

Installation Guide for the AFD-50 Zero Air Loss Automatic Float Drain



Connection Size	Max. Pressure	Drain
1/2" FPT	300 PSI	AFD-50



WARNING: Read carefully and understand all ASSEMBLY AND OPERATION INSTRUCTIONS before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

Intended Use

The function of this drain is to remove condensation from compressor air filters.

Important Safety Information

- The warnings, cautions, and instructions in this manual cannot cover all possible conditions or situations that could occur. Exercise common sense and caution when using this product. Always be aware of the environment and ensure that the product is used in a safe and responsible manner.
- Do not allow persons to operate or assemble the drain until they have read this manual and developed a thorough understanding of how it works.
- Do not modify this drain in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the product.
- There are certain applications for which this drain was designed. DO NOT use this equipment for a purpose for which it was not intended.
- Industrial or commercial applications must follow OSHA requirements

Personal Safety Information

- Keep children and bystanders away from the work area while operating the drain. Do not allow children to handle the condensate drain.
- Be aware of all power lines, electrical circuits, water pipes, and other mechanical hazards in your work area. Some of these hazards may be hidden from your view and may cause personal injury and/or property damage if contacted.
- Stay alert, watch what you are doing, and use common sense when operating the drain. Do not use the drain while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating the tool may result in serious personal injury.
- Dress properly. Do not wear loose clothing, dangling objects, or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts. Air vents on the tool often cover moving parts and should be avoided.
- Wear the proper personal protective equipment when necessary. Use ANSI Z87.1 compliant safety goggles (not safety glasses) with side shields, or when needed, a face shield. Use a dust mask in dusty work conditions. Also use non-skid safety shoes, hardhat, gloves, dust collection systems, and hearing protection when appropriate. This applies to all persons in the work area.
- Do not overreach. Keep proper footing and balance at all times.
- Remove keys or wrenches before connecting the drain to an air supply, power supply, or turning on the tool. A wrench or key that is left attached to a rotating part of the tool may cause personal injury.

Save These Instructions

Installation the AFD-50 Condensate Drain

Installation

- Prior to installation, blow clean compressed air through the piping to clean out any impurities within the system
- Install the AFD-50 below the filter drain port
- Bleed air from filter drain prior to opening the AFD drain
- Install the anti-lock vent tube to allow air equalization
- Do **NOT** add any additional pipe fittings to the anti-air lock vent tube

Maintenance

Maintain the condensate drain by adopting a program of conscientious repair and maintenance in accordance with the following recommended procedures. It is recommended that the general condition of any drain be examined before it is used. Keep your drain in good repair. The following chart is based on a normal operation schedule. Release all pressurized lines to atmosphere prior to performing maintenance.

Maintenance Interval

Maintenance Point

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

Yearly

Disassemble drain and clean all components
Do not use solvent to clean rubber parts

Limited Warranty

Midwest Control ("we" or "us") warrants to the purchaser only ("you" or "your") that the AFD-50 Drain Valve product purchased will be free from material defects in both materials and workmanship, normal wear and tear expected, for a period of one year from date of purchase. The foregoing warranty is valid only if the installation and use of the product is strictly in accordance with product instructions. There are no other warranties, express or implied, including the warranty of merchantability or fitness for a particular purpose. If the product does not comply with this limited warranty, your sole and exclusive remedy is that we will, at our sole option and within a commercially reasonable time, either replace the product or product component without charge to you or refund the purchase price (less shipping). This limited warranty is not transferable.

This limited warranty does not cover: (a) normal wear and tear; (b) damage through abuse, neglect, misuse, or as a result of any accident or in any other manner; (c) damage from misapplication, overloading, or improper installation; (d) improper maintenance and repair; and (e) product alteration in any manner by anyone other than us, with the sole exception of alterations made pursuant to product instructions and in a workmanlike manner. You must retain your product purchase receipt to verify date of purchase and that you are the purchaser. To make a warranty claim, contact us at 1-800-304-5599, identify the product by make and model number, and follow the claim instructions that will be provided. The product and the purchase receipt must be provided to us in order to process your warranty claim. Any returned product that is replaced or refunded by us becomes our property. You will be responsible for return shipping costs or costs related to your return visit to a retailer.

Product replacement or a refund of the purchase price is your sole remedy under this limited warranty or any other warranty related to the product. We shall not be liable for: service or labor charges or damage to your property incurred in removing or replacing the product; any damages, including, without limitation, damages to tangible personal property or personal injury, related to your improper use, installation, or maintenance of the product or product component; or any indirect, incidental or consequential damages of any kind for any reason.

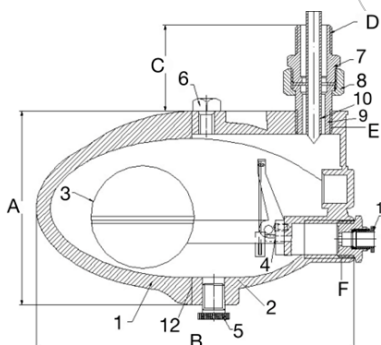


WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and reproductive harm. For more information go to www.P65Warnings.CA.gov

AFD-50 Zero Air Loss Automatic Condensate Float Drain

Principal of Operation

Condensate from the filter will flow beside the anti-lock vent tube and accumulate in the drain reservoir. As the condensate accumulates the liquid will cause the float to rise and force air out through the tube and discharge valve expelling the liquid. After the liquid is expelled the float will return to the low position and the discharge valve will close until the cycle is repeated. Each AFD-50 is equipped with an anti-air lock vent tube which prevents loss of compressed air.



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

Notes

1. Inlet fitting (anti-lock vent tube) consists of part nos. 7, 8 & 9
2. Outlet push to lock fitting (11) use with 1/4" O.D. tubing
3. Part nos. 13 & 14 Not shown (quantity four required)

Part No.	A	B	C	D	E	F	Wt. (lbs.)	Carton Qty
AFD-50	4.55	6.30	1.90	1/2"	1/2"	1/2"	3.09	12

Notes

D MNPT connection from owner's filter drain to AFD drain inlet
F FNPT connection to AFD drain discharge port