

TRANSFORMER VALVES
THE INDUSTRY STANDARD



WEIDMANN

PRODUCT APPLICATION

Electrical Apparatus Valves purchased for use in dielectric fluid-filled electrical equipment are designed, manufactured, and tested within the information provided by this product specification.

The types of valves/valve functions include Sampler, Fill, Drain, Radiator, and Engineered Products and meet the specialized electrical apparatus valve requirements of worldwide Transformer Manufacturing Customers.

SEALING TECHNOLOGY

Sealing technology, manufacturing, and testing process provide leak-free valve operation within standard product line items as well as valves that are designed to suit specific customer applications.

Sealing Technology is not only centered in the selection of the materials used over the expected operation temperatures and conditions, but also the form, location, and application of the materials selected. In summary, Engineering personnel considerations include material form, material location, appropriate MIL spec, durometer, operating environment, and temperatures.

PRODUCT TESTING

WEIDMANN Electrical Apparatus Valves are produced and 100% tested under an ISO certified Quality Management System. An employee/computer monitored Mass Flow testing process is used, with testing accuracy maintained, pass/fail, at a 0.1 CC/Minute leak rate limit, which calibrates to zero observable leakage for transformer applications. We acknowledge that the relationship between the control of raw materials, as well as the machining and manufacturing processes used in the manufacture of valves, defines the final appearance and mechanical performance. Therefore, changes in materials and processes that may affect appearance and performance are closely followed and accompanied by the appropriate notification and retesting.

FOUNDRY, MACHINING, ASSEMBLY, SEALING TERMS AND DEFINITIONS

Red Brass (CDA 83600), Yellow Brass (CDA36000), and Cast Steel (ASTM A216WCC) are used in Electrical Apparatus Valve Bodies. The Red Brass alloys used for valve bodies and components are produced by the United Brass Keystone Foundry; Yellow Brass Shapes and Cast Steel components are sourced domestically and internationally; contain lead and should not be used on potable water systems. The machining processes are performed by skilled employees using state-of-the-art equipment that is upgraded and/or replaced as machining technology advances. All machining by-products are segregated, washed, and recycled supporting environmental standards. Valve assembly and testing are performed by employees in specialized work cells; each work cell is fixtured for assembly and test of specific products using the latest ergonomic techniques.

This Product Catalog provides general information for WEIDMANN products that have been grouped into the product family, Electrical Apparatus Valves. This product Information is subject to change without notice. Typical Values shown are in English Units of Measure.

The application of electrical apparatus valves, using WEIDMANN products, is the responsibility of the electrical apparatus manufacturer.



GLOSSARY

BALL VALVES

Ball valves are used for fill and drain purposes in larger transformers. These high quality units feature a chrome ball, nested within a Teflon® seat, thus assuring a positive, leak-tight, wear-free fit.

Full opening and shut-off is accomplished with a 90 degree turn of the handle. Models may be obtained with a sampler valve pre installed and tested at the factory.

GLOBE VALVES

Globe valves are the best design for transformer applications for both fill and drain applications. The Teflon® seal closes upon its seat securely, not suffering any rotational abrasion, due to the swivel disc technology we employ. The valves may be opened and reclosed repeatedly without concern for wear. All brass valves shown, unless identified as "gate", "ball" "radiator" or "sampling device" are of the globe design.

SAMPLER VALVES

Sampler valves facilitate the need to extract samples of transformer oil for testing. They are usually mounted on the drain valve, but some models can be mounted as a plug in the end of the drain valve. They feature precise control in metering the oil into the test apparatus.

RADIATOR VALVES

Radiator valves are welded or bolted to the transformer tank, and support the radiators or heat exchangers that are then bolted on to them. They permit shipping of the transformer without the radiators attached, and also permit removal and replacement of damaged radiators. These units feature O-ring seals on the wafers and mounting faces.

NEEDLE VALVES

Needle valves are used to extract samples of gases from the top of the transformer.

OTHER VALVES

Gate valves are sometimes used in non-critical applications. They are less costly than the more secure globe designs.

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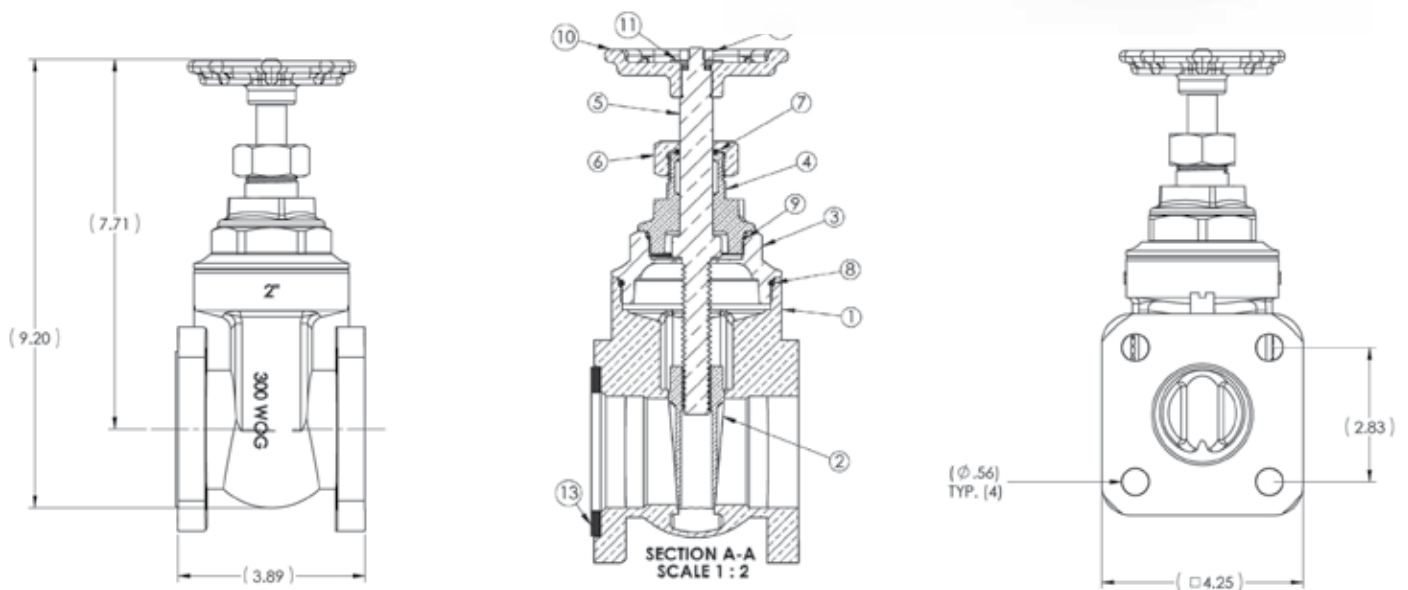
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MODEL 11 2"- 4 1/2" FLANGED GATE VALVE

- 300 WOG * 100% Pressure Tested
- O-Ring Stem Seal * Bronze Disc
- Bronze Hand Wheel
- Double-Flanged with Gasket Groove On One End
- Operating Temperature -50° C to +135° C

MATERIAL LIST

Number	Description	Material
1	BODY	BRONZE
2	GATE	BRONZE
3	ADAPTER	BRONZE
4	BONNET	BRONZE
5	STEM	BRASS
6	O-RING NUT	BRASS
7	O-RING 2-114	BUNA N NITRILE
8	O-RING 2-147	BUNA N NITRILE
9	O-RING 2-013	BUNA N NITRILE
10	HAND WHEEL	BRONZE
11	JAM NUT	BRASS
12	GASKET	NITRILE PEROXIDE CURED



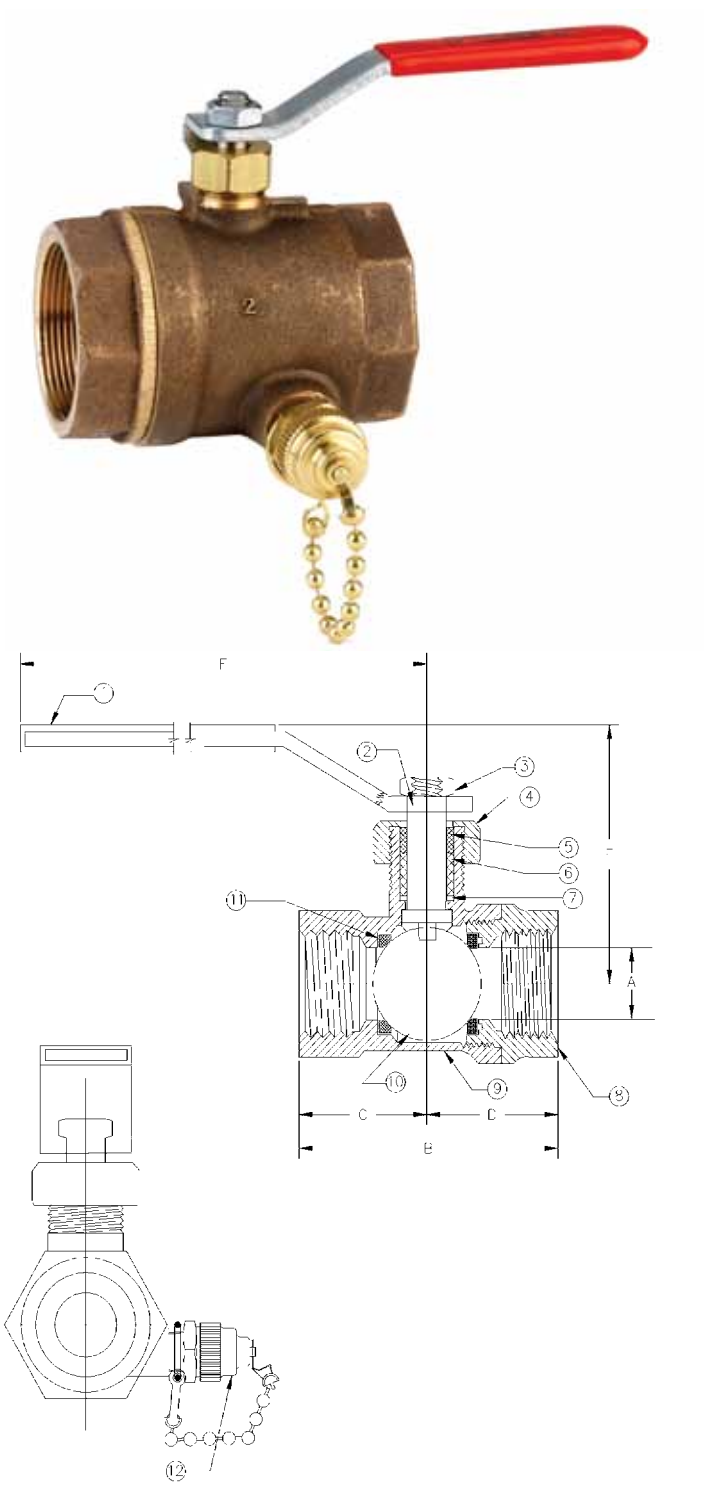
MODEL 80TSS BALL VALVE

- 400 lbs. WOG
- 100% Pressure Tested
- Blow-Out Proof Stem
- 3/8" Sampling Device
- Operating Temperature -50° C to +135°C

MATERIAL LIST

Number	Description	Material
1	Lever	Plated Steel w/ Vinyl Grip
2	Stem	Brass
3	Jam Nut	Plated Steel
4	Packing Nut	Brass
5	Packing Sleeve	Brass
6	Packing	Graphite Non-Asb.
7	Bevel Washer	Steel
8	Tail Piece	Bronze
9	Body	Bronze
10	Ball	Chrome Plated Brass
11	Nest	PTFE
12	Sampler	86 3/8" (See Specs.)

							Ship	Quan.
Size	A	B	C	D	E	F	WT. (lbs.)	PER CTN.
2"	1.50	4.41	2.14	2.27	3.56	5.47	5.00	2



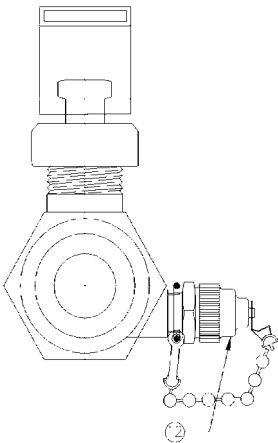
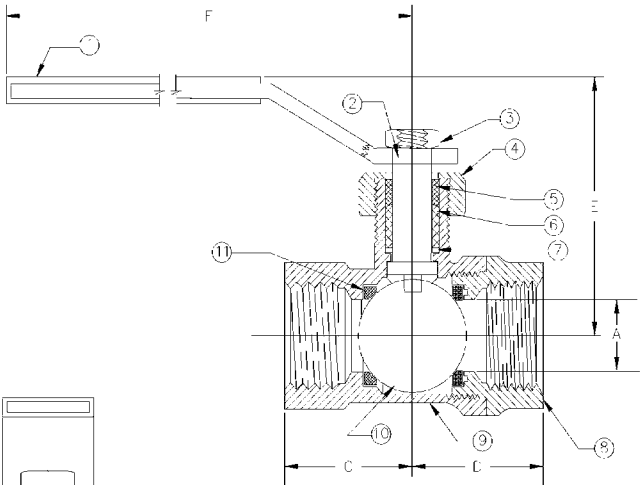
MODEL 80TSSB BALL VALVE

- 400 lbs. WOG
- 100% Pressure Tested
- Blow-Out Proof Stem
- 3/8" Sampling Device
- Operating Temperature -50° C to +135°C

MATERIAL LIST

Number	Description	Material
1	Lever	Brass w/ Vinyl Grip
2	Stem	Brass
3	Jam Nut	Plated Steel
4	Packing Nut	Brass
5	Packing Sleeve	Brass
6	Packing	Graphite Non-Asb.
7	Bevel Washer	Steel
8	Tail Piece	Bronze
9	Body	Bronze
10	Ball	Chrome Plated Brass
11	Nest	PTFE
12	Sampler	86 3/8" (See Specs.)

							Ship	Quan.
Size	A	B	C	D	E	F	WT. (lbs.)	PER CTN.
2"	1.50	4.41	2.14	2.27	3.56	5.47	5.00	2

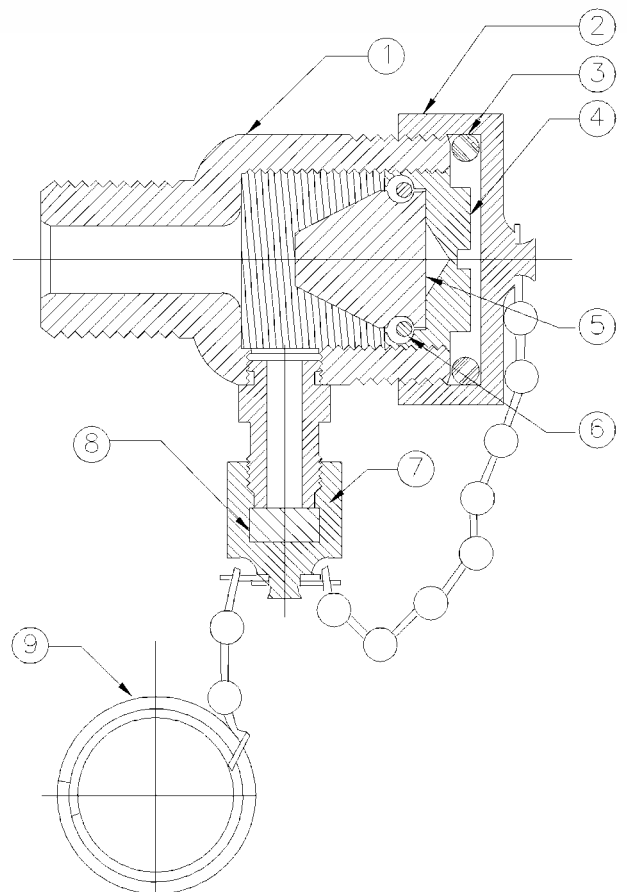


MODEL 84-3/8" SAMPLING DEVICE

- 100% Pressure Tested
- Threaded End
- Dust Proof Cap
- 5/16 – 32 Threaded Hose Connection
- Operating Temperature -50° C to +50° C

MATERIAL LIST

Number	Description	Material
1	Body	Brass
2	Cap & Chain	Brass
3	O-Ring	Buna
4	Spindle	Brass
5	Plug	PTFE
6	Spring Ring	Steel
7	Nib Cap	Brass
8	Gasket	Buna
9	Ring	Brass

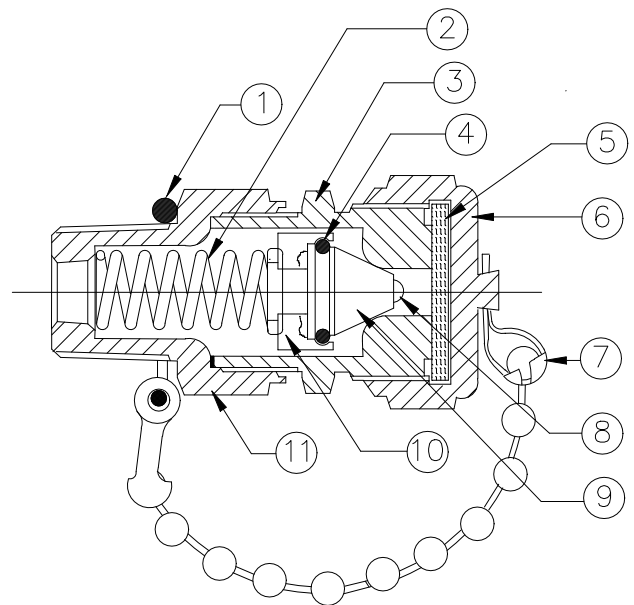


MODEL 85¹/₂" SAMPLING DEVICE

- 100% Pressure Tested
- Threaded Ends
- Dust Proof Cap
- 5/16 – 32 Threaded Hose Connection
- Operating Temperature -50° C to +135° C

MATERIAL LIST

Number	Description	Material
1	Split Ring	Brass
2	Spring	Steel
3	Body	Brass
4	Spring Ring	Steel
5	Gasket	Buna
6	Cap	Brass
7	Chain	Brass
8	Drive Screw	Brass
9	Plug	Nylon
10	Plug Holder	Brass
11	Tail Piece	Brass

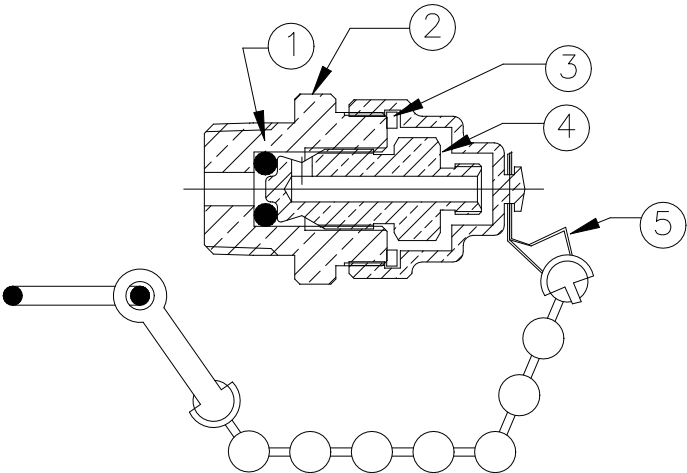


MODEL 86 3/8" NPT AND 1/2" NPT SAMPLING DEVICE

- 100% Pressure Tested
- Threaded Ends
- Dust Proof Cap
- 5/16 – 32 Threaded Hose Connection
- Operating Temperature -50° C to +135° C

MATERIAL LIST

Number	Description	Material
1	O-Ring	Buna
2	Body	Buna
3	Gasket	Buna
4	Plug	Brass
5	Cap Chain	Brass

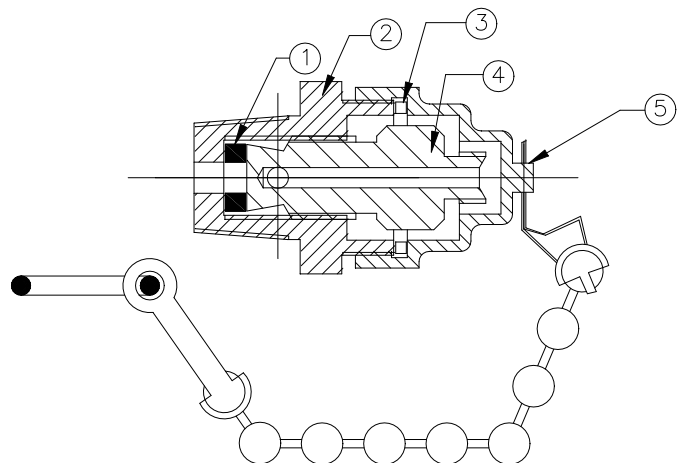


MODEL 86T 3/8" NPT AND 1/2" NPT SAMPLING DEVICE

- 100% Pressure Tested
- Threaded Ends
- Dust Proof Cap
- 5/16 – 32 Threaded Hose Connection
- Operating Temperature -50° C to +135° C

MATERIAL LIST

Number	Description	Material
1	Seal	PTFE
2	Body	Brass
3	Gasket	PTFE
4	Plunger	Brass
5	Cap Chain	Brass



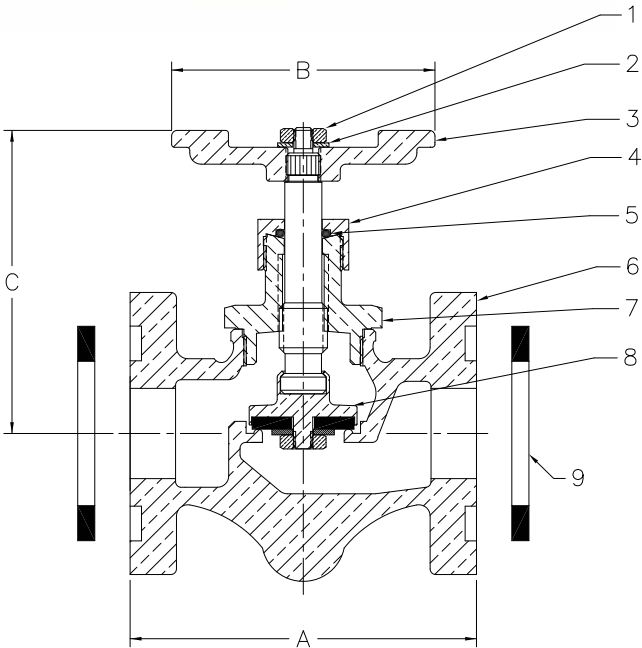
MODEL 123 DOUBLE-FLANGED FILL/DRAIN VALVE

- 300 WOG
- 100% Pressure Tested
- Rising Stem
- Swivel Disc Holder
- PTFE Disc
- Integral Seat
- Flanges Conforming to ANSI/ASME B16.24
- Operating Temperature -50° C to +135°C

MATERIAL LIST

Number	Part No.	Description	Material	Qty.
1	219709	Disc Nut	Steel	1
2	268409	Washer	Brass	1
3	267457	Hand Wheel	Brass	1
4	267660	O-Ring Nut	Brass	1
5	701110	O-Ring	Mil Buna	1
6	266596	Body	Bronze	1
7	267955	Bonnet	Brass	1
8	270348	Stem/Disc Assembly	Brass / PTFE	1
9	270570	Gasket	Mil Buna	2

Size	A	B	C (Open)	C (Closed)	Bolt Hole Circle	Bolt Hole Diameter	Weight
1"	3.80	2.90	4.00	2.27	3.50	.625	5.70
2"	5.70	3.75	5.96	5.33	4.75	0.75	14.80



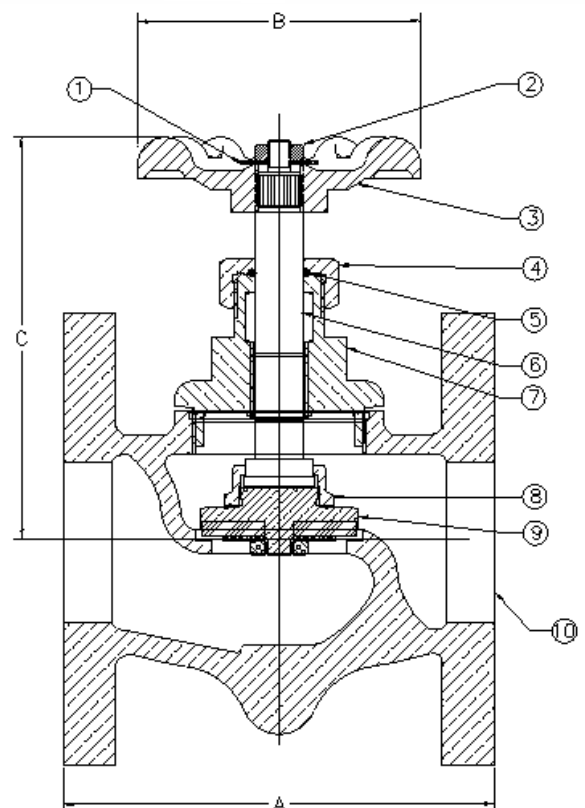
MODEL 123NG DOUBLE-FLANGED FILL/DRAIN VALVE WITHOUT GASKET GROOVES

- 300 WOG
- 100% Pressure Tested
- Rising Stem
- Swivel Disc Holder
- PTFE Disc
- Integral Seat
- Flanges Conforming to ANSI/ASME B16.24
- Operating Temperature -50° C to +135°C

MATERIAL LIST

Number	Part No.	Description	Material	Qty.
1	268417	Washer	Brass	1
2	210005	Disc Nut	Steel	1
3	267460	Hand Wheel	Bronze	1
4	267695	O-Ring Nut	Brass	1
5	701114	O-Ring	Mil Buna	1
6	267534	Stem	Brass	1
7	268011	Bonnet	Brass	1
8	268367	Coupling Nut	Brass	1
9	270173	Holder Assembly	Brass/PTFE	1
10	266613	Body	Bronze	1

Size	A	B	C (Open)	C (Closed)	Bolt Hole Circle	Bolt Hole Diameter	Weight
1"	3.80	2.90	4.00	3.5	3.125	.625	5.70
2"	5.70	3.75	5.96	5.33	4.75	0.75	14.80



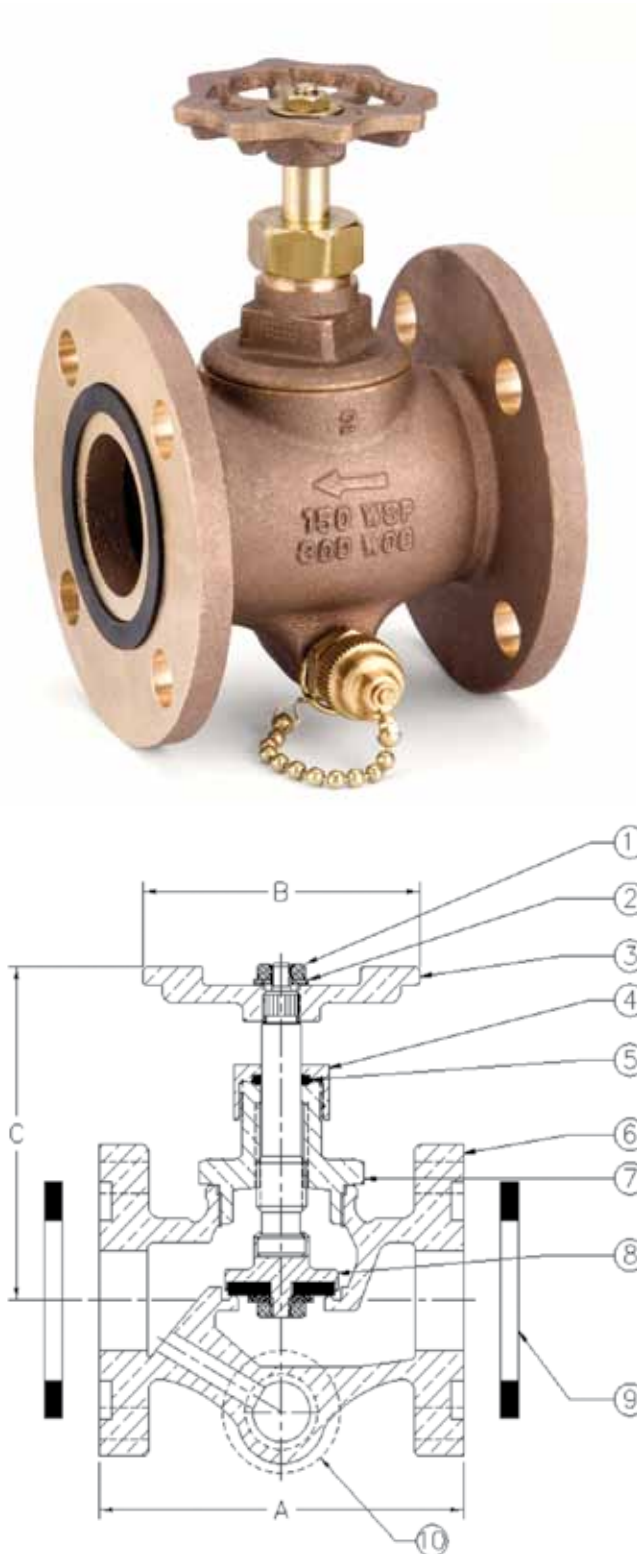
MODEL 123TSSB DOUBLE-FLANGED DRAIN/SAMPLER VALVE

- 300 WOG
- 100% Pressure Tested
- Rising Stem
- Swivel Disc Holder
- PTFE Disc
- Integral Seat with 86 3/8" Sampling Device
- Flanges Conforming to ANSI/ASME B16.24
- Operating Temperature -50° C to +135°C

MATERIAL LIST

Number	Part No.	Description	Material	Qty.
1	219709	Disc Nut	Steel	1
2	268409	Washer	Brass	1
3	267457	Hand Wheel	Brass	1
4	267660	O-Ring Nut	Brass	1
5	701110	O-Ring	Mil Buna	1
6	266596	Body	Bronze	1
7	267955	Bonnet	Brass	1
8	270348	Stem/Disc Assembly	Brass / PTFE	1
9	270570	Gasket	Mil Buna	2
10	253695	Sampling Device	Brass	1

Size	A	B	C (Open)	C (Closed)	Bolt Hole Circle	Bolt Hole Diameter	Weight
1"	3.80	2.90	4.00	3.5	3.125	.625	5.70
2"	5.70	3.75	5.96	5.33	4.75	0.75	14.80



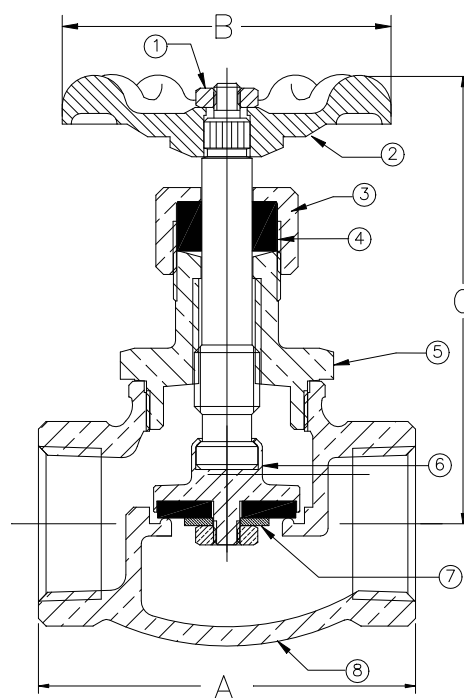
MODEL 125T FILL/DRAIN VALVE

- 200 WOG
- 100% Pressure Tested
- Threaded Ends
- Rising Stem
- Swivel Disc Holder
- PTFE Disc
- Integral Seat
- Operating Temperature -50° C to +135°C

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Hand Wheel	Zinc Die Cast or Ductile
3	Packing Nut	Brass
4	Packing	NAFG
5	Bonnet (1/4" – 1")	Brass
	Bonnet (1 1/4" – 2")	Bronze
6	Stem & Disc Holder	Brass
7	Disc	PTFE
8	Body	Bronze

Size	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A	1.75	1.84	2.22	2.47	2.97	3.56	4.06	4.69
B	1.75	1.75	2.03	2.38	2.75	3.00	3.72	3.72
C	2.88	3.13	3.38	3.50	4.25	4.75	5.50	5.50
Ship Wgt. (lbs.)	0.44	0.56	0.80	1.00	1.81	2.57	3.69	5.88
Qty. Per Ctn.	12	12	12	6	6	4	2	2
Qty. Per Case	60	60	72	60	36	24	12	12



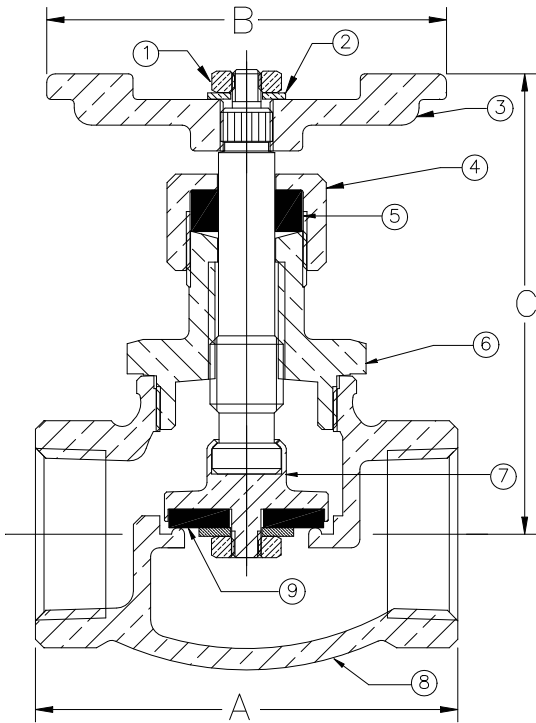
MODEL 125TB FILL/DRAIN VALVE

- 200 WOG
- 100% Pressure Tested
- Threaded Ends
- Rising Stem
- Swivel Disc Holder
- PTFE Disc
- Integral Seat
- Operating Temperature -50° C to +135°C

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Washer	Brass
3	Hand Wheel	Bronze
4	Packing Nut	Brass
5	Packing	NAFG
6	Bonnet ¼" – 1"	Brass
	Bonnet 1¼" – 2"	Bronze
7	Stem & Disc Holder	Brass
8	Body	Bronze
9	Disc	PTFE

Size	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A	1.75	1.84	2.22	2.47	2.97	3.56	4.06	4.69
B	1.75	1.75	2.03	2.38	2.75	3.00	3.72	3.72
C	2.88	3.13	3.38	3.50	4.25	4.75	5.50	5.50
Ship Wgt. (lbs.)	0.44	0.56	0.80	1.00	1.81	2.57	3.69	5.88
Qty. Per Ctn.	12	12	12	6	6	4	2	2
Qty. Per Case	60	60	72	60	36	24	12	12



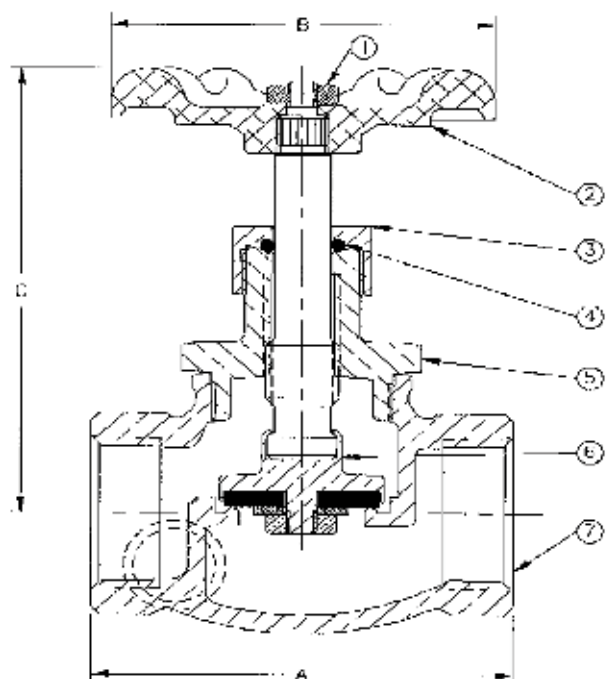
MODEL 125TS DRAIN/SAMPLER VALVE

- 200 WOG
- 100% Pressure Tested
- Threaded Ends
- Rising Stem
- PTFE Disc
- Operating Temperature -50° C to +135°C
- Sampler Port on outlet side

MATERIAL LIST

Item Number	Description	Material	Qty.
1	Jam Nut	Steel	1
2	Hand Wheel	Ductile or Zinc Die Cast	1
3	O-Ring Nut	Brass	1
4	O-Ring	Mil Buna	1
5	Bonnet 1"	Brass	1
	Bonnet 1 1/2" -2"	Bronze	
6	Stem/Disc Holder Assm.	Brass/PTFE	1
7	Body	Bronze	1

Size	A	B	C (Open)	D (Closed)	Weight
1"	3.03	2.94	4.38	4.00	2.47
1 1/2"	4.06	3.72	5.5	4.32	3.40
2"	4.66	3.56	7.25	6.50	6.40



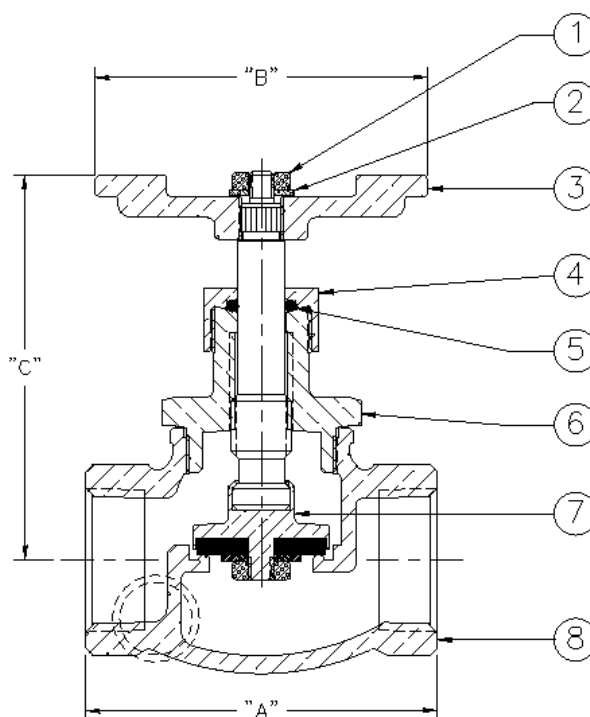
MODEL 125TSB DRAIN/SAMPLER VALVE

- 200 WOG
- 100% Pressure Tested
- Bronze Hand Wheel
- Threaded Ends
- Rising Stem
- PTFE Disc
- Operating Temperature -50° C to +135°C
- Sampler Port on outlet side

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Washer	Brass
3	Hand Wheel	Bronze
4	O-Ring Nut	Brass
5	O-Ring	Buna
6	Bonnet 1"	Brass
	Bonnet 1½" – 2"	Bronze
7	Stem & Disc Holder	Brass with PTFE Disc
8	Body	Bronze

Size	A	B	C (Open)	D (Closed)	Weight
1"	3.03	2.94	4.38	4.00	2.47
1½"	4.06	3.72	5.50	4.32	3.40
2"	4.66	3.56	7.25	6.50	6.40



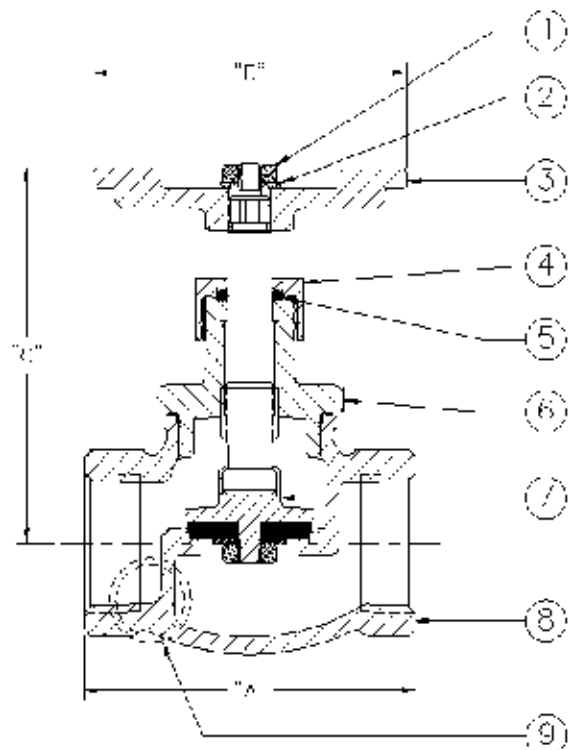
MODEL 125TSS DRAIN/SAMPLER VALVE

- 200 WOG
- 100% Pressure Tested
- Threaded Ends
- Rising Stem
- PTFE Disc
- 3/8" Sampling Device
- Operating Temperature -50° C to +135°C
- Sampler Port on outlet side

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Washer	Brass
3	Hand Wheel	Ductile or Zinc Die Cast
4	O-Ring Nut	Brass
5	O-Ring	Buna
6	Bonnet 1"	Brass
	Bonnet 1½" – 2"	Bronze
7	Stem & Disc Assembly	Brass with PTFE Disc
8	Body	Bronze
9	Sampler	86 3/8" (see specs)

Size	A	B	C (Open)	D (Closed)	Weight
1"	3.03	2.94	4.38	4.00	2.47
1½"	4.06	3.72	5.5	4.32	3.35
2"	4.66	3.56	7.25	6.50	6.28



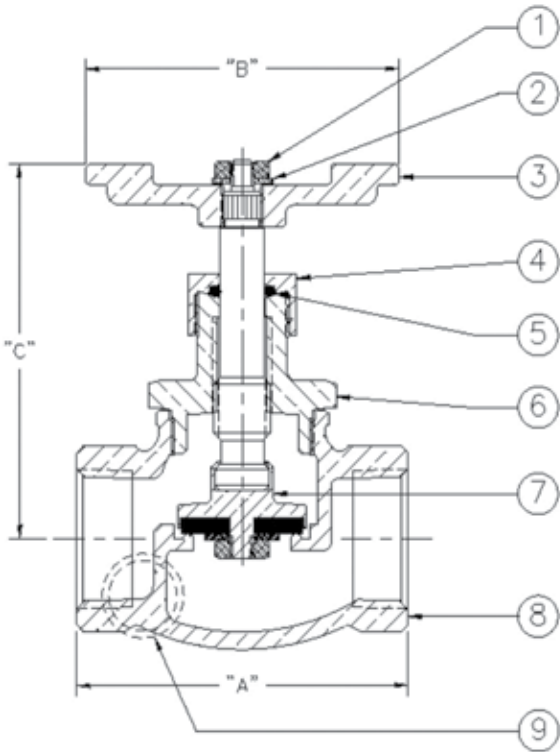
MODEL 125TSSB DRAIN/SAMPLER VALVE

- 200 WOG
- 100% Pressure Tested
- Bronze Hand Wheel
- Threaded Ends
- Rising Stem
- PTFE Disc
- 3/8" Sampling Device
- Operating Temperature -50° C to +135°C
- Sampler Port on outlet side

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Washer	Brass
3	Hand Wheel	Bronze
4	O-Ring Nut	Brass
5	O-Ring	Mil Buna
6	Bonnet 1"	Brass
	Bonnet 1 ½" – 2"	Bronze
7	Stem & Disc Assembly	Brass with PTFE Disc
8	Body	Bronze
9	Sampler	86 3/8" (see specs)

Size	A	B	C (Open)	D (Closed)	Weight
1"	3.03	2.94	4.38	4.00	2.47
1½"	4.06	3.72	5.5	4.32	4.56
2"	4.66	3.56	7.25	6.50	672



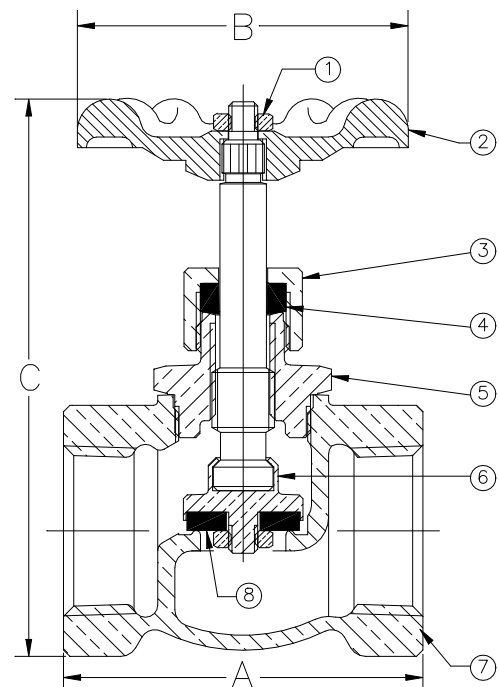
MODEL 175T FILL/DRAIN VALVE

- 200 WOG
- 100% Pressure Tested
- Threaded Ends
- Rising Stem
- Swivel Disc Holder
- PTFE Disc
- Operating Temperature -50° C to +135°C

MATERIAL LIST

Number	Description	Material
1	Nut	Brass
2	Hand Wheel	Ductile or Zinc Die Cast
3	Packing Nut	Brass
4	Packing	PTFE w/ Hypalon
5	Bonnet	Brass
6	Stem & Disc Holder	Brass
7	Body	Bronze
8	Disc	PTFE

Size	1/2"	1"
A	2.00	2.66
B	2.13	2.13
C (open)	2.66	2.94
C (closed)	2.30	2.63
Ship Wgt (lbs)	0.65	1.22



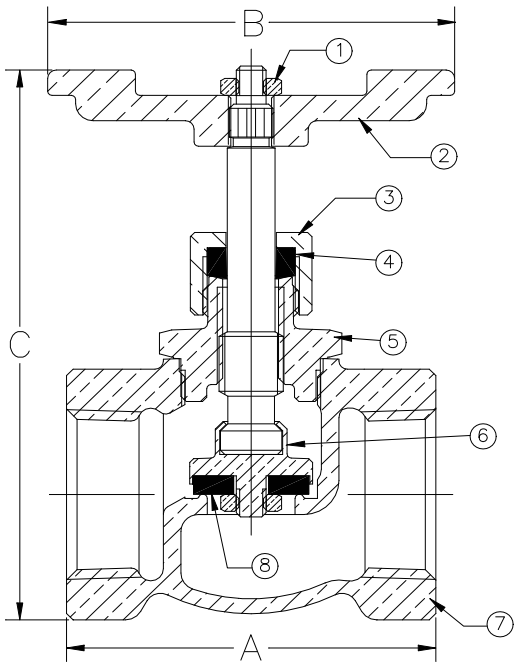
MODEL 175TB FILL/DRAIN VALVE

- 200 WOG
- 100% Pressure Tested
- Threaded Ends
- Rising Stem
- Swivel Disc Holder
- PTFE Disc
- Operating Temperature -50° C to +135°C

MATERIAL LIST

Number	Description	Material
1	Nut	Brass
2	Hand Wheel	Bronze
3	Packing Nut	Brass
4	Packing	PTFE w/ Hypalon
5	Bonnet	Brass
6	Stem & Disc Holder	Brass
7	Body	Bronze
8	Disc	PTFE

Size	1/2"	1"
A	2.00	2.66
B	2.13	2.13
C (open)	2.66	2.94
C (closed)	2.30	2.63
Ship Wgt (lbs)	0.65	1.22



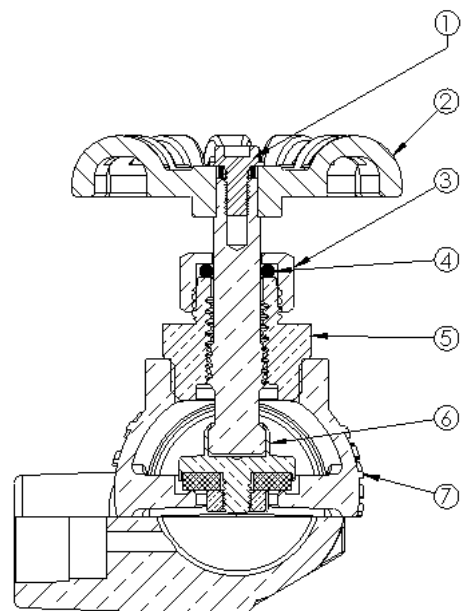
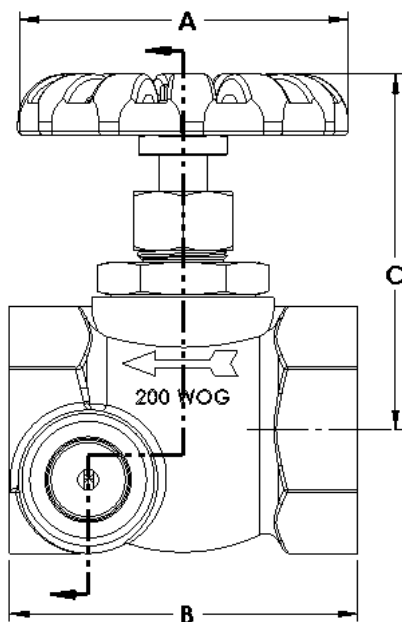
MODEL 175TS DRAIN/SAMPLER VALVE

- 200 WOG
- 100% Pressure Tested
- PTFE Disc
- Threaded Ends
- Operating Temperature -50° C to +135°C
- Sampler Port on outlet side

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Hand Wheel	Ductile or Zinc Die Cast
3	O-Ring Nut	Brass
4	O-Ring	Buna
5	Bonnet	Brass
6	Stem & Disc Assembly	Brass/PTFE Disc
7	Body	Bronze

Size	A	B	C (Open)	D (Closed)	Weight
1"	2.66	2.13	3.50	3.06	1.17



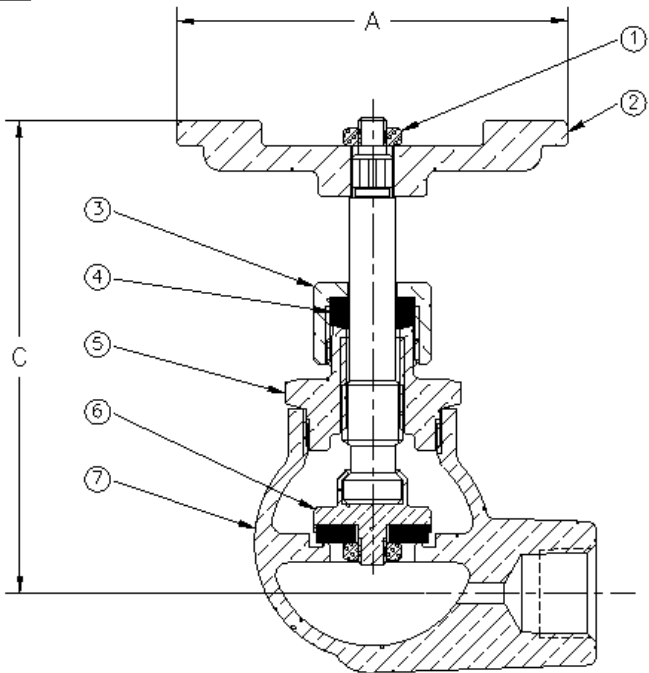
MODEL 175TSB DRAIN/SAMPLER VALVE

- 200 WOG
- 100% Pressure Tested
- PTFE Disc
- Threaded Ends
- Operating Temperature -50° C to +135°C
- Sampler Port on outlet side

MATERIAL LIST

Number	Description	Material
1	Nut	Brass
2	Hand Wheel	Bronze
3	Packing Nut	Brass
4	Packing	Graphite (Non-Asb)
5	Bonnet	Brass
6	Stem & Disc Assembly	Brass/PTFE Disc
7	Body	Bronze

Size	A	B	C (Open)	D (Closed)	Weight
1"	2.66	2.13	3.50	3.06	1.17



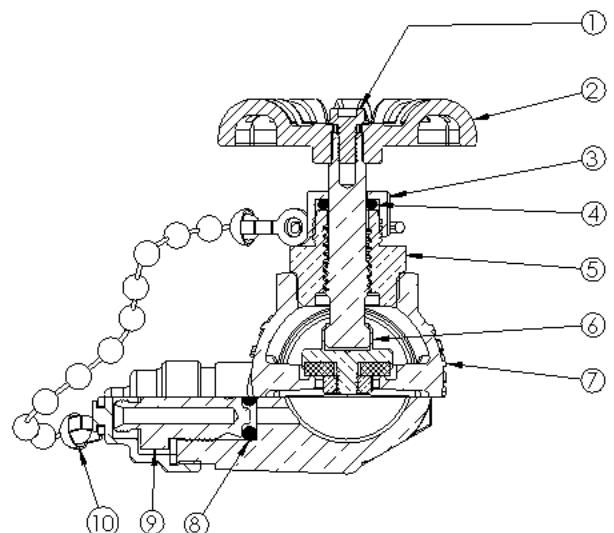
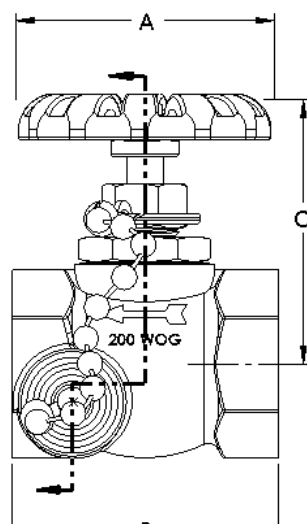
MODEL 175TSS DRAIN/SAMPLER VALVE

- 200 WOG
- 100% Pressure Tested
- PTFE Disc
- Threaded Ends
- 3/8" Sampler Device
- Operating Temperature -50° C to +135°C
- Sampler Port on outlet side

MATERIAL LIST

Number	Description	Material
1	Nut	Brass
2	Hand Wheel	Ductile or Zinc Die Cast
3	O-Ring Nut	Brass
4	O-Ring	Buna
5	Bonnet	Brass
6	Stem/Disc Assembly	Brass/PTFE
7	Body	Bronze
8	O-Ring	Buna
9	Plunger	Brass
10	Cap & Chain	Brass

Size	A	B	C (Open)	D (Closed)	Weight
1"	2.66	2.13	3.50	3.06	1.17



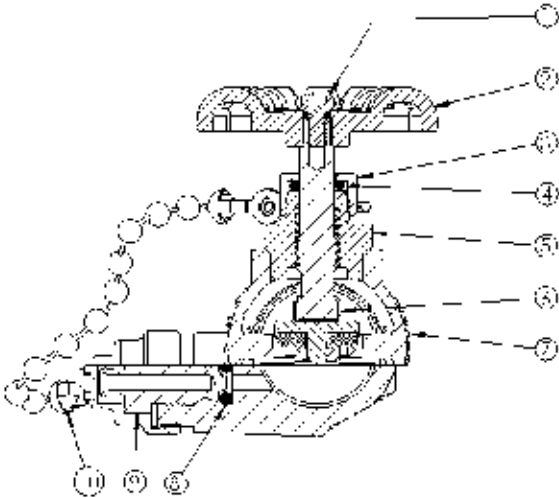
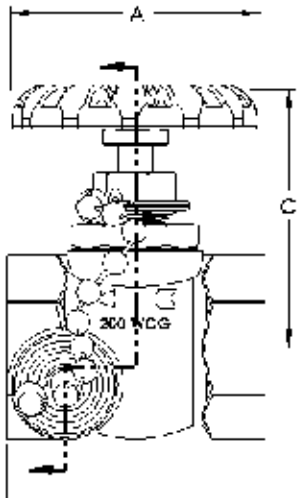
MODEL 175TSSB DRAIN/SAMPLER VALVE

- 200 WOG
- 100% Pressure Tested
- PTFE Disc
- Threaded Ends
- Bronze Hand Wheel
- 3/8" Sampler Device
- Operating Temperature -50° C to +135°C
- Sampler Port on outlet side

MATERIAL LIST

Number	Description	Material
1	Nut	Brass
2	Hand Wheel	Ductile or Zinc Die Cast
3	O-Ring Nut	Brass
4	O-Ring	Buna
5	Bonnet	Brass
6	Stem/Disc Assembly	Brass/PTFE
7	Body	Bronze
8	O-Ring	Buna
9	Plunger	Brass
10	Cap & Chain	Brass

Size	A	B	C (Open)	D (Closed)	Weight
1"	2.66	2.13	3.50	3.06	1.17



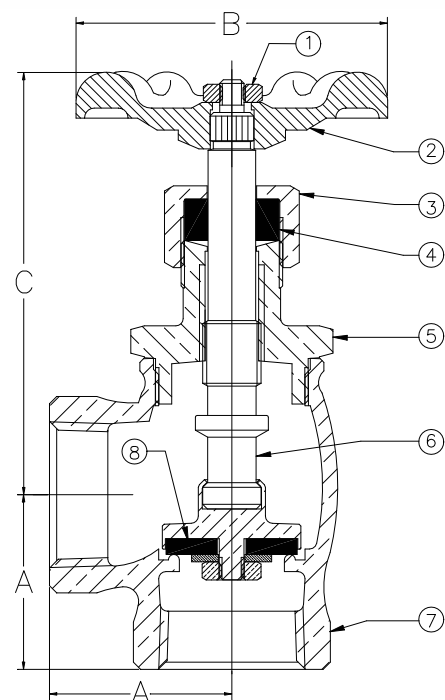
MODEL 126T FILL/DRAIN VALVE

- 200 WOG
- 100% Pressure Tested
- Threaded Ends
- Rising Stem
- Swivel Disc Holder
- PTFE Disc
- Operating Temperature -50° C to +135°C

MATERIAL LIST

Number	Description	Material
1	Nut	Brass
2	Hand Wheel	Ductile or Zinc Die Cast
3	Packing Nut	Brass
4	Packing	NAFG
5	Bonnet ¼" – 1"	Brass
	Bonnet 1¼" – 2"	Bronze
6	Stem & Disc Holder	Brass
7	Body	Bronze
8	Disc	PTFE

Size	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A	.84	.94	1.09	1.22	1.47	1.75	2.00	2.34
B	1.75	1.75	2.03	2.38	2.75	3.00	3.72	3.72
C (closed)	2.88	3.00	3.25	3.63	4.00	4.50	5.25	6.50
Ship Wgt. (lbs.)	0.44	0.56	0.69	.94	1.76	2.50	3.26	5.32
Qty. Unit Pack	12	12	12	6	6	4	2	2
Qty. Per Case	60	60	72	60	36	24	12	12



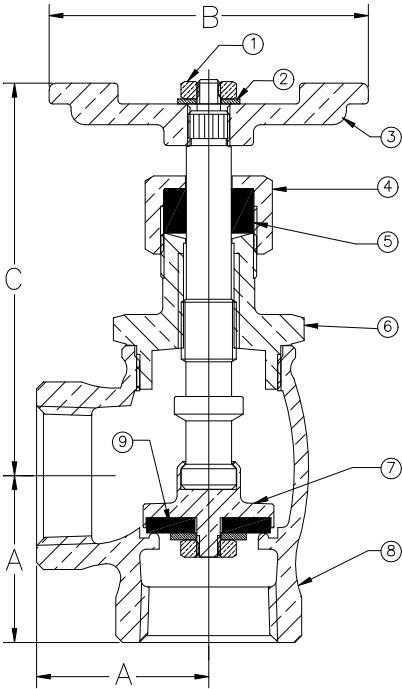
MODEL 126TB FILL/DRAIN VALVE

- 200 WOG
- 100% Pressure Tested
- Threaded Ends
- Rising Stem
- Bronze Hand Wheel
- Swivel Disc Holder
- PTFE Disc
- Operating Temperature -50° C to +135°C

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Washer	Brass
3	Hand Wheel	Bronze
4	Packing Nut	Brass
5	Packing	NAFG
6	Bonnet ¼" – 1"	Brass
	Bonnet 1¼" – 2"	Bronze
7	Stem & Disc Assembly	Brass
8	Body	Bronze
9	Disc	PTFE

Size	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A	.84	.94	1.09	1.22	1.47	1.75	2.00	2.34
B	1.75	1.75	2.03	2.38	2.75	3.00	3.72	3.72
C (closed)	2.88	3.00	3.25	3.63	4.00	4.50	5.25	6.50
Ship Wgt. (lbs.)	0.44	0.56	0.69	.94	1.76	2.50	3.26	5.32
Qty. Unit Pack	12	12	12	6	6	4	2	2
Qty. Per Case	60	60	72	60	36	24	12	12



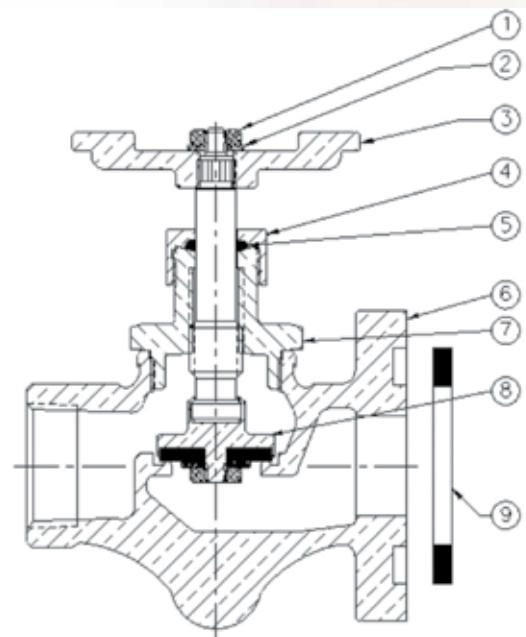
MODEL 127TB FILL/DRAIN VALVE

- 300 WOG
- 100% Pressure Tested
- Flanged Inlet x Threaded Inlet
- PTFE Disc
- Bronze Hand Wheel
- Gasket Groove
- Operating Temperature -50° C to +135°C

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Washer	Steel
3	Hand Wheel	Bronze
4	O-Ring Nut	Brass
5	O-Ring	Buna
6	Body	Bronze
7	Bonnet 1"	Brass
	Bonnet 2"	Bronze
8	Stem/Disc Assembly	Brass/PTFE Disc
9	Gasket	Buna

Size	A	B	C (Open)	C (Closed)	Bolt Circle	Bolt Hole	Weight
1"	3.81	2.94	3.75	3.31	3.13	0.625	4.10
2"	5.69	3.75	6.13	5.63	4.75	0.750	11.35



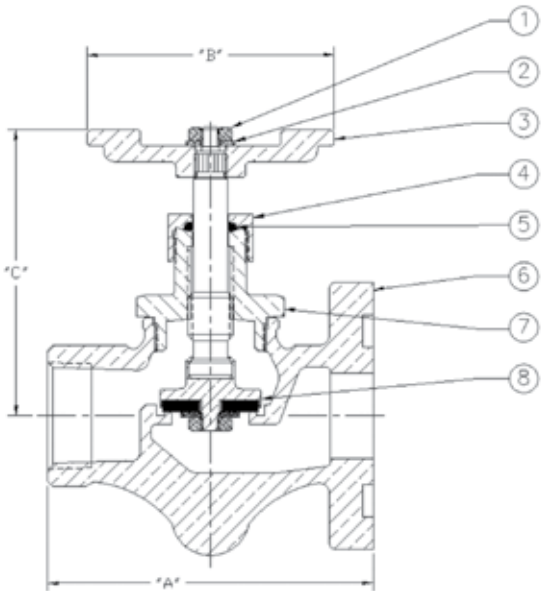
MODEL 127TBV FILL/DRAIN VALVE

- 300 WOG
- 100% Pressure Tested
- Flanged Inlet x Threaded Inlet
- PTFE Disc
- FKM Stem O-Ring
- Bronze Hand Wheel
- Gasket Groove
- Special 7/16" Bolt Holes in Flange
- Operating Temperature -50° C to +135°C
- Contains a Viton seal

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Washer	Steel
3	Hand Wheel	Bronze
4	O-Ring Nut	Brass
5	O-Ring	FKM
6	Body	Bronze
7	Bonnet 1"	Brass
	Bonnet 2"	Bronze
8	Stem & Disc Assembly	Brass w/PTFE Disc

Size	A	B	C (Open)	C (Closed)	Bolt Circle	Bolt Hole	Weight
1"	3.81	2.94	3.75	3.31	3.13	0.625	4.10
2"	5.69	3.75	6.13	5.63	4.75	0.750	11.35



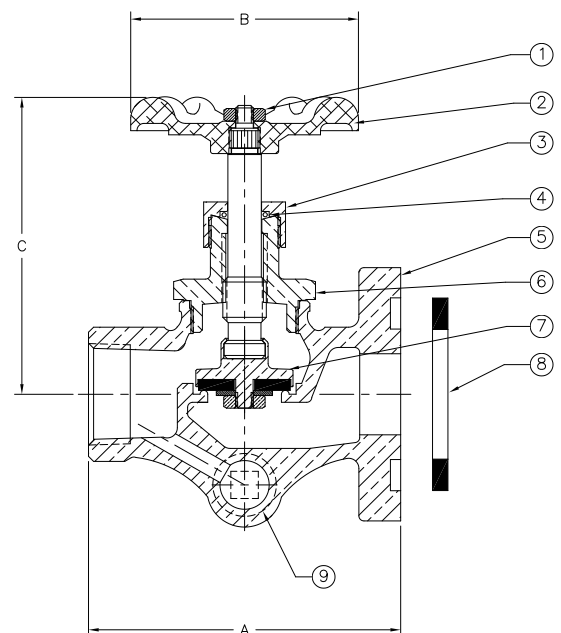
MODEL 127TFH DRAIN/SAMPLER WITH PLUG

- 300 WOG
- 100% Pressure Tested
- Flanged Inlet x Threaded Outlet
- PTFE Disc
- Gasket Groove
- Special $\frac{7}{16}$ " Bolt Holes in Flange
- Operating Temperature -50° C to +135°C
- Sampler Port on Outlet Side of Valve

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Hand Wheel	Ductile or Zinc Die Cast
3	O-Ring Nut	Brass
4	O-Ring	Buna
5	Body	Bronze
6	Bonnet 1"	Brass
	Bonnet 2"	Bronze
7	Stem & Disc Assembly	Brass/PTFE Disc
8	Gasket	Buna
9	Pipe Plug	Brass

Size	A	B	C (Open)	C (Closed)	Bolt Circle	Bolt Hole	Weight
1"	3.81	2.94	3.75	3.31	3.13	0.44	3.93
2"	5.69	3.75	6.13	5.63	4.75	0.44	11.35



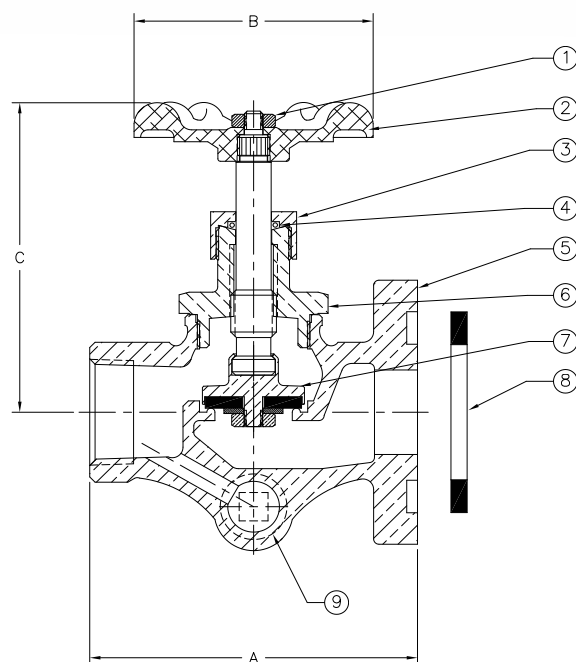
MODEL 127TFHB DRAIN/SAMPLER WITH PLUG

- 300 WOG
- 100% Pressure Tested
- Flanged Inlet x Threaded Onlet
- PTFE Disc
- Bronze Hand Wheel
- Gasket Groove
- Special 7/16" Bolt Holes in Flange
- Operating Temperature -50° C to +135°C
- Sampler Port on Outlet Side of Valve

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Hand Wheel	Ductile or Zinc Die Cast
3	O-Ring Nut	Brass
4	O-Ring	Buna
5	Body	Bronze
6	Bonnet 1"	Brass
	Bonnet 2"	Bronze
7	Stem & Disc Assembly	Brass/PTFE Disc
8	Gasket	Buna
9	Pipe Plug	Brass

Size	A	B	C (Open)	C (Closed)	Bolt Circle	Bolt Hole	Weight
1"	3.81	2.94	3.75	3.31	3.13	0.44	3.93
2"	5.69	3.75	6.13	5.63	4.75	0.44	11.35



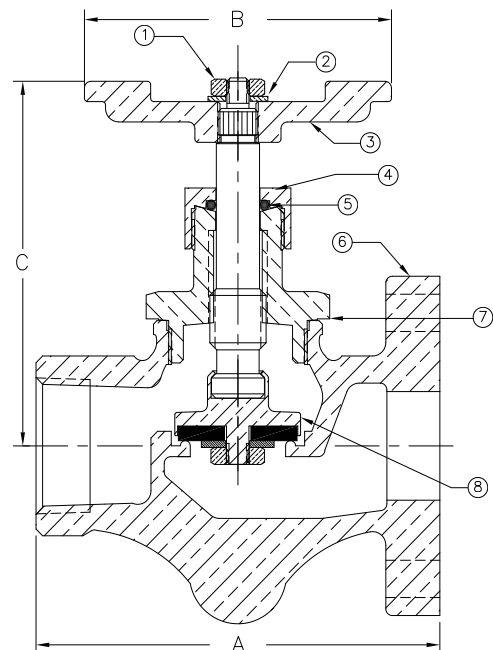
MODEL 127TNG FILL/DRAIN VALVE

- 300 WOG
- 100% Pressure Tested
- Flanged Inlet x Thread Outlet
- ANSI Standard 150 Flange
- No Gasket Groove
- PTFE Disc
- Operating Temperature -50° C to +135°C

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Washer	Brass
3	Hand Wheel	Ductile or Zinc Die Cast
4	O-Ring Nut	Brass
5	O-Ring	Mil Buna
6	Body	Bronze
7	Bonnet (1")	Brass
	Bonnet (2")	Bronze
8	Stem/Disc Assy	Brass/PTFE Disc

Size	A	B	C (Open)	C (Closed)	Bolt Circle	Bolt Hole	Weight
1"	3.81	2.94	3.75	3.31	3.13	0.625	3.93
2"	5.69	3.75	6.13	5.63	4.75	0.750	11.10



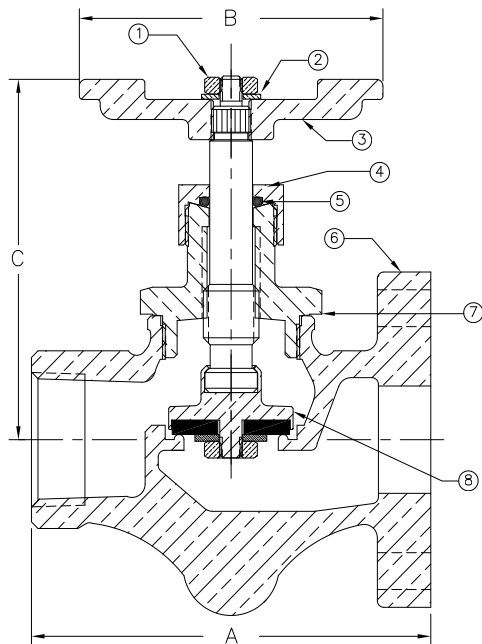
MODEL 127TNGB FILL/DRAIN VALVE

- 300 WOG
- 100% Pressure Tested
- Flanged Inlet x Thread Outlet
- ANSI Standard 150 Flange
- No Gasket Groove
- PTFE Disc
- Bronze Hand Wheel
- Operating Temperature -50° C to +135°C

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Washer	Brass
3	Hand Wheel	Bronze
4	O-Ring Nut	Brass
5	O-Ring	Mil Buna
6	Body	Bronze
7	Bonnet (1")	Brass
	Bonnet (2")	Bronze
8	Stem/Disc Assembly	Brass/PTFE

Size	A	B	C (Open)	C (Closed)	Bolt Circle	Bolt Hole	Weight
1"	3.81	2.94	3.75	3.31	3.13	0.625	3.93
2"	5.69	3.75	6.13	5.63	4.75	0.750	11.10



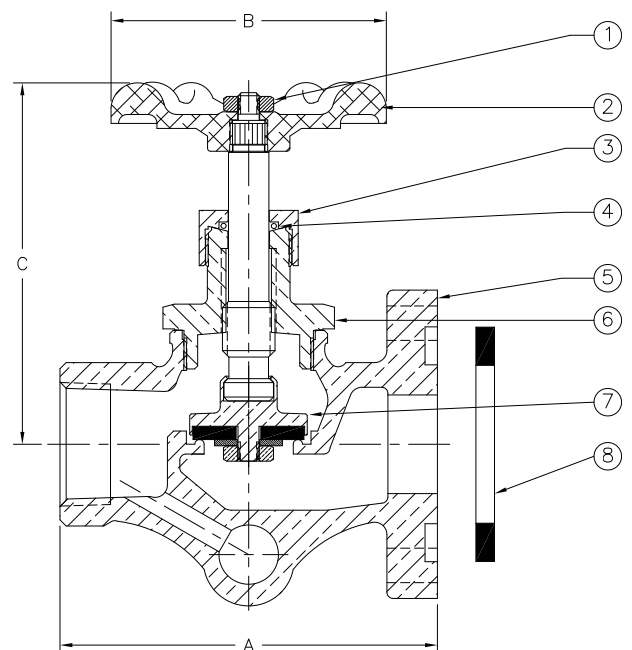
MODEL 127TS DRAIN/SAMPLER VALVE

- 300 WOG
- 100% Pressure Tested
- Flanged Inlet x Thread Inlet
- PTFE Disc
- Bronze Hand Wheel
- Gasket Groove
- Operating Temperature -50° C to +135°C
- Sampler Port Outlet Side of Valve

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Washer	Steel
3	Hand Wheel	Bronze
4	O-Ring Nut	Brass
5	O-Ring	Buna
6	Body	Bronze
7	Bonnet 1"	Brass
	Bonnet 2"	Bronze
8	Stem & Disc Assembly	Brass/PTFE Disc
9	Gasket	Buna

Size	A	B	C (Open)	C (Closed)	Bolt Circle	Bolt Hole	Weight
1"	3.81	2.94	3.75	3.31	3.13	0.625	4.10
2"	5.69	3.75	6.13	5.63	4.75	0.750	11.35



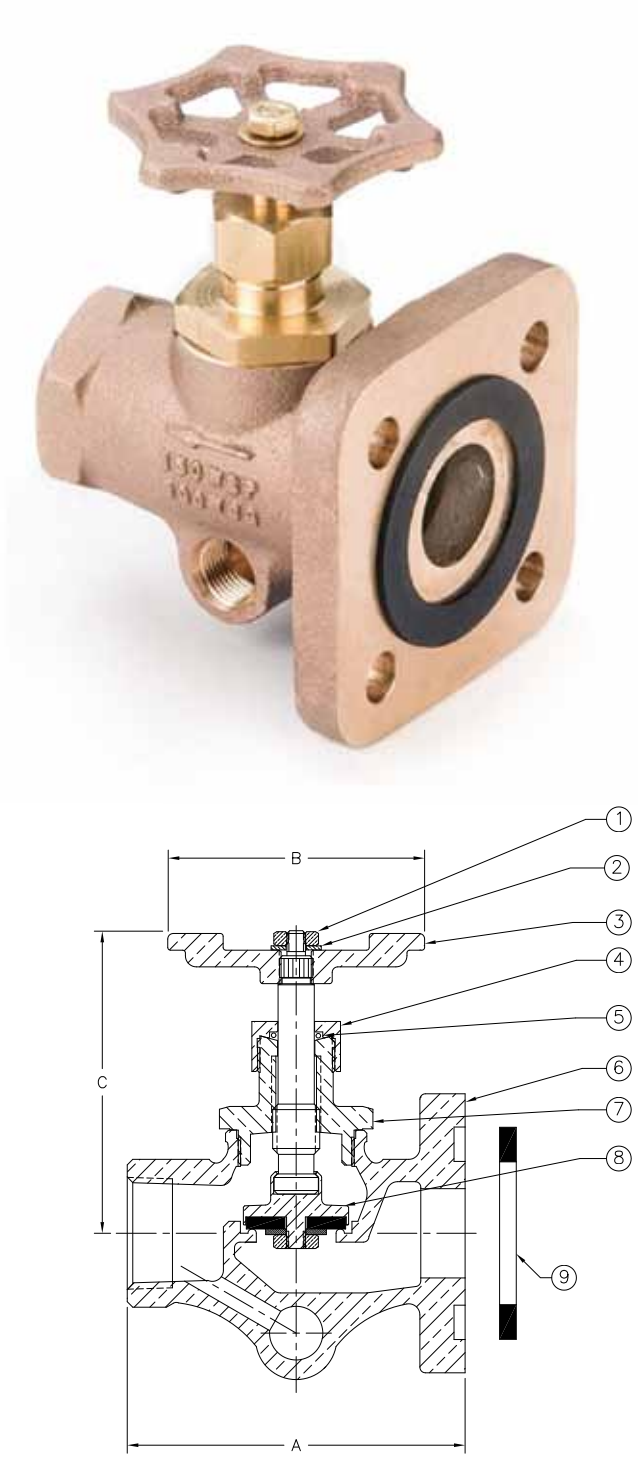
MODEL 127TSB DRAIN/SAMPLER VALVE

- 300 WOG
- 100% Pressure Tested
- Flanged Inlet x Thread Inlet
- PTFE Disc
- Bronze Hand Wheel
- Gasket Groove
- Operating Temperature -50° C to +135°C
- Sampler Port Outlet Side of Valve

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Washer	Steel
3	Hand Wheel	Bronze
4	O-Ring Nut	Brass
5	O-Ring	Buna
6	Body	Bronze
7	Bonnet 1"	Brass
	Bonnet 2"	Bronze
8	Stem & Disc Assembly	Brass/PTFE Disc
9	Gasket	Buna

Size	A	B	C (Open)	C (Closed)	Bolt Circle	Bolt Hole	Weight
1"	3.81	2.94	3.75	3.31	3.13	0.625	4.10
2"	5.69	3.75	6.13	5.63	4.75	0.750	11.35



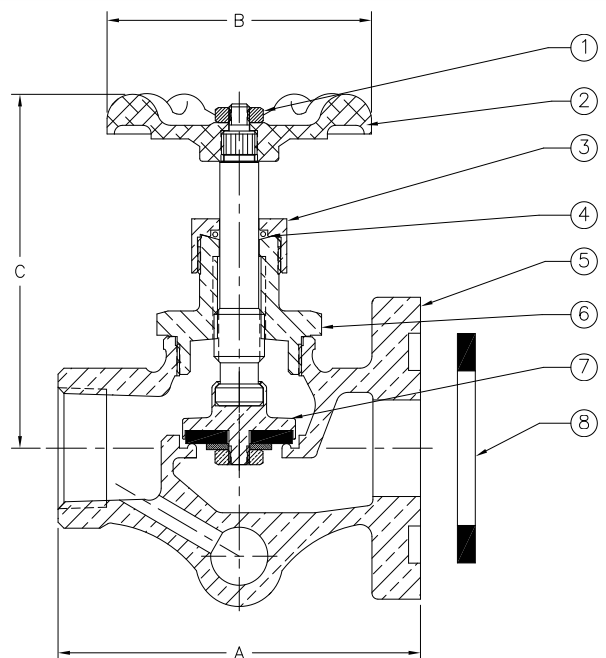
MODEL 127TSH DRAIN/SAMPLER VALVE

- 300 WOG
- 100% Pressure Tested
- Flanged Inlet x Thread Inlet
- PTFE Disc
- Gasket Groove
- Special $\frac{7}{16}$ " Bolt Hole in Flange
- Operating Temperature -50° C to +135°C
- Sampler Port Outlet Side of Valve

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Hand Wheel	Ductile or Zinc Die Cast
3	O-Ring Nut	Brass
4	O-Ring	Buna
5	Body	Bronze
6	Bonnet 1"	Brass
	Bonnet 2"	Bronze
7	Stem & Disc Assembly	Brass/PTFE Disc
8	Gasket	Buna

Size	A	B	C (Open)	C (Closed)	Bolt Circle	Bolt Hole	Weight
1"	3.81	2.94	3.75	3.31	3.13	0.44	4.10
2"	5.69	3.75	6.13	5.63	4.75	0.44	11.35



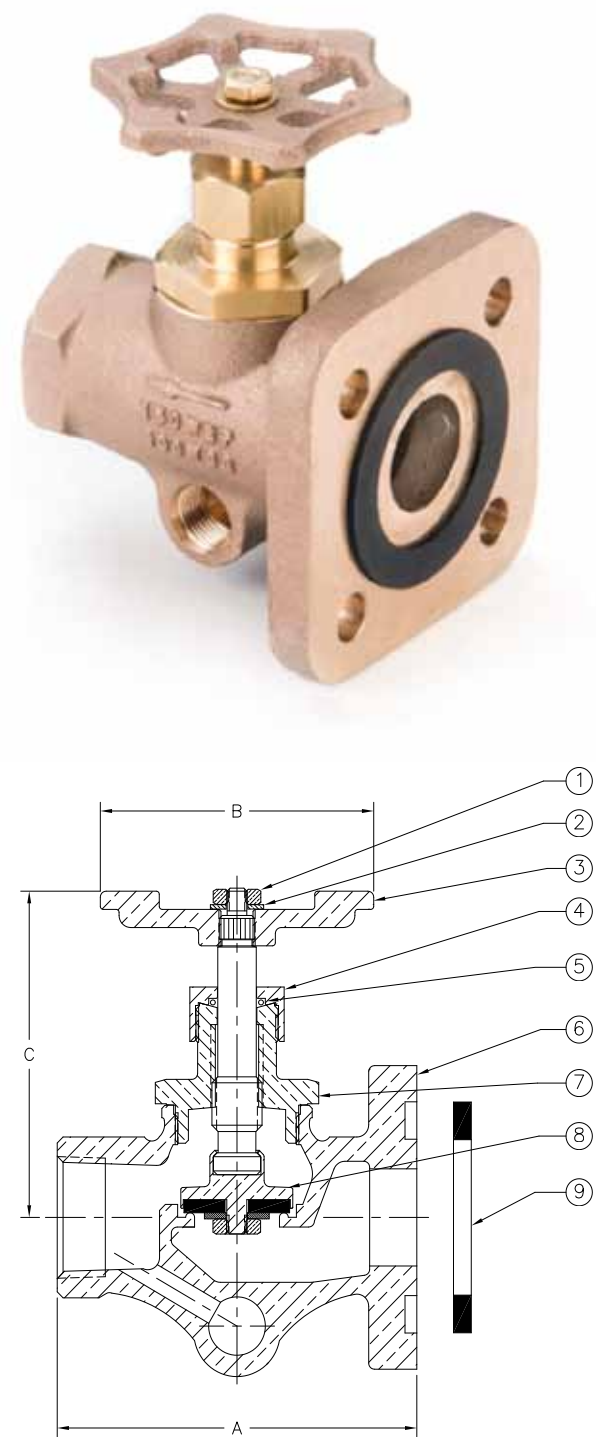
MODEL 127TSHB DRAIN/SAMPLER VALVE

- 300 WOG
- 100% Pressure Tested
- Flanged Inlet x Thread Inlet
- PTFE Disc
- Bronze Hand Wheel
- Gasket Groove
- Special 7/16" Bolt Hole in Flange
- Operating Temperature -50° C to +135°C
- Sampler Port Outlet Side of Valve

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Washer	Steel
3	Hand Wheel	Bronze
4	O-Ring Nut	Brass
5	O-Ring	Buna
6	Body	Bronze
7	Bonnet 1"	Brass
	Bonnet 2"	Bronze
8	Stem & Disc Assembly	Brass/PTFE Disc
9	Gasket	Buna

Size	A	B	C (Open)	C (Closed)	Bolt Circle	Bolt Hole	Weight
1"	3.81	2.94	3.75	3.31	3.13	0.44	4.10
2"	5.69	3.75	6.13	5.63	4.75	0.44	11.35



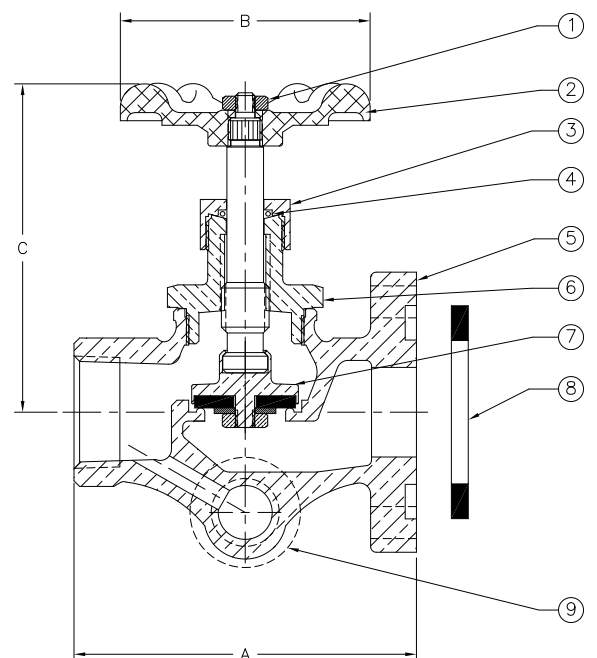
MODEL 127TSS DRAIN/SAMPLER VALVE

- 300 WOG
- 100% Pressure Tested
- Flanged Inlet x Threaded Inlet
- 3/8" Sampler Device
- PTFE Disc
- Bronze Hand Wheel
- Gasket Groove
- Operating Temperature -50° C to +135°C
- Sampler Port Outlet Side of Valve

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Hand Wheel	Ductile or Zinc Die Cast
3	O-Ring Nut	Brass
4	O-Ring	Buna
5	Body	Bronze
6	Bonnet 1"	Brass
7	Bonnet 2"	Bronze
7	Stem & Disc Assembly	Brass/PTFE Disc
8	Gasket	Buna
9	Sampler (86 3/8")	See Spec

Size	A	B	C (Open)	C (Closed)	Bolt Circle	Bolt Hole	Weight
1"	3.81	2.94	3.75	3.31	3.13	0.625	4.10
2"	5.69	3.75	6.13	5.63	4.75	0.750	11.35



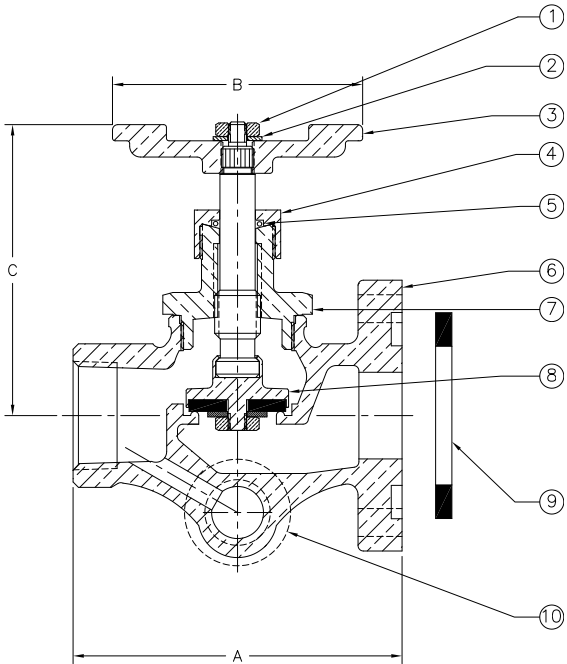
MODEL 127TSSB DRAIN/SAMPLER VALVE

- 300 WOG
- 100% Pressure Tested
- Flanged Inlet x Threaded Inlet
- 3/8" Sampler Device
- PTFE Disc
- Bronze Hand Wheel
- Gasket Groove
- Operating Temperature -50° C to +135°C
- Sampler Port Outlet Side of Valve

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Washer	Steel
3	Hand Wheel	Bronze
4	O-Ring Nut	Brass
5	O-Ring	Buna
6	Body	Bronze
7	Bonnet 1"	Brass
	Bonnet 2"	Bronze
8	Stem & Disc Assembly	Brass/PTFE Disc
9	Gasket	Buna
10	Sampler (86 3/8")	See Spec

Size	A	B	C (Open)	C (Closed)	Bolt Circle	Bolt Hole	Weight
1"	3.81	2.94	3.75	3.31	3.13	0.625	4.10
2"	5.69	3.75	6.13	5.63	4.75	0.750	11.35



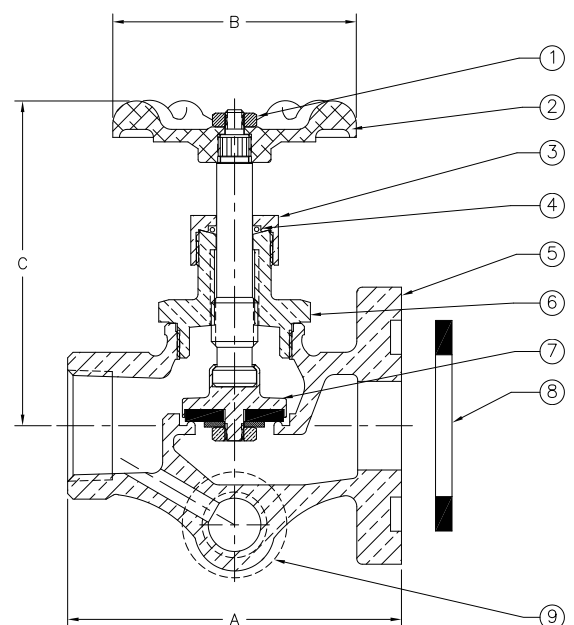
MODEL 127TSSH DRAIN/SAMPLER VALVE

- 300 WOG
- 100% Pressure Tested
- Flanged Inlet x Threaded Inlet
- 3/8" Sampler Device
- PTFE Discl
- Gasket Groove
- Special 7/16" Bolt Hole in Flange
- Operating Temperature -50° C to +135°C
- Sampler Port Outlet Side of Valve

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Hand Wheel	Ductile or Zinc Die Cast
3	O-Ring Nut	Brass
4	O-Ring	Buna
5	Body	Bronze
6	Bonnet 1"	Brass
	Bonnet 2"	Bronze
7	Stem & Disc Assembly	Brass/PTFE Disc
8	Gasket	Buna
9	Sampler (86 3/8")	See Spec

Size	A	B	C (Open)	C (Closed)	Bolt Circle	Bolt Hole	Weight
1"	3.81	2.94	3.75	3.31	3.13	0.44	4.10
2"	5.69	3.75	6.13	5.63	4.75	0.44	11.35



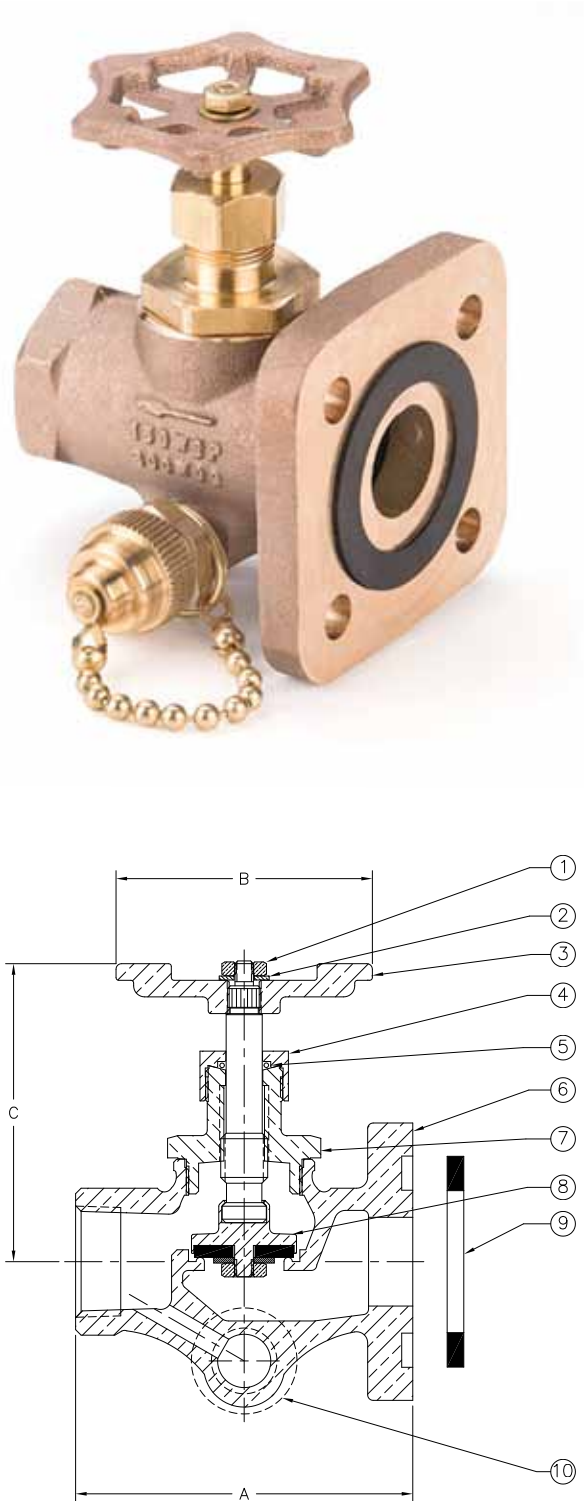
MODEL 127TSSHB DRAIN/SAMPLER VALVE

- 300 WOG
- 100% Pressure Tested
- Flanged Inlet x Threaded Inlet
- 3/8" Sampler Device
- PTFE Disc
- Bronze Hand Wheel
- Gasket Groove
- Special 7/16" Bolt Hole in Flange
- Operating Temperature -50° C to +135°C
- Sampler Port Outlet Side of Valve

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Washer	Steel
3	Hand Wheel	Bronze
4	O-Ring Nut	Brass
5	O-Ring	Buna
6	Body	Bronze
7	Bonnet 1"	Brass
	Bonnet 2"	Bronze
8	Stem & Disc Assembly	Brass/PTFE Disc
9	Gasket	Buna
10	Sampler (86 3/8")	See Spec

Size	A	B	C (Open)	C (Closed)	Bolt Circle	Bolt Hole	Weight
1"	3.81	2.94	3.75	3.31	3.13	0.44	4.10
2"	5.69	3.75	6.13	5.63	4.75	0.44	11.35



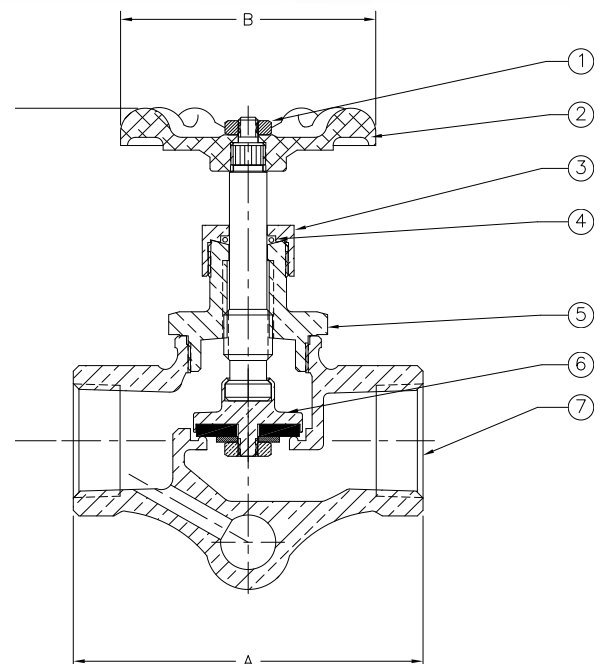
MODEL 128TS DRAIN/SAMPLER VALVE

- 300 WOG
- 100% Pressure Tested
- PTFE Disc
- Threaded Ends
- Operating Temperature -50° C to +135°C
- Sampler Port Outlet Side of Valve

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Hand Wheel	Ductile or Zinc Die Cast
3	O-Ring Nut	Brass
4	O-Ring	Buna
5	Bonnet 1"	Brass
	Bonnet 2"	Bronze
6	Stem & Disc Assembly	Brass/PTFE Disc
7	Body	Bronze

Size	A	B	C (Open)	C (Closed)	Weight
1"	3.81	3.00	3.75	3.38	2.94
2"	5.69	3.75	7.00	6.50	8.94



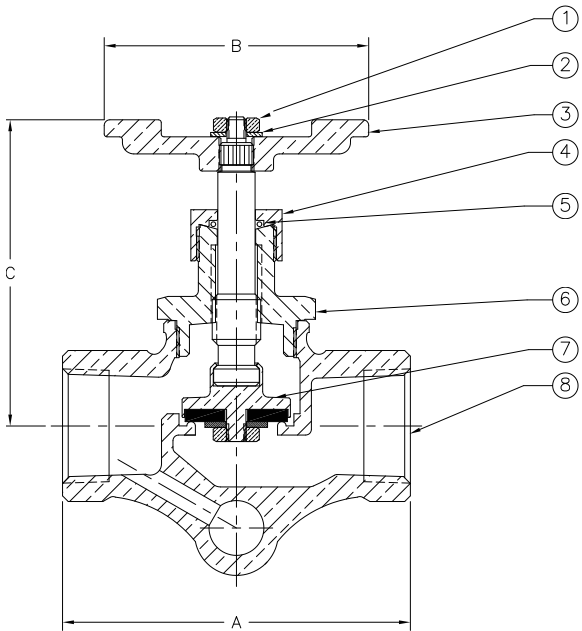
MODEL 128TSB DRAIN/SAMPLER VALVE

- 300 WOG
- 100% Pressure Tested
- PTFE Disc
- Bronze Hand Wheel
- Threaded Ends
- Operating Temperature -50° C to +135°C
- Sampler Port Outlet Side of Valve

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Washer	Steel
3	Hand Wheel	Bronze
4	O-Ring Nut	Brass
5	O-Ring	Buna
6	Bonnet 1"	Brass
7	Bonnet 2"	Bronze
	Stem & Disc Assembly	Brass/PTFE Disc
8	Body	Bronze

Size	A	B	C (Open)	C (Closed)	Weight
1"	3.81	3.00	3.75	3.38	2.94
2"	5.69	3.75	7.00	6.50	8.94



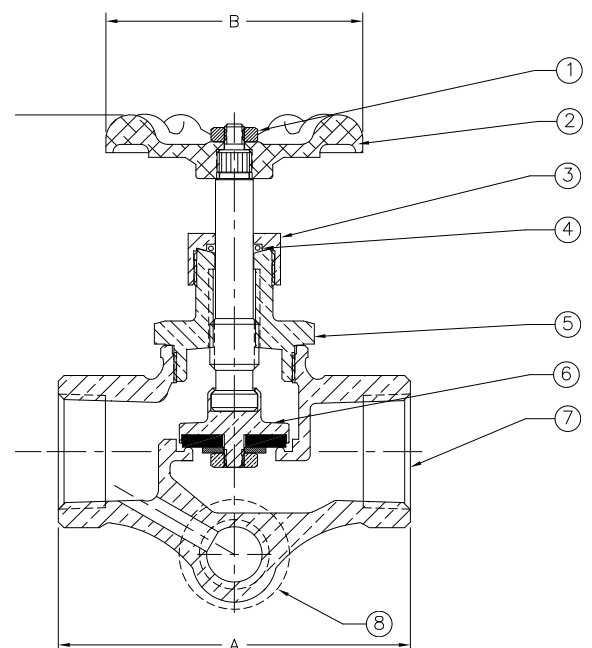
MODEL 128TSS DRAIN/SAMPLER VALVE

- 300 WOG
- 100% Pressure Tested
- 3/8" Sampler Device
- PTFE Disc
- Threaded Ends
- Operating Temperature -50° C to +135°C
- Sampler Port Outlet Side of Valve

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Hand Wheel	Ductile or Zinc Die Cast
3	O-Ring Nut	Brass
4	O-Ring	Buna
5	Bonnet 1"	Brass
	Bonnet 2"	Bronze
6	Stem & Disc Assembly	Brass/PTFE Disc
7	Body	Bronze
8	Sampler 86 3/8	(See Specs)

Size	A	B	C (Open)	C (Closed)	Weight
1"	3.81	3.00	3.75	3.38	2.94
2"	5.69	3.75	7.00	6.50	8.94



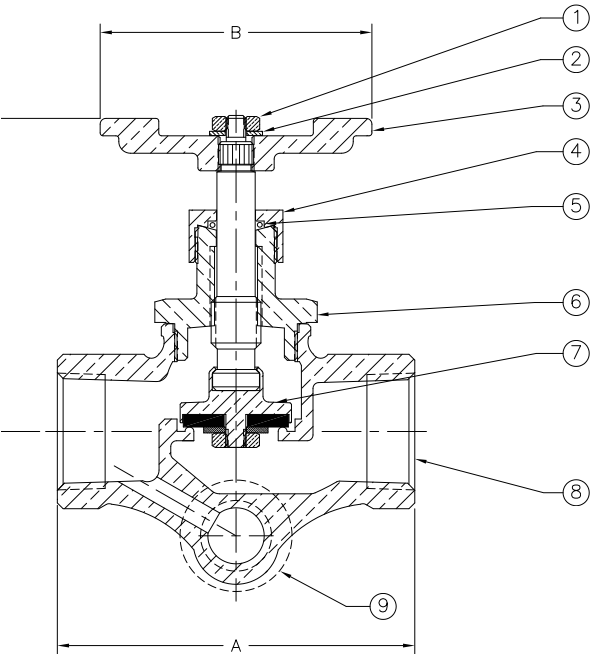
MODEL 128TSSB DRAIN/SAMPLER VALVE

- 300 WOG
- 100% Pressure Tested
- 3/8" Sampler Device
- PTFE Disc
- Bronze Hand Wheel
- Threaded Ends
- Operating Temperature -50° C to +135°C
- Sampler Port Outlet Side of Valve

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Washer	Steel
3	Hand Wheel	Bronze
4	O-Ring Nut	Brass
5	O-Ring	Buna
6	Bonnet 1"	Brass
7	Bonnet 2"	Bronze
8	Stem & Disc Assembly	Brass/PTFE Disc
9	Body	Bronze
9	Sample 86 3/8	See Spec

Size	A	B	C (Open)	C (Closed)	Weight
1"	3.81	3.00	3.75	3.38	2.94
2"	5.69	3.75	7.00	6.50	8.94



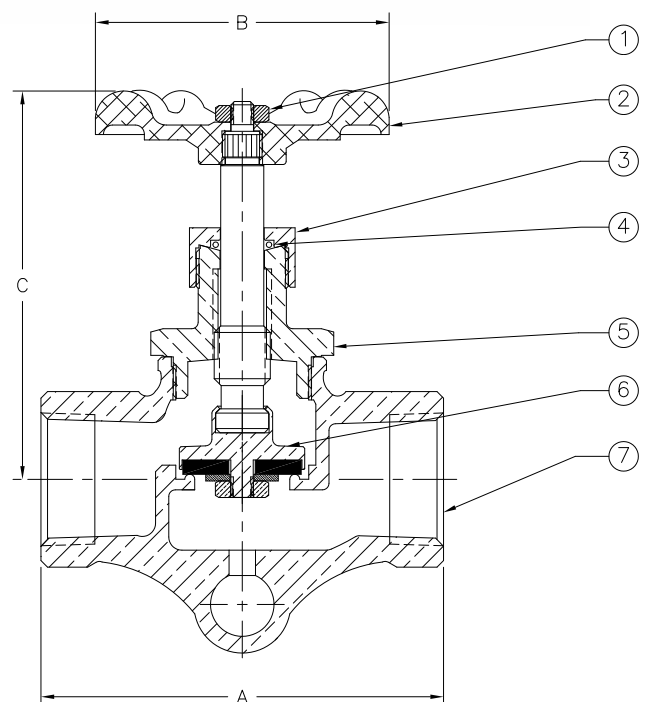
MODEL 129TS DRAIN/SAMPLER VALVE

- 300 WOG
- 100% Pressure Tested
- PTFE Disc
- Threaded Ends
- Operating Temperature -50° C to +135°C
- Sample Can Be Taken With Valve in the Closed Position

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Hand Wheel	Ductile or Zinc Die Cast
3	O-Ring Nut	Brass
4	O-Ring	Buna
5	Bonnet 1"	Brass
	Bonnet 2"	Bronze
6	Stem & Disc Assembly	Brass/PTFE Disc
7	Body	Bronze

Size	A	B	C (Open)	C (Closed)	Weight
1"	3.81	3.00	3.75	3.38	2.94
2"	5.69	3.75	7.00	6.50	8.94



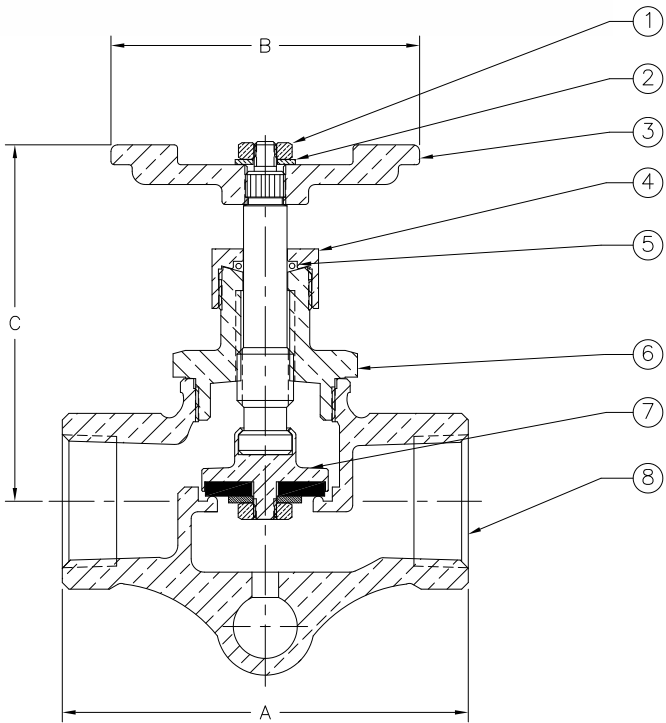
MODEL 129TSB DRAIN/SAMPLER VALVE

- 300 WOG
- 100% Pressure Tested
- PTFE Disc
- Bronze Hand Wheel
- Threaded Ends
- Operating Temperature -50° C to +135°C
- Sample Can Be Taken With Valve in the Cosed Position

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Washer	Brass
3	Hand Wheel	Bronze
4	O-Ring Nut	Brass
5	O-Ring	Buna
6	Bonnet 1"	Brass
	Bonnet 2"	Bronze
7	Stem & Disc Assembly	Brass/PTFE Disc
8	Body	Bronze

Size	A	B	C (Open)	C (Closed)	Weight
1"	3.81	3.00	3.75	3.38	2.94
2"	5.69	3.75	7.00	6.50	8.94



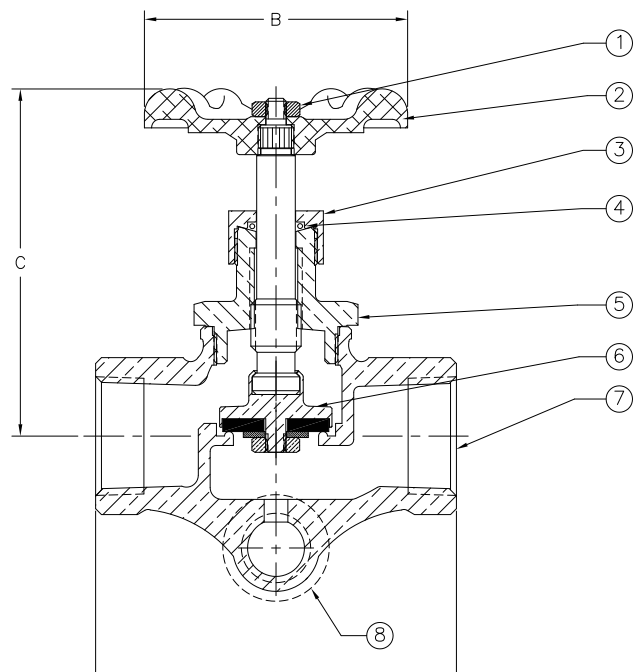
MODEL 129TSS DRAIN/SAMPLER VALVE

- 300 WOG
- 100% Pressure Tested
- 3/8" Sampler Device
- PTFE Disc
- Threaded Ends
- Operating Temperature -50° C to +135°C
- Sample Can Be Taken With Valve in the Closed Position

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Hand Wheel	Ductile or Zinc Die Cast
3	O-Ring Nut	Brass
4	O-Ring	Buna
5	Bonnet 1"	Brass
	Bonnet 2"	Bronze
6	Stem & Disc Assembly	Brass/PTFE Disc
7	Body	Bronze
8	Sampler 86 3/8"	See Spec

Size	A	B	C (Open)	C (Closed)	Weight
1"	3.81	3.00	3.75	3.38	2.94
2"	5.69	3.75	7.00	6.50	8.94



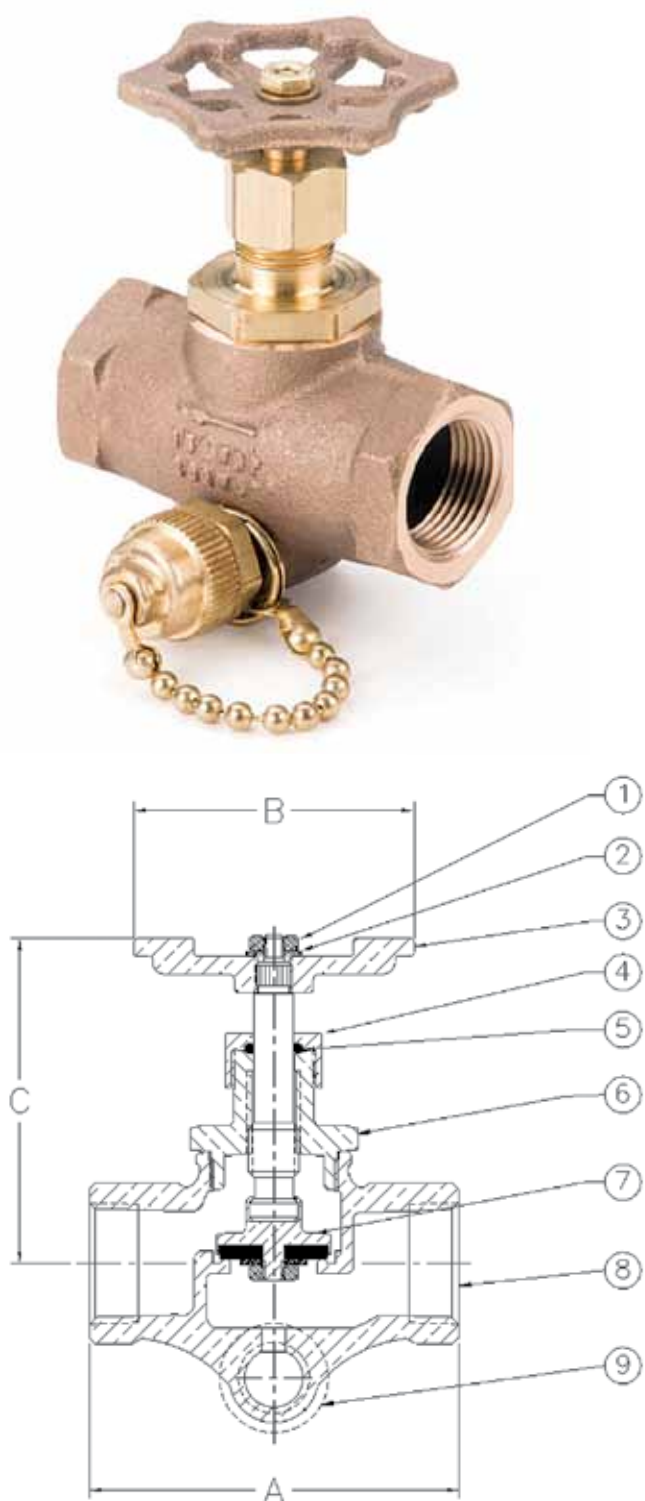
MODEL 129TSSB DRAIN/SAMPLER VALVE

- 300 WOG
- 100% Pressure Tested
- 3/8" Sampler Device
- PTFE Disc
- Bronze Hand Wheel
- Threaded Ends
- Operating Temperature -50° C to +135°C
- Sample Can Be Taken With Valve in the Closed Position

MATERIAL LIST

Number	Description	Material
1	Nut	Steel
2	Washer	Brass
3	Hand Wheel	Bronze
4	O-Ring Nut	Brass
5	O-Ring	Buna
6	Bonnet 1"	Brass
7	Bonnet 2"	Bronze
8	Stem & Disc Assembly	Brass/PTFE Disc
9	Body	Bronze
9	Sampler 86 3/8	See Spec

Size	A	B	C (Open)	C (Closed)	Weight
1"	3.81	3.00	3.75	3.38	2.94
2"	5.69	3.75	7.00	6.50	8.94

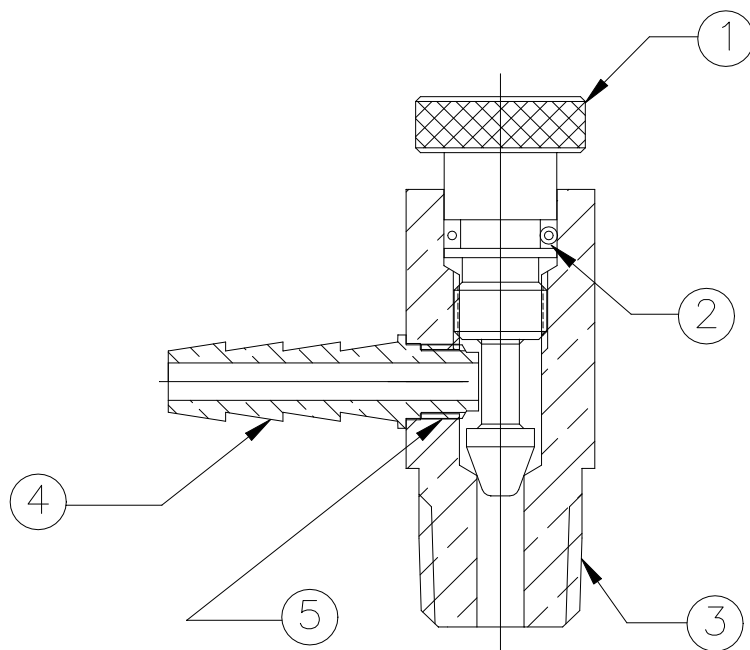


MODEL 130 NEEDLE TEST VALVE

- 1/4" NPT X 1/4" Hose
- 100% Pressure Tested
- Operating Temperature -50° C to +135°C

MATERIAL LIST

Number	Description	Material
1	Stem	Brass
2	O-Ring	FKM
3	Body	Brass
4	Connector	Brass
5	Retaining Compound	Permabond HM-160

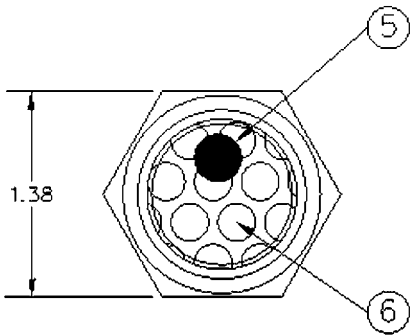
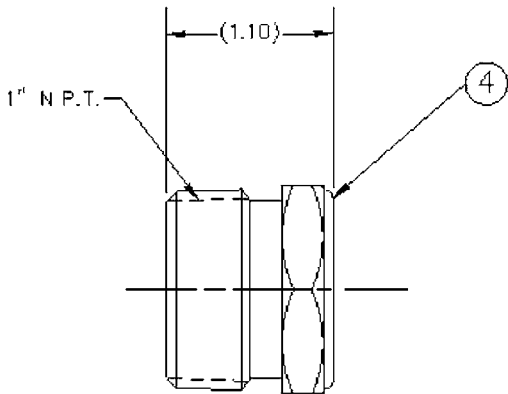
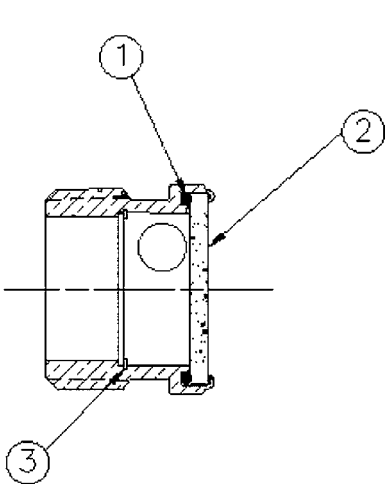


MODEL 131 “BULL’S EYE” SITE GLASS WITH FLOAT

- 200 WOG
- 100% Pressure Tested
- Operating Temperature -50° C to +135°C

MATERIAL LIST

Number	Description	Material
1	O-Ring	Buna
2	Glass	Temp.
3	Retaining Ring	Stainless
4	Body	Brass
5	Perforated Disc	Stainless
6	Ball	Aluminum



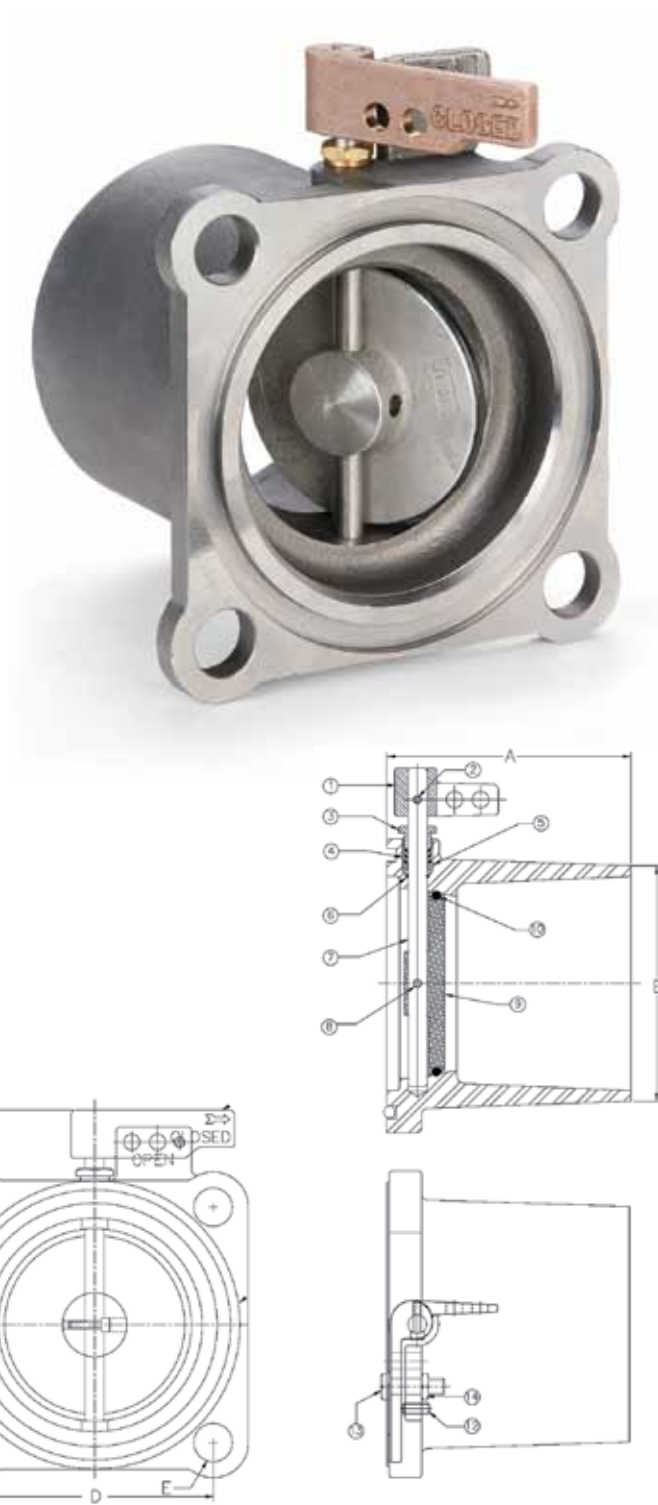
MODEL 150NO RADIATOR VALVE

- Flange x Weldable Pipe End
- 100% Pressure Tested
- Zero Leakage Design
- Body Casting ASTM A216-WCC Carbon Steel
- Operating Temperature -50° C to +135° C
- Custom Options Available

MATERIAL LIST

Number	Description	Material
1	Handle	Bronze
2	Cap Screw	Stainless Steel
3	Packing Gland	Brass
4	Packing	PTFE
5	O-Ring Follower	Brass
6	O-Ring	Mil Spec BUNA
7	Stem	Stainless Steel
8	Cap Screw	Stainless Steel
9	Gate	Aluminum
10	O-Ring	Mil Spec BUNA
11	Body	Carbon Steel
12	Set Screw	Stainless Steel
13	Bolt	Steel
14	Nut	Steel

A	B	C	D	E
5.63	5.50	5.03	5.50	0.91



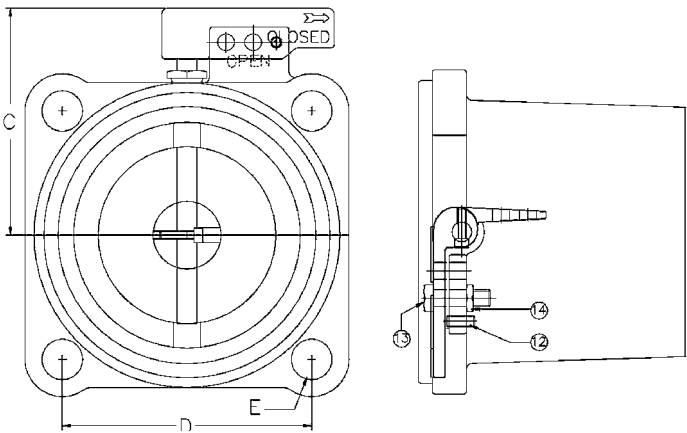
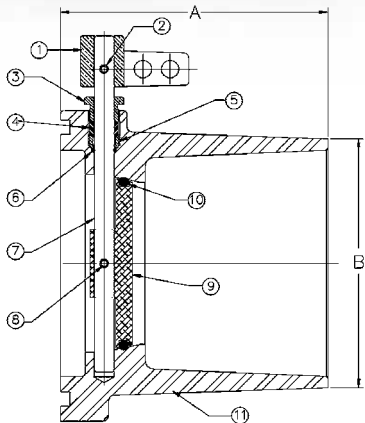
MODEL 150NOSS RADIATOR VALVE

- Flange x Weldable Pipe End
- 100% Pressure Tested
- Zero Leakage Design
- Body Casting ASTM A216-WCC Carbon Steel
- Stainless Steel Locking Bolt & Nut
- Operating Temperature -50° C to +135° C
- Custom Options Available

MATERIAL LIST

Number	Description	Material
1	Handle	Bronze
2	Cap Screw	Stainless Steel
3	Packing Gland	Brass
4	Packing	PTFE
5	O-Ring Follower	Brass
6	O-Ring	Mil Spec BUNA
7	Stem	Stainless Steel
8	Cap Screw	Stainless Steel
9	Gate	Aluminum
10	O-Ring	Mil Spec BUNA
11	Body	Carbon Steel
12	Set Screw	Stainless Steel
13	Bolt	Steel
14	Nut	Steel

A	B	C	D	E
5.63	5.50	5.03	5.50	0.91



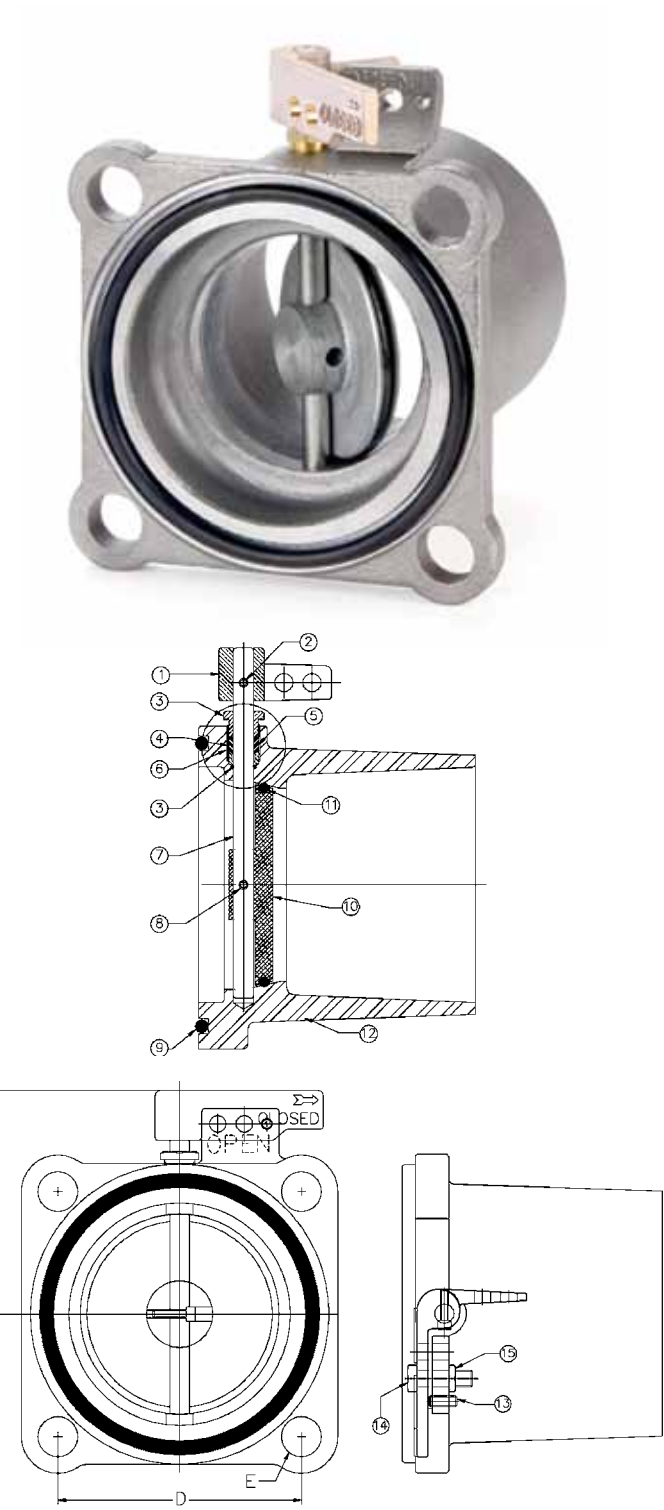
MODEL 150VO RADIATOR VALVE

- Flange x Weldable Pipe End
- 100% Pressure Tested
- Zero Leakage Design
- Body Casting ASTM A216-WCC Carbon Steel
- Mill Spec Face O-Ring
- Operating Temperature -50° C to +135° C
- Custom Options Available

MATERIAL LIST

Number	Description	Material
1	Handle	Bronze
2	Cap Screw	Stainless Steel
3	Packing Gland	Brass
4	Packing	PTFE
5	O-Ring Follower	Brass
6	O-Ring	Mil Spec BUNA
7	Stem	Stainless Steel
8	Cap Screw	Stainless Steel
9	O-Ring	Mil Spec BUNA
10	Gate	Aluminum
11	O-Ring	Mil Spec BUNA
12	Body	Carbon Steel
13	Set Screw	Stainless Steel
14	Bolt	Steel
15	Nut	Steel

A	B	C	D	E
5.63	5.50	5.03	5.50	0.91



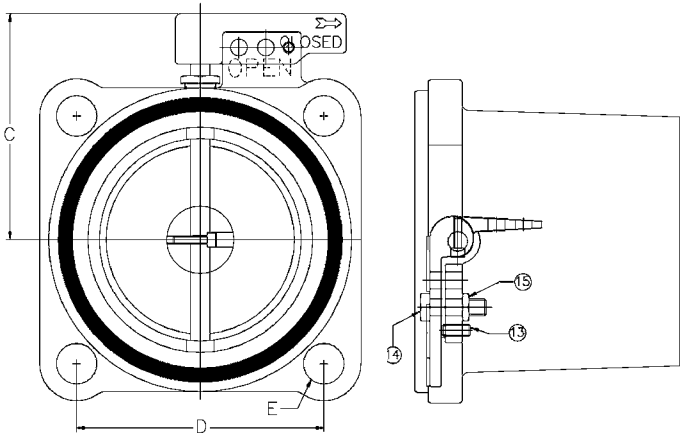
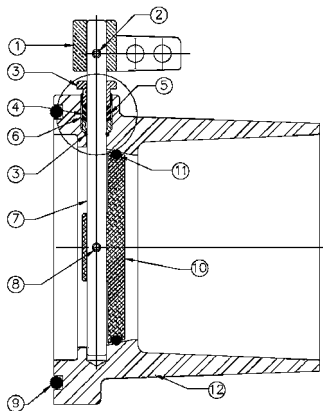
MODEL 150VOSS RADIATOR VALVE

- Flange x Weldable Pipe End
- 100% Pressure Tested
- Zero Leakage Design
- Body Casting ASTM A216-WCC Carbon Steel
- Mill Spec Face O-Ring
- Operating Temperature -50° C to +135° C
- Stainless Steel Bolt & Nut
- Custom Options Available

MATERIAL LIST

Number	Description	Material
1	Handle	Bronze
2	Cap Screw	Stainless Steel
3	Packing Gland	Brass
4	Packing	PTFE
5	O-Ring Follower	Brass
6	O-Ring	Mil Spec BUNA
7	Stem	Stainless Steel
8	Cap Screw	Stainless Steel
9	O-Ring	Mil Spec BUNA
10	Gate	Aluminum
11	O-Ring	Mil Spec BUNA
12	Body	Carbon Steel
13	Set Screw	Stainless Steel
14	Bolt	Stainless Steel
15	Nut	Stainless Steel

A	B	C	D	E
5.63	5.50	5.03	5.50	0.91

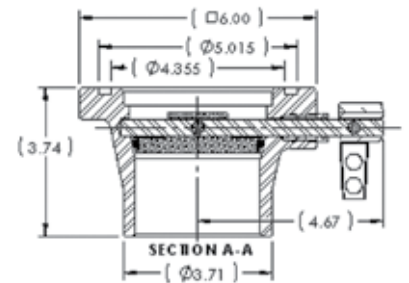
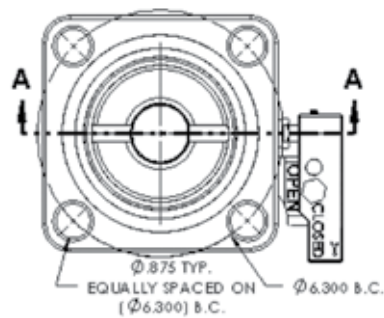
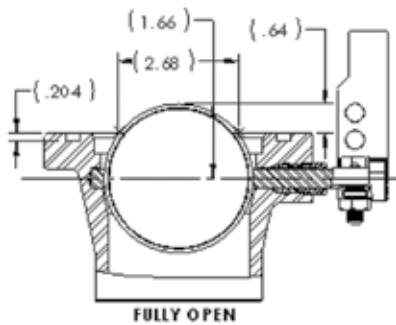
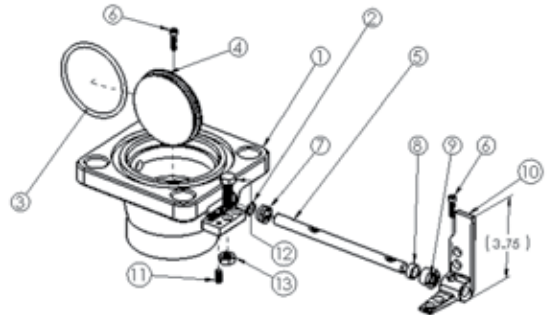


MODEL 250 3" RADIATOR VALVE

- Flange x Weldable Pipe End
- 100% Pressure Tested
- Zero Leakage Design
- Body Casting ASTM A216-WCC Carbon Steel
- Operating Temperature -50° C to +135° C
- Custom Options Available

MATERIAL LIST

Number	Description	Material
1	BODY	CARBON STEEL
2	O-RING	BUNA
3	O-RING	BUNA
4	GATE	ALUMINUM
5	STEM	STAINLESS STEEL
6	CAP SCREW	STAINLESS STEEL
7	O-RING FOLLOWER	BRASS
8	PACKING	PTFE
9	PACKING GLAND	BRASS
10	HANDLE	BRONZE
11	SET SCREW	STAINLESS STEEL
12	CAP SCREW	STEEL
13	JAM NUT	STEEL

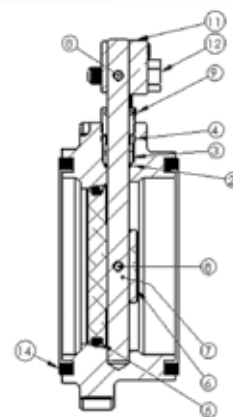


MODEL 252 3" RADIATOR VALVE

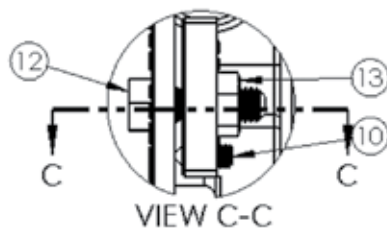
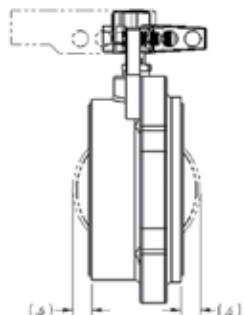
- Bolt-On Design
- 100% Pressure Tested
- Zero Leakage Design
- Ductile Iron Body
- E-Coated Body for Improved Corrosion Resistance
- Operating Temperature -50° C to +135° C
- Custom Options Available

MATERIAL LIST

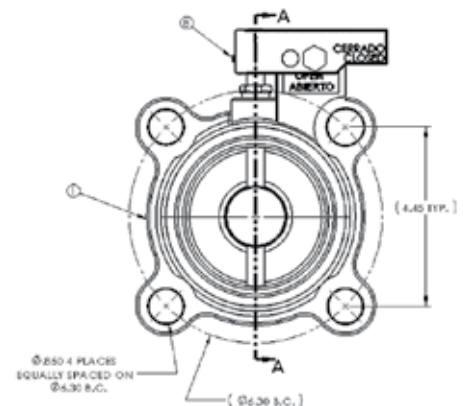
Number	Description	Material
1	Body	Ductile Iron
2	O-Ring	Buna
3	Packing	PTFE
4	O-Ring Follower	Brass
5	O-Ring	Buna
6	Gate	Aluminum
7	Stem	Stainless Steel
8	Cap Screw	Stainless Steel
9	Packing Gland	Brass
10	Set Screw	Stainless Steel
11	Handle	Bronze
12	Cap Screw	Steel
13	Jam Nut	Steel
14	Gasket	Peroxide Cured Buna



SECTION A-A



VIEW C-C

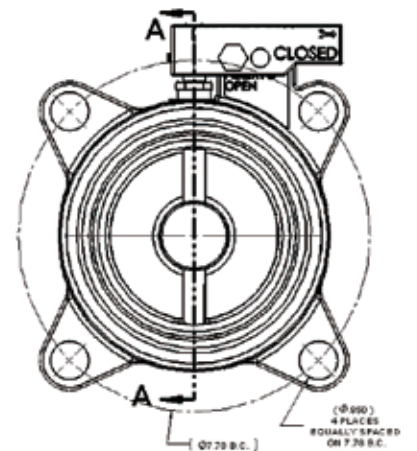
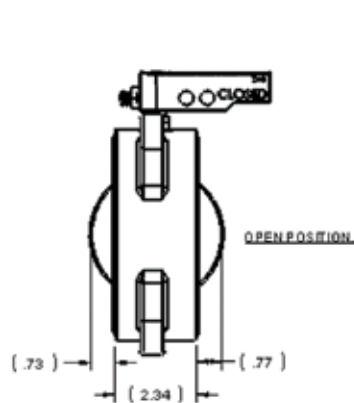
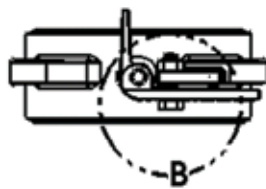
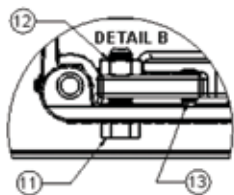
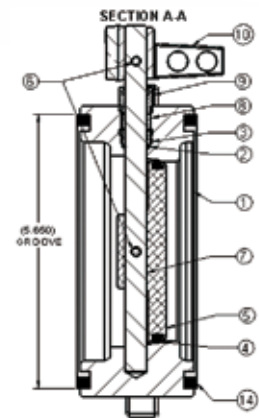


MODEL 252 4" RADIATOR VALVE

- Bolt-On Design
- 100% Pressure Tested
- Zero Leakage Design
- Ductile Iron Body
- Operating Temperature -50° C to +135° C
- Custom Options Available

MATERIAL LIST

Number	Description	Material
1	Body	Ductile Iron
2	O-Ring	Buna
3	O-Ring Follower	Brass
4	O-Ring	Buna
5	Gate	Aluminum
6	Cap Screw	Stainless Steel
7	Stem	Stainless Steel
8	Packing	PTFE
9	Packing Gland	Brass
10	Handle	Bronze
11	Cap Screw	Steel
12	Jam Nut	Steel
13	Set Screw	Stainless Steel
14	Gasket	Peroxide Cured Buna



WEIDMANN ELECTRICAL TECHNOLOGY INC.

One Gordon Mills Way, PO Box 903, St. Johnsbury, VT 05819-0903, USA

T+802 748 8106, F+802 748 8630, www.weidmann-electrical.com

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