# **Figure 933-T** Well Service Air & Vacuum Valve with Double Acting Throttle Device

### Description

GA Industries Figure 933-T Air & Vacuum Valves are typically installed between a turbine pump and its check or pump control valve. The Figure 933-T efficiently vent airs from the turbine pump column at pump start and admits air into the column at pump shutdown.

The Figure 933-T includes a specially designed double acting throttle device to allow an adjustable, regulated air venting rate but unrestricted air admission.

The valve only has one moving part and it's simple construction ensures dependable, long term operation.

### **Product Features**

- · Compact and light weight
- · Adjustable, regulated air discharge rate
- · Unrestricted air inflow rate
- Utilizes "kinetic" operating principle, designed not to blow shut
- · Rugged iron body and cover
- · Corrosion resistant Type 316 stainless steel float
- · Tight sealing and easily replaceable rubber seat

#### **Standard Materials**

- Body & Cover
  Cast Iron, ASTM A126 Class B
- Float Stainless Steel, Type 316
- Replaceable Seat Buna-N
- External Fasteners Steel, A307, Zinc Plated

#### Coating

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

Non-Shock Working Water Pressure at up to 150F (66C)			
Figure No.	933-T		
Standard Connections	NPT		
Inlet Size	1⁄2" to 3"		
Outlet Size	Same as Inlet		
Working Pressure	10-300 PSI		
Pressure Rating	300 PSI		
Hydro Test	450 PSI		



# Data Sheet 933.01B



## **Approvals & Certifications**

· Complies with AWWA Standard C512

#### **Options/Accessories**

- Option IV Inlet Isolating Valve lever operated bronze ball valve
- Option P2 316 Stainless Steel external fasteners and internal/external Carboline 891 NSF-61 certified 2-part epoxy, 6 mil DFT

## **Ordering Data**

- Figure Number (933-T)
- Size
- Options/Accessories



# Figure 933-T Well Service Air & Vacuum Valve with Double Acting Throttle Device

# Data Sheet 933.01B

Pressure at Valve	Max Air Outflow Rate, Throttle Device Fully Open Standard Cubic Feet/Min (SCFM)				
Inlet	1/2"	<sup>3</sup> ⁄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 maximum rate at which air can be vented from pump column at pressures shown. Multiply SCFM air venting rate x 7.48 to convert to equivalent liquid filling rate in USGPM.

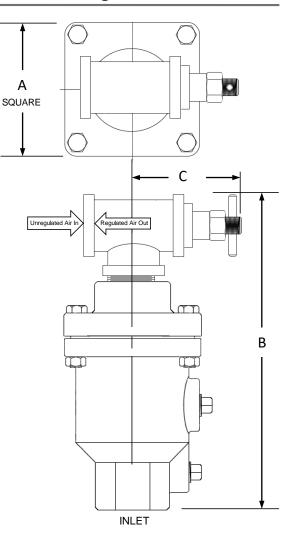
Pressure	Air Inflow Rate, Standard Cubic Feet/Min (SCFM)				
at Valve Inlet	1⁄2"	<sup>3</sup> /4"	1"	2"	3"
-1 PSIG	20.0	45.2	80	320	721
-2 PSIG	28.3	63.9	113	453	1020
-3 PSIG	34.7	78.3	138	555	1250
-4 PSIG	40.1	90.4	160	641	1440
-5 PSIG	44.9	101	179	716	1610

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.

#### Installation Dimensions

SIZE	<sup>1</sup> /2", <sup>3</sup> /4", 1"	2"	3"
A	33⁄8"	5¾"	6¾"
В	10¾"	13½"	17½"
C (Min/Max)	41⁄2"/61⁄2"	5¾"/8¾"	8"/12¼"
D	4"	5"	8"
E	9¾"	11¼"	10½"
Valve Weight	15 lbs.	28 lbs.	50 lbs.
Add for Inlet Ball Valve	2 lbs.	8 lbs.	20 lbs.

All dimensions and weights are approximate. If critical request certified drawings



#### INLET ISOLATING LEAD FREE BRONZE BALL VALVE

