

Bronze & Iron Gate, Globe & Check Valve Index

Model	Spec	Page
118-FP		15
IB412	MSS SP-80	30
IB413T	MSS SP-80	25
IB413TP2	MSS SP-80	26
IB415	MSS SP-80	29
IB418	MSS SP-80	24
IB423	MSS SP-80	27
IB434	MSS SP-80	28
IB440	MSS SP-80	22
IB440P2`	MSS SP-80	23
IB444	MSS SP-80	31
IB454T	MSS SP-80	33
IB463	MSS SP-80	32
IB610		16
IB617	MSS SP-80	5
IB617P2	MSS SP-80	6
IB629	MSS SP-80	13
IB635	MSS SP-80	8
IB638	MSS SP-80	10
IB638P2	MSS SP-80	11
IB640	MSS SP-80	3
IB640P2	MSS SP-80	4
IB641	MSS SP-80	12
IB646	MSS SP-80	9
IB645	MSS SP-80	1
IB645P2	MSS SP-80	2
IB647	MSS SP-80	7
IB648	MSS SP-80	14
IB650	MSS SP-80	17
IB651	MSS SP-80	18
IB652	MSS SP-80	19
IB654	MSS SP-80	20
IB656	MSS SP-80	21
509Y	MSS SP-80	37
509YP2	MSS SP-80	38
515Y	MSS SP-80	45
IB904/IB940	MSS SP-80	35
IB904/IB940P2	MSS SP-80	36

Model	Spec	Page
IB912	MSS SP-80	39
IB944	MSS SP-80	46
IB945	MSS SP-80	44
IB946	MSS SP-80	43
IB949	MSS SP-80	47
943		40
943P2		41
947		42
969		34
IR1124	MSS SP-71	61
IR1124-HI 2" - 12"	MSS SP-71	62
IR1124-HI 14" - 24"	MSS SP-71	63
IR1124-LW	MSS SP-71	67
IR1124-UL		66
IR1126-HI 2" - 12"	MSS SP-71	64
IR1126-HI 14" - 24"	MSS SP-71	65
IR1138	MSS SP-70	48
IR1138-HI	MSS SP-70	49
IR1140	MSS SP-70	51
IR1140-HI 2" - 12"	MSS SP-70	52
IR1140-HI 14" - 24"	MSS SP-70	53
IR1140-UL		55
IR1144-HI	MSS SP-70	50
IR1146-HI	MSS SP-70	54
IR116	MSS SP-85	58
IR116-HI	MSS SP-85	59
IR1913-HI	MSS-SP-70	69
IR1937-HI	MSS-SP-71	70
IR313	MSS SP-85	60
IR322	MSS-SP-71	69
IR330	MSS-SP-70	56
IR330-HI	MSS-SP-70	57
IR337-HI		71
IR9253	MSS-SP-125	72
IR9354	MSS-SP-125	73

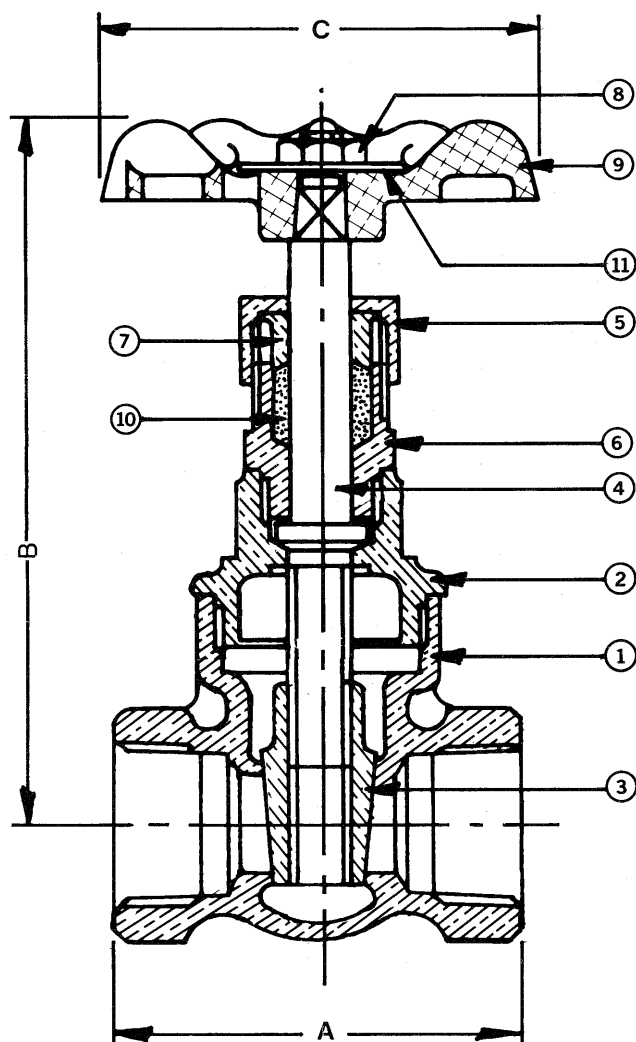
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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.



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 ¹	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

¹ Not used on 1/2" and smaller

DIMENSIONS - INCHES/MILLIMETERS

Units	Size	A	B	C	C _v
Inches mm	1/4	1.75 45	3.63 92	2.00 51	5.6
Inches mm	3/8	1.81 46	3.63 92	2.00 51	10.7
Inches mm	1/2	2.00 51	3.63 92	2.00 51	17.6
Inches mm	3/4	2.13 54	4.38 111	2.50 64	32.0
Inches mm	1	2.56 65	5.00 127	2.75 70	54.0
Inches mm	1 1/4	2.78 71	5.31 135	3.13 79	97.0
Inches mm	1 1/2	2.81 72	6.34 161	3.50 89	135.0
Inches mm	2	3.31 84	7.44 189	3.75 95	230.0
Inches mm	2 1/2	4.19 106	9.13 232	4.75 121	337.0
Inches mm	3	4.63 118	10.47 266	5.25 133	536.0
Inches mm	4	5.50 140	15.50 394	5.25 133	960.0

† Non-Shock

* 4" is not covered in MSS SP-80

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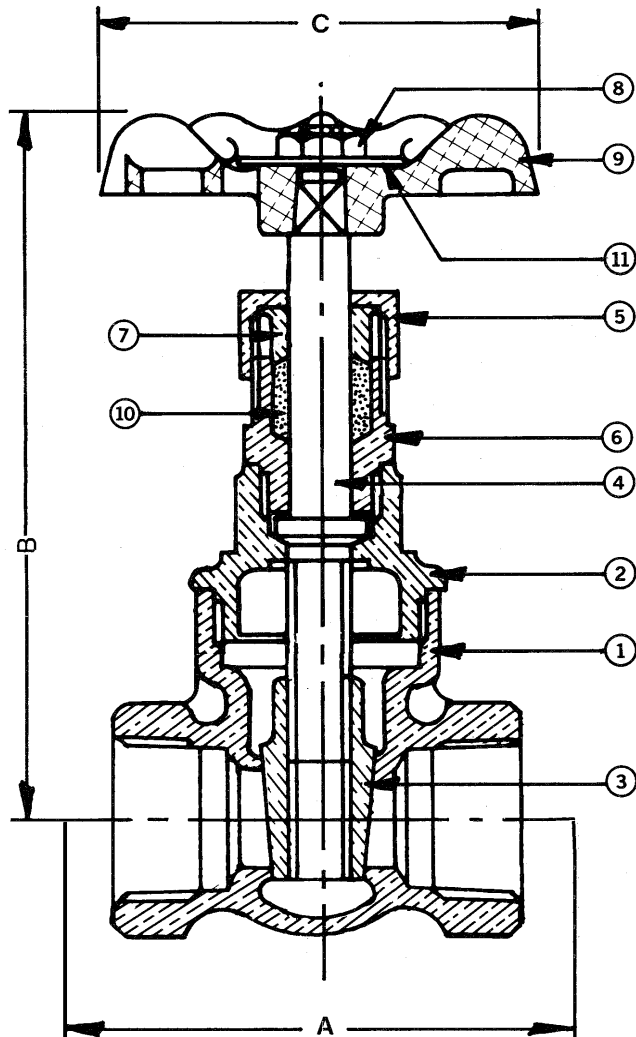
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IB645 P2 1/2"-2"

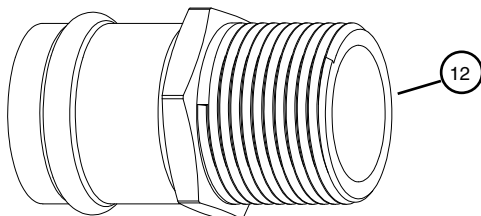
ULTRA PRESS

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 ¹	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

¹ Not used on 1/2" and smaller

DIMENSIONS - INCHES/MILLIMETERS

Units	Size	STD Insertion Depth	A	B	C	C _v
Inches mm	1/2	0.87 22	5.00 127	3.63 92	2.00 51	17.6
Inches mm	3/4	0.98 166	5.71 145	4.38 111	2.50 64	32.0
Inches mm	1	0.98 166	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	3.13 79	97.0
Inches mm	1 1/2	1.42 36	7.29 185	6.34 161	3.50 89	135.0
Inches mm	2	1.58 40	9.31 237	7.44 189	3.75 95	230.0

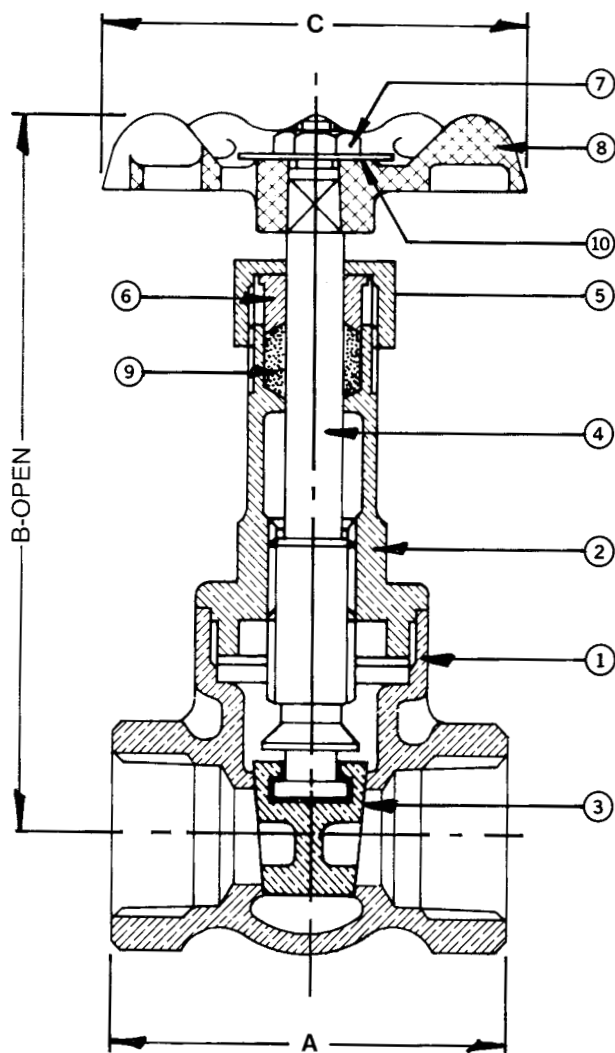
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IB640 1/4"-4"

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 ¹	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

¹ Not used on 1/2" and smaller

DIMENSIONS - INCHES/MILLIMETERS

Units	Size	A	B	C	C _v
Inches mm	1/4	1.75 45	4.38 111	2.00 51	5.6
Inches mm	3/8	1.81 46	4.38 111	2.00 51	10.7
Inches mm	1/2	2.00 51	4.38 111	2.00 51	17.6
Inches mm	3/4	2.13 54	5.84 148	2.50 64	32.0
Inches mm	1	2.56 65	7.06 179	2.75 70	54.0
Inches mm	1 1/4	2.78 71	8.78 223	3.13 79	97.0
Inches mm	1 1/2	2.81 72	9.50 241	3.50 89	135.0
Inches mm	2	3.31 84	11.50 292	3.75 95	230.0
Inches mm	2 1/2	4.19 106	14.31 364	4.75 121	337.0
Inches mm	3	4.63 118	16.63 422	5.25 133	536.0
Inches mm	4	5.50 140	15.50 394	5.25 133	960.0

† Non-Shock

* 4" is not covered in MSS SP-80

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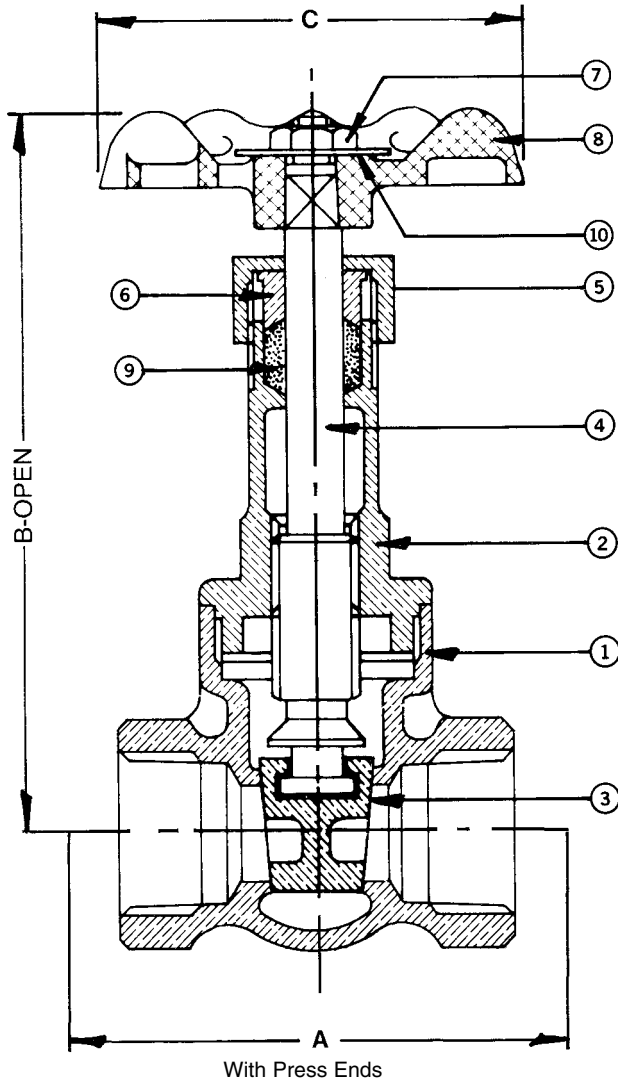
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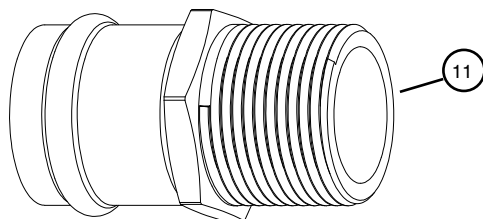
IB640 P2 1/2"-2"

ULTRA PRESS

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 ¹	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

¹ Not used on 1/2" and smaller

DIMENSIONS - INCHES/MILLIMETERS						
Units	Size	STD Insertion Depth	A	B	C	C _v
Inches mm	1/2	0.87 22	5.00 127	4.38 111	2.00 51	17.6
Inches mm	3/4	0.98 166	5.71 145	5.84 148	2.50 64	32.0
Inches mm	1	0.98 166	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	3.13 79	97.0
Inches mm	1 1/2	1.42 36	7.29 185	9.50 241	3.50 89	135.0
Inches mm	2	1.58 40	9.31 236	11.50 292	3.75 95	230.0

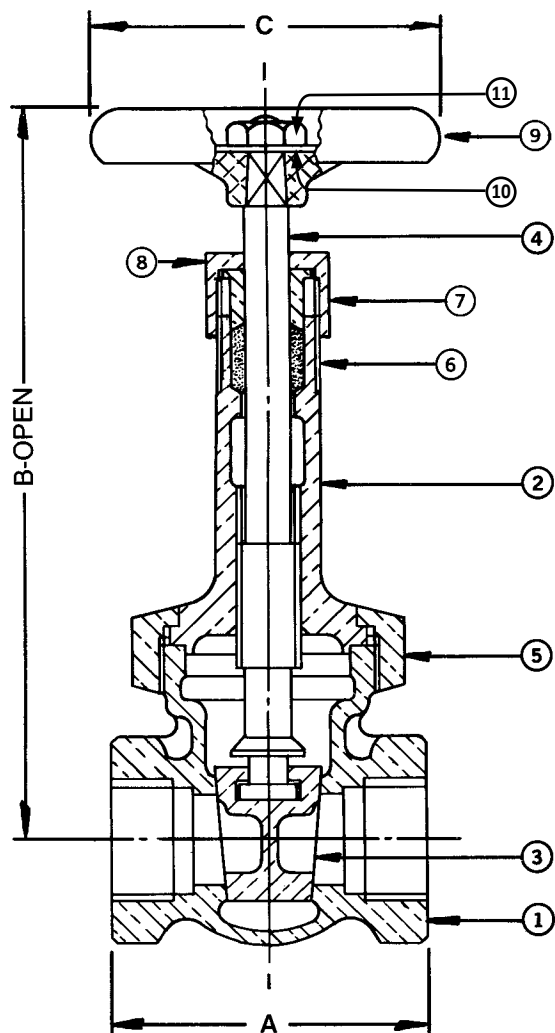
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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

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 _v
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	2.75 70	8.56 218	3.13 79	97.0
Inches mm	1 1/2	3.25 83	9.63 245	3.50 89	135.0
Inches mm	2	3.63 92	11.75 299	4.00 102	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

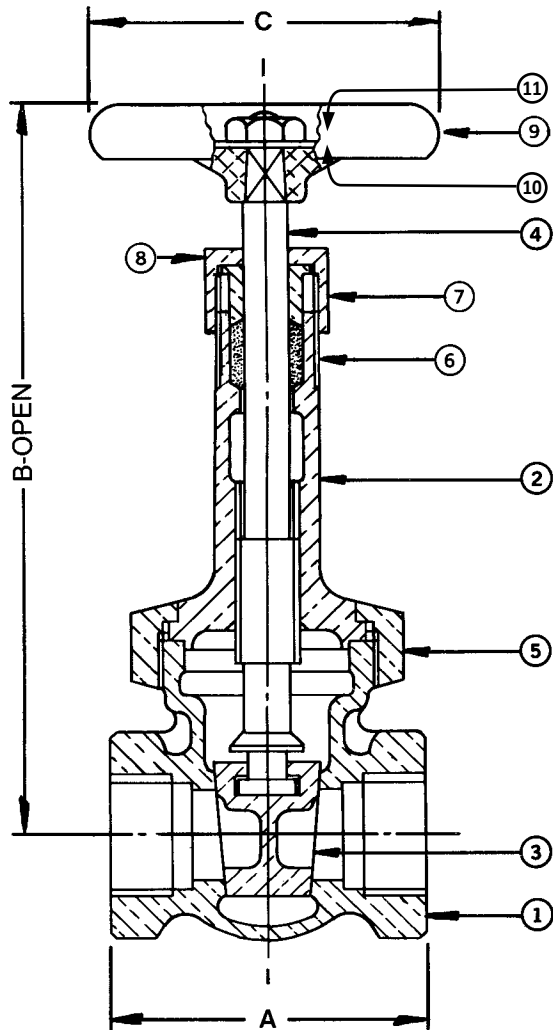
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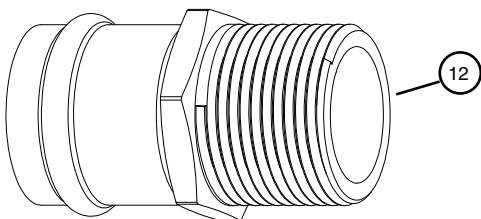
IB617 P2 1/2"-2"

ULTRA PRESS

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 _v
Inches mm	1/2	0.87 22	5.13 130	5.50 140	2.50 64	17.6
Inches mm	3/4	0.98 166	5.83 148	6.25 159	2.75 70	32.0
Inches mm	1	0.98 166	6.56 167	7.19 183	2.75 70	54.0
Inches mm	1 1/4	1.02 26	6.82 173	8.56 216	3.13 79	97.0
Inches mm	1 1/2	1.42 36	7.73 196	9.63 245	3.50 89	135.0
Inches mm	2	1.58 40	9.63 245	11.75 299	4.00 102	230.0

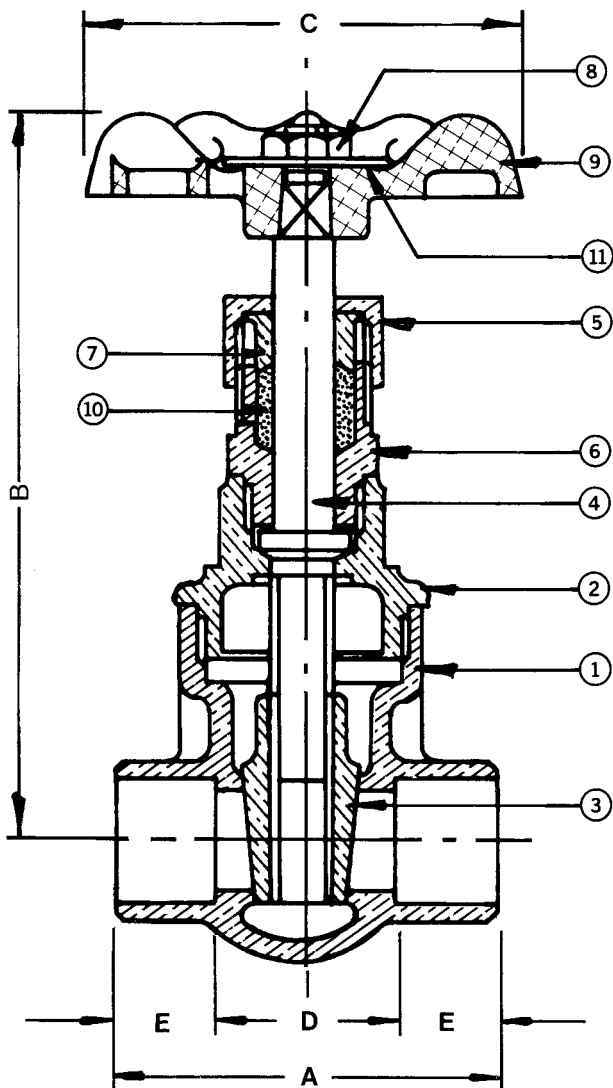
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IB647 3/8"-4"

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*



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 ¹	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

¹ Not used on 1/2" and smaller

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C _v
Inches mm	3/8	1.63 41	3.56 91	2.00 51	0.88 22	0.38 10	5.6
Inches mm	1/2	1.88 48	3.56 91	2.00 51	0.88 22	0.50 13	10.7
Inches mm	3/4	2.50 64	4.75 121	2.50 64	1.00 25	0.75 19	17.6
Inches mm	1	3.00 76	5.00 127	2.75 70	1.19 30	0.91 23	32.0
Inches mm	1 1/4	3.25 83	5.88 149	3.13 79	1.31 33	0.97 25	54.0
Inches mm	1 1/2	3.63 92	6.50 165	3.50 89	1.44 37	1.09 28	97.0
Inches mm	2	4.31 110	7.44 189	3.75 95	1.63 41	1.34 34	135.0
Inches mm	2 1/2	4.81 122	9.13 232	4.75 121	1.88 48	1.47 37	230.0
Inches mm	3	5.44 138	10.38 264	5.25 133	2.13 54	1.66 42	337.0
Inches mm	4	7.25 184	15.50 394	5.25 133	2.16 55	2.94 75	536.0

† Non-Shock

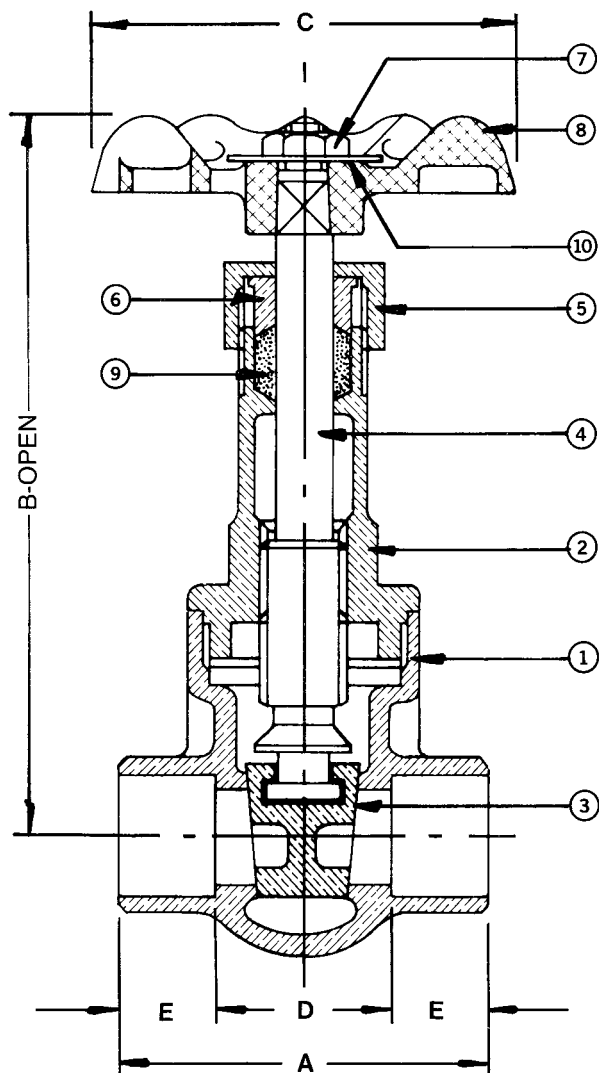
* 4" is not covered in MSS SP-80. It has a split wedge and bolted bonnet.

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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*



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 ¹	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

¹ Not used on 1/2" and smaller

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C _v
Inches mm	3/8	1.63 41	4.31 110	2.00 51	0.88 22	0.38 10	5.6
Inches mm	1/2	1.88 48	4.31 110	2.00 51	0.88 22	0.50 13	10.7
Inches mm	3/4	2.50 64	6.25 159	2.50 64	1.00 25	0.75 19	17.6
Inches mm	1	3.00 76	7.00 178	2.75 70	1.19 30	0.91 23	32.0
Inches mm	1 1/4	3.25 83	8.63 219	3.13 79	1.31 33	0.97 25	54.0
Inches mm	1 1/2	3.63 92	9.50 241	3.50 89	1.44 37	1.09 28	97.0
Inches mm	2	4.31 110	11.50 292	3.75 95	1.63 41	1.34 34	135.0
Inches mm	2 1/2	4.81 122	14.31 364	4.75 121	1.88 48	1.47 37	230.0
Inches mm	3	5.44 138	16.38 416	5.25 133	2.13 54	1.66 42	337.0
Inches mm	4	7.25 184	15.50 394	5.25 133	2.16 55	2.94 75	536.0

† Non-Shock

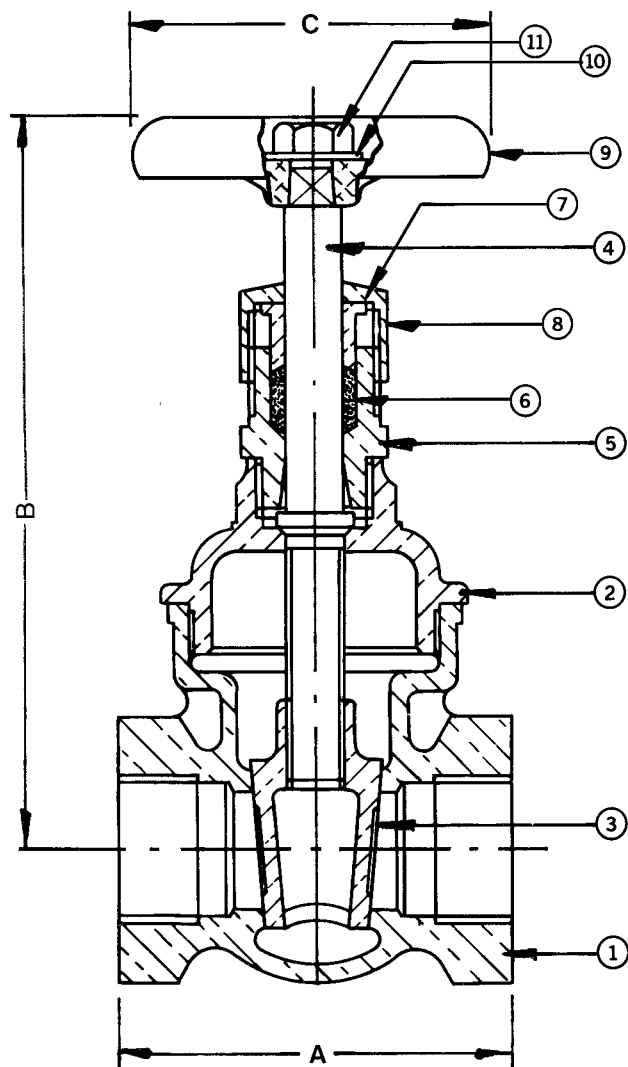
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IB646 1/4"-4"

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 _v
Inches mm	1/4	1.75 45	3.63 92	2.00 51	5.6
Inches mm	3/8	1.81 46	3.63 92	2.00 51	10.7
Inches mm	1/2	2.00 51	3.63 92	2.00 51	17.6
Inches mm	3/4	2.13 54	4.38 111	2.50 64	32.0
Inches mm	1	2.56 65	5.00 127	2.75 70	54.0
Inches mm	1 1/4	2.78 71	5.31 135	3.13 79	97.0
Inches mm	1 1/2	2.81 72	6.34 161	3.50 89	135.0
Inches mm	2	3.31 84	7.44 189	3.75 95	230.0
Inches mm	2 1/2	4.19 106	9.13 232	4.75 121	337.0
Inches mm	3	4.63 118	10.47 266	5.25 133	536.0
Inches mm	4	5.50 140	15.50 394	5.25 133	960.0

† Non-Shock

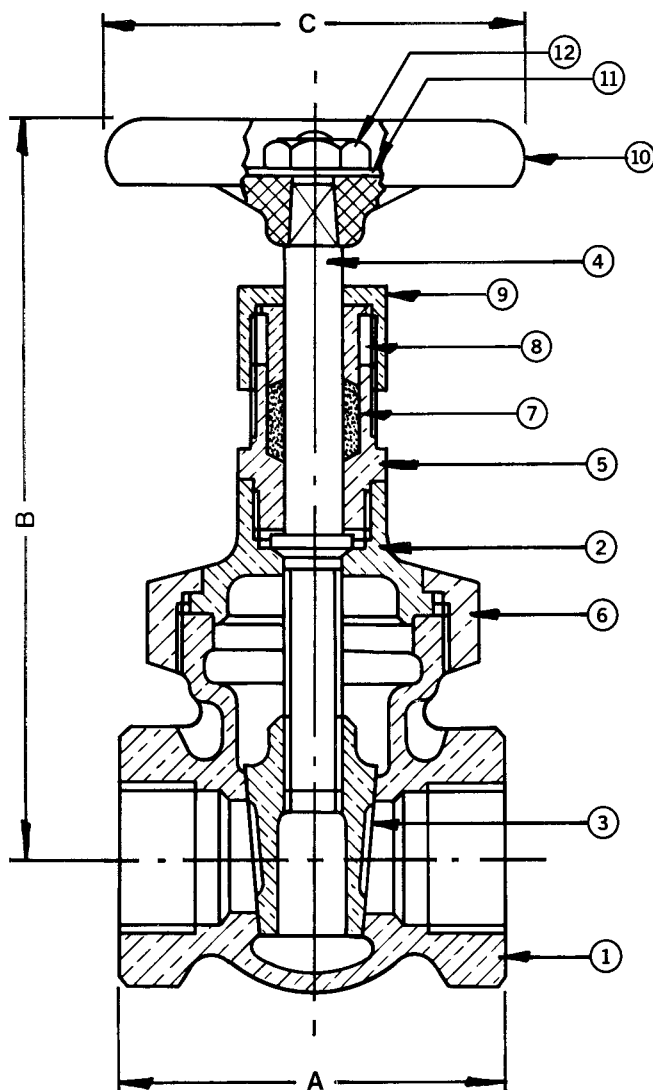
* 4" is not covered in MSS SP-80

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

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 _v
Inches mm	1/4	1.75 45	3.69 94	2.00 51	5.6
Inches mm	3/8	1.88 48	3.69 94	2.00 51	10.7
Inches mm	1/2	2.13 54	4.31 110	2.50 64	17.6
Inches mm	3/4	2.25 57	4.56 116	2.75 70	32.0
Inches mm	1	2.56 65	5.19 132	2.75 70	54.0
Inches mm	1 1/4	3.25 83	5.94 151	3.13 79	97.0
Inches mm	1 1/2	3.25 83	6.38 162	3.50 89	135.0
Inches mm	2	3.63 92	7.69 195	4.00 102	230.0

† Non-Shock

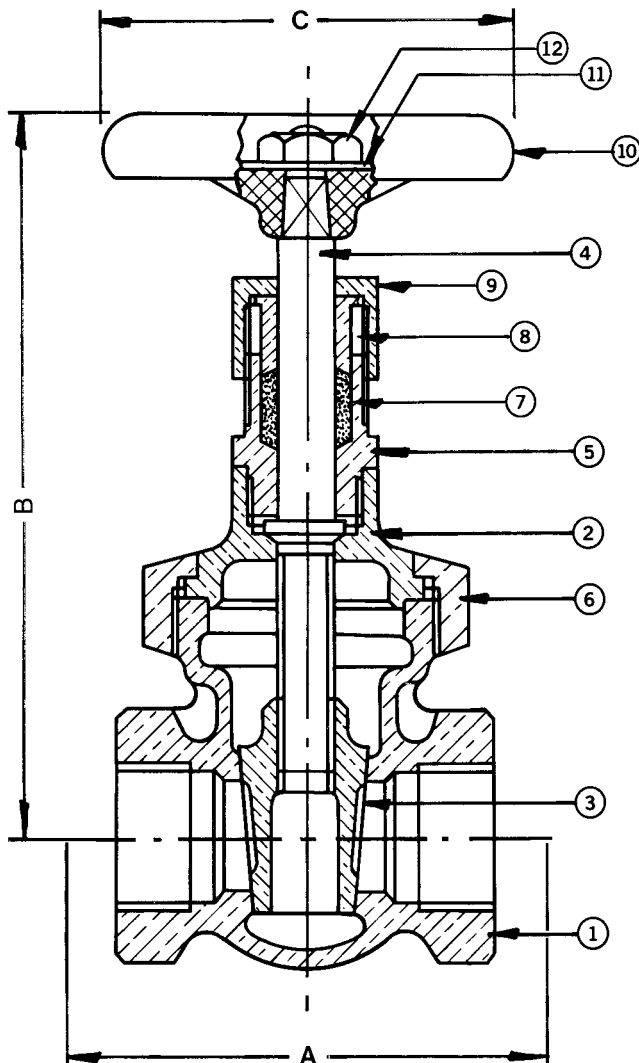
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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

IB638 P2 1/2"-2"

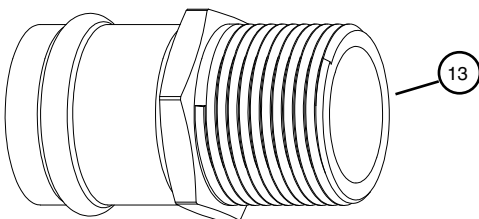
ULTRA PRESS

Bronze Gate Valve
200 psig @ 250°F †
Solid Wedge Disc • Non-Rising Stem
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	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 _v
Inches mm	1/2	0.87 22	5.13 130	4.31 110	2.50 64	17.6
Inches mm	3/4	0.98 166	5.83 148	4.56 116	2.75 70	32.0
Inches mm	1	0.98 166	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	3.13 79	97.0
Inches mm	1 1/2	1.42 36	7.73 196	6.38 162	3.50 89	135.0
Inches mm	2	1.58 40	9.63 245	7.69 195	4.00 102	230.0

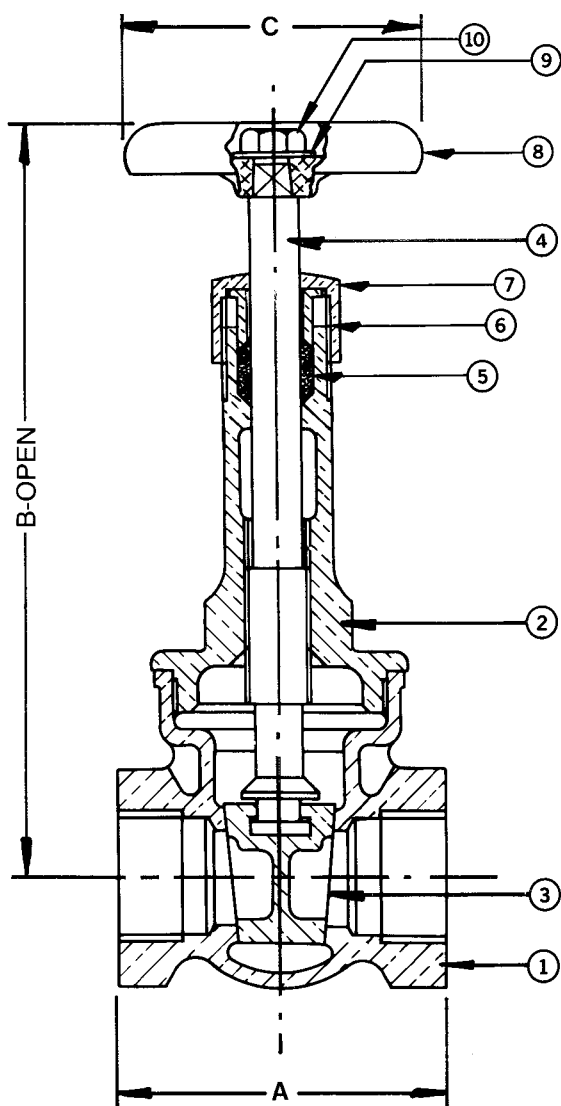
† Non-Shock

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

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 _v
Inches mm	1/4	1.75 45	4.38 111	2.00 51	5.6
Inches mm	3/8	1.81 46	4.38 111	2.00 51	10.7
Inches mm	1/2	2.00 51	4.38 111	2.00 51	17.6
Inches mm	3/4	2.13 54	5.84 149	2.50 64	32.0
Inches mm	1	2.56 65	7.06 180	2.75 70	54.0
Inches mm	1 1/4	2.78 71	8.78 223	3.13 79	97.0
Inches mm	1 1/2	2.81 72	9.50 241	3.50 89	135.0
Inches mm	2	3.31 84	11.50 292	3.75 95	230.0
Inches mm	2 1/2	4.19 106	14.31 364	4.75 121	337.0
Inches mm	3	4.63 118	16.63 422	5.25 133	536.0
Inches mm	4	5.50 140	15.50 394	5.25 133	960.0

† Non-Shock

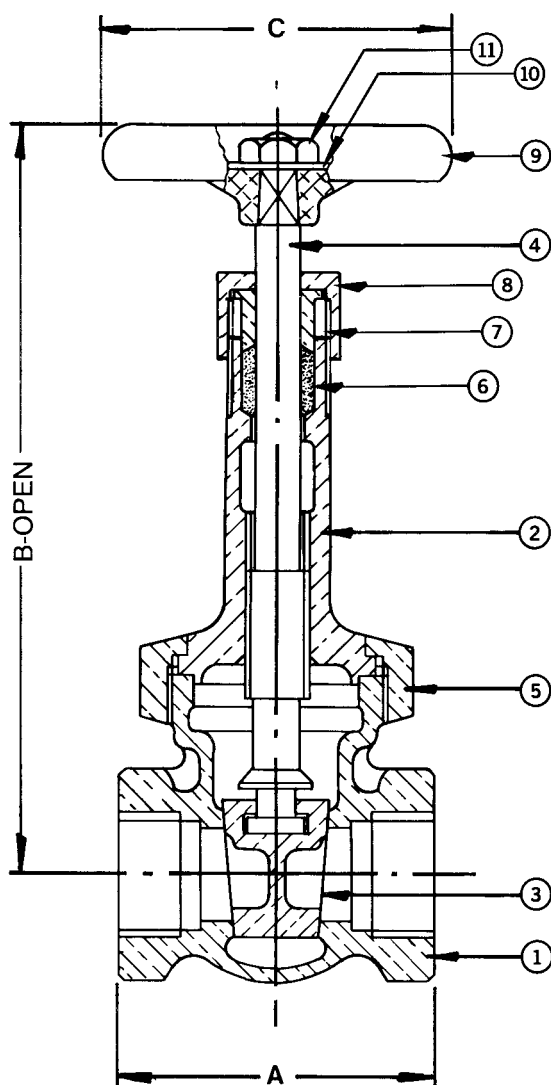
* 4" is not covered in MSS SP-80

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

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	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 _v
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	3.13 79	97.0
Inches mm	1 1/2	3.25 83	9.63 245	3.50 89	135.0
Inches mm	2	3.63 92	11.75 299	4.00 102	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

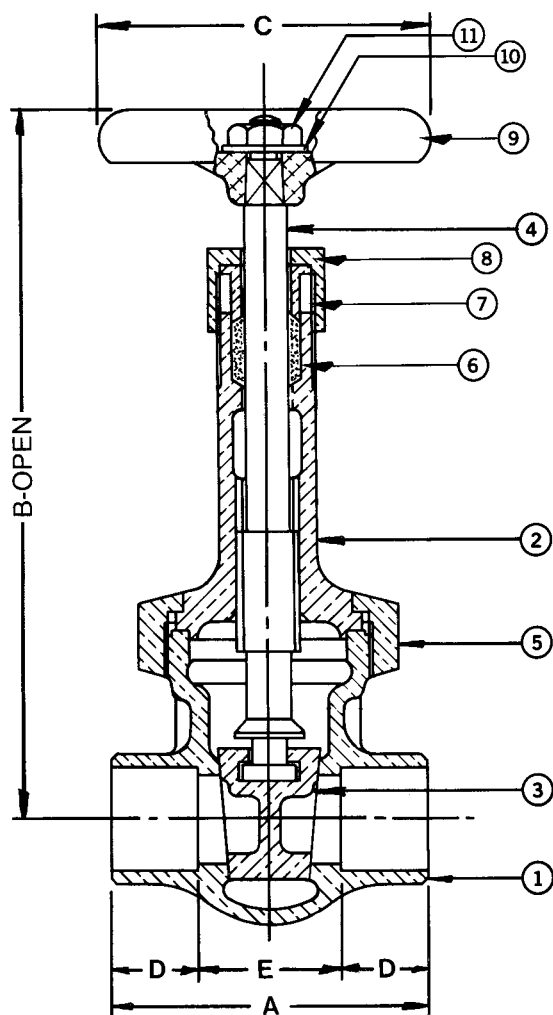
† Non-Shock

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

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 _v
Inches mm	3/8	1.63 41	5.13 130	2.00 51	.38 10	.88 22	5.6
Inches mm	1/2	2.13 54	5.50 140	2.50 64	0.50 13	1.13 29	10.7
Inches mm	3/4	2.63 67	6.25 159	2.75 70	0.75 19	1.13 29	17.6
Inches mm	1	3.00 76	7.19 183	2.75 70	0.91 23	1.19 30	32.0
Inches mm	1 1/4	3.38 86	8.56 218	3.13 80	0.97 25	1.44 37	54.0
Inches mm	1 1/2	3.75 95	9.63 245	3.50 89	1.09 28	1.56 40	97.0
Inches mm	2	4.31 110	11.75 299	4.00 102	1.34 34	1.63 41	135.0
Inches mm	2 1/2	5.25 133	14.25 362	4.75 121	1.47 37	2.31 59	230.0
Inches mm	3	5.75 133	16.50 419	5.25 133	1.66 42	2.44 62	337.0

† Non-Shock

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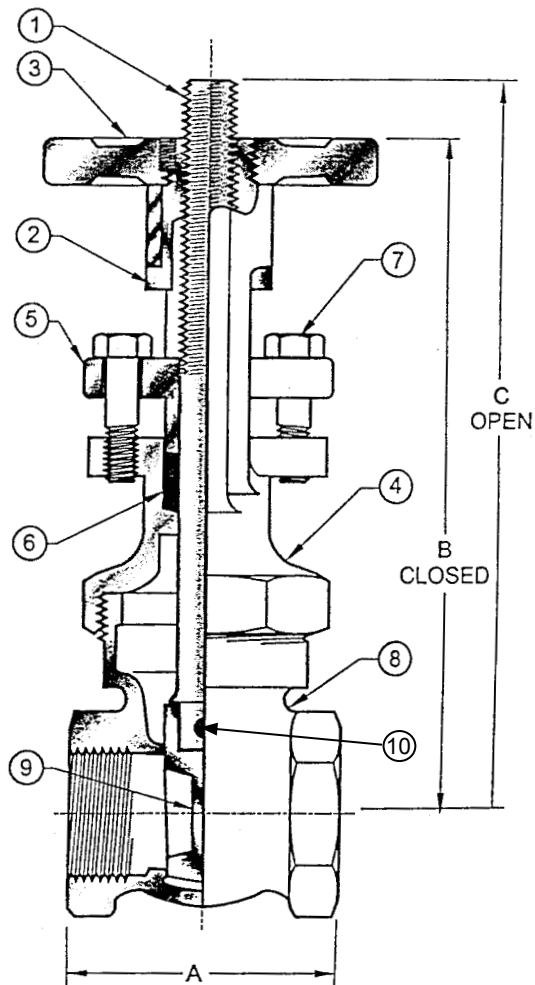
⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

118-FP 1"-2"

Bronze Gate Valve
175 WOG† • O.S. & Y
Solid Wedge Disc • Screwed Ends • Screwed 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



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
Inches mm	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
Inches mm	2	3.13 79	9.00 229	11.25 286

† Non-Shock

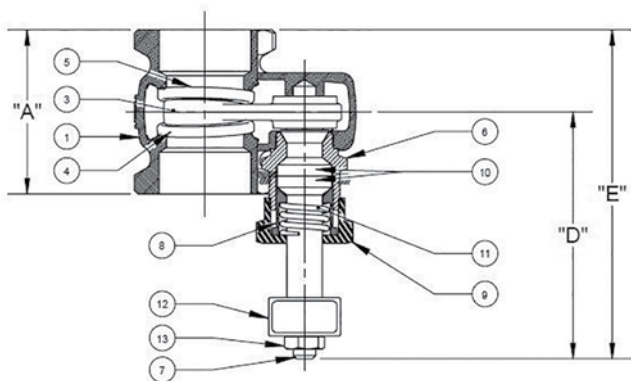
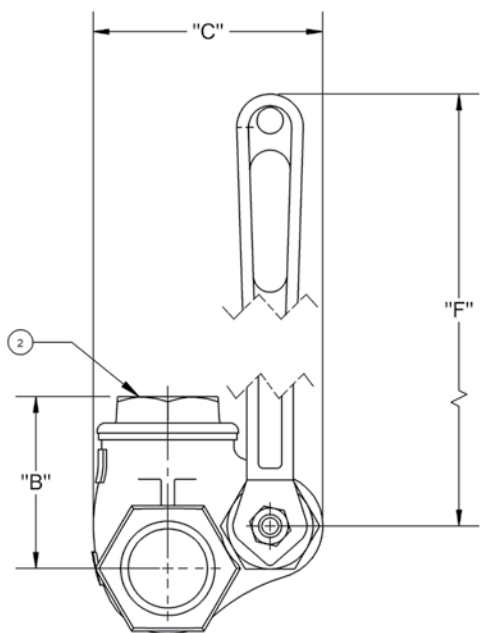
Note: Not intended for use in potable water.

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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

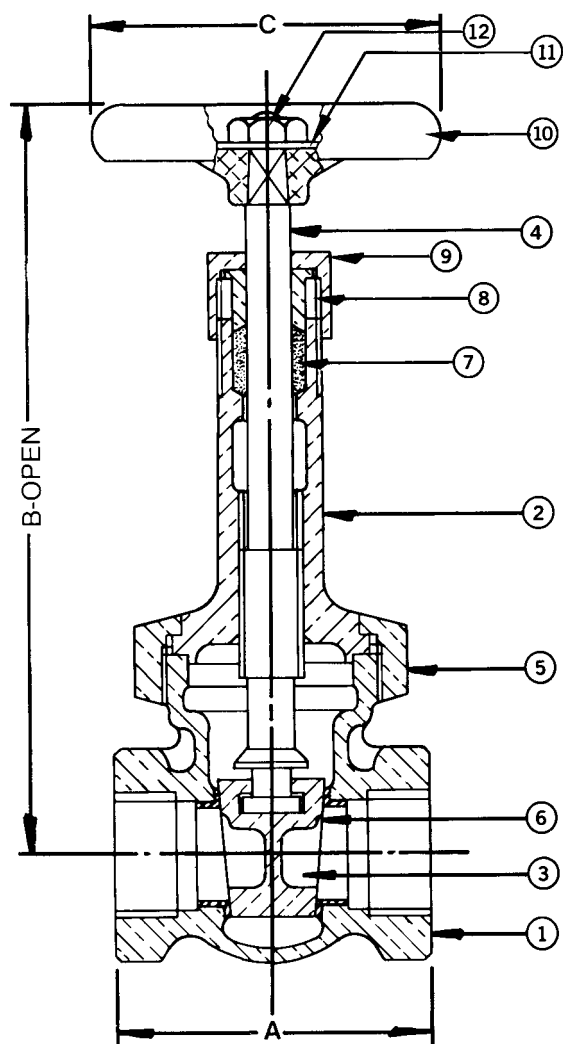
*4" SIZE HAS A BOLTED BONNET (NOT PICTURED)

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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



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	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 _v
Inches	1/4	1.81	5.13	2.25	5.6
mm		46	130	57	
Inches	3/8	1.88	5.13	2.25	10.7
mm		48	130	57	
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	3.25	97.0
mm		83	218	83	
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

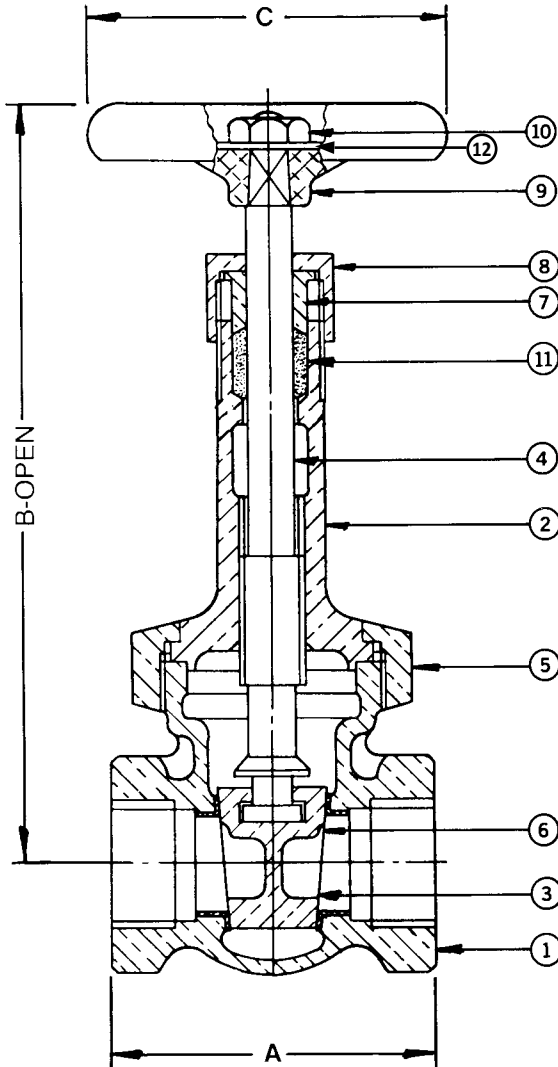
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IB651 1/4"-3"

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 124 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 _v
Inches mm	1/4	1.81 46	5.13 130	2.25 57	5.6
Inches mm	3/8	1.88 48	5.13 130	2.25 57	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	3.25 83	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	230.0

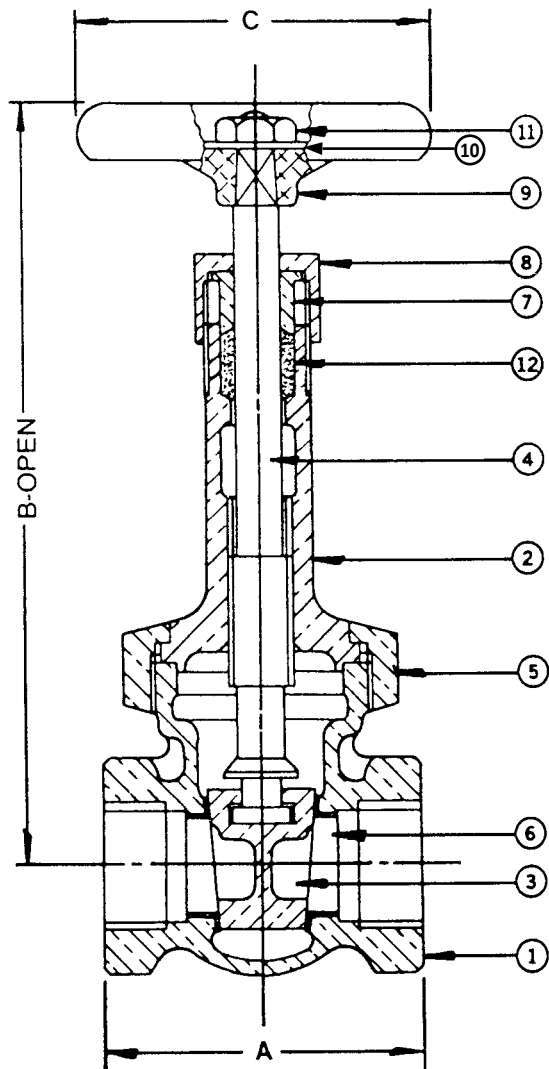
† Non-Shock

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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 _v
Inches mm	1/4	1.81 46	5.13 130	2.25 57	5.6
Inches mm	3/8	1.88 48	5.13 130	2.25 57	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	3.25 83	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

† Non-Shock

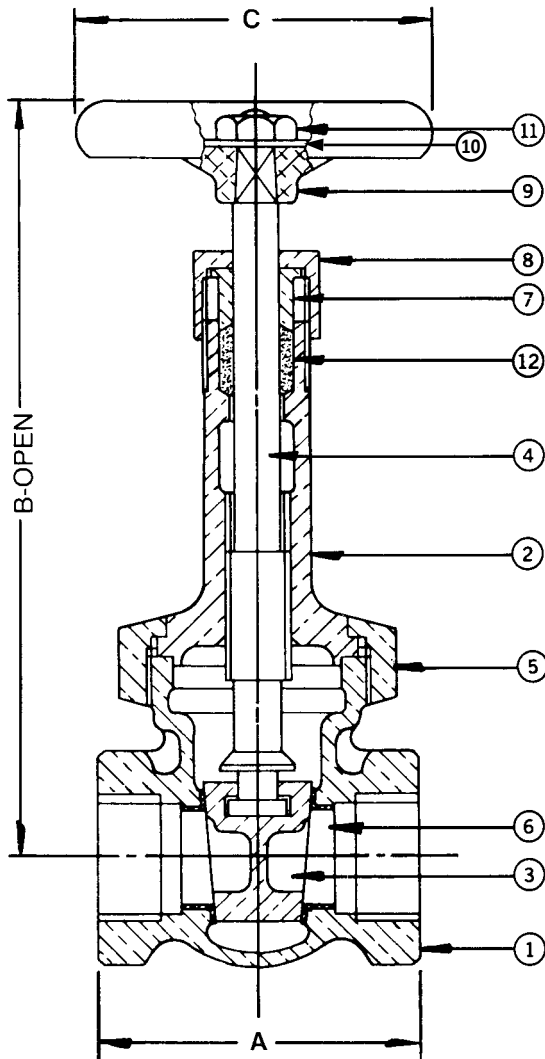
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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

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 _v
Inches mm	1/4	1.81 46	5.13 130	2.25 57	5.6
Inches mm	3/8	1.88 48	5.13 130	2.25 57	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	3.25 83	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

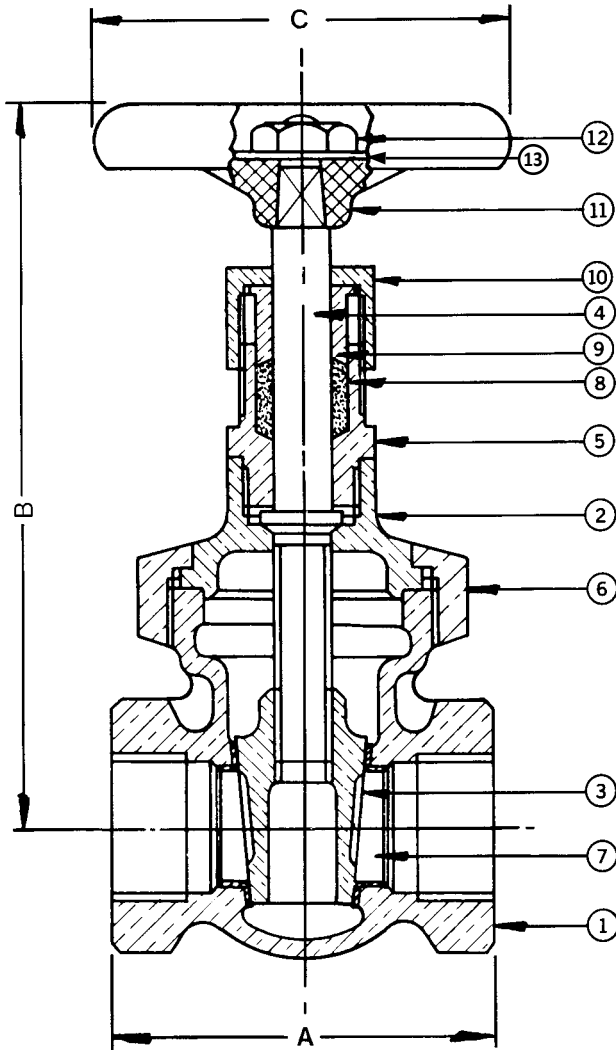
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IB656 1/4"-2"

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 _v
Inches mm	1/4	1.81 46	4.13 105	2.25 57	5.6
Inches mm	3/8	1.88 48	4.13 105	2.25 57	10.7
Inches mm	1/2	2.25 57	4.31 110	2.50 64	17.6
Inches mm	3/4	2.50 64	4.56 116	2.75 70	32.0
Inches mm	1	3.00 76	5.19 132	2.75 70	54.0
Inches mm	1 1/4	3.38 86	5.94 151	3.25 83	97.0
Inches mm	1 1/2	3.50 89	6.38 162	3.75 95	135.0
Inches mm	2	3.75 95	7.69 195	4.25 108	230.0

† Non-Shock

* 4" is not covered in MSS SP-80

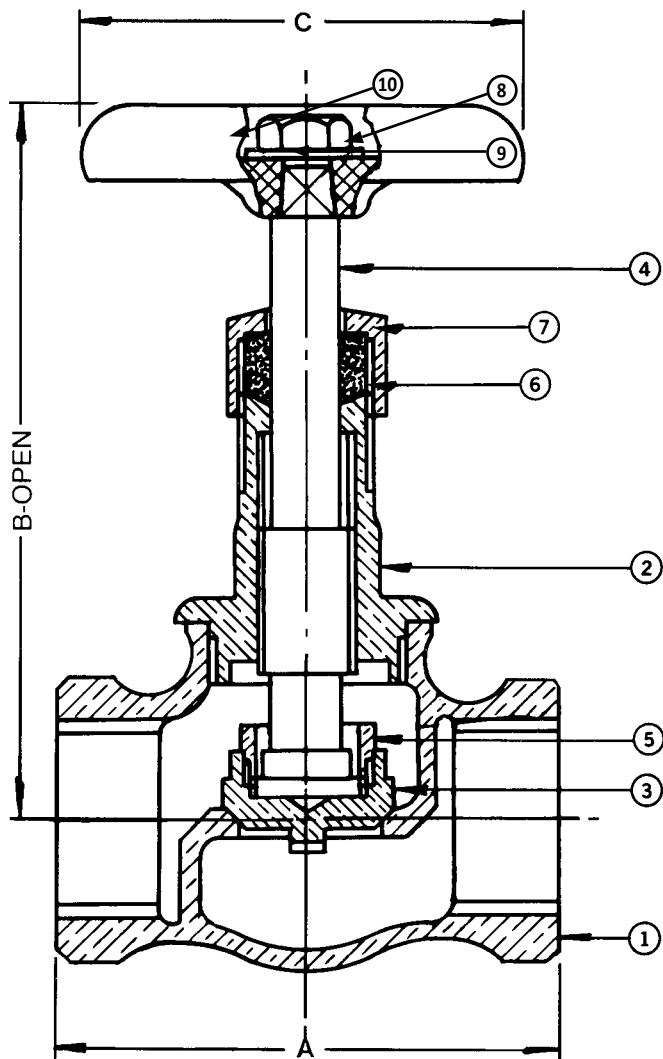
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IB440 1/8"-3"

Bronze Globe 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 B16
5	Disc Ring	Brass	ASTM B16 3/4" to 2" ASTM B62 2 1/2" and 3"
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)	Brass	ASTM B16 2 1/2" and 3" only

1/8" 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 _v
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	2.25 57	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	3.13 79	20.00
Inches mm	1 1/2	3.69 94	5.75 146	3.50 89	28.00
Inches mm	2	4.44 113	6.75 172	4.00 102	48.00
Inches mm	2 1/2	5.75 146	8.63 219	4.75 121	70.00
Inches mm	3	6.88 175	9.25 235	5.50 140	111.00

† Non-Shock

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IB440 P2 1/2"-2"

ULTRA PRESS

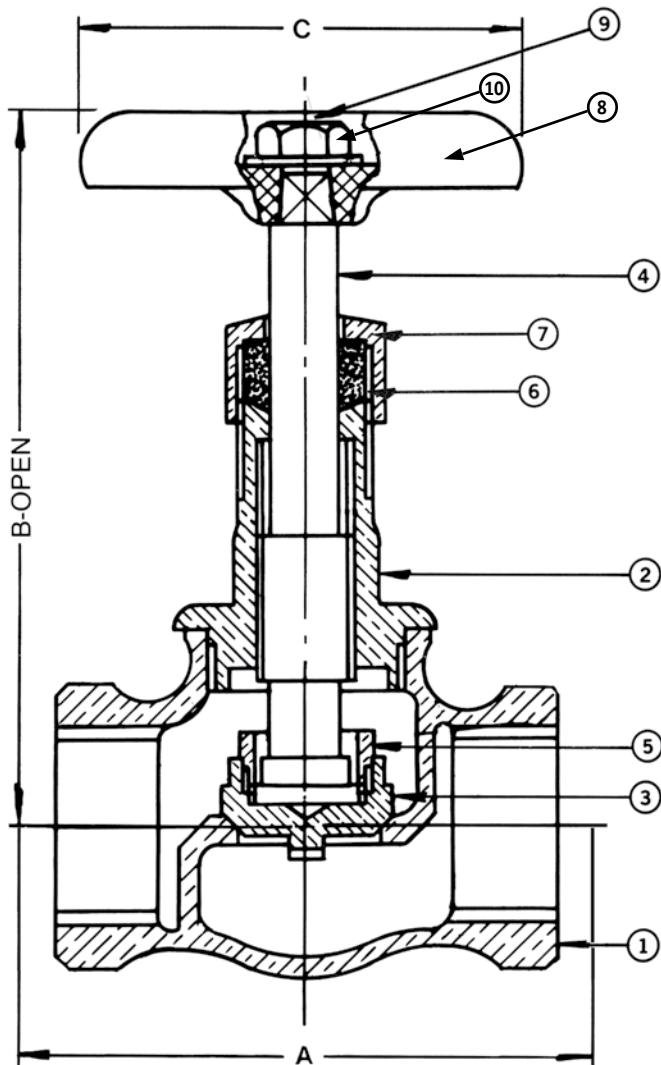
Bronze Globe Valve

200 psig @ 250°F †

Bronze Disc

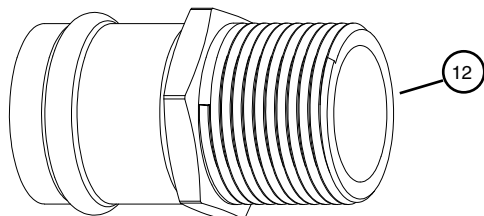
Threaded Bonnet • Press Ends

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	Disc	Bronze	ASTM B62
4	Stem	Bronze	ASTM B16
5	Disc Ring	Brass	ASTM B16 3/4" to 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)	Brass	ASTM B16
12	Press Adapter	Brass Fitted W/EPDM O-Ring	ASTM C27450

1/2" size has the disc integral with the stem and have no disc ring.

DIMENSIONS - INCHES/MILLIMETERS

Units	Size	STD Insertion Depth	A	B	C	C _v
Inches mm	1/2	0.87 22	5.31 135	3.63 92	2.25 57	3.64
Inches mm	3/4	0.98 166	6.14 156	3.94 100	2.50 64	6.65
Inches mm	1	0.98 166	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	3.13 79	20.00
Inches mm	1 1/2	1.42 36	8.17 208	5.75 146	3.50 89	28.00
Inches mm	2	1.58 40	10.44 265	6.75 172	4.00 102	48.00

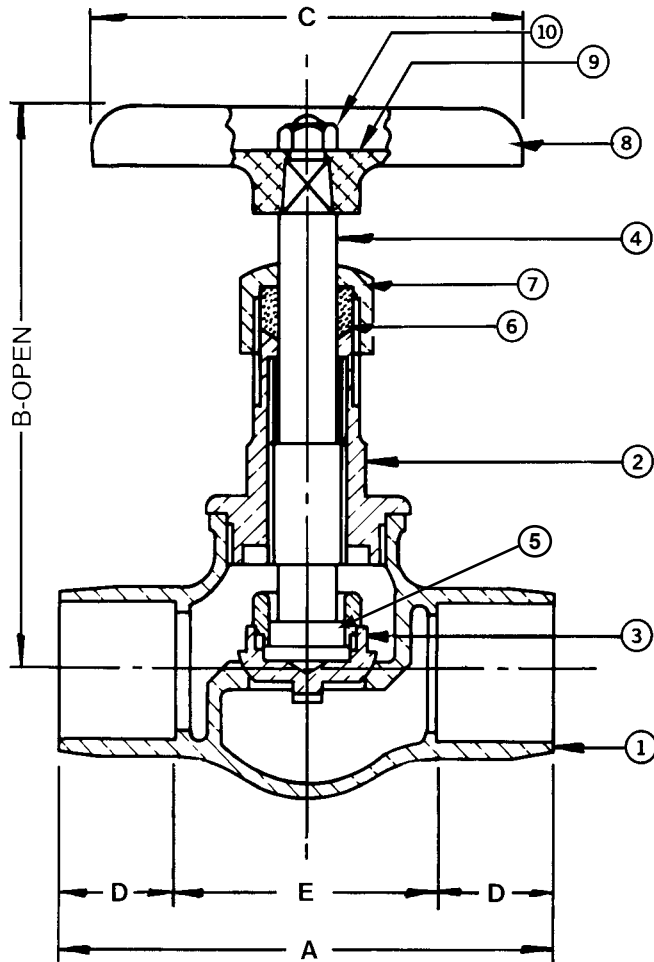
† Non-Shock

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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 C4500

DIMENSIONS - INCHES/MILLIMETERS

Units	Size	A	B	C	D	E	C _v
Inches mm	3/8	2.00 59	3.19 82	2.00 51	0.38 10	1.25 32	2.21
Inches mm	1/2	2.44 62	3.75 95	2.25 57	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	3.13 80	0.97 25	2.25 57	20.00
Inches mm	1 1/2	4.75 121	5.63 143	3.50 89	1.09 28	2.56 65	28.00
Inches mm	2	5.94 151	6.69 170	4.00 102	1.34 34	3.25 83	48.00

† Non-Shock

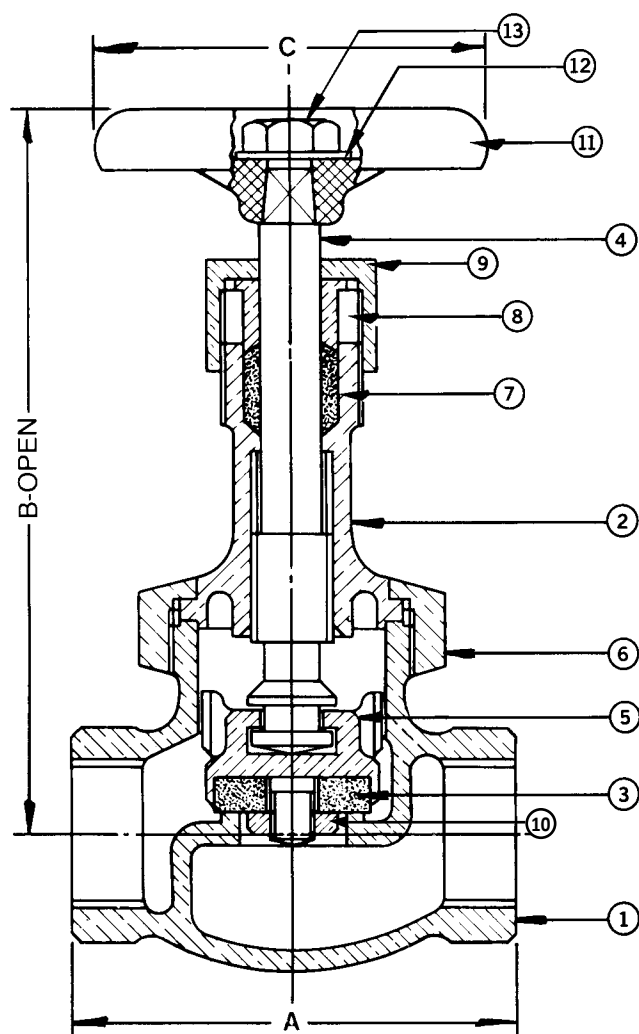
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IB413T 1/8"-3"

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" and 3" Incl.
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 _v
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	3.13 79	11.10
Inches mm	1 1/4	3.88 98	6.25 159	3.50 89	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	5.25 133	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"

ULTRA PRESS

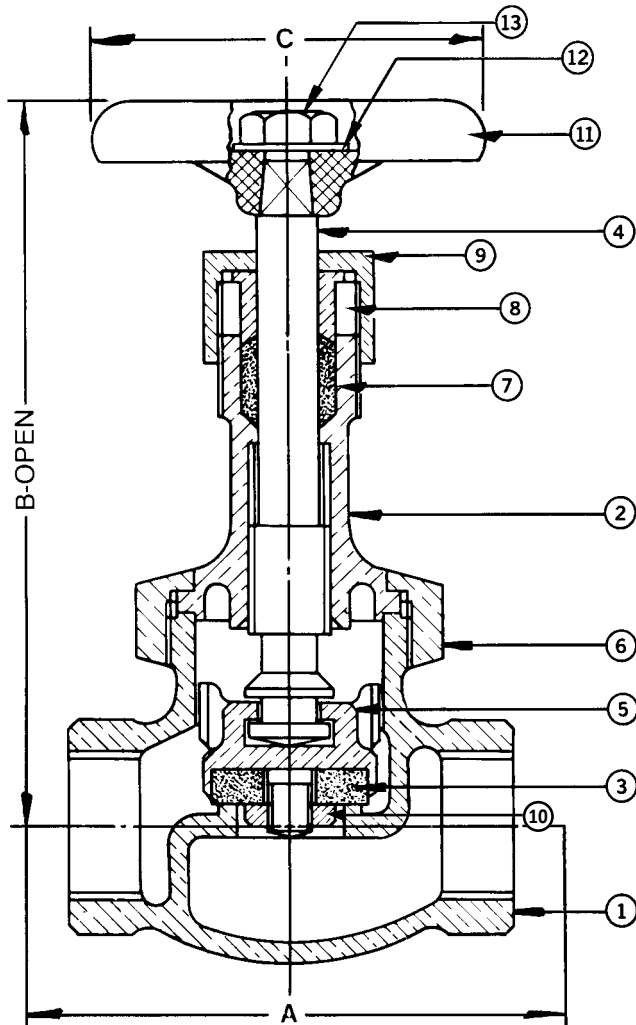
Bronze Globe Valve

200 psig @ 250°F †

Teflon Disc

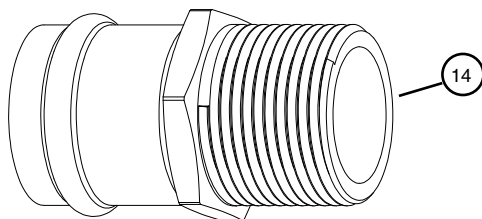
Union Bonnet • Press Ends

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" and 2" Incl.
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 _v
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	3.13 79	11.10
Inches mm	1 1/4	1.02 26	7.95 202	6.25 159	3.50 89	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

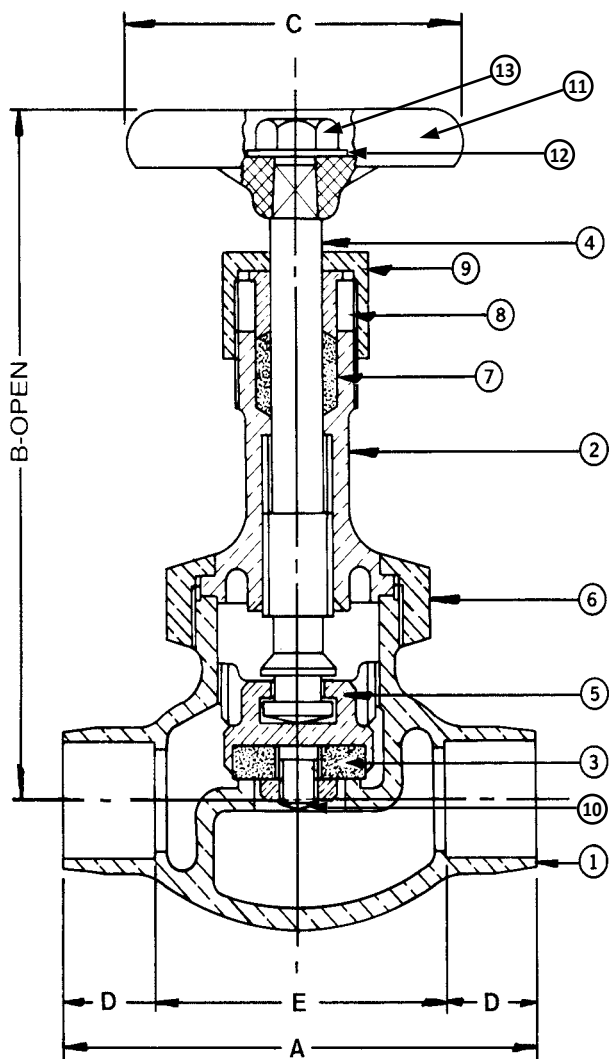
† Non-Shock

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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 B584
		Bronze 1 1/2"-1 1/4"	
10	Disc Nut	Bronze	ASTM B62
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 _v
Inches mm	1/2	2.75 70	4.50 114	2.25 57	0.50 13	1.75 45	3.64
Inches mm	3/4	3.56 91	5.19 132	2.75 70	0.75 19	2.06 52	6.65
Inches mm	1	4.31 110	5.50 140	3.13 80	0.91 23	2.50 64	11.10
Inches mm	1 1/4	5.00 127	6.25 159	3.50 89	0.97 25	3.06 78	20.00
Inches mm	1 1/2	5.75 146	7.13 181	3.75 95	1.09 28	3.56 91	28.00
Inches mm	2	7.06 179	8.88 225	4.75 121	1.34 34	4.38 111	48.00
Inches mm	2 1/2	8.19 64	10.63 270	5.50 140	1.47 37	5.25 133	70.00
Inches mm	3	9.56 243	12.13 308	6.00 152	1.66 42	6.25 159	111.00

† Non-Shock

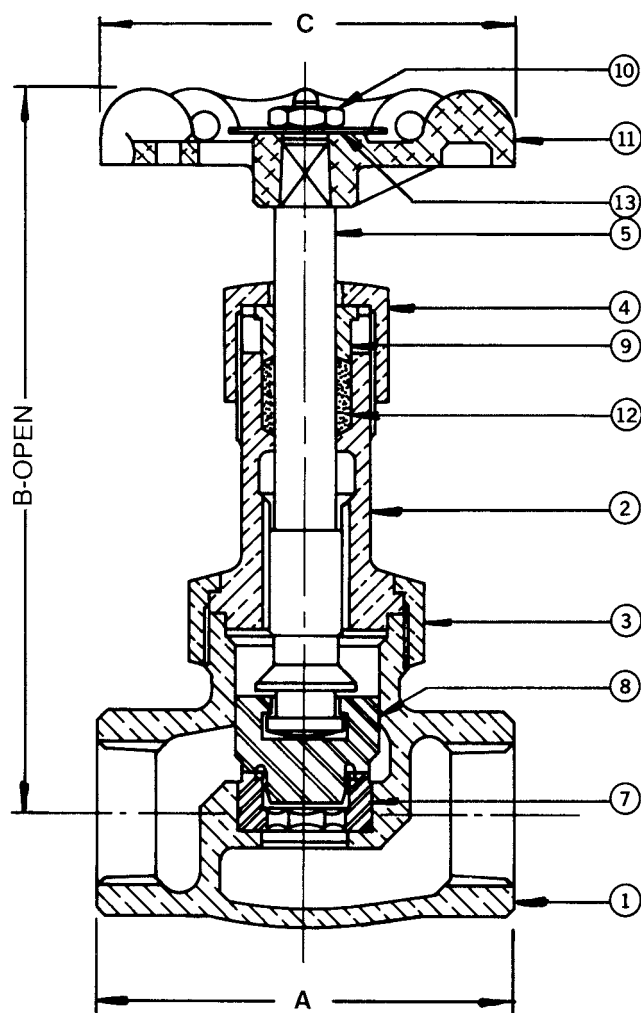
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IB434 1/4"-2"

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 ¹	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

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

DIMENSIONS - INCHES/MILLIMETERS

Units	Size	A	B	C	C _v
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	2.50 64	4.50 114	2.50 64	3.64
Inches mm	3/4	2.94 75	5.13 130	2.75 70	6.65
Inches mm	1	3.38 86	5.25 133	3.25 83	11.10
Inches mm	1 1/4	3.88 98	6.19 157	3.75 95	20.00
Inches mm	1 1/2	4.50 114	7.25 184	4.25 108	28.00
Inches mm	2	4.88 124	8.19 208	4.75 121	48.00

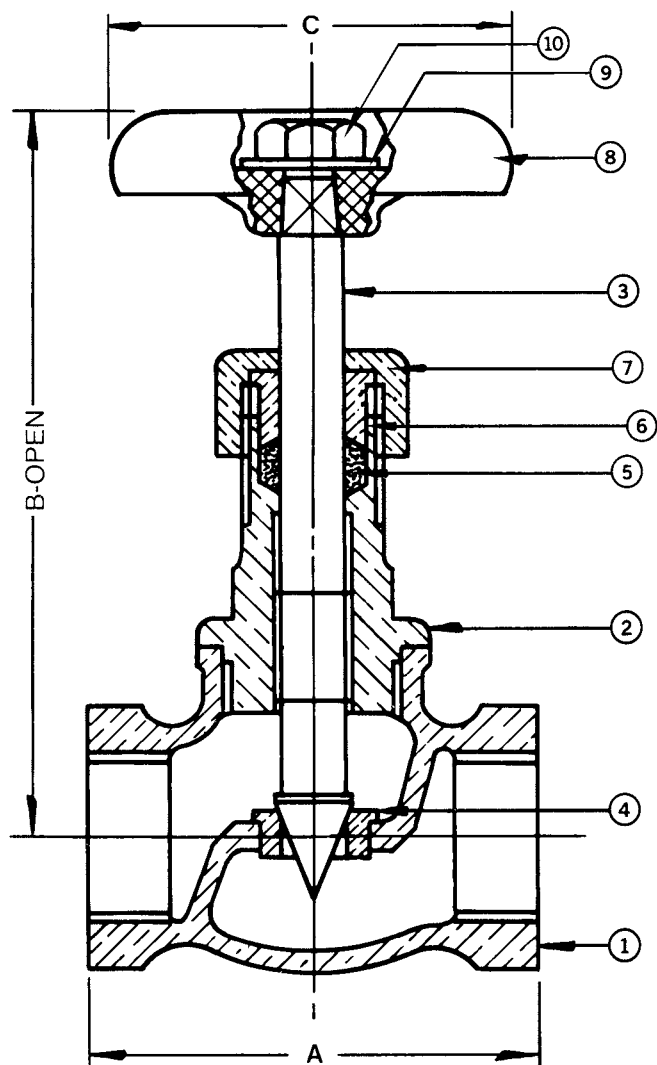
† Non-Shock

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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 Nut	Graphite	
6	Gland	Brass	ASTM B 124 C37700
7	Packing Nut	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 mm	1/8	1.63 41	3.19 81	2.00 51
Inches mm	1/4	1.63 41	3.19 81	2.00 51
Inches mm	3/8	1.81 46	3.19 81	2.00 51
Inches mm	1/2	2.31 59	3.63 92	2.00 51
Inches mm	3/4	2.56 65	3.94 100	2.25 57

† Non-Shock

Note: Not intended for use in potable water.

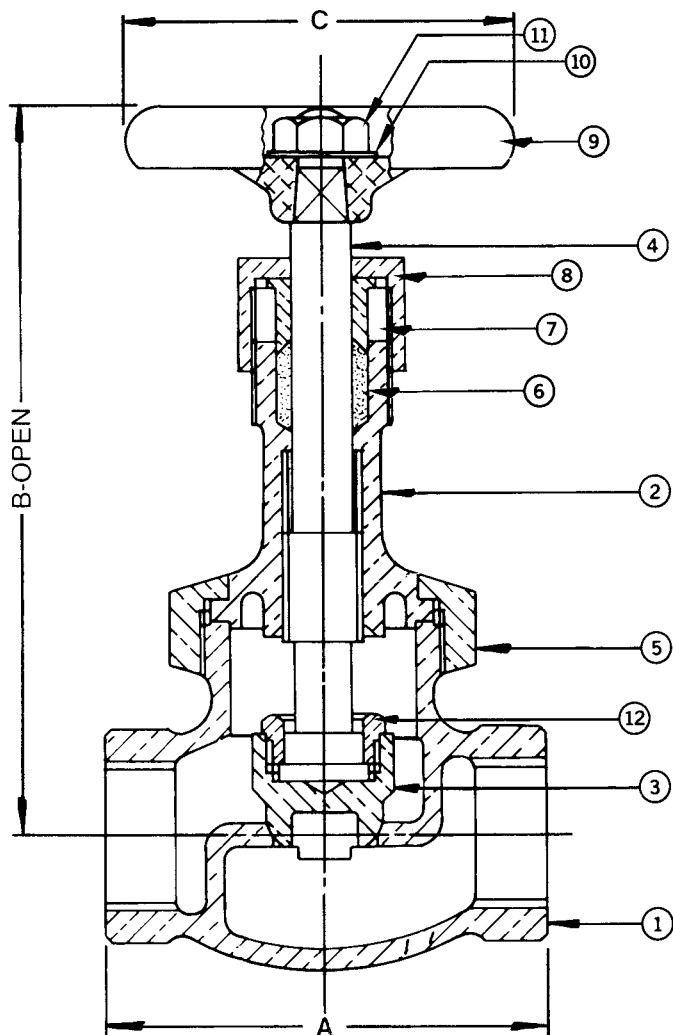
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IB412 1/4"-2"

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

Disc and stem integral on 1/4" through 1/2".



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

DIMENSIONS - INCHES/MILLIMETERS

Units	Size	A	B	C	C _v
Inches mm	1/4	2.06 52	4.00 102	2.25 57	1.16
Inches mm	3/8	1.06 52	4.00 102	2.25 57	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	3.25 83	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

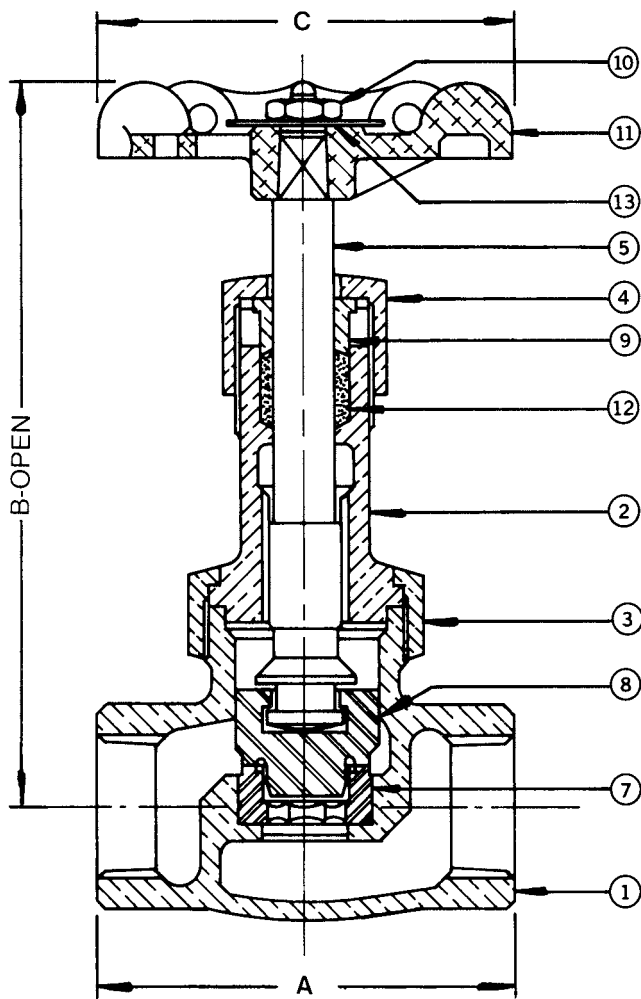
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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.



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 ¹	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

¹ 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 _v
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	2.25 57	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

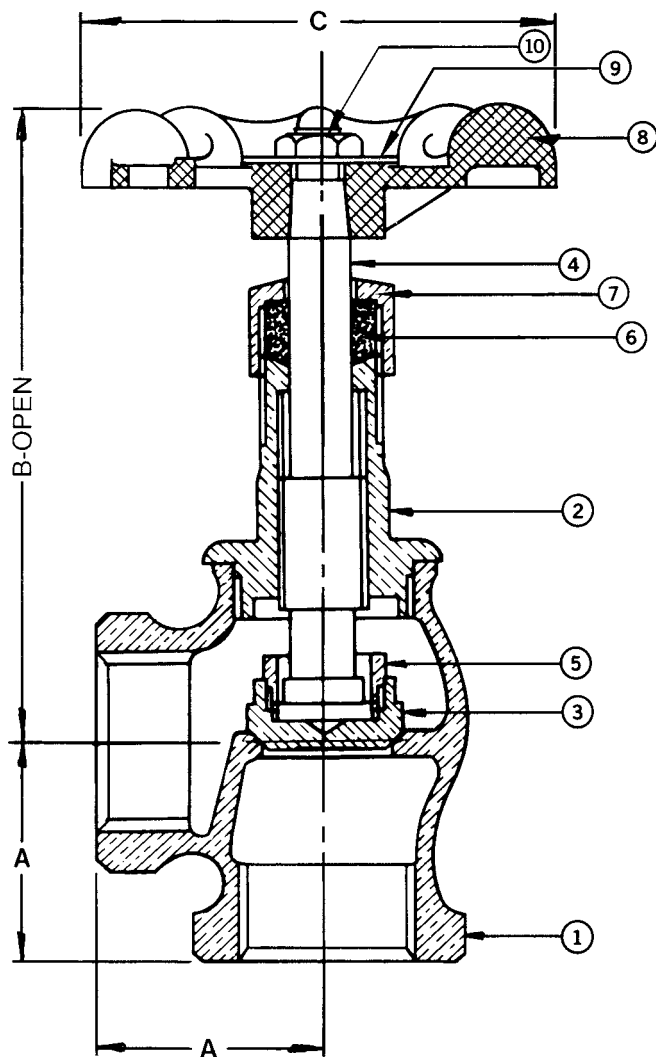
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IB463 1/4"-2 1/2"

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 _v
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	2.25 57	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	3.13 80	28.00
Inches mm	1 1/2	1.81 46	5.75 146	3.50 89	39.00
Inches mm	2	2.19 56	6.75 172	4.00 102	66.00
Inches mm	2 1/2	3.00 76	8.63 219	4.75 121	100.00

† Non-Shock

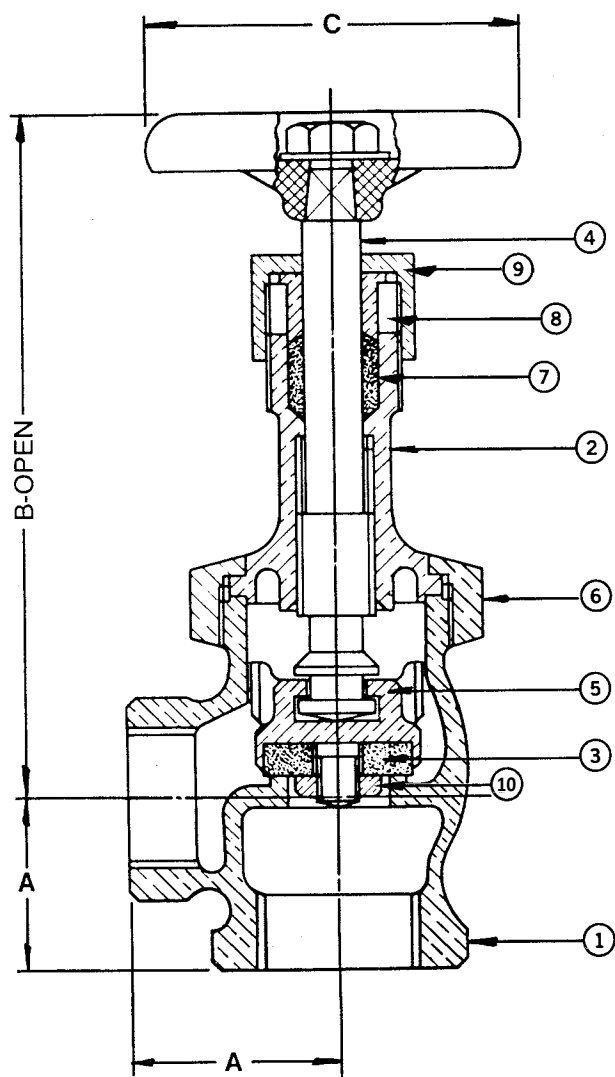
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IB454T 1/4"-2"

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 1/2" ASTM B 62 3/4" 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 _v
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	3.13 79	16.00
Inches mm	1 1/4	2.06 52	6.25 159	3.50 89	28.00
Inches mm	1 1/2	2.25 57	7.63 194	4.00 102	39.00
Inches mm	2	2.75 70	8.88 225	4.75 121	66.00

† Non-Shock

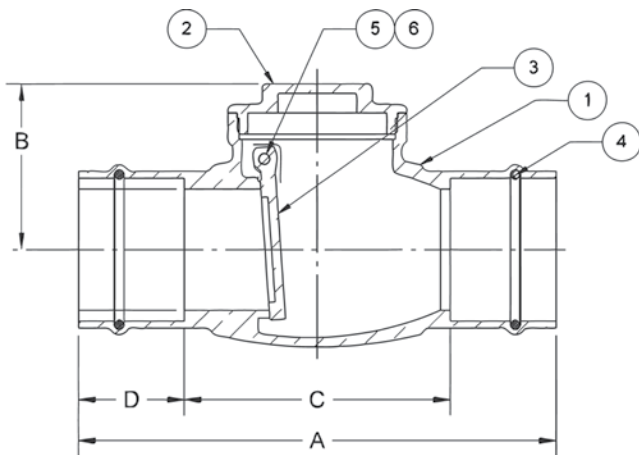
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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

969* 1/2"-2"

ULTRA PRESS™

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.

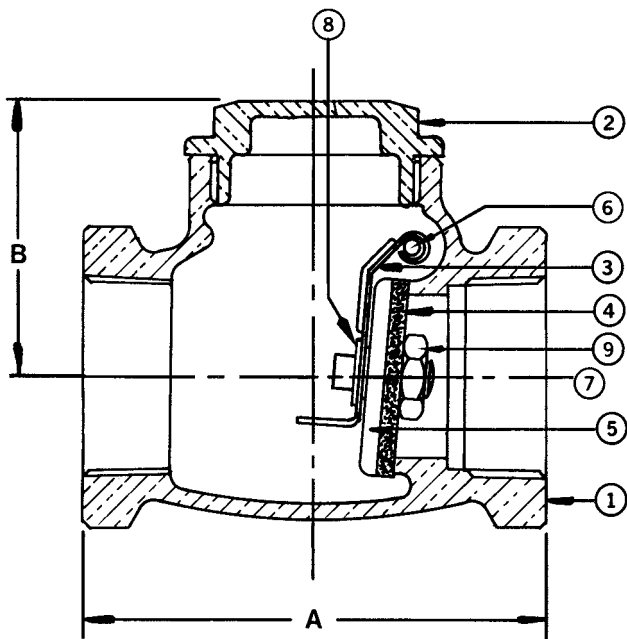
DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	A	B	C	D
Inches mm	1/2	3.35 85	1.38 35	1.7 43	0.83 21
Inches mm	3/4	3.74 95	1.43 36	1.75 45	0.99 25
Inches mm	1	4.36 111	1.74 44	2.38 61	0.99 25
Inches mm	1 1/4	4.97 126	1.99 51	2.92 74	1.02 26
Inches mm	1 1/2	6.13 156	2.28 58	3.3 84	1.42 36
Inches mm	2	7.16 182	2.48 63	3.99 101	1.59 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 _v
Inches mm	1/4	2.13 54	1.44 37	3.3
Inches mm	3/8	2.13 54	1.44 37	6.0
Inches mm	1/2	2.31 59	1.44 37	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	4.75 130	2.81 208	131.0
Inches mm	*2 1/2	6.00 152	3.63 92	192.0
Inches mm	*3	6.88 175	4.19 106	297.0

† Non-Shock

MATERIAL LIST			
No.	PART	MATERIAL	SPECIFICATION
1	Body	Bronze	ASTM B62
2	Cap	Bronze	ASTM B62
3	Lever	St. Steel-IB904	Commercial 1/2" to 2" Incl.
		Bronze-IB904	ASTM B584 2 1/2" and 3"
		Brass-IB940	ASTM B16 1/4" to 2" Incl.
4	Disc	Brass-IB904	ASTM B16 1/4" to 3/4"
			ASTM B453 1" to 1 1/2"
		Bronze-IB940	ASTM B62 2" to 3"
5	Disc Holder (509T Only)	PTFE-IB940	Commercial
		Brass	ASTM B16 1/2" to 3/4"
6	Pin	Bronze	ASTM B62 1" to 3"
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.

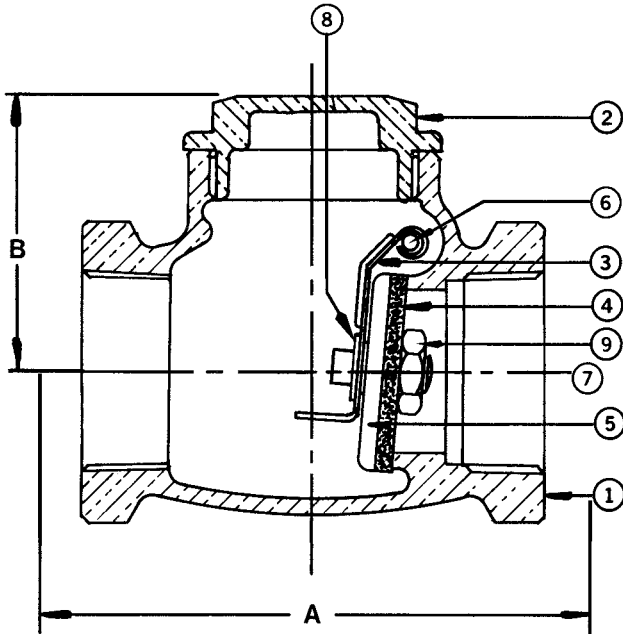
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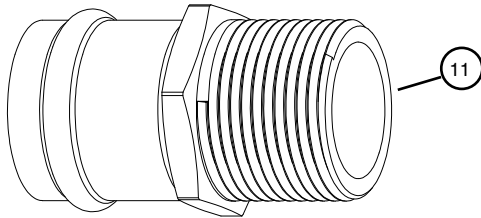
IB904/IB940 P2 1/2"-2"

ULTRA PRESS

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" Incl.
		Brass IB940 P2	ASTM B 16 1/2" to 2"
4	Disc	IB904 P2	ASTM B 16 1/4" to 2" Incl. ASTM B 453 1" to 1 1/2"
		IB940 P2	Commercial
5	Disc Holder (509T Only)	Brass	ASTM B16 1/4" to 3/4"
		Bronze	ASTM B62 1" to 3"
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

DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	STD Insertion Depth	A	B	C _v
Inches mm	1/2	0.87 22	5.31 135	1.44 37	10.0
Inches mm	3/4	0.98 166	6.21 158	1.69 43	18.0
Inches mm	1	0.98 166	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 51	1.58 40	10.75 273	2.81 208	131.00

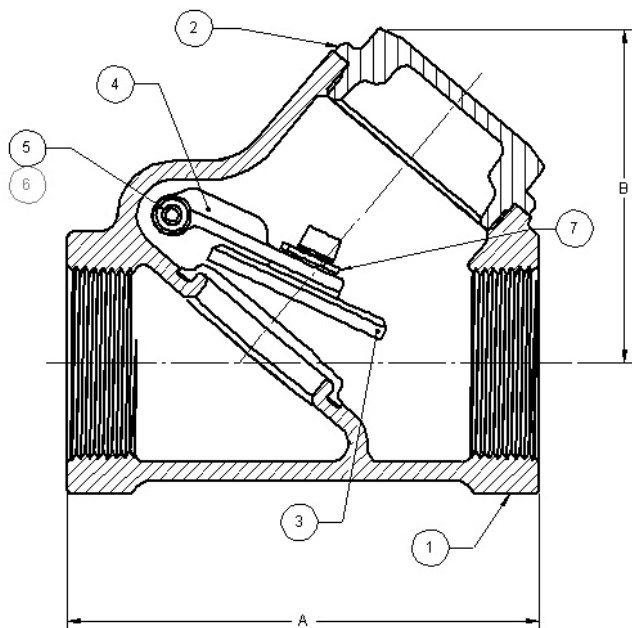
† Non-Shock

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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	ASTM B584
5	Pin	St. Steel	TYPE 303
6	Plug (not shown)	Brass	ASTM B16
7	Ring	St. Steel	TYPE 304

DIMENSIONS - INCHES/MILLIMETERS				
Units	Size	A	B	C _v
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	4.63 130	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	5.00 127	240.0

† Non-Shock

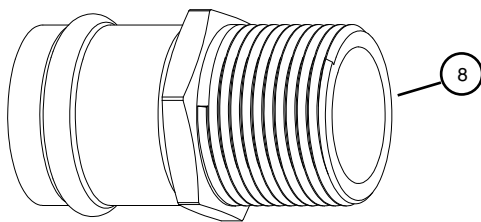
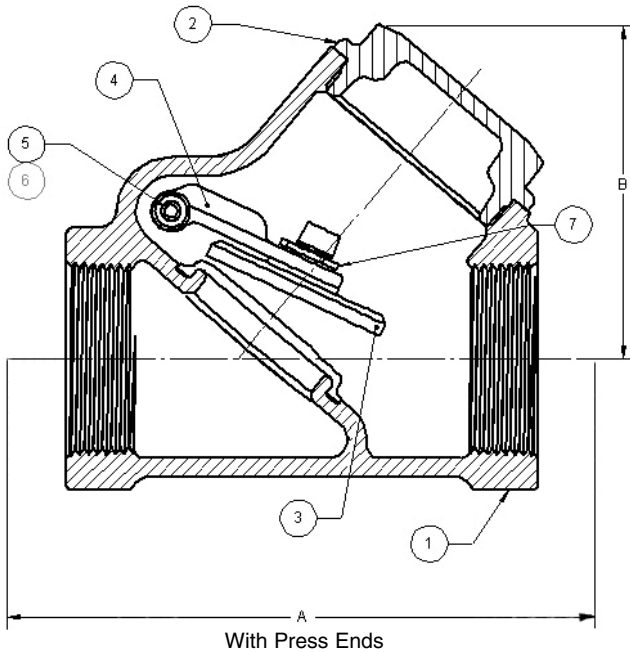
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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

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	Ring	St. Steel	TYPE 304
8	Press Adapters	Brass Fitting W/EPDM O-Ring	ASTM C27450

DIMENSIONS - INCHES/MILLIMETERS

Units	Size	STD Insertion Depth	A	B	C _v
Inches mm	1/2	0.87 22	5.63 143	1.75 45	7.2
Inches mm	3/4	0.98 166	6.58 167	1.94 49	13.0
Inches mm	1	0.98 166	7.69 195	2.50 64	22.0
Inches mm	1 1/4	1.02 26	8.45 215	3.00 76	39.00
Inches mm	1 1/2	1.42 36	9.11 231	3.31 84	56.00
Inches mm	2 51	1.58 40	11.88 302	4.00 101	92.00

† Non-Shock

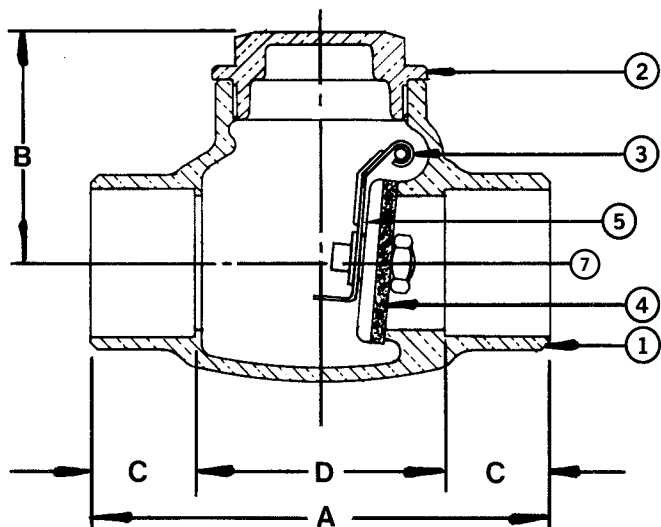
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IB912 3/8"-3"

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 _v
Inches mm	3/8	2.25 57	1.44 37	0.38 10	1.50 38.1	6.0
Inches mm	1/2	2.56 65	1.44 37	0.50 13	1.56 40	10.0
Inches mm	3/4	3.31 84	1.69 43	0.75 19	1.75 45	18.0
Inches mm	1	4.00 102	1.97 50	0.91 23	2.19 56	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	2.75 70	76.0
Inches mm	2	6.13 156	2.81 72	1.34 34	3.44 87	131.0
Inches mm	2 1/2	7.38 187	3.63 92	1.47 37	4.44 123	233.8
Inches mm	3	8.50 216	4.81 106	1.66 42	5.19 132	286.4

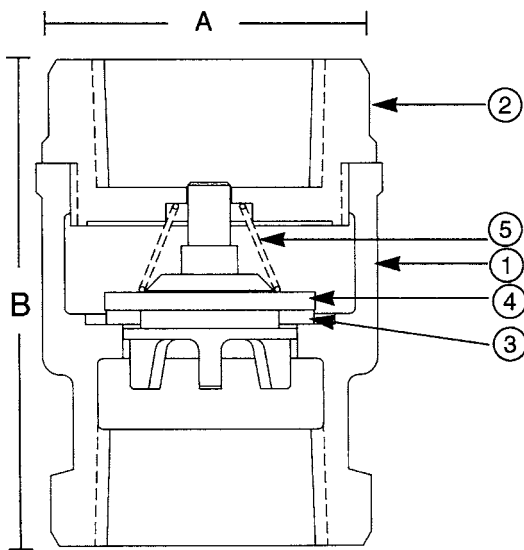
† Non-Shock

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

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 _v
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

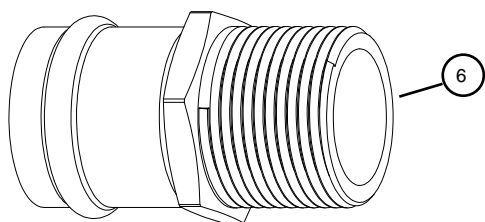
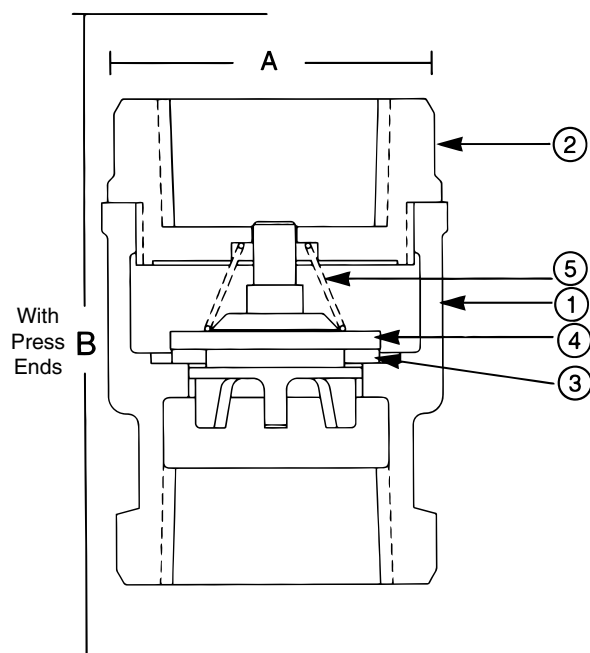
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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

943 P2 1/2"-2"

ULTRAPRESS

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

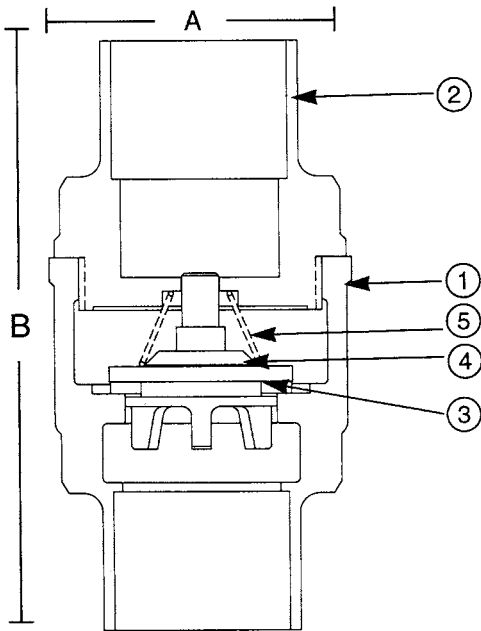
DIMENSIONS - INCHES/MILLIMETERS						
Units	Size	STD Insertion Depth	A	B	Weight	C _v
Inches mm	1/2	0.87 22	1.22 31	4.22 107	0.44	4.1
Inches mm	3/4	0.98 166	1.50 38	5.08 129	0.57	7.6
Inches mm	1	0.98 166	1.91 48	5.91 150	0.89	13.0
Inches mm	1 1/4	1.02 26	2.16 55	6.23 158	1.28	23.0
Inches mm	1 1/2	1.42 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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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

947 3/8"-2"

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



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

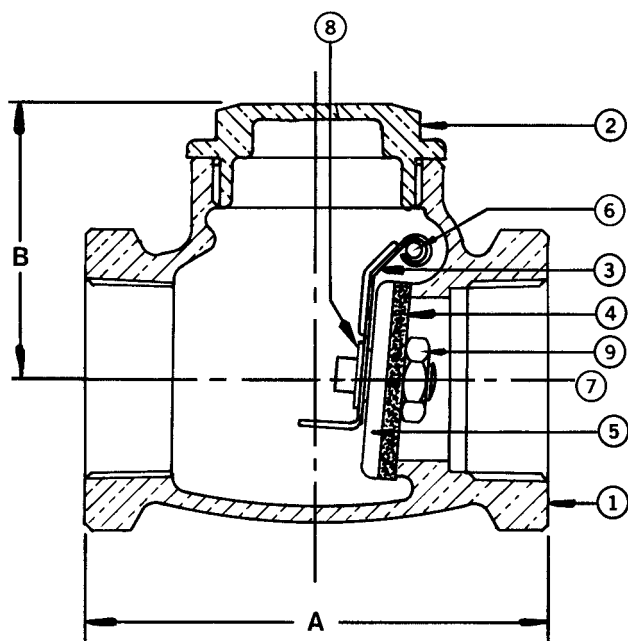
Units	Size	A	B	Weight	C _v
Inches mm	3/8	1.22 31	1.97 50	0.35	2.5
Inches mm	1/2	1.22 31	2.41 61	0.45	4.1
Inches mm	3/4	1.50 38	2.81 71	0.62	7.6
Inches mm	1	1.91 48	3.53 90	0.97	13.0
Inches mm	1 1/4	2.16 55	4.22 107	1.42	23.0
Inches mm	1 1/2	2.59 66	4.88 124	1.84	31.0
Inches mm	2	3.13 79	5.09 129	2.75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

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

IB946 1/4"-2"

Bronze Check Valve
150 SWP - 300 WOG †
Horizontal Swing • Threaded Ends
Bronze Seat • 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" Incl.
		Bronze	ASTM B62 1" to 2" Incl.
6	Pin	St. Steel	Commercial
7	Plug (not shown)	Brass	ASTM B16
8	Retaining Ring	St. Steel	Commercial
9	Disc Nut	Brass	Commercial

DIMENSIONS - INCHES/MILLIMETERS				
Units	Size	A	B	C _v
Inches mm	1/4	2.13 54	1.44 37	3.3
Inches mm	3/8	2.13 54	1.44 37	6.0
Inches mm	1/2	2.31 59	1.44 37	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	4.75 130	2.81 208	131.0

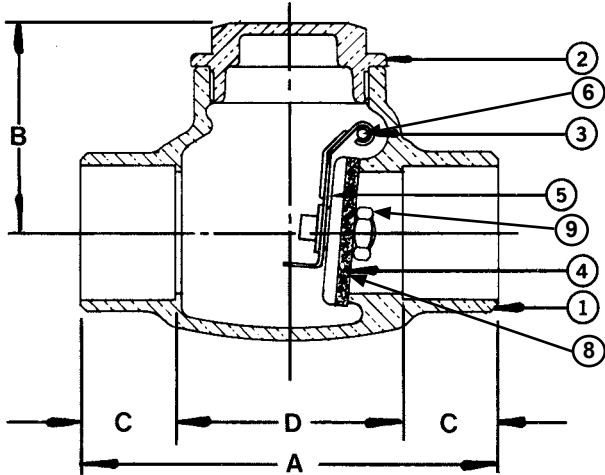
† Non-Shock

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

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 3/8" to 3/4" Incl.
		Bronze	ASTM B62 1" to 2" Incl.
6	Pin	St. Steel	Commercial
7	Plug (not shown)	Brass	ASTM B16
8	Retaining Ring	St. Steel	Commercial
9	Disc Nut	Brass	Commercial

DIMENSIONS - INCHES/MILLIMETERS					
Units	Size	A	B	C	C _v
Inches mm	1/2	2.56 65	1.44 37	0.50 13	6.0
Inches mm	3/4	3.31 84	1.69 43	0.75 19	10.0
Inches mm	1	4.00 102	1.97 50	0.91 23	18.0
Inches mm	1 1/4	4.25 108	2.16 55	0.97 25	31.0
Inches mm	1 1/2	4.94 125	2.41 61	1.09 28	54.0
Inches mm	2	6.13 130	2.81 208	1.34 208	76.0

† Non-Shock

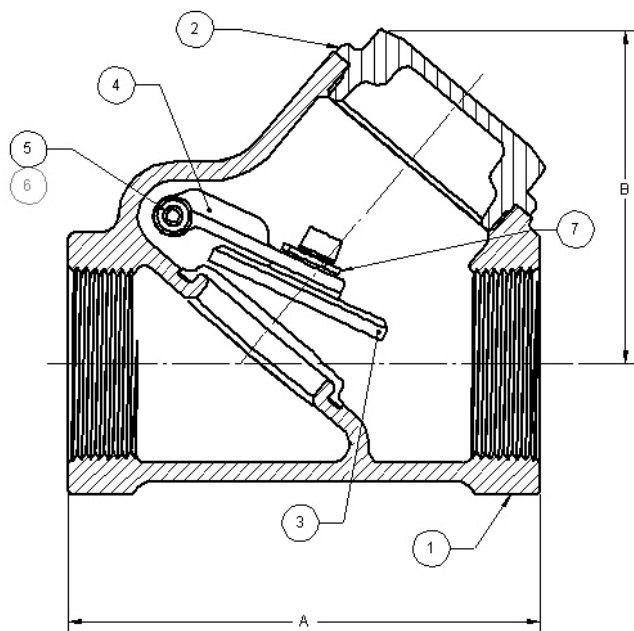
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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

515Y 1/4"-3"

Bronze Check Valve
150 SWP - 300 WOG †
Horizontal Swing • Threaded Ends
Y-Pattern • Bronze Disc
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	ASTM B584
5	Pin	St. Steel	TYPE 303
6	Plug (not shown)	Brass	ASTM B16
7	Ring	St. Steel	TYPE 304



Note: Not intended for use in potable water.

DIMENSIONS - INCHES/MILLIMETERS				
Units	Size	A	B	C _v
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	4.63 130	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	5.00 127	240.0

† Non-Shock

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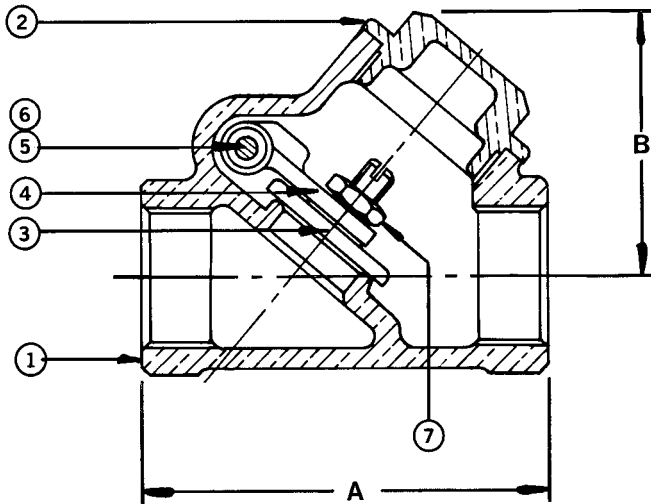
⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

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 _v
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 93.68	2.50 63.50	22.0
Inches mm	1 1/4	4.38 111	3.00 76	39.0
Inches mm	1 1/2	4.63 130	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	5.00 127	240.0

† Non-Shock

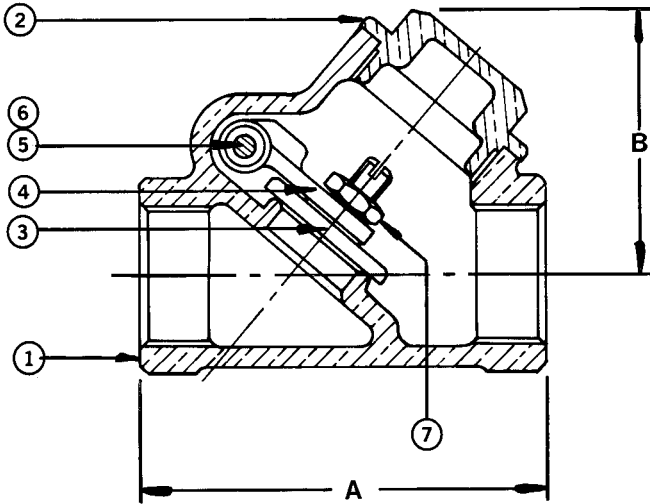
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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

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 _v
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	4.00 208	92.0
Inches mm	2 1/2	7.00 178	4.75 121	150.0
Inches mm	3	7.88 200	5.50 127	240.0

† Non-Shock

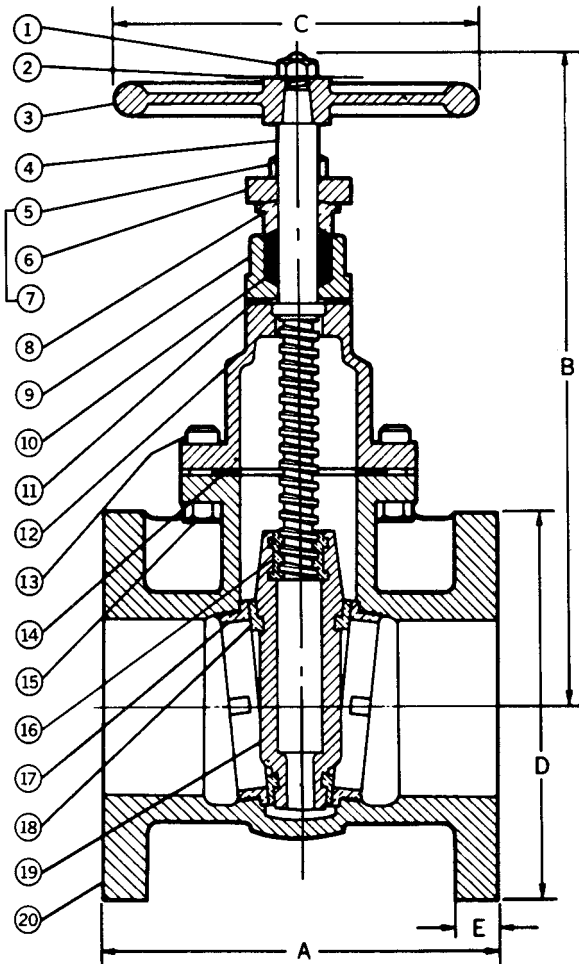
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IR1138 2"-12"

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	Graphite	
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	

¹ Sizes through 4" have bronze wedges. Sizes 5" through 12" made with cast iron wedge with bronze wedge face rings

DIMENSIONS - INCHES/MILLIMETERS

Units	Size	A	B	C	D	E	C _v
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

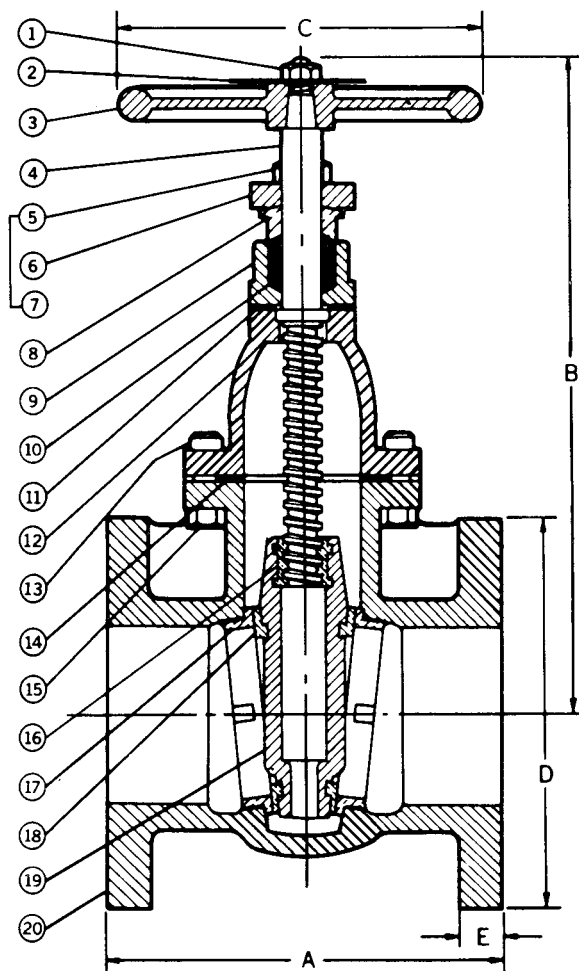
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IR1138-HI 2"-12"

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 _v
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

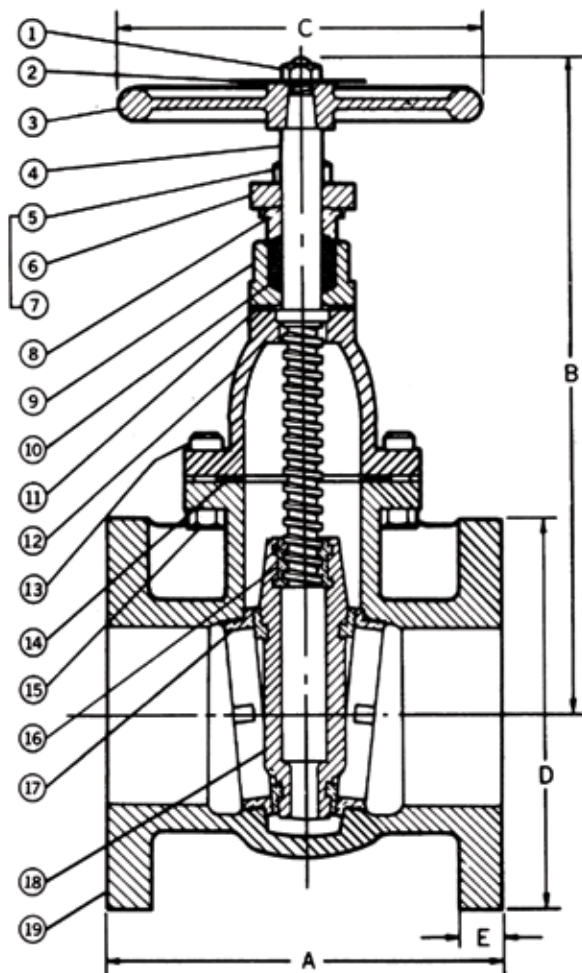
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IR1144-H 2"-12"

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 _v
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

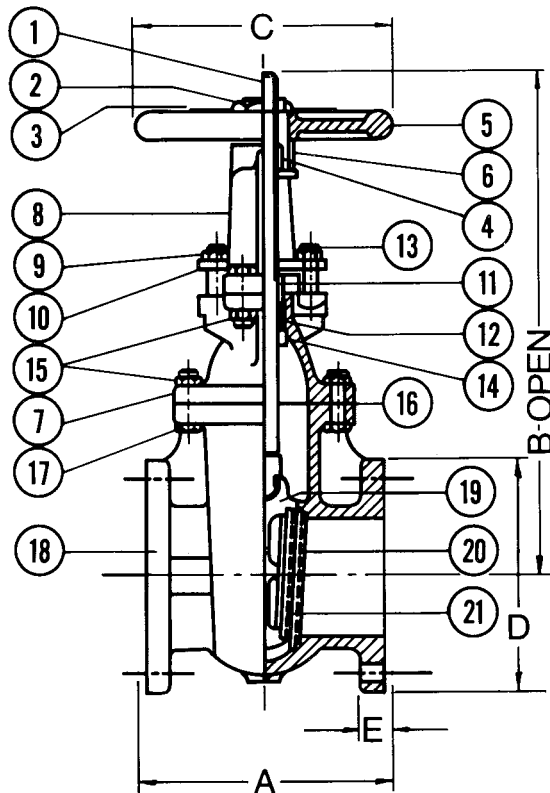
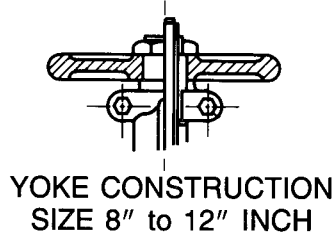
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IR1140 2"-12"

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 ²	Yoke Bushing Nut	Cast Iron	ASTM A126, Class B
7 ¹	Bonnet	Cast Iron	ASTM A126, Class B
8 ¹	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

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

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C _v
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	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	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	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

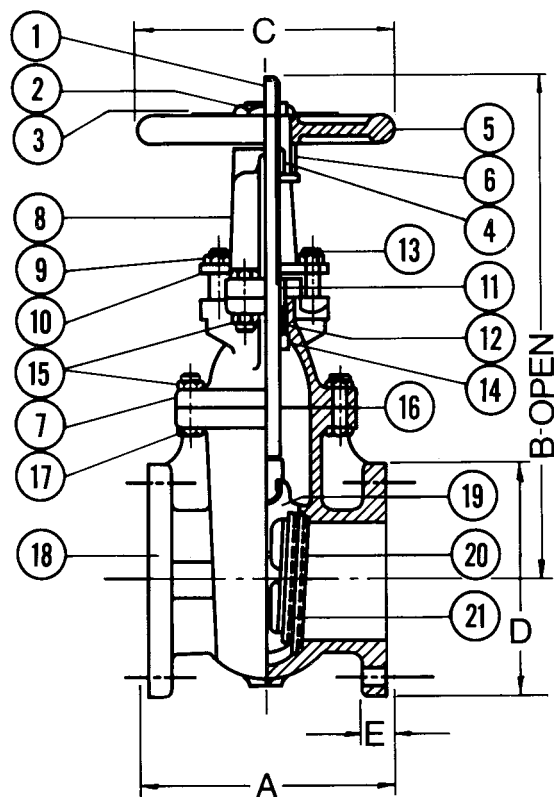
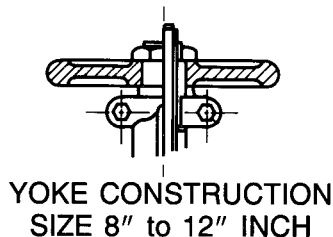
† Non-Shock

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

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 ²	Yoke Bushing Nut	Cast Iron	ASTM A126, Class B
7 ¹	Bonnet	Cast Iron	ASTM A126, Class B
8 ¹	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

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

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C _v
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

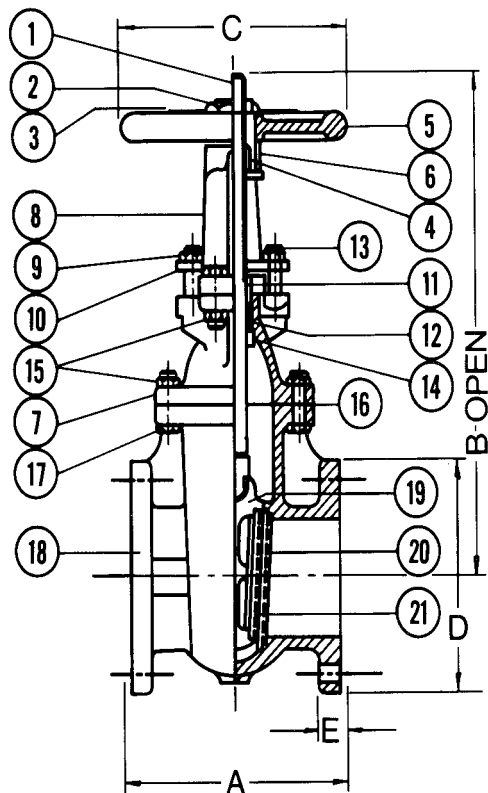
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IR1140-HI 14"-24"

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 _v
Inches	14.00	15.00	62.00	20.00	21.00	1.38	13800
mm		381	1575	508	533	35	
Inches	16.00	16.00	71.00	22.00	23.50	1.44	18375
mm		406	1803	559	570	37	
Inches	18.00	17.00	75.00	24.00	25.00	1.56	23600
mm		432	1905	610	635	40	
Inches	20.00	18.00	87.00	24.00	28.00	1.69	29600
mm		457	2210	610	699	43	
Inches	24.00	20.00	100.00	30.00	32.00	1.88	43570
mm		508	2540	762	813	48	

Suffix HI – Signifies International Valves.

† Non-Shock

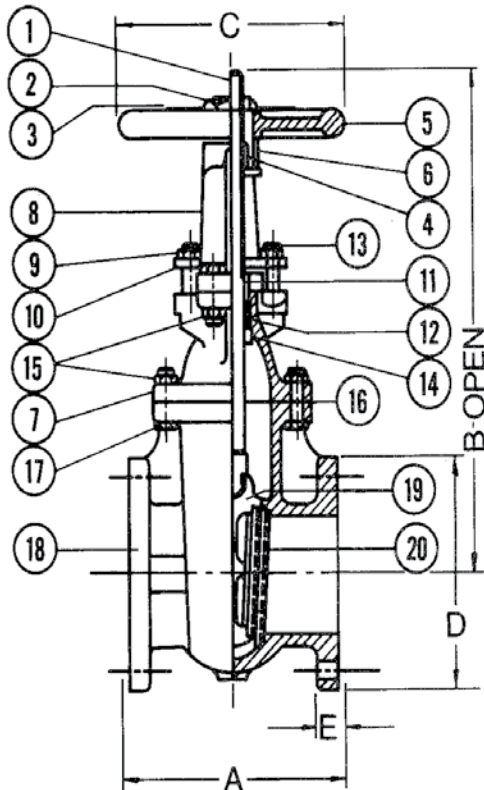
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IR1146-HI 2"-12"

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 ²	Yoke Bushing Nut	Cast Iron	ASTM A 126, Class B
7 ¹	Bonnet	Cast Iron	ASTM A 126, Class B
8 ¹	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

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

DIMENSIONS - INCHES/MILLIMETERS

Units	Size	A	B	C	D	E	C _v
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"

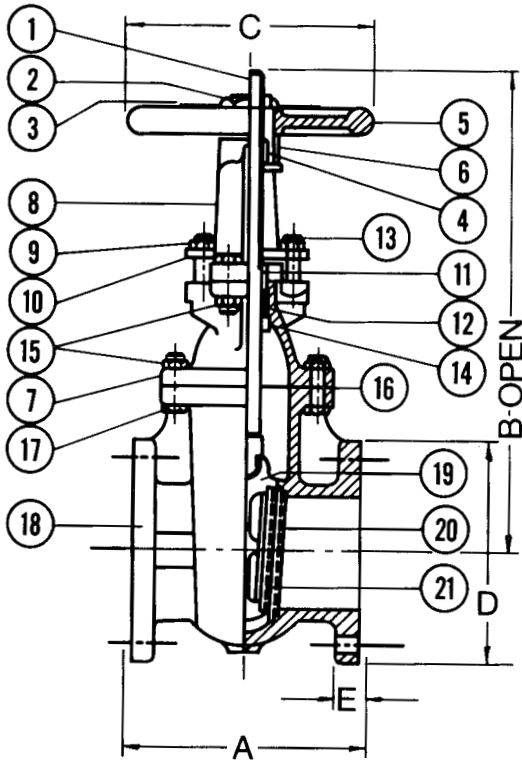
NEW YORK CITY BOARD OF STANDARDS and APPROVAL

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



Iron Gate Valve
175 WOG †

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 ²	Yoke Bushing Nut	Cast Iron	ASTM A126, Class B
7 ³	Bonnet	Cast Iron	ASTM A126, Class B
8 ³	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	Graphite	
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

¹ 8" is Brass ASTM B-16

² Sizes 2 1/2" to 6" inch only.

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

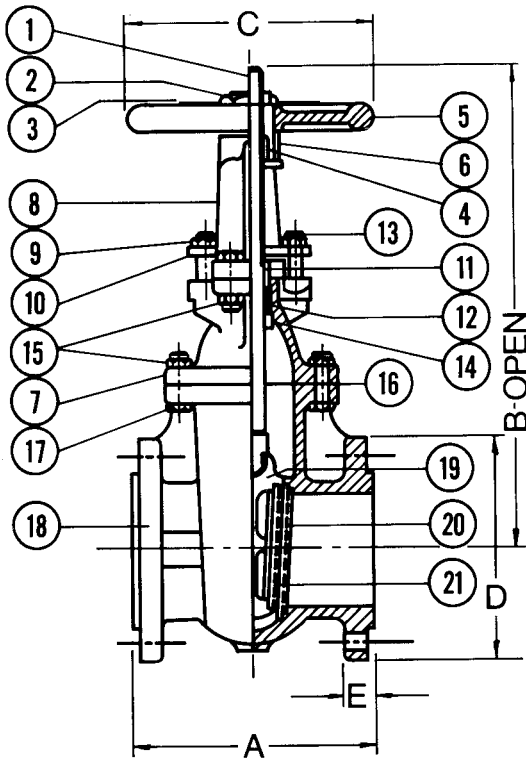
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IR330 2"-12"

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 ²	Yoke Bushing Nut	Cast Iron	ASTM A126, Class B
7 ¹	Bonnet	Cast Iron	ASTM A126, Class B
8 ¹	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	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

¹ Sizes 2" to 3" made with yoke integral with bonnet.

² Sizes 4" through 12" made with separate yoke bolted to bonnet.

DIMENSIONS - INCHES/MILLIMETERS

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

† Non-Shock

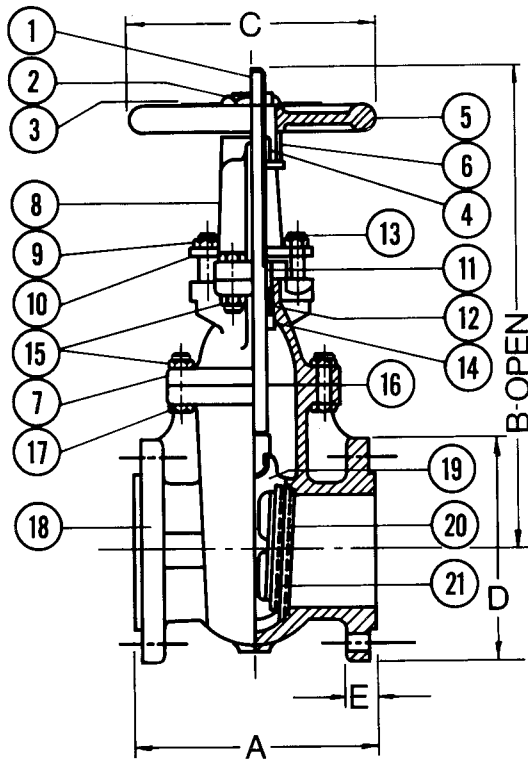
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IR330-HI 2"-12"

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 ²	Yoke Bushing Nut	Cast Iron	ASTM A126, Class B
7 ¹	Bonnet	Cast Iron	ASTM A126, Class B
8 ¹	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

¹ Sizes 2" to 3" made with yoke integral with bonnet.

² Sizes 4" through 12" made with separate yoke bolted to bonnet.

DIMENSIONS - INCHES/MILLIMETERS

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

Suffix HI – Signifies International Valves.

† Non-Shock

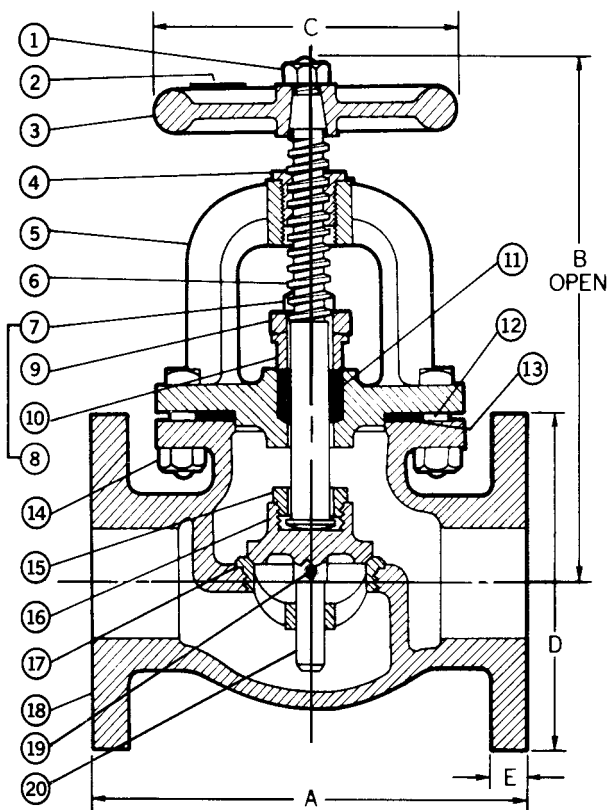
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IR116 2"-10"

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	Graphite	
14	Body Nut	Steel	ASTM A307-B
15	Swivel Nut	Bronze	ASTM B62
16 †	Disc	Bronze	ASTM B62
17	Seat Ring	Bronze	ASTM B62
18	Body	Cast Iron	ASTM A 126, Class B
19 †	Taper Pin	Steel	
20 †	Guide Pin	Brass	ASTM B16

† Sizes through 4" have bronze ASTM B62 disc. 5" through 12" have iron disc with bronze disc face rings and brass pilots.

DIMENSIONS - INCHES/MILLIMETERS							
Units	Size	A	B	C	D	E	C _v
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

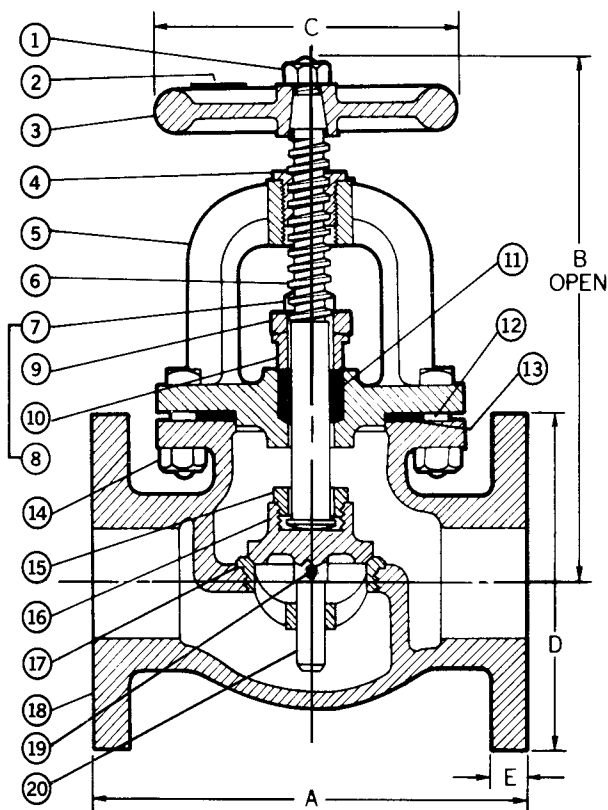
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IR116-HI 2"-10"

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

¹ Sizes through 4" have bronze ASTM B62 disc. 5" through 12" have iron disc with bronze disc face rings and brass pilots.

DIMENSIONS - INCHES/MILLIMETERS

Units	Size	A	B	C	D	E	C _v
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

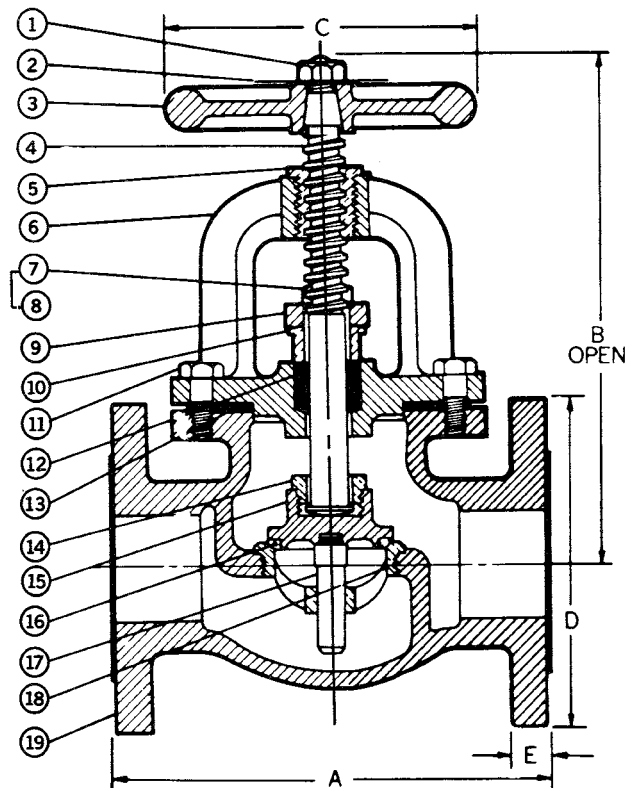
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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

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 ¹	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

¹ Sizes through 4" have all bronze discs. Sizes 5" through 8" have cast iron disc with bronze disc face rings.

DIMENSIONS - INCHES/MILLIMETERS

Units	Size	A	B	C	D	E	C _v
Inches mm	2 1/2	11.50 292	13.56 345	8.00 20	7.50	1.00	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

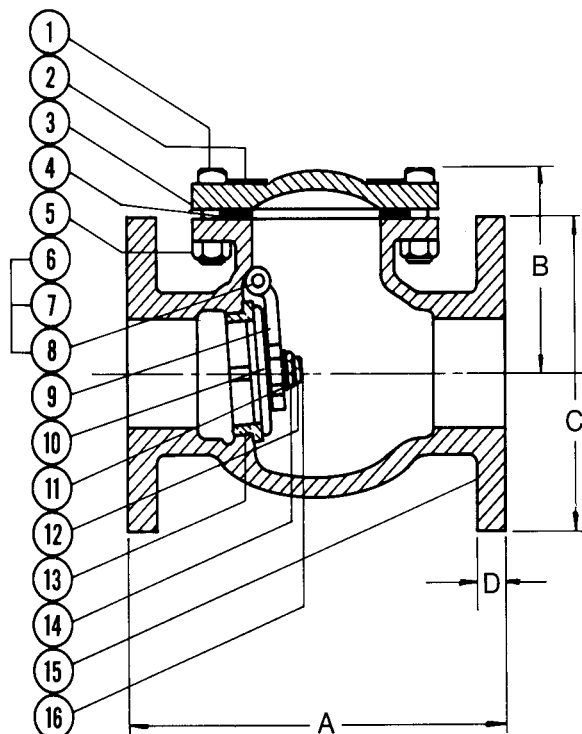
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IR1124 2"-12"

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).



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.

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 ¹	Disc	Cast Iron	ASTM A126, Class B
11	Washer	Steel	
12	Cotton 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

¹ Valve Disc-Cast iron with bronze disc face rings.

DIMENSIONS - INCHES/MILLIMETERS

Units	Size	A	B	C	D	C _v
Inches mm	2	8.00 203	3.94 100	6.00 152	0.63 16	137
Inches mm	2 1/2	8.50 216	4.50 114	7.00 178	0.69 17	221
Inches mm	3	9.50 241	5.13 130	7.50 191	0.75 19	327
Inches mm	4	11.50 292	6.13 156	9.00 229	0.94 24	605
Inches mm	5	13.00 330	6.81 173	10.00 254	0.94 24	975
Inches mm	6	14.00 356	8.00 203	11.00 279	1.00 25	1440
Inches mm	8	19.50 495	9.44 240	13.50 343	1.13 29	2670
Inches mm	10	24.50 622	12.06 306	16.00 406	1.19 30	4300
Inches mm	12	27.50 699	16.13 410	19.00 483	1.25	6350

† Non-Shock

Note: Does not meet Senate Law S.3874

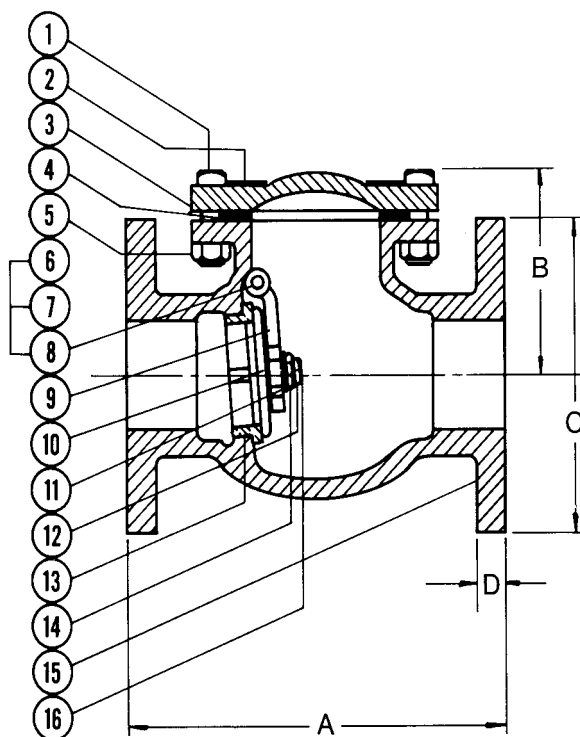
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IR1124-HI 2"-12"

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).



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.

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 1	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

¹ Valve Disc-Cast iron with bronze disc face rings.

DIMENSIONS - INCHES/MILLIMETERS

Units	Size	A	B	C	D	C _v
Inches mm	2	8.00 203	4.56 116	6.00 152	0.63 16	137
Inches mm	2 1/2	8.50 216	5.38 137	7.00 178	0.69 17	221
Inches mm	3	9.50 241	5.56 141	7.50 191	0.75 19	327
Inches mm	4	11.50 292	6.69 170	9.00 229	0.94 24	605
Inches mm	5	13.00 330	7.75 197	10.00 254	0.94 24	975
Inches mm	6	14.00 356	9.50 241	11.00 279	1.00 25	1440
Inches mm	8	19.50 495	10.38 264	13.50 343	1.13 29	2670
Inches mm	10	24.50 622	12.00 305	16.00 406	1.19 30	4300
Inches mm	12	27.50 699	13.50 343	19.00 483	1.25	6350

Suffix HI – Signifies International Valves.

† Non-Shock

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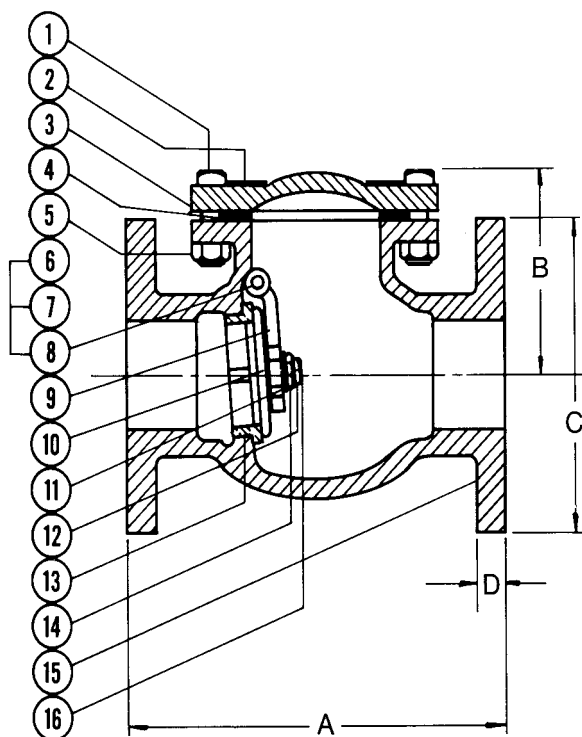
⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.



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).



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.

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 ¹	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

¹ Valve Disc-Cast iron with bronze disc face rings.

DIMENSIONS - INCHES/MILLIMETERS

Units	Size	A	B	C	D	C _v
Inches mm	14	31.00 787	15.75 400	21.00 533	1.38 35	6435
Inches mm	16	36.00 914	17.25 438	23.50 597	1.44 37	8530
Inches mm	18	36.00 914	19.00 483	25.00 635	1.56 40	11385
Inches mm	20	40.00 1016	21.88 556	27.50 699	1.69 43	14160
Inches mm	24	48.00 1219	24.44 621	32.00 813	1.88 48	20656

Suffix HI – Signifies International Valves.

† Non-Shock

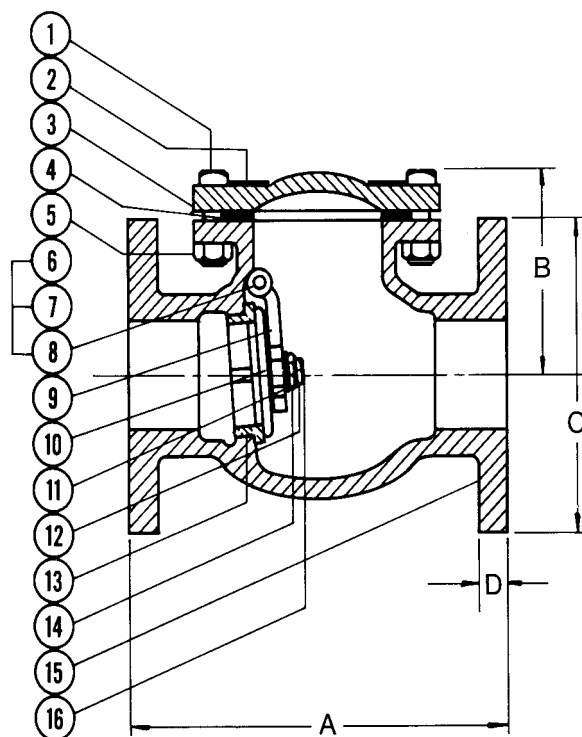
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IR1126-HI 2"-12"

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).



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.

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 _v
Inches mm	2	8.00 203	4.56 116	6.00 152	0.63 16	137
Inches mm	2 1/2	8.50 216	5.38 137	7.00 178	0.69 17	221
Inches mm	3	9.50 241	5.56 141	7.50 191	0.75 19	327
Inches mm	4	11.50 292	6.69 170	9.00 229	0.94 24	605
Inches mm	5	13.00 330	7.75 197	10.00 254	0.94 24	975
Inches mm	6	14.00 356	9.50 241	11.00 279	1.00 25	1440
Inches mm	8	19.50 495	10.38 264	13.50 343	1.13 29	2670
Inches mm	10	24.50 622	12.00 305	16.00 406	1.19 30	4300
Inches mm	12	27.50 699	13.50 343	19.00 483	1.25 32	6350

Suffix HI – Signifies International Valves.

† Non-Shock

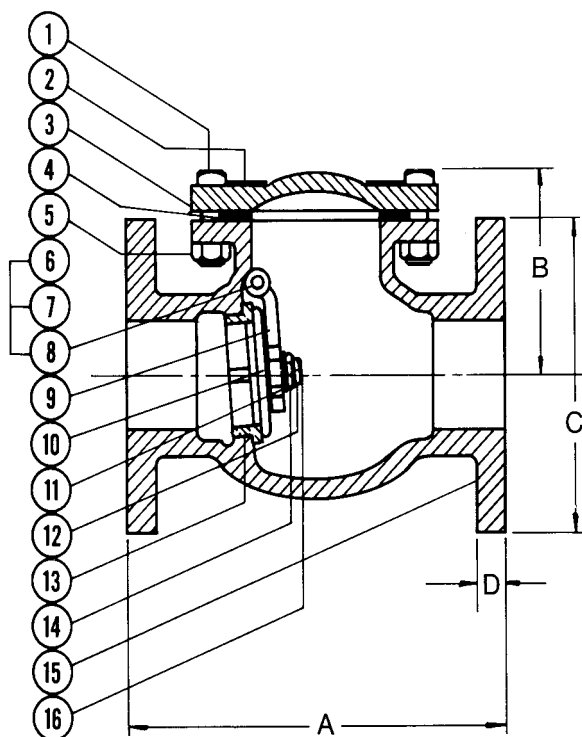
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IR1126-HI 14"-24"

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).



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.

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
Inches mm	14	31.00 787	15.75 400	21.00 533	1.38 35
Inches mm	16	36.00 914	17.25 438	23.50 597	1.44 37
Inches mm	18	36.00 914	19.00 483	25.00 635	1.56 40
Inches mm	20	40.00 1016	21.88 556	27.50 699	1.69 43
Inches mm	24	48.00 1219	24.44 621	32.00 813	1.88 48

Suffix HI – Signifies International Valves.

† Non-Shock

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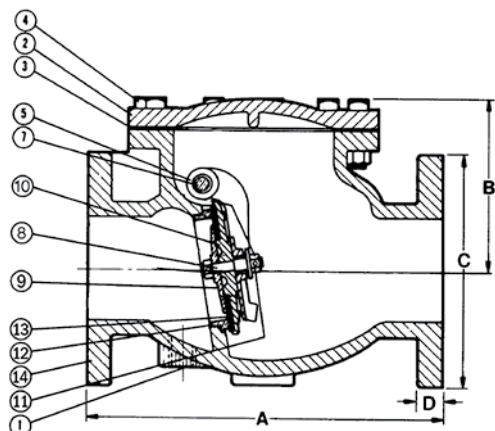
⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

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 _v
Inches mm	2 1/2	10.00 254	6.44 164	7.00 178	0.69 17	221
Inches mm	3	10.25 260	6.63 168	7.50 191	0.75 19	327
Inches mm	4	13.00 330	8.00 203	9.00 229	0.94 24	605
Inches mm	6	16.25 413	10.31 262	11.00 279	1.00 25	975
Inches mm	8	19.50 495	11.50 292	13.50 343	1.13 29	1440

† Non-Shock

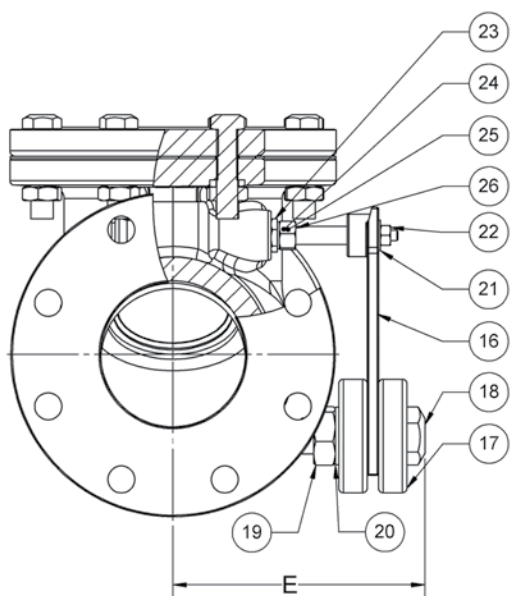
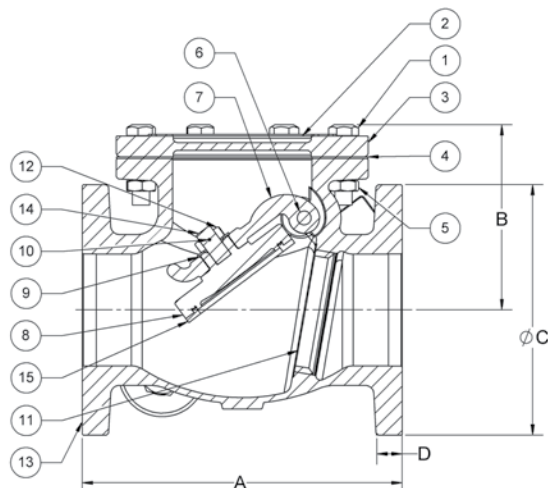
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IR1124-LW 2"-12"

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 _v
Inches mm	2	8.00 203	3.94 100	6.00 152	0.63 16	8.00 203	137
Inches mm	2 1/2	8.50 216	4.50 114	7.00 178	0.69 18	8.50 216	221
Inches mm	3	9.50 241	5.13 130	7.50 191	0.75 19	9.50 241	327
Inches mm	4	11.50 292	6.13 156	9.00 229	0.94 24	11.50 292	605
Inches mm	5	13.00 330	6.81 173	10.00 254	0.94 24	13.00 330	975
Inches mm	6	14.00 356	8.00 203	11.00 279	1.00 25	14.00 356	1440
Inches mm	8	19.50 495	9.44 240	13.50 343	1.13 29	19.50 495	2670
Inches mm	10	24.50 622	12.06 306	16.00 406	1.19 30	24.50 622	4300
Inches mm	12	27.50 699	16.13 410	19.00 483	1.25 32	27.50 699	6350

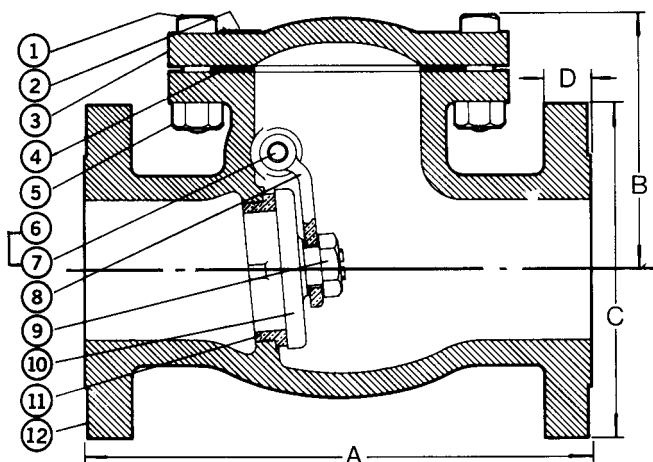
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IR322 2 1/2"-6"

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 (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	Hanger Pin	Brass	ASTM B16
8	Hanger	Cast Bronze	ASTM B62
9	Disc Nut	Cast Bronze	ASTM B62
10 ¹	Disc	Cast Bronze	ASTM B62
11	Seat Ring	Cast Bronze	ASTM B62
12	Body	Cast Iron	ASTM A126, Class B

¹ 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 _v
Inches	2 1/2	11.50	5.75	7.50	1.00	221
mm	63.50	292.10	146.05	190.50	25.40	
Inches	3	12.50	6.31	8.25	1.13	327
mm	76.20	317.50	160.35	209.55	28.58	
Inches	4	14.00	7.56	10.00	1.25	605
mm	101.60	355.60	192.10	254.00	31.75	
Inches	6	17.50	8.50	12.50	1.44	975
mm	152.40	444.50	215.90	317.50	36.53	

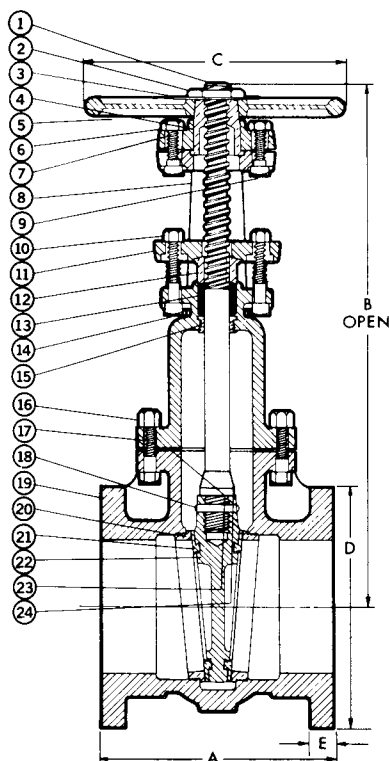
† Non-Shock

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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 ¹	Bonnet	3% Nickel Iron	
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	
20	Seat Ring		ASTM A351 CF8M
21	Wedge Face Ring		ASTM A351 CF8M
22	Wedge	3% Nickel Iron	
23	Body Gasket	Graphite Non-Asb. Fibers	
24	Stem Collar		ASTM B276-316
25	Grease Fitting (not shown)	Steel	

¹ 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 _v
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

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

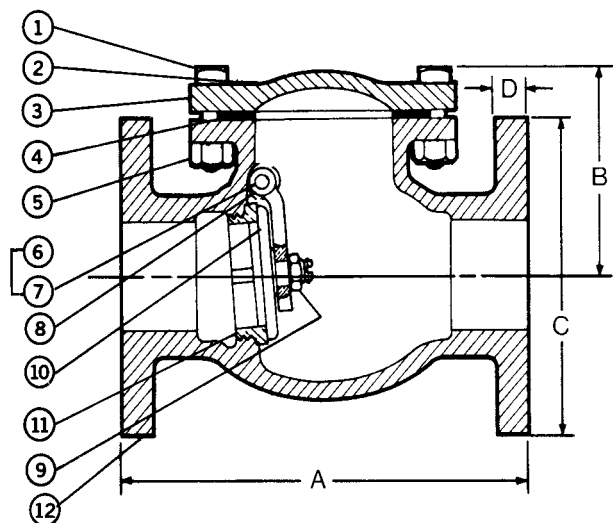
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⚠ State of California Prop 65 **WARNING:** Cancer and Reproductive Harm. For more information visit www.p65warnings.ca.gov.

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.



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.

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

DIMENSIONS - INCHES/MILLIMETERS						
Units	Size	A	B	C	D	C _v
Inches	2	8.00	3.94	6.00	0.63	137
mm		203	100	152	16	
Inches	2 1/2	8.50	4.50	7.00	0.69	221
mm		216	114	178	17	
Inches	3	9.50	5.13	7.50	0.75	327
mm		241	130	191	19	
Inches	4	11.50	6.13	9.00	0.94	605
mm		292	156	229	24	
Inches	5	13.00	6.81	10.00	0.94	975
mm		330	173	254	24	
Inches	6	14.00	8.00	11.00	1.00	1440
mm		356	203	279	25	
Inches	8	19.50	9.44	13.50	1.13	2670
mm		495	240	343	29	
Inches	10	24.50	12.06	16.00	1.19	4300
mm		622	306	406	30	
Inches	12	27.50	16.13	19.00	1.25	6350
mm		699	410	483	32	

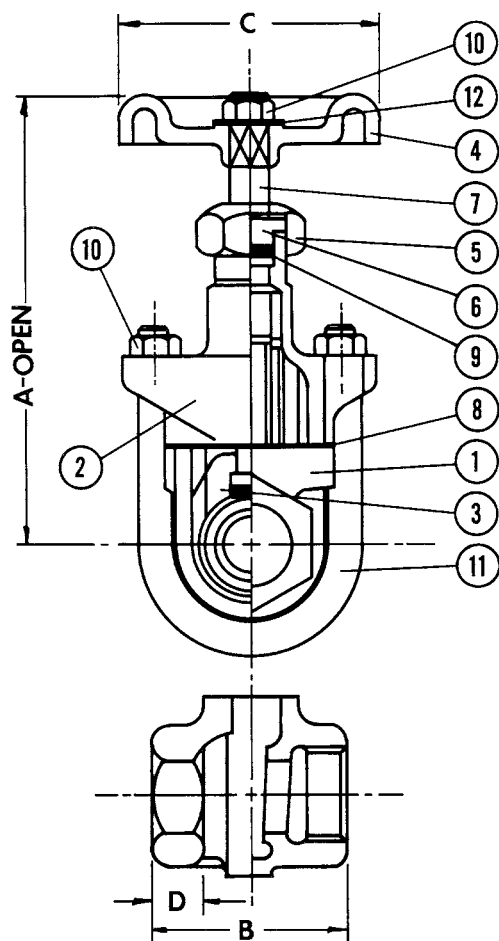
Suffix HI – Signifies International Valves.

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

Suffix HI – Signifies International Valves.

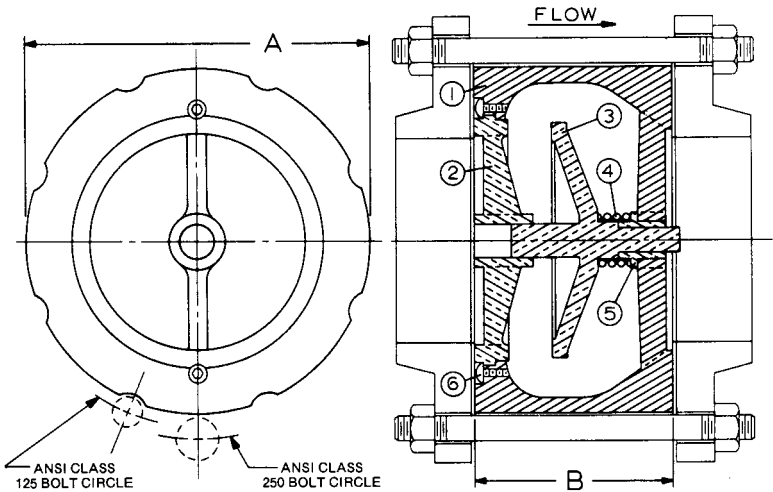
† Non-Shock

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IR9253 2"-10"

Iron Silent Check Valve
125 Class • Wafer Style
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 5 to 10 pipe diameters downstream from pump discharge or elbows to avoid flow turbulence. Valve is designed to be mated to standard steel flanges.

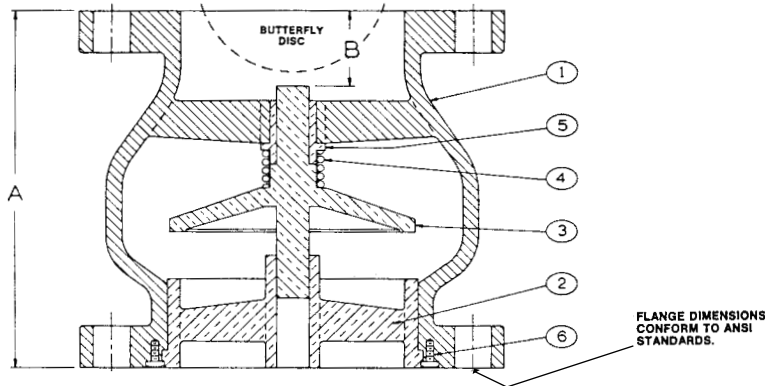
MATERIAL LIST		
No.	PART	MATERIAL
1	Body	Cast Iron, ASTM A126
2	Seat	St. Steel, TYPE 304
3	Disc	St. Steel, TYPE 304
4	Spring	St. Steel, TYPE 304
5	Bushing	St. Steel, TYPE 304
6	Screw	St. Steel, TYPE 304

DIMENSIONS - INCHES/MILLIMETERS				
Units	Size	A	B	C _v
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" are combination ANSI Class125 and 250. 8" and 10" sizes are ANSI Class 125.

IR9354 2 1/2"-42"

Iron Silent Check Valve
125 Class • Globe Style
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 3" 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: Ductile iron trim with EPDM o-ring seal available upon request. Consult factory for pricing and availability.

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.

Install 5 to 10 pipe diameters downstream from pump discharge or elbows to avoid flow turbulence. Valve is designed to be mated to standard steel flanges.

ANSI CLASS 125					ANSI CLASS 250			
Units	Size	A	B	C _v	Units	Size	A	B
Inches	2 1/2	5.50	1.00	110	Inches	2 1/2	5.50	1.00
mm		140	25		mm		140	25
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		401	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		1270.00	N/A

Max Non-Shock Working PSI 125# ANSI B16.1 Flange Rating		
	Temperature	
Size	150° F	200° F
2 1/2" - 10"	200 PSI	190 PSI

Max Non-Shock Working PSI 125# ANSI B16 Flange Rating		
	Temperature	
Size	150° F	200° F
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" - 10"	400 PSI	370 PSI

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

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