

Figures 950-T, 950H-T Dual Body, NPT Combination Air Valves for Clean Water

Description

GA Industries Figures 950-T and 950H-T Combination Air Valves are “triple function” valves and consist of an air release valve factory piped to an air & vacuum valve. They vent air from pipelines and systems as they are being filled with water and then close tight once the system is full and pressurized. They also release air that accumulates in the valve while the system is operational. And they automatically open to admit air to limit vacuum formation when the pipeline or system is drained and/or a negative pressure occurs in the valve.

The Figure 950-T and 950H-T are standard with NPT inlet and outlet connections.

Product Features

- Compact and light weight
- Full port large orifice for maximum air outflow and inflow
- Utilizes “kinetic” operating principle, designed not to blow shut
- Rugged cast iron construction
- Corrosion resistant Type 316 stainless steel floats
- Tight sealing and easily replaceable rubber seats

Standard Materials

- Bodies & Covers Cast Iron, ASTM A126 Class B
- Floats Stainless Steel, Type 316
- Internal Linkage Stainless Steel, Type 316
- Replaceable Seat Buna-N Rubber
- External Fasteners Steel, A307, Zinc Plated

Corrosion Protection

- Standard: Uncoated internal, external enamel primer, 2 mil DFT
- Optional See Option P2



Approvals & Certifications

- Complies with AWWA Standard C512

Options/Accessories

- Option IV with Inlet Isolating Valve, full port, lead free bronze lever operated ball valve
- Option OC with Outlet Cowl
- Option P2 with 316 Stainless Steel external fasteners and internal/external Carboline 891 NSF-61 certified 2-part epoxy, 6 mil DFT
- Option TD with Double Acting Throttle Device

Ordering Data

- Figure Number (950-T, 950H-T)
- Size
- Options/Accessories

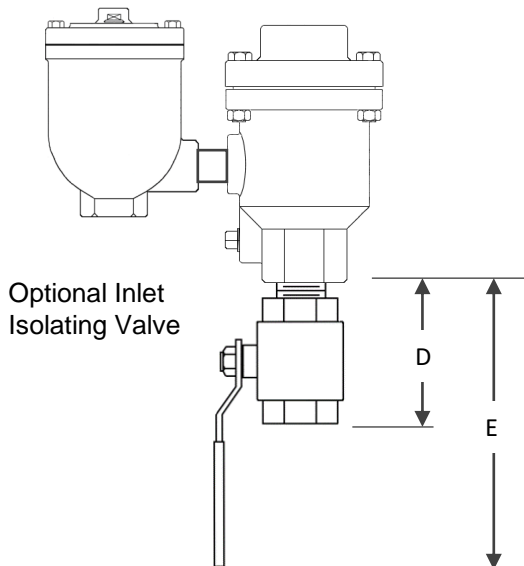
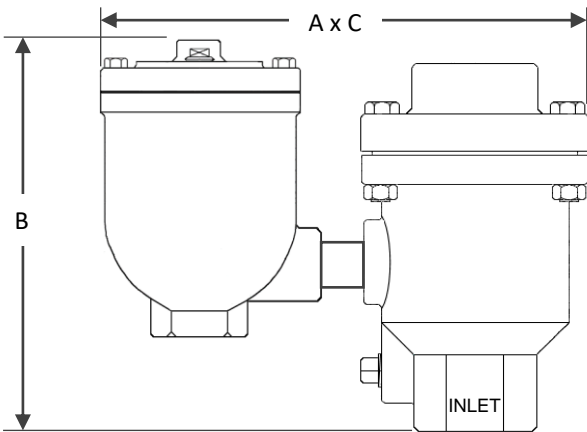
| Non-Shock Working Water Pressure at up to 150F (66C) | | |
|--|-----------------------|-----------------------|
| Inlet Size | ½", ¾", 1", 2" and 3" | ½", ¾", 1", 2" and 3" |
| Figure Number | 950-T | 950H-T |
| Inlet Connection | NPT | NPT |
| Outlet Size | Same as Inlet | Same as Inlet |
| Standard Outlet | NPT | NPT |
| Air Release Orifice Diameter | 0.094" | 0.063" |
| Working Pressure | 10 – 150 PSI | 10 – 200 PSI |
| Pressure Rating | 200 PSI | 200 PSI |
| Hydro Test | 300 PSI | 300 PSI |

Data Sheet 950.02C

Air Vacuum Orifice

| Pressure at Valve Inlet During Filling | Air Outflow Rate, Standard Cubic Feet/Min (SCFM) | | | | |
|--|--|------|------|------|------|
| | 1/2" | 3/4" | 1" | 2" | 3" |
| 1 PSI | 19.6 | 44.2 | 78.5 | 314 | 707 |
| 2 PSI | 27.8 | 62.5 | 111 | 444 | 1000 |
| 3 PSI | 34.0 | 76.5 | 136 | 544 | 1220 |
| 4 PSI | 39.3 | 88.4 | 157 | 628 | 1410 |
| 5 PSI | 43.9 | 98.8 | 176 | 703 | 1580 |
| 7 PSI | 52.0 | 117 | 208 | 831 | 1870 |
| 10 PSI | 62.1 | 140 | 248 | 994 | 2240 |
| 15 PSI | 75.2 | 169 | 304 | 1217 | 2740 |

Value is rate at which air is vented from pipeline/system during filling at valve inlet pressures shown. Inlet pressure during filling should not exceed 5 PSI.



Air Vacuum Orifice

| Pressure at Valve Inlet During Draining | Air Inflow Rate, Standard Cubic Feet/Min (SCFM) | | | | |
|---|---|------|-----|-----|------|
| | 1/2" | 3/4" | 1" | 2" | 3" |
| -1 PSIG | 20.0 | 45.2 | 80 | 320 | 721 |
| -2 PSIG | 28.3 | 63.9 | 113 | 453 | 1020 |
| -3 PSIG | 34.7 | 78.3 | 138 | 555 | 1250 |
| -4 PSIG | 40.1 | 90.4 | 160 | 641 | 1440 |
| -5 PSIG | 44.9 | 101 | 179 | 716 | 1610 |

Value is rate at which air is drawn into the valve at negative pipeline/system pressure shown. Multiply SCFM air inflow rate x 7.48 to convert to equivalent pipeline/system liquid draining rate in USGPM.

Air Release Orifice

| Pressure At Valve Inlet | Air Release Orifice Venting Rate, Standard Cubic Feet/Min (SCFM) | |
|-------------------------|--|---------------|
| | Figure 950-T | Figure 950H-T |
| | 1/2" to 3" | 1/2" to 3" |
| 10 PSI | 2.2 | 1.0 |
| 15 PSI | 2.6 | 1.2 |
| 25 PSI | 3.5 | 1.6 |
| 50 PSI | 5.8 | 2.6 |
| 75 PSI | 8.0 | 3.6 |
| 100 PSI | 10.2 | 4.5 |
| 150 PSI | 14.7 | 6.5 |
| 200 PSI | | 8.5 |

Installation Dimensions

| SIZE | 1/2" | 3/4" | 1" | 2" | 3" |
|------------------------------------|------|------|----|-----|-----|
| A | 7% | 7% | 7% | 9% | 10% |
| B | 7% | 7% | 7% | 9 | 10% |
| C | 4 | 4 | 4 | 5% | 6% |
| D | 4 | 4 | 4 | 5 | 8 |
| E | 9% | 9% | 9% | 11% | 13% |
| Valve Weight | 15 | 15 | 15 | 25 | 45 |
| Add for Inlet Isolating Ball Valve | 2 | 2 | 2 | 8 | 20 |

- Dimensions in inches, weight in pounds.
- Inlet isolating valve is lever operated bronze ball valve
- All dimensions and weights are approximate. If critical request certified drawings