Packing Gland	Brass	ASTM B16
12	Packing	Graphite	
13	Gland Follower Bolt	Steel	ASTM A307-B
14	Backseat Bushing	Brass	ASTM B16
15	Nut	Steel	ASTM A563
16	Body Gasket	Aramid Fiber/NBR	
17	Bolt	Steel	ASTM A 307-B
18	Body	Cast Iron	ASTM A126, Class B
19	Wedge	Cast Iron	ASTM A126, Class B
20	Seat Ring	Cast Bronze	ASTM B62
21	Wedge Face Ring	Cast Bronze	ASTM B62

- <sup>1</sup> 8" is Brass ASTM B-16
- <sup>2</sup> Sizes 2 1/2" to 6" inch only.
- <sup>3</sup> Sizes 2 1/2" and 3" made with yoke integral with bonnet.  
Sizes 4" through 8" made with separate yoke bolted to bonnet.

## DIMENSIONS - INCHES/MILLIMETERS

Units	Size	A	B	C	D	E	C <sub>v</sub>
Inches	2 1/2	7.50	16.00	7.00	7.00	0.69	335
mm		191	406	178	178	17	
Inches	3	8.00	18.50	7.50	7.50	0.75	510
mm		203	470	191	191	19	
Inches	4	9.00	22.25	8.00	9.00	0.94	945
mm		229	565	203	229	24	
Inches	6	10.50	30.50	11.75	11.00	1.00	2250
mm		267	775	298	279	25	
Inches	8	11.50	38.38	13.50	13.50	1.13	4150
mm		292	975	343	343	29	

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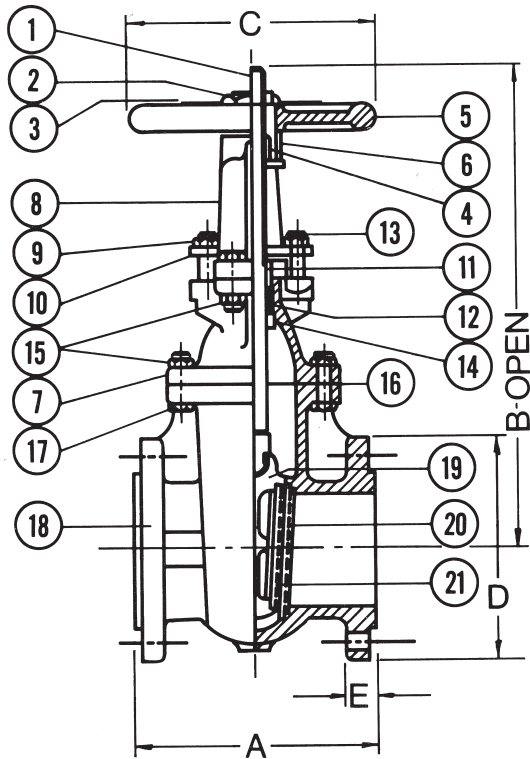
⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).



# IR330 2"-12"

**Iron Gate Valve**  
**250 SWP - 500 WOG †**  
**OS & Y • Solid Wedge Disc**  
**Bolted Bonnet • Flanged Ends**  
**Conforms to: MSS SP-70**

Flange shape and drilling to specification ASME B 16.1 (250 lb.)



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Stem	Brass	ASTM B16
2	Handwheel Nut	Ductile Iron	
3	Name Plate	Aluminum	
4	Yoke Bushing	Cast Bronze	ASTM B62
5	Handwheel	Cast Iron	ASTM A126, Class B
6 <sup>2</sup>	Yoke Bushing Nut	Cast Iron	ASTM A126, Class B
7 <sup>1</sup>	Bonnet	Cast Iron	ASTM A126, Class B
8 <sup>1</sup>	Yoke	Cast Iron	ASTM A126, Class B
9	Gland Follower Nut	Steel	ASTM A307-B
10	Gland Follower	Ductile Iron	ASTM A 536
11	Packing Gland	Cast Bronze	ASTM B62
12	Packing	Graphite	
13	Gland Follower Bolt	Steel	ASTM A307-B
14	Backseat Bushing	Cast Bronze	ASTM B62
15	Nut	Steel	ASTM A307-B
16	Body Gasket	Aramid Fiber/NBR	
17	Bolt	Steel	ASTM A307-B
18	Body	Cast Iron	ASTM A126, Class B
19	Wedge	Cast Iron	ASTM A126, Class B
20	Seat Ring	Cast Bronze	ASTM B62
21	Wedge Face Ring	Cast Bronze	ASTM B62

- <sup>1</sup> Sizes 2" to 3" made with yoke integral with bonnet.  
<sup>2</sup> Sizes 4" through 12" made with separate yoke bolted to bonnet.

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C <sub>v</sub>
Inches	2	8.50	16.00	8.00	6.50	0.88	215
mm		216	406	203	165	22	
Inches	2 1/2	9.50	16.88	8.00	7.50	1.00	335
mm		241	429	203	191	25	
Inches	3	11.13	19.38	10.00	8.25	1.13	510
mm		283	492	254	210	29	
Inches	4	12.00	23.63	12.00	10.00	1.25	945
mm		305	600	305	254	32	
Inches	5	15.00	27.75	12.00	11.00	1.38	1525
mm		381	705	305	279	35	
Inches	6	15.88	32.38	14.00	12.50	1.44	2250
mm		403	822	356	318	37	
Inches	8	16.50	40.50	16.00	15.00	1.63	4150
mm		419	1245	406	381	41	
Inches	10	18.00	49.00	18.00	17.50	1.88	6700
mm		457	1245	457	445	48	
Inches	12	19.75	56.88	20.00	20.50	2.00	9925
mm		502	1445	508	521	51	

† Non-Shock

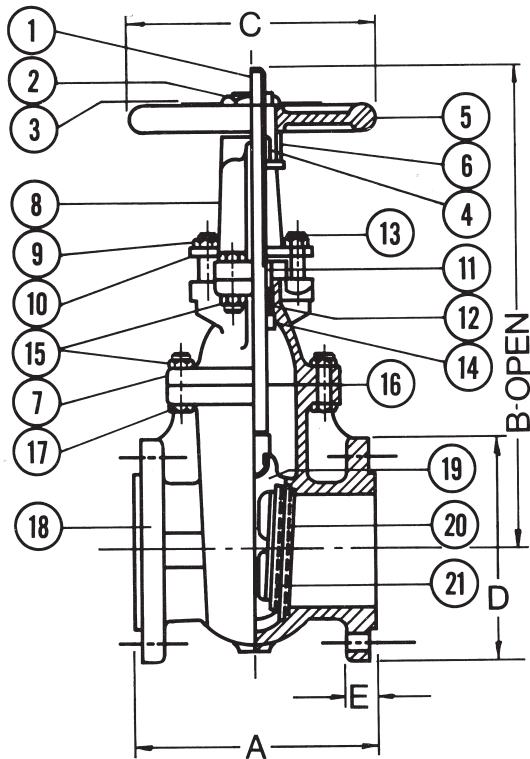
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# IR330-HI 2"-12"

**Iron Gate Valve**  
**250 SWP - 500 WOG †**  
**OS & Y • Solid Wedge Disc**  
**Bolted Bonnet • Flanged Ends**  
**Conforms to: MSS SP-70**

Flange shape and drilling to specification ASME B 16.1 (250 lb.)



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Stem	Brass	ASTM B16
2	Handwheel Nut	Ductile Iron	
3	Name Plate	Aluminum	
4	Yoke Bushing	Cast Bronze	ASTM B62
5	Handwheel	Cast Iron	ASTM A126, Class B
6 <sup>2</sup>	Yoke Bushing Nut	Cast Iron	ASTM A126, Class B
7 <sup>1</sup>	Bonnet	Cast Iron	ASTM A126, Class B
8 <sup>1</sup>	Yoke	Cast Iron	ASTM A126, Class B
9	Gland Follower Nut	Steel	ASTM A307-B
10	Gland Follower	Ductile Iron	ASTM A536
11	Packing Gland	Cast Bronze	ASTM B62
12	Packing	Graphite	
13	Gland Follower Bolt	Steel	ASTM A307-B
14	Backseat Bushing	Cast Bronze	ASTM B62
15	Nut	Steel	ASTM A307-B
16	Body Gasket	Graphite	
17	Bolt	Steel	ASTM A307-B
18	Body	Cast Iron	ASTM A126, Class B
19	Wedge	Cast Iron	ASTM A126, Class B
20	Seat Ring	Cast Bronze	ASTM B62
21	Wedge Face Ring	Cast Bronze	ASTM B62

<sup>1</sup> Sizes 2" to 3" made with yoke integral with bonnet.  
<sup>2</sup> Sizes 4" through 12" made with separate yoke bolted to bonnet.

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C <sub>v</sub>
Inches	2	8.50	16.00	8.00	6.50	0.88	215
mm		216	406	203	165	22	
Inches	2 1/2	9.50	16.88	8.00	7.50	1.00	335
mm		241	429	203	191	25	
Inches	3	11.13	19.38	10.00	8.25	1.13	510
mm		283	492	254	210	29	
Inches	4	12.00	23.63	12.00	10.00	1.25	945
mm		305	600	305	254	32	
Inches	5	15.00	27.75	12.00	11.00	1.38	1525
mm		381	705	305	279	35	
Inches	6	15.88	32.38	14.00	12.50	1.44	2250
mm		403	822	356	318	37	
Inches	8	16.50	40.50	16.00	15.00	1.63	4150
mm		419	1245	406	381	41	
Inches	10	18.00	49.00	18.00	17.50	1.88	6700
mm		457	1245	457	445	48	
Inches	12	19.75	56.88	20.00	20.50	2.00	9925
mm		502	1445	508	521	51	

Suffix HI – Signifies International Valves.  
 † Non-Shock

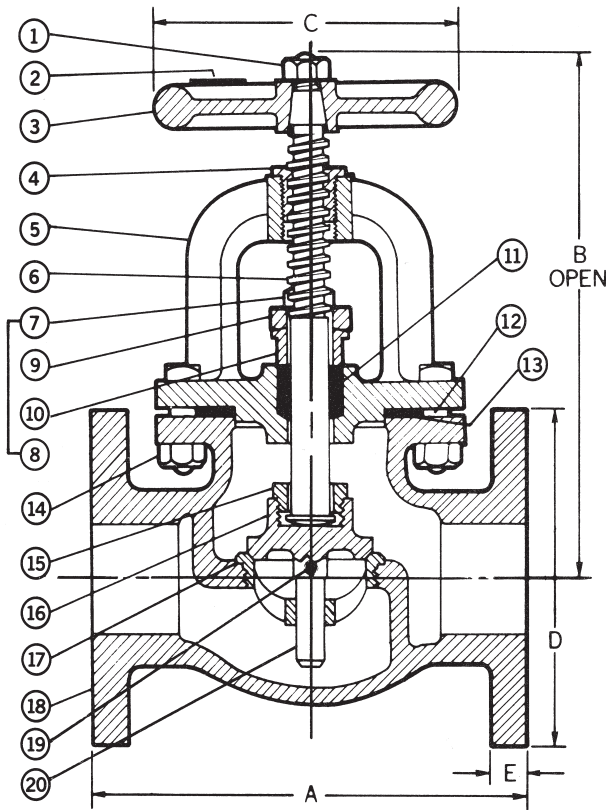
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# IR116 2"-10"

**Iron Globe Valve**  
**125 SWP - 200 WOG †**  
**Solid Wedge Disc**  
**Bolted Bonnet • Flanged Ends**  
**Conforms to: MSS SP-85**

Flange shape and drilling to specification ASME B16.1 (125 lb.)



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Handwheel Nut	Steel	ASTM A307-B
2	Name Plate	Aluminum	
3	Handwheel	Cast Iron	ASTM A126, Class B
4	Yoke Bushing	Bronze	ASTM B62
5	Bonnet	Cast Iron	ASTM A 126, Class B
6	Stem	Brass	ASTM B16
7	Gland Follower Nut	Bronze	
8	Gland Follower Stud	Steel	ASTM A307-B
9	Gland Follower	Ductile Iron	ASTM A536
10	Packing Gland	Cast Bronze	ASTM B62
11	Packing	Graphite	
12	Body Bolt	Steel	ASTM A307-B
13	Body Gasket	Aramid Fiber/NBR	
14	Body Nut	Steel	ASTM A307-B
15	Swivel Nut	Bronze	ASTM B62
16 1	Disc	Bronze	ASTM B62
17	Seat Ring	Bronze	ASTM B62
18	Body	Cast Iron	ASTM A 126, Class B
19 1	Taper Pin	Steel	
20 1	Guide Pin	Brass	ASTM B16

<sup>1</sup> Sizes through 2 1/2" have bronze ASTM B62 disc. 3" through 10" have iron disc with bronze disc face rings and brass pilots.

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C <sub>v</sub>
Inches mm	2	8.00 203	10.19 259	7.00 178	6.00 152	0.63 16	45
Inches mm	2 1/2	8.50 216	11.81 300	7.00 178	7.00 178	0.69 17	70
Inches mm	3	9.50 241	12.50 318	8.00 203	7.50 191	0.75 19	105
Inches mm	4	11.50 292	15.81 402	10.00 254	9.00 229	0.94 24	195
Inches mm	5	13.00 331	16.50 419	12.00 305	10.00 254	0.94 24	315
Inches mm	6	14.00 356	18.88 479	12.00 305	11.00 279	1.00 25	465
Inches mm	8	19.50 495	21.13 537	14.00 356	13.50 343	1.13 29	860
Inches mm	10	24.50 622	25.19 640	16.00 406	16.00 406	1.19 30	1390

† Non-Shock

Note: Does not meet Senate Law S.3874

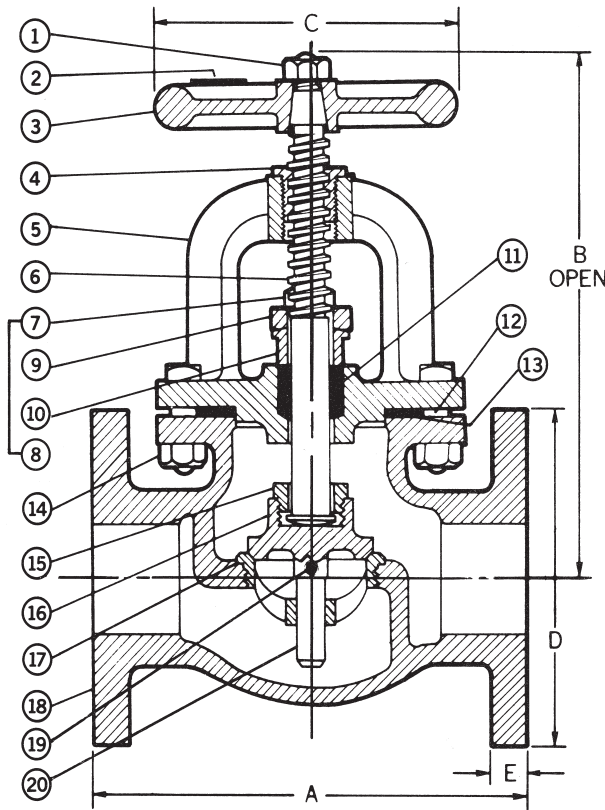
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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

# IR116-HI 2"-10"

**Iron Globe Valve  
125 SWP - 200 WOG †  
Solid Wedge Disc  
Bolted Bonnet • Flanged Ends  
Conforms to: MSS SP-85**

Flange shape and drilling to specification ASME B16.1 (125 lb.)



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Handwheel Nut	Steel	ASTM A307-B
2	Name Plate	Aluminum	
3	Handwheel	Cast Iron	ASTM A126, Class B
4	Yoke Bushing	Bronze	ASTM B62
5	Bonnet	Cast Iron	ASTM A126, Class B
6	Stem	Brass	ASTM B16
7	Gland Follower Nut	Bronze	
8	Gland Follower Stud	Steel	ASTM A307-B
9	Gland Follower	Ductile Iron	ASTM A 536
10	Packing Gland	Cast Bronze	ASTM B62
11	Packing	Graphite	
12	Body Bolt	Steel	ASTM A307-B
13	Body Gasket	Graphite	
14	Body Nut	Steel	ASTM A307-B
15	Swivel Nut	Bronze	ASTM B62
16 1	Disc	Bronze	ASTM B62
17	Seat Ring	Bronze	ASTM B62
18	Body	Cast Iron	ASTM A126, Class B
19 1	Taper Pin	Steel	
20 1	Guide Pin	Brass	ASTM B16

<sup>1</sup> Sizes through 2 1/2" have bronze ASTM B62 disc. 3" through 10" have iron disc with bronze disc face rings and brass pilots.

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C <sub>v</sub>
Inches mm	2	8.00 203	10.19 259	7.00 178	6.00 152	0.63 16	45
Inches mm	2 1/2	8.50 216	11.81 300	7.00 178	7.00 178	0.69 17	70
Inches mm	3	9.50 241	12.50 318	8.00 203	7.50 191	0.75 19	105
Inches mm	4	11.50 292	15.81 402	10.00 254	9.00 229	0.94 24	195
Inches mm	5	13.00 331	16.50 419	12.00 305	10.00 254	0.94 24	315
Inches mm	6	14.00 356	18.88 479	12.00 305	11.00 279	1.00 25	465
Inches mm	8	19.50 495	21.13 537	14.00 356	13.50 343	1.13 29	860
Inches mm	10	24.50 622	25.19 640	16.00 406	16.00 406	1.19 30	1390

Suffix HI – Signifies International Valves.

† Non-Shock

Note: Does not meet Senate Law S.3874

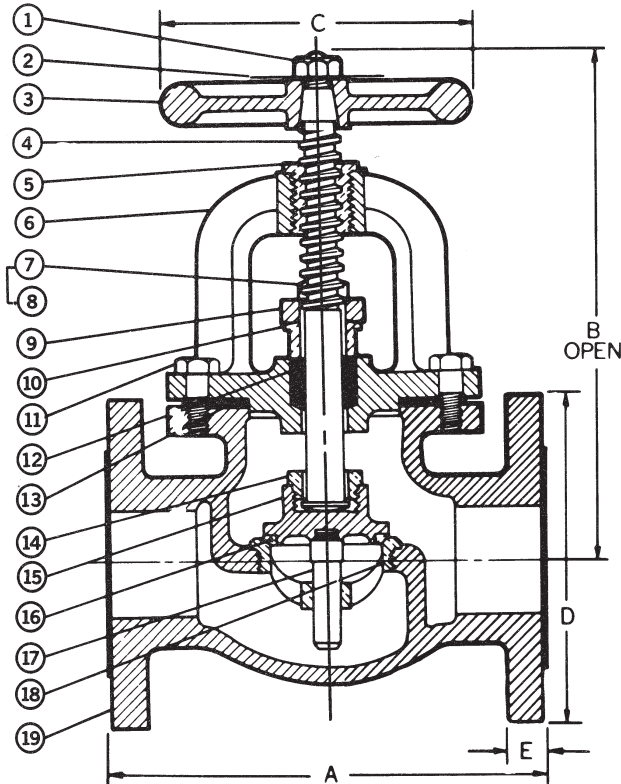
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# IR313 2 1/2"-6"

**Iron Globe Valve**  
**250 SWP - 500 WOG †**  
**Solid Wedge Disc**  
**Bolted Bonnet • Flanged Ends**  
**Conforms to: MSS SP-85**

Flange shape and drilling to specification ASME B16.1 (250 lb.)



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Handwheel Nut	Steel	
2	Name Plate	Aluminum	
3	Handwheel	Cast Iron	ASTM A126, Class B
4	Stem	Brass	ASTM B16
5	Yoke Bushing	Cast Bronze	ASTM B62
6	Bonnet	Cast Iron	ASTM A126, Class B
7	Gland Follower Nut	Bronze	
8	Gland Follower Stud	Steel	
9	Gland Follower	Cast Iron	ASTM A126, Class B
10	Packing Gland	Brass	ASTM B16
11	Hex Head Cap Screws	Steel	
12	Packing	Graphite	
13	Body Gasket	Graphite	
14	Swivel Nut or Sleeve	Cast Bronze	ASTM B62
15 <sup>1</sup>	Disc	Cast Iron	ASTM A126, Class B
16	Disc Ring	Cast Bronze	ASTM B62
17	Disc Pilot	Cast Bronze	ASTM B62
18	Seat Ring	Cast Bronze	ASTM B62
19	Body	Cast Iron	ASTM A126, Class B

<sup>1</sup> Sizes through 3" have all bronze discs. Sizes 4" and 6" have cast iron disc with bronze disc face rings.

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C <sub>v</sub>
Inches mm	2 1/2	11.50 292	13.56 345	8.00 203	7.50 191	1.00 25	70
Inches mm	3	12.50 318	13.88 352	10.00 254	8.25 210	1.13 29	105
Inches mm	4	14.00 356	16.63 422	12.00 305	10.00 254	1.25 32	195
Inches mm	6	17.50 445	26.25 667	12.00 305	12.50 318	1.44 37	465

† Non-Shock

Note: Does not meet Senate Law S.3874

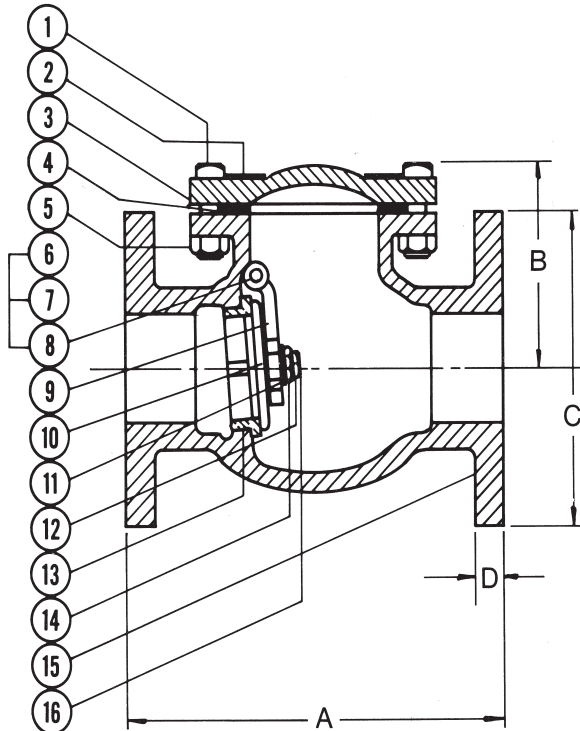
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# IR1124 2"-12"

**Iron Check Valve**  
**125 SWP - 200 WOG †**  
**Horizontal Swing • Flanged Ends**  
**Bolted Cover**  
**Conforms to: MSS SP-71**

Flange shape and drilling to specification ASME B 16.1 (125 lb).



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Bolt	Steel	
2	Name Plate	Aluminum	
3	Cover	Cast Iron	ASTM A126, Class B
4	Cover Gasket	Aramid Fiber/NBR	
5	Nut	Steel	
6	Side Plug	Brass	ASTM B16
7	Gasket	Graphite	
8	Hanger Pin	SS 304	ASTM B16
9	Hanger	Ductile Iron	ASTM A536
10 <sup>1</sup>	Disc	Cast Iron	ASTM A126, Class B
11	Washer	Steel	
12	Cotter Pin	Carbon Steel Galvanized	
13	Seat Ring	Bronze	ASTM B 62
14	Disc Nut	Steel	ASTM A307
15	Body	Cast Iron	ASTM A126, Class B
16	Stud Bolt	Brass	ASTM B16

<sup>1</sup> Valve Disc-Cast iron with bronze disc face rings.

DIMENSIONS - INCHES/MILLIMETERS						
Units	Size	A	B	C	D	C <sub>v</sub>
Inches mm	2	8.00 203	3.94 100	6.00 152	0.63 16	143
Inches mm	2 1/2	8.50 216	4.50 114	7.00 178	0.69 17	242
Inches mm	3	9.50 241	5.13 130	7.50 191	0.75 19	366
Inches mm	4	11.50 292	6.13 156	9.00 229	0.94 24	572
Inches mm	5	13.00 330	6.81 173	10.00 254	0.94 24	894
Inches mm	6	14.00 356	8.00 203	11.00 279	1.00 25	1287
Inches mm	8	19.50 495	9.44 240	13.50 343	1.13 29	2288
Inches mm	10	24.50 622	12.06 306	16.00 406	1.19 30	3574
Inches mm	12	27.50 699	16.13 410	19.00 483	1.25 32	5147

† Non-Shock

Note: Does not meet Senate Law S.3874

Note 1: On pump discharge, the preferred check valve is either an in-line spring loaded valve or a swing design with lever and weight. Install these valves as far as possible from the pump and elbows with a minimum distance of 5 times the pipe diameter.

Note 2: These iron body check valves may be installed in horizontal and vertical lines with upward flow or in intermediate position.

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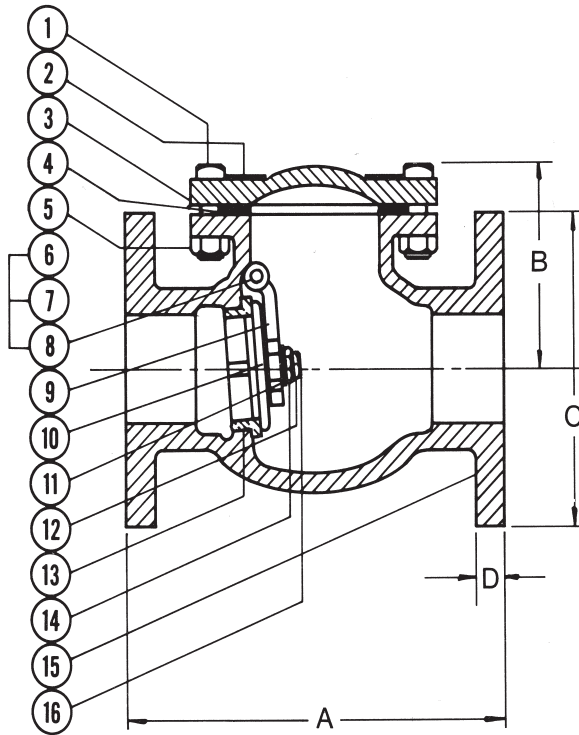
⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).



# IR1124-HI 2"-12"

**Iron Check Valve**  
**125 SWP - 200 WOG †**  
**Horizontal Swing • Flanged Ends**  
**Bolted Cover**  
**Conforms to: MSS SP-71**

Flange shape and drilling to specification ASME B 16.1 (125 lb).



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Bolt	Steel	
2	Name Plate	Aluminum	
3	Cover	Cast Iron	ASTM A126, Class B
4	Cover Gasket	Graphite	
5	Nut	Steel	
6	Side Plug	Brass	ASTM B16
7	Gasket	Graphite	
8	Hanger Pin	SS 304	ASTM B16
9	Hanger	Ductile Iron	ASTM A536
10 <sup>1</sup>	Disc	Cast Iron	ASTM A126, Class B
11	Washer	Steel	
12	Cotter Pin	Zinc Plated Steel	
13	Seat Ring	Bronze	ASTM B62
14	Disc Nut	Steel	ASTM A307
15	Body	Cast Iron	ASTM A126, Class B
16	Stud Bolt	Brass	ASTM B16

<sup>1</sup> Valve Disc-Cast iron with bronze disc face rings.

DIMENSIONS - INCHES/MILLIMETERS						
Units	Size	A	B	C	D	C <sub>v</sub>
Inches mm	2	8.00 203	4.56 116	6.00 152	0.63 16	143
Inches mm	2 1/2	8.50 216	5.38 137	7.00 178	0.69 17	242
Inches mm	3	9.50 241	5.56 141	7.50 191	0.75 19	366
Inches mm	4	11.50 292	6.69 170	9.00 229	0.94 24	572
Inches mm	5	13.00 330	7.75 197	10.00 254	0.94 24	894
Inches mm	6	14.00 356	9.50 241	11.00 279	1.00 25	1287
Inches mm	8	19.50 495	10.38 264	13.50 343	1.13 29	2288
Inches mm	10	24.50 622	12.00 305	16.00 406	1.19 30	3574
Inches mm	12	27.50 699	13.50 343	19.00 483	1.25 32	5147

Suffix HI – Signifies International Valves.

† Non-Shock

Note 1: On pump discharge, the preferred check valve is either an in-line spring loaded valve or a swing design with lever and weight. Install these valves as far as possible from the pump and elbows with a minimum distance of 5 times the pipe diameter.

Note 2: These iron body check valves may be installed in horizontal and vertical lines with upward flow or in intermediate position.

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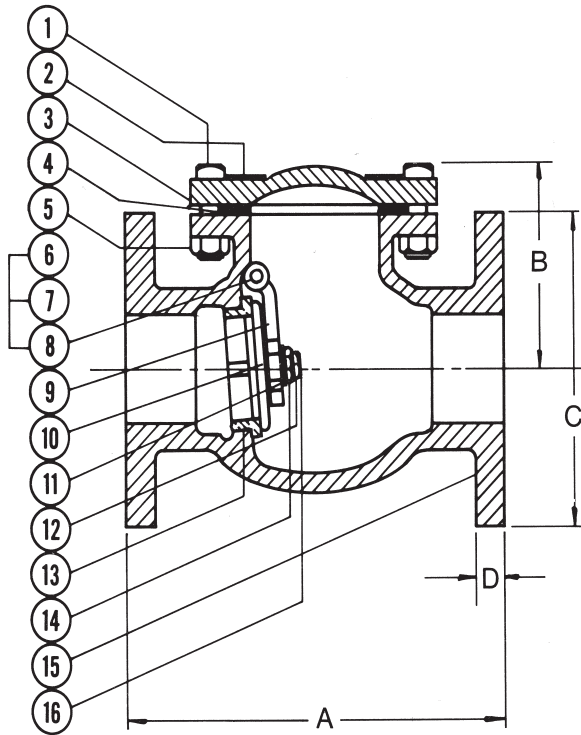
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# IR1124-HI 14"-24"

**Iron Check Valve**  
**100 SWP - 150 WOG †**  
**Horizontal Swing • Flanged Ends**  
**Bolted Cover**  
**Conforms to: MSS SP-71**

Flange shape and drilling to specification ASME B 16.1 (125 lb).



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Bolt	Steel	
2	Name Plate	Aluminum	
3	Cover	Cast Iron	ASTM A126, Class B
4	Cover Gasket	Graphite	
5	Nut	Steel	
6	Side Plug	Brass	ASTM B16
7	Gasket	Graphite	
8	Hanger Pin	SS 304	ASTM B16
9	Hanger	Ductile Iron	ASTM A536
10 <sup>1</sup>	Disc	Cast Iron	ASTM A126, Class B
11	Washer	Steel	
12	Cotter Pin	Zinc Plated Steel	
13	Seat Ring	Bronze	ASTM B62
14	Disc Nut	Steel	ASTM A307
15	Body	Cast Iron	ASTM A126, Class B
16	Stud Bolt	Brass	ASTM B16

<sup>1</sup> Valve Disc-Cast iron with bronze disc face rings.

Note 1: On pump discharge, the preferred check valve is either an in-line spring loaded valve or a swing design with lever and weight. Install these valves as far as possible from the pump and elbows with a minimum distance of 5 times the pipe diameter.

Note 2: These iron body check valves may be installed in horizontal and vertical lines with upward flow or in intermediate position.

DIMENSIONS - INCHES/MILLIMETERS						
Units	Size	A	B	C	D	C <sub>v</sub>
Inches mm	14	31.00 787	15.75 400	21.00 533	1.38 35	7006
Inches mm	16	36.00 914	17.25 438	23.50 597	1.44 37	9151
Inches mm	18	36.00 914	19.00 483	25.00 635	1.56 40	11581
Inches mm	20	40.00 1016	21.88 556	27.50 699	1.69 43	14298
Inches mm	24	48.00 1219	24.44 621	32.00 813	1.88 48	20588

Suffix HI – Signifies International Valves.

† Non-Shock

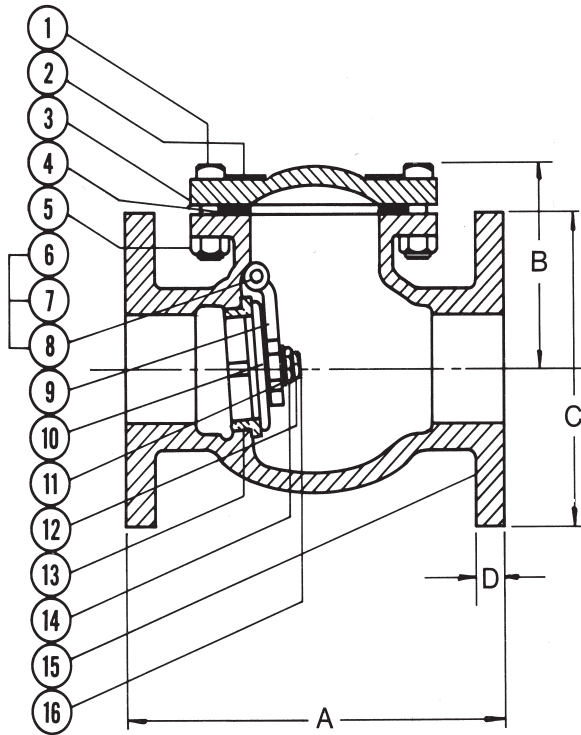
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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

# IR1126-HI 2"-12"

**Iron Check Valve**  
**125 SWP - 200 WOG †**  
**Horizontal Swing • Flanged Ends**  
**Bolted Cover**  
**Conforms to: MSS SP-71**

Flange shape and drilling to specification ASME B 16.1 (125 lb).



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Bolt	Steel	
2	Name Plate	Aluminum	
3	Cover	Cast Iron	ASTM A126, Class B
4	Cover Gasket	Graphite	
5	Nut	Steel	
6	Side Plug	Steel	
7	Gasket	Graphite	
8	Hanger Pin	SS 304	
9	Hanger	Ductile Iron	ASTM A536
10	Disc	Cast Iron	ASTM A126, Class B
11	Washer	Steel	
12	Cotter Pin	Zinc Plated Steel	
13	Seat Ring	Bronze	ASTM B62
14	Disc Nut	Steel	ASTM A307
15	Body	Cast Iron	ASTM A126, Class B
16	Stud Bolt	Brass	ASTM B16

DIMENSIONS - INCHES/MILLIMETERS						
Units	Size	A	B	C	D	C <sub>v</sub>
Inches mm	2	8.00 203	4.56 116	6.00 152	0.63 16	143
Inches mm	2 1/2	8.50 216	5.38 137	7.00 178	0.69 17	242
Inches mm	3	9.50 241	5.56 141	7.50 191	0.75 19	366
Inches mm	4	11.50 292	6.69 170	9.00 229	0.94 24	572
Inches mm	5	13.00 330	7.75 197	10.00 254	0.94 24	894
Inches mm	6	14.00 356	9.50 241	11.00 279	1.00 25	1287
Inches mm	8	19.50 495	10.38 264	13.50 343	1.13 29	2288
Inches mm	10	24.50 622	12.00 305	16.00 406	1.19 30	3574
Inches mm	12	27.50 699	13.50 343	19.00 483	1.25 32	5147

Note 1: On pump discharge, the preferred check valve is either an in-line spring loaded valve or a swing design with lever and weight. Install these valves as far as possible from the pump and elbows with a minimum distance of 5 times the pipe diameter.

Note 2: These iron body check valves may be installed in horizontal and vertical lines with upward flow or in intermediate position.

Suffix HI – Signifies International Valves.  
 † Non-Shock

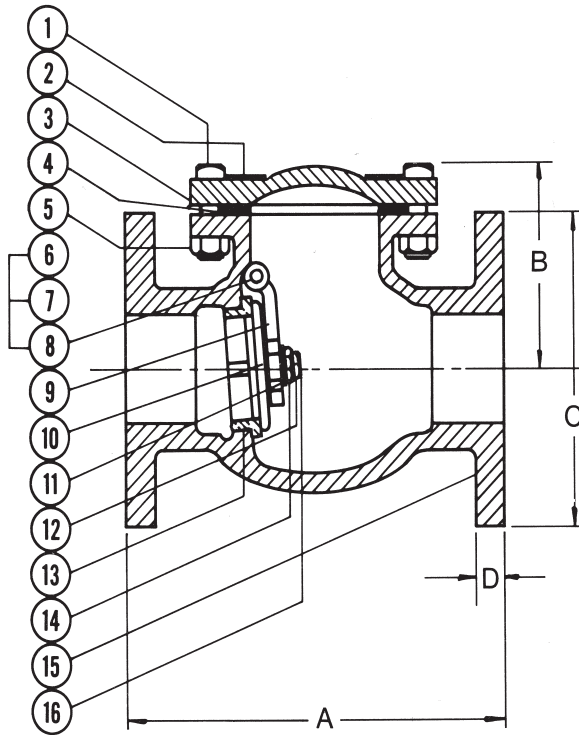
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# IR1126-HI 14"-24"

**Iron Check Valve**  
**100 SWP - 150 WOG †**  
**Horizontal Swing • Flanged Ends**  
**Bolted Cover**  
**Conforms to: MSS SP-71**

Flange shape and drilling to specification ASME B 16.1 (125 lb).



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Bolt	Steel	
2	Name Plate	Aluminum	
3	Cover	Cast Iron	ASTM A126, Class B
4	Cover Gasket	Graphite	
5	Nut	Steel	
6	Side Plug	Steel	
7	Gasket	Graphite	
8	Hanger Pin	SS 304	
9	Hanger	Ductile Iron	ASTM A536
10	Disc	Cast Iron	ASTM A126, Class B
11	Washer	Steel	
12	Cotton Pin	Zinc Plated Steel	
13	Seat Ring	Bronze	ASTM B62
14	Disc Nut	Steel	ASTM A307
15	Body	Cast Iron	ASTM A126, Class B
16	Stud Bolt	Brass	ASTM B16

DIMENSIONS - INCHES/MILLIMETERS						
Units	Size	A	B	C	D	C <sub>v</sub>
Inches	14	31.00	15.75	21.00	1.38	7006
mm		787	400	533	35	
Inches	16	36.00	17.25	23.50	1.44	9151
mm		914	438	597	37	
Inches	18	36.00	19.00	25.00	1.56	11581
mm		914	483	635	40	
Inches	20	40.00	21.88	27.50	1.69	14298
mm		1016	556	699	43	
Inches	24	48.00	24.44	32.00	1.88	20588
mm		1219	621	813	48	

Note 1: On pump discharge, the preferred check valve is either an in-line spring loaded valve or a swing design with lever and weight. Install these valves as far as possible from the pump and elbows with a minimum distance of 5 times the pipe diameter.

Note 2: These iron body check valves may be installed in horizontal and vertical lines with upward flow or in intermediate position.

Suffix HI – Signifies International Valves.  
 † Non-Shock

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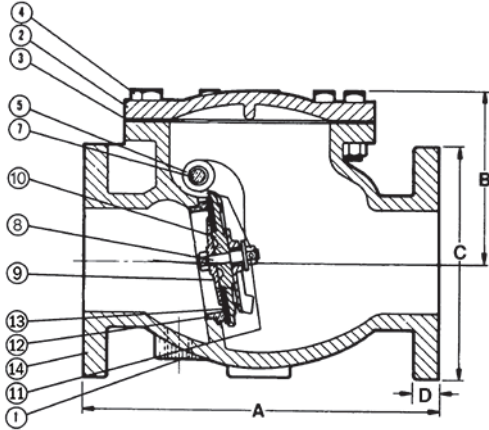
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# IR1124-UL 2 1/2"-8"

**Iron Check Valve**  
**175 WP WOG †**  
**Renewable Seat and Disc • Flanged Ends**  
**Bolted Bonnet**

**NEW YORK CITY BOARD OF STANDARDS and APPROVAL**

Approvals: U.L. Listed, F.M.,  
 N.Y.C. B.S.A. No. 278-90-SM



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Pipe Plug	Cast Iron or Steel	
2	Cover	Cast Iron	ASTM A126, Class B
3	Cover Gasket	Graphite	
4	Cover Bolt and Nut	Steel	ASTM A307
5	Hinge Plug	Cast Bronze	B 584 Alloy C84400
6	Hinge Pin	Brass	ASTM B16
7	Disc Hanger Nut	Cast Bronze	B 584 Alloy C84400
8	Disc Stud Bolt	Brass	ASTM B16 Alloy C36000
9	Disc Plate	Cast Bronze	B 584 Alloy C84400
10	Disc Hanger	Cast Bronze	B 584 Alloy C84400
11	Disc Nut	Brass	ASTM B16 Alloy C36000
12	Seat Ring	Cast Bronze	B 584 Alloy C84400
13	Disc	Rubber	
14	Body	Cast Iron	ASTM A126, Class B

Note 1: On pump discharge, the preferred check valve is either an in-line spring loaded valve or a swing design with lever and weight. Install these valves as far as possible from the pump and elbows with a minimum distance of 5 times the pipe diameter.

DIMENSIONS - INCHES/MILLIMETERS						
Units	Size	A	B	C	D	C <sub>v</sub>
Inches mm	2 1/2	10.00 254	6.44 164	7.00 178	0.69 17	243
Inches mm	3	10.25 260	6.63 168	7.50 191	0.75 19	356
Inches mm	4	13.00 330	8.00 203	9.00 229	0.94 24	665
Inches mm	6	16.25 413	10.31 262	11.00 279	1.00 25	1584
Inches mm	8	19.50 495	11.50 292	13.50 343	1.13 29	2937

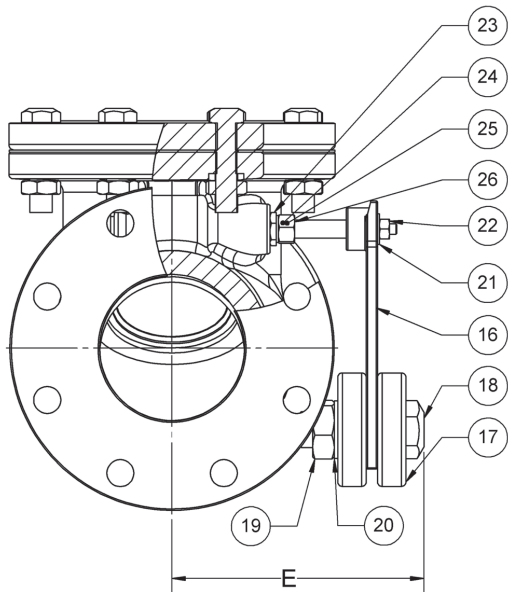
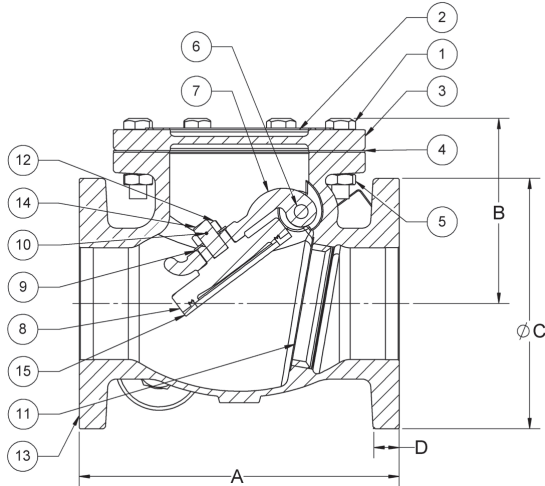
† Non-Shock

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# IR1124-LW 2"-12"

**Iron Check Valve With Lever and Weight**  
**125 SWP - 200 WOG †**  
**Horizontal Swing • Flanged Ends**  
**Bolted Cover**  
**Conforms to: MSS SP-71**



Note 1: On pump discharge, the preferred check valve is either an in-line spring loaded valve or a swing design with lever and weight. Install these valves as far as possible from the pump and elbows with a minimum distance of 5 times the pipe diameter.

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Bolt	Steel	
2	ID Plate	Aluminum	
3	Bonnet	Cast Iron	ASTM A126, Class B
4	Body Gasket	Graphite	
5	Nut	Steel	
6	Hanger Pin	Brass	ASTM B16
7	Hanger	Ductile Iron	ASTM A536
8	Disc	Cast Iron	ASTM A126, CLASS B
9	Washer	Steel	
10	Cotter Pin	Carbon Steel Galvanized	
11	Seat Ring	Bronze	ASTM B62
12	Disc Nut	Steel	ASTM A307
13	Body	Cast Iron	ASTM A126, CLASS B
14	Disc Bolt	Brass	ASTM B16
15	Disc Ring	Bronze	ASTM B62
16	Lever Weight	Cast Iron	ASTM B128
17	Weight	Cast Iron	ASTM B128
18	Weight Bolt	Carbon Steel	Commercial
19	Weight Nut	Carbon Steel	Commercial
20	Weight Washer	Carbon Steel	Commercial
21	Lever Washer	Carbon Steel	Commercial
22	Lever Nut	Carbon Steel	Commercial
23	Stuffing Box	Brass	ASTM B16
24	Gland	Brass	ASTM B16
25	Packing	Graphite	COMMERCIAL
26	Packing Nut	Brass	ASTM B16

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C <sub>v</sub>
Inches mm	2	8.00 203	3.94 100	6.00 152	0.63 16	8.00 203	143
Inches mm	2 1/2	8.50 216	4.50 114	7.00 178	0.69 18	8.50 216	242
Inches mm	3	9.50 241	5.13 130	7.50 191	0.75 19	9.50 241	366
Inches mm	4	11.50 292	6.13 156	9.00 229	0.94 24	11.50 292	572
Inches mm	5	13.00 330	6.81 173	10.00 254	0.94 24	13.00 330	894
Inches mm	6	14.00 356	8.00 203	11.00 279	1.00 25	14.00 356	1287
Inches mm	8	19.50 495	9.44 240	13.50 343	1.13 29	19.50 495	2288
Inches mm	10	24.50 622	12.06 306	16.00 406	1.19 30	24.50 622	3574
Inches mm	12	27.50 699	16.13 410	19.00 483	1.25 32	27.50 699	5147

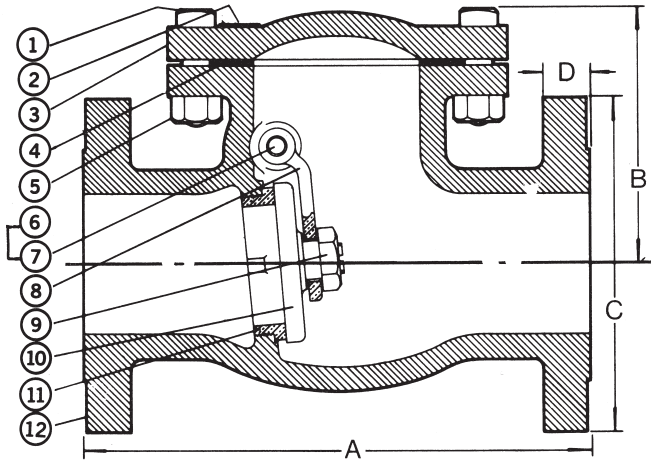
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# IR322-HI 2 1/2"-6"

**Iron Check Valve**  
**250 SWP - 500 WOG †**  
**Horizontal Swing • Flanged Ends**  
**Bolted Cover**  
**Conforms to: MSS SP-71**

Flange shape and drilling to specification ASME B 16.1 (250 lb).



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Bolt	Steel	
2	Name Plate	Aluminum	
3	Cover	Cast Iron	ASTM A126, Class B
4	Cover Gasket	Graphite	
5	Nut	Steel	
6	Side Plug	Brass	ASTM B16
7	Hanger Pin	Brass	ASTM B16
8	Hanger	Cast Bronze	ASTM B62
9	Disc Nut	Cast Bronze	ASTM B62
10 <sup>1</sup>	Disc	Cast Bronze	ASTM B62
11	Seat Ring	Cast Bronze	ASTM B62
12	Body	Cast Iron	ASTM A126, Class B

<sup>1</sup> 6" discs are cast iron with bronze face rings.

Note 1: On pump discharge, the preferred check valve is an in-line spring loaded swing design with lever and weight. Install these valves as far as possible from the pump and elbows with a minimum distance of 5 times the pipe diameter. See 1400 and 1800 series.

Note 2: These iron body check valves may be installed in both horizontal and vertical lines with upward flow or in any intermediate position.

DIMENSIONS - INCHES/MILLIMETERS						
Units	Size	A	B	C	D	C <sub>v</sub>
Inches mm	2 1/2	11.50 292	5.75 146.05	7.50 190.50	1.00 25.40	242
Inches mm	3	12.50 318	6.31 160.35	8.25 209.55	1.13 28.58	366
Inches mm	4	14.00 356	7.56 192.10	10.00 254.00	1.25 31.75	572
Inches mm	6	17.50 445	8.50 215.90	12.50 317.50	1.44 36.53	1287

† Non-Shock

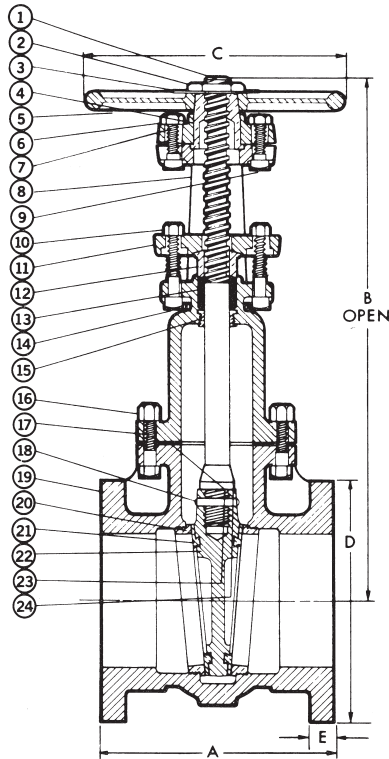
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# IR1913-HI 2"-12"

**Iron Gate Valve**  
**125 SWP - 200 WOG †**  
**3% Nickel Iron Body**  
**OS & Y • Solid Wedge Disc**  
**Bolted Bonnet • Flanged Ends**  
**S.S. Trim**  
**Conforms to: MSS SP-70**



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Stem		ASTM A182 F316
2	Handwheel Nut	Steel or Ductile Iron	ASTM A395
3	Name Plate	Aluminum	
4	Yoke Bushing	Ductile Iron	ASTM A395
5	Handwheel	Cast Iron	ASTM A126, Class B
6	Bonnet Cap Nut	Steel	
7	Bonnet Cap	Ductile Iron	ASTM A395
8 <sup>1</sup>	Bonnet	3% Nickel Iron	ASTM A126, Class B
9	Bonnet Cap Bolt	Steel	
10	Gland Follower Nut	Steel	
11	Gland Follower	Ductile Iron	ASTM A395
12	Packing Gland		ASTM B276-316
13	Packing	Graphite	
14	Gland Follower Bolt	Steel	
15	Backseat Bushing		ASTM B 276-316
16	Body Nut	Steel	
17	Body Bolt	Steel	
18	Wedge Pin		ASTM B276-316
19	Body	3% Nickel Iron	ASTM A126, Class B
20	Seat Ring		ASTM A351 CF8M
21	Wedge Face Ring		ASTM A351 CF8M
22	Wedge	3% Nickel Iron	ASTM A126, Class B
23	Body Gasket	Graphite Non-Asb. Fibers	
24	Stem Collar		ASTM B276-316
25	Grease Fitting (not shown)	Steel	

<sup>1</sup> Sizes through 8" made with yoke integral with bonnet. 10" and 12" sizes made with separate yoke bolted to bonnet.  
 Suffix HI - Signifies "Hammond" International Series Valves.

Note 1: The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (.25%) of lead by weight. Meets the requirements of Senate law S.3874.

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C <sub>v</sub>
Inches	2	7.00	15.00	7.00	6.00	0.63	215
mm		178	381	178	152	16	
Inches	2 1/2	7.50	16.88	7.00	7.00	0.69	335
mm		191	429	178	178	17	
Inches	3	8.00	18.75	8.00	7.50	0.75	510
mm		203	476	203	191	19	
Inches	4	9.00	22.75	10.00	9.00	0.94	945
mm		229	578	254	229	24	
Inches	5	10.00	27.13	12.00	10.00	0.94	1525
mm		254	689	305	254	24	
Inches	6	10.50	30.13	12.00	11.00	1.00	2250
mm		267	765	305	279	25	
Inches	8	11.50	40.13	14.00	13.50	1.13	4150
mm		292	1019	356	343	29	
Inches	10	13.00	48.25	16.00	16.00	1.81	6700
mm		330	1226	406	406	46	
Inches	12	14.00	56.88	18.00	19.00	1.25	9925
mm		356	1445	457	483	32	

Also available in 14", 16", 18", 20" and 24" on special order.  
 150 psi non-shock cold water, oil or gas.

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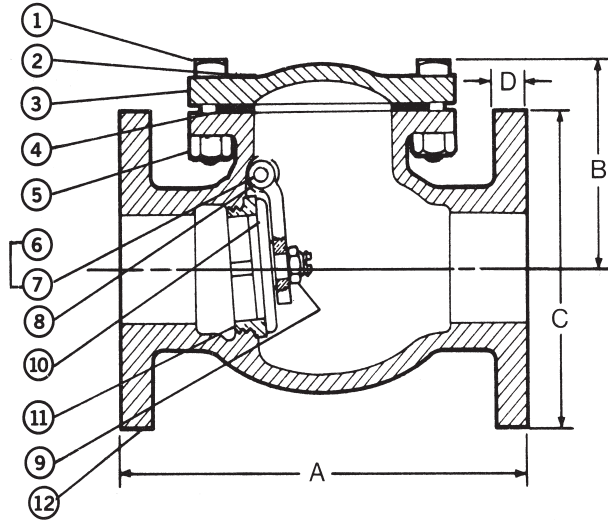
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# IR1937-HI 2"-12"

**Iron Check Valve**  
**125 SWP - 200 WOG †**  
**3% Nickel Iron Body**  
**Bolted Bonnet • Flanged Ends**  
**S.S. Trim**  
**Conforms to: MSS SP-71**

This check valve may be installed in both horizontal and vertical lines with upward flow or in any intermediate position.



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Bolt	Steel	ASTM A307 Gr. B
2	Name Plate	Aluminum	
3	Cover	3% Nickel Iron	ASTM A126, Class B
4	Cover Gasket	Graphite	
5	Nut	Steel	
6	Side Plug		ASTM A276-316
7	Hanger Pin		ASTM A276-316
8	Hanger		ASTM A351-CF8M
9	Disc Nut		ASTM A194-8M
10	Disc		ASTM A351-CF8M
11	Seat Ring		ASTM A351-CF8M
12	Body	3% Nickel Iron	ASTM A126, Class B

Note 1: The check valve may be installed in both horizontal and vertical lines with upward flow or in any intermediate position.

Note 2: On pump discharge, the preferred check valve is an in-line spring loaded, swing design with lever and weight. Install these valves as far as possible from the pump and elbows and at a minimum length of 5 times the pipe diameter. See 1400 and 1800 series.

Note 3: The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (.25%) of lead by weight. Meets the requirements of Senate law S.3874.

DIMENSIONS - INCHES/MILLIMETERS						
Units	Size	A	B	C	D	C <sub>v</sub>
Inches mm	2	8.00 203	3.94 100	6.00 152	0.63 16	143
Inches mm	2 1/2	8.50 216	4.50 114	7.00 178	0.69 17	242
Inches mm	3	9.50 241	5.13 130	7.50 191	0.75 19	366
Inches mm	4	11.50 292	6.13 156	9.00 229	0.94 24	572
Inches mm	5	13.00 330	6.81 173	10.00 254	0.94 24	894
Inches mm	6	14.00 356	8.00 203	11.00 279	1.00 25	1287
Inches mm	8	19.50 495	9.44 240	13.50 343	1.13 29	2288
Inches mm	10	24.50 622	12.06 306	16.00 406	1.19 30	3574
Inches mm	12	27.50 699	16.13 410	19.00 483	1.25 32	5147

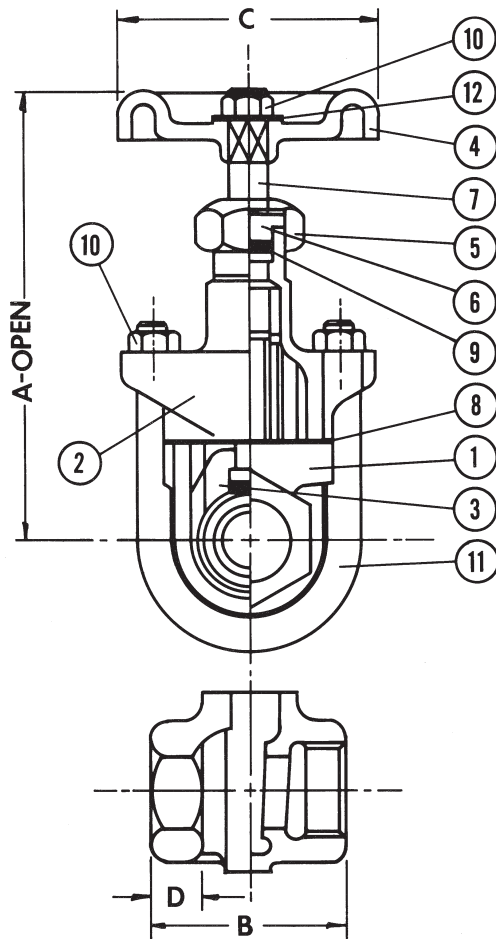
Suffix HI – Signifies International Valves.

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# IR337-HI 1/4"-4"

**Iron Clip Gate Valve**  
**1/4" - 2" 150 SWP - 225 WOG †**  
**2 1/2" - 4" 125 SWP -175 WOG †**  
**Inside Rising Stem • Solid Wedge Disc**  
**Threaded Ends**



MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Ductile Iron-A 536	Ductile Iron-A 536
2	Bonnet	Ductile Iron-A 536	Ductile Iron-A 536
3	Disc	Cast Bronze-B 62	Ductile Iron-A 536
4	Handwheel	Cast Iron-A 126-B	Cast Iron-A 126-B
5	Packing Nut	Ductile Iron-A 536	Ductile Iron-A 536
6	Gland	Brass-B 16	410 SS
7	Stem	Brass-B 16	410 SS
8	Gasket	Commercial	Commercial
9	Packing	Commercial	Commercial
10	Nut	Steel-A 307-A	Steel-A 307-A
11	U-Bolt	Steel-A 307-A	Steel-A 307-A
12	Name Plate	Aluminum	Aluminum

DIMENSIONS - INCHES/MILLIMETERS						
Units	Size	A	B	C	D	C <sub>v</sub>
Inches	1/4 - 1/2	5.00	2.09	2.13	0.47	5
mm		127	53	54	12	
Inches	3/4	6.22	2.52	2.44	0.51	32
mm		158	64	62	13	
Inches	1	7.50	2.64	2.95	0.63	54
mm		191	61	75	16	
Inches	1 1/4	9.00	2.91	2.95	0.70	97
mm		229	74	75	18	
Inches	1 1/2	9.14	3.15	3.75	0.75	135
mm		232	80	95	19	
Inches	2	11.58	3.90	3.98	0.75	230
mm		294	99	101	19	
Inches	2 1/2	12.88	4.60	4.75	0.90	337
mm		327	117	121	23	
Inches	3	14.70	4.92	6.00	0.90	536
mm		375	125	152	23	
Inches	4	19.30	5.94	9.00	0.98	960
mm		490	151	229	25	

Suffix HI – Signifies International Valves.

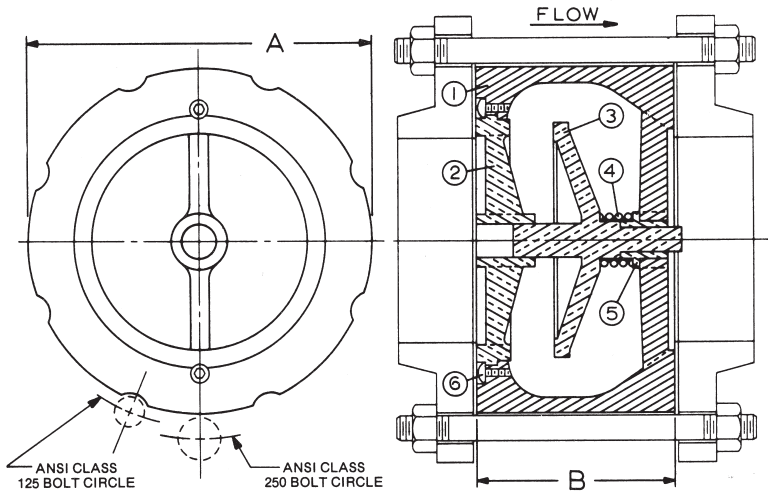
† Non-Shock

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# IR9253 2"-10"

**Iron Wafer Style Silent Check Valve**  
**200 psi (125#), 400 psi (250#)\***  
**Stainless Steel Trim**  
**Conforms to: MSS SP-125**



Note 1: The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (.25%) of lead by weight.

Note 2: Valve is designed for liquid service only. Install minimum 4 to 5 pipe diameters downstream from pump discharge or elbows to avoid flow turbulence. Valve is designed to be mated to standard steel flanges.

MATERIAL LIST		
No.	PART	MATERIAL
1	Body	Cast Iron, ASTM A126
2	Seat	St. Steel, TYPE 304
3	Disc	St. Steel, TYPE 304
4	Spring	St. Steel, TYPE 304
5	Bushing	St. Steel, TYPE 304
6	Screw	St. Steel, TYPE 304

DIMENSIONS - INCHES/MILLIMETERS				
Units	Size	A	B	C <sub>v</sub>
Inches mm	2	4.25 108	2.63 67	66
Inches mm	2 1/2	5.00 127	2.88 73	88
Inches mm	3	5.75 146	3.13 79	130
Inches mm	4	7.00 178	4.00 102	228
Inches mm	5	8.38 213	4.75 121	350
Inches mm	6	9.75 248	5.50 140	520
Inches mm	8	13.38 340	6.50 165	900
Inches mm	10	16.00 406	8.25 210	1450

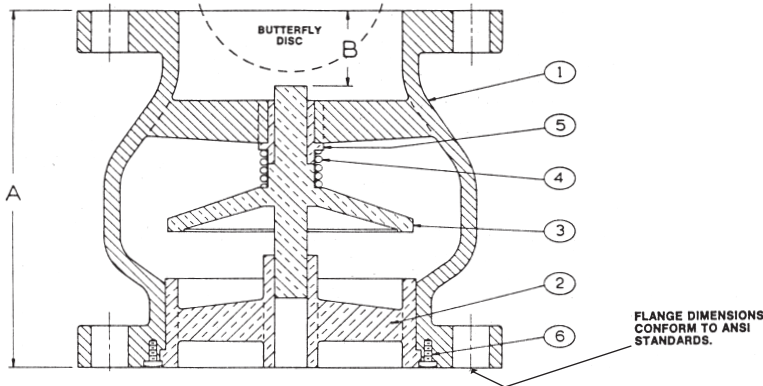
\* Sizes 2" thru 6" have dual class ratings. (Class 125 and 250). Sizes 8" and 10" have separate model numbers or Class125 or 250 flanges.

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).

# IR9354 2 1/2" - 42"

**Iron Globe Style Silent Check Valve**  
**200 psi (125#), 400 psi (250#) †**  
**Stainless Steel Trim**  
**Conforms to: MSS SP-125**



MATERIAL LIST		
No.	PART	MATERIAL
1	Body	Cast Iron, ASTM A126
2	Seat	St. Steel, TYPE 304
3	Disc	St. Steel, TYPE 304
4	Spring	St. Steel, TYPE 304
5	Bushing	St. Steel, TYPE 304
6	Screw	St. Steel, TYPE 304

Note 1: Valve sizes 2 1/2" through 10" will mate up to wafer style butterfly valve without the use of spool pieces or other adaptors. (See "B" dimension for allowable clearance).

Note 2: The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (.25%) of lead by weight.

Note 3: Valve is designed for liquid service only. Install 4 to 5 pipe diameters downstream from pump discharge or elbows to avoid flow turbulence. Valve is designed to be mated to flat faced steel flanges.

IR9354-125 (125#)					IR9354-250 (250#)			
Units	Size	A	B	C <sub>v</sub>	Units	Size	A	B
Inches	2 1/2	5.50	1.19	110	Inches	2 1/2	5.50	1.44
mm		140	30		mm		140	37
Inches	3	6.00	1.38	155	Inches	3	6.00	1.38
mm		152	35		mm		152	35
Inches	4	7.25	1.75	278	Inches	4	7.25	1.75
mm		184	44		mm		184	44
Inches	5	8.50	2.00	435	Inches	5	8.50	2.00
mm		216	51		mm		216	51
Inches	6	9.75	2.50	625	Inches	6	9.75	2.50
mm		248	64		mm		248	64
Inches	8	12.50	3.25	1115	Inches	8	12.50	3.25
mm		318	83		mm		318	83
Inches	10	15.50	4.25	1770	Inches	10	15.50	4.25
mm		394	108		mm		394	108
Inches	12	14.25	N/A	2500	Inches	12	14.25	N/A
mm		362	N/A		mm		362	N/A
Inches	14	15.75	N/A	3400	Inches	14	15.75	N/A
mm		400	N/A		mm		400	N/A
Inches	16	17.63	N/A	4400	Inches	16	17.63	N/A
mm		448	N/A		mm		448	N/A
Inches	18	18.75	N/A	5600	Inches	18	18.75	N/A
mm		476	N/A		mm		476	N/A
Inches	20	20.63	N/A	6900	Inches	20	20.63	N/A
mm		524	N/A		mm		524	N/A
Inches	24	24.00	N/A	10000	Inches	24	24.00	N/A
mm		610	N/A		mm		610	N/A
Inches	30	29.25	N/A	15400	Inches	30	29.25	N/A
mm		743	N/A		mm		743	N/A
Inches	36	45.00	N/A	22400	Inches	36	45.00	N/A
mm		1143	N/A		mm		1143	N/A
Inches	42	50.00	N/A	30400	Inches	42	50.00	N/A
mm		1270	N/A		mm		1270	N/A

† Max Non-Shock Working PSI 125# ANSI B16.1 Flange Rating		
	Temperature	
Size	150° F	200° F
2 1/2" - 12"	200 PSI	190 PSI
14" - 42"	150 PSI	135 PSI

† Max Non-Shock Working PSI 250# ANSI B16.1 Flange Rating		
	Temperature	
Size	150° F	200° F
2 1/2" - 12"	400 PSI	370 PSI
14" - 42"	300 PSI	280 PSI

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