

## AFD-50 Automatic Float Drain

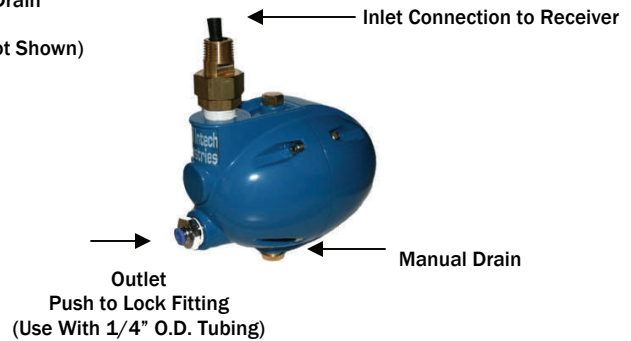
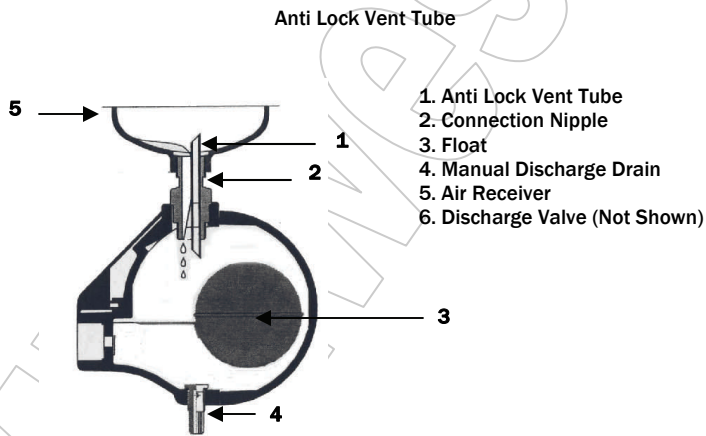


### Features

- Ideal for Applications When Electricity Is Not Available
- Capacity Up to 200 Gallons/HR
- Working Pressure: 300 PSI
- Working Temperature: 200°F
- Die Casting Aluminum Body, Powder Coated
- Stainless Steel Float Ball & Hardware
- 1/2" NPT Female Inlet and Outlet Connection
- Requires 9" Clearance Below Reservoir to Be Properly Installed
- Equipped With "Anti Air Lock" Vent Tube  
**Discharges Condensate " Not Air "**

### Principal of Operation

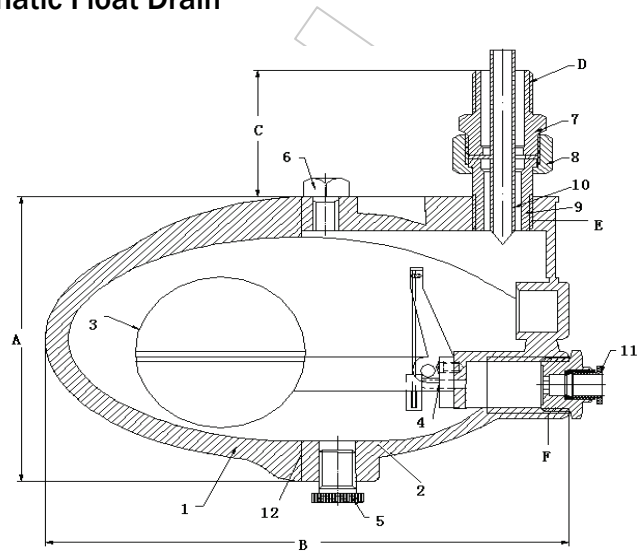
As Condensate Collects in the Air Receiver, It Will Drain Into the AFD-50 Tank Drain, Flow Beside the Vent Tube and Accumulate In the Drain Reservoir. The Liquid Will Rise and Begin to Float the Ball and Force Air Out Through the Tube and Into the Receiver. Rising Liquid Level Will Cause the Float to Open the Discharge Valve, Expelling the Liquid. As the Float Returns to the Low Position the Valve Closes and the Cycle is Repeated. Each AFD-50 is Equipped with An "Anti Air Lock" Vent Tube Which Prevents Loss of Compressed Air .



Part No.	Inlet Size (In)	Outlet Size (In)	Pressure
AFD-50	1/2"	1/2"	300 PSI

## AFD-50 Automatic Float Drain

Part No.	Description	Material	Qty
1	Body	Aluminum	1
2	Cap		1
3	Float Ball Kit	Stainless Steel	1
4	Discharge Valve	Rubber	1
5	Manual Drain	Brass	1
6	Vent Valve		1
7	Inlet Fitting		1
8	Union Nut		1
9	Fitting		1
10	Anti Lock Vent Tube	Rubber	1
11	Outlet Fitting Push to Lock	Brass	1
12	O-Ring (Manual Drain)	Rubber	1
13**	Body Connection Screw	Steel	4
14**	Body Connection Nut		4



### Dimensions

A	4.56"	D	1/2" x 1/2" Male NPT (Connects Directly to Receiver)
B	6.30"	E	1/2" Female NPT
C	1.89"	F	1/2" Female NPT (Connection From Drain Body)

\*\*Part Nos. 13 & 14 Not Shown  
Inlet Fitting " Anti Air Lock " Vent Tube " Consists of Part No. 7, 8 & 9

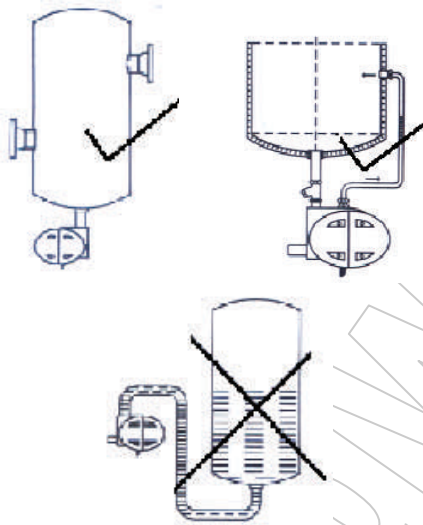


Diagram No. 2

### Maintenance

**Bleed Air From Receiver Prior to Opening the Manual Drain**

**Do Not Use Solvent to Clean Rubber Parts**

#### Weekly

- Open the Manual Drain Carefully and Allow the Water to Flow Out
- If More Than .13 Gallons Of Condensate Is Present the AFD-50 Drain Must Be Cleaned

#### Annually

- Disassemble Drain and Clean All Components

### In-

### stallation

- Prior to Installation, Blow Clean Compressed Air Through the Piping to Clean Out Any Impurities Within the System.
- Install the AFD-50 Below the Receiver, Or the Receiver Will Fill Up With Condensate.
- Install the " Anti Air Lock " Vent Tube to Allow Air Equalization.
- Do **NOT** Add Any Additional Pipe Fittings to the " Anti Air Lock " Vent Tube.
- Additional Venting Maybe Be Required With the Use of a Strainer. See diagram # 2. The Strainer Line Should be Piped Directly Into the Item #6 , the Vent Valve. The Anti Lock Vent Tube Should be Piped Above the Bottom Level of the Receiver to Ensure Equalization.