Cold Environments

In winter, condensate inside the drain housing can freeze. If this happens, the ball float and housing can be damaged, and the drain will not operate.

A heater is recommended in cold environments. Not using a heater in freezing temperatures will void the warranty.



110 V Heater Single Phase

220 V Heater Single Phase

Heater Installation

Install the heater in the lower side of the inlet, as shown below.



Warning: After installation use gloves to protect your hands from hot temperature when handing the heater.

Service Kits

- 1 Ball Float Kit
- 2 Air Chamber Kit
- 3 Diaphragm Kit
- 4 Discharge Kit
- 5 Test Button Kit
- O-Ring Kit (not pictured)



Warranty

Midwest Control warrants the ACT® Zero Air Loss Drain valve to be free from functional defects in material and workmanship for a period of 18 months from date of shipment or twelve months from date of installation, whichever occurs first. Within said period Midwest Control will repair or replace any part which is proven to be defective in either material or workmanship.

Troubleshooting

| Problem | Cause | Solution | |
|---------------------------|------------------------------|---|--|
| | No pressure | Check compressed air line for pressure | |
| No Condensate Draining | No condensate present | Re-install & check balance line | |
| | Air lines may be clogged | Clean and check lines | |
| | Worn parts | Replace as needed | |
| Leaks Continuously | Pilot line may be clogged | Clean pilot line | |
| | Worn parts | Replace as needed | |

Technical Data

| Inlet | Outlet | A | в | Wt. (Ibs.) |
|--------------|---|--|--|--|
| 1/2" | 3/8" | 4.03 | 7.55 | 2.43 |
| 3/4" | 1/2" | 4.96 | 8.73 | 4.45 |
| Temp (F) | Normal/ | Max Hp | | |
| 32°F - 140°F | 3/15 | 350 Hp | | |
| 32°F - 140°F | 6/30 | 100 Hp | | |
| | 1/2" 3/4" Temp (F) 32°F - 140°F | 1/2" 3/8" 3/4" 1/2" Temp (F) Normal/ 32°F - 140°F 3/15 | 1/2" 3/8" 4.03 3/4" 1/2" 4.96 Temp (F) Normal/ Max Hp 32°F - 140°F 3/15 350 Hp | 1/2" 3/8" 4.03 7.55 3/4" 1/2" 4.96 8.73 Temp (F) Normal/ Max Hp X 32°F - 140°F 3/15 350 Hp X |

Use the model number with the "C" suffix when ordering for oil free or oil less compressor applications.

| Available Pressure Settings | | | | | |
|--|-------------|------------------|--|--|--|
| Model No | Part Suffix | Pressure Setting | | | |
| ACT-1500L/ACT-1500LC ACT-2000L/ACT-2000LC | L | 11.6 - 43.5 psi | | | |
| ACT-1500N/ACT-1500NC ACT-2000N/ACT-2000NC | Ν | 43.5 - 145 psi | | | |
| ACT-1500H/ACT-1500HC ACT-2000H/ACT-2000HC | н | 145 - 230 psi | | | |
| ACT-1500Q/ACT-1500QC ACT-2000Q/ACT-2000QC | Q | 87 - 175 psi | | | |

ACT. Zero Air Loss Drain

For Compressed Air Systems

INSTALLATION GUIDE

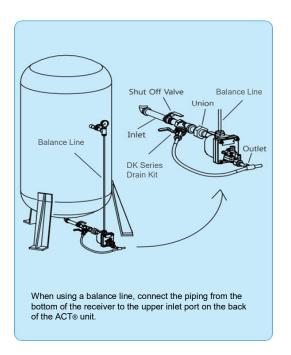
Please Read Prior to Installation

If you have any questions, please contact Midwest Control at 1-800-304-5599

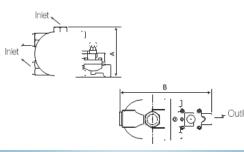


Recommended Installation with a Balance Line

Install a balance line (1/4" tubing or larger) to at least the center line of the vessel and down to the top inlet port of the drain. The balance line can be integrated into the gauge port with the use of a fitting. We recommend an isolation valve be installed on the top inlet port of the drain for maintenance ease. If the balance line is not installed properly the ACT® Zero Air Loss Drain will only work when the test button is manually activated.

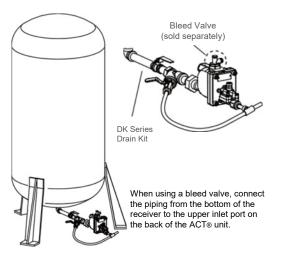


Diagram



Installation with a Bleed Valve

A bleed valve can be used when a balance line is not available. Install the bleed valve on the inlet port located on the top of the drain. Adjust the bleed valve until 3 to 5 bubbles per second are visible.



Installation Accessories



ACT-1525-50 for 1/2" Inlet ACT-1525-75 for 3/4" Inlet



It is highly recommended to install a Y-Strainer to prevent clogging and damage of the diaphragm, along with an isolation valve for ease of service.



The DK Drain Kit accessory includes all the components needed to prevent build-up of pipe scale and sludge from entering the drain and provides an easy solution for preventative maintenance.

DK-5038 for the ACT-1500 Series DK-7550 for the ACT-2000 Series

Visit www.Midwest-Control.com for complete details

Vertical Inlet Applications

The ACT® Zero Air Loss Drain can be mounted directly under the condensation source, without a balance line providing the piping does not use elbows or pipe bends.

This configuration is typically used for filters, separators, and drip legs.



CAUTION: Each condensate source should have a separate drain. Do not pipe condensation sources in parallel.



CAUTION: The ACT® Zero Air Loss Drain should always be installed in a horizontal position.



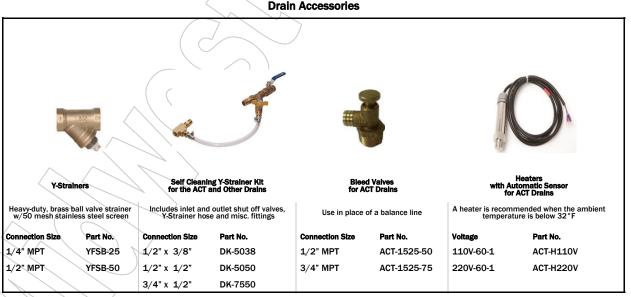
CAUTION:

There is always pressure in the ACT® Drain reservoir. Prior to conducting maintenance, isolate the drain, then press the test button to release the pressure from the drain.

midwest control an intech industries company

ACT Zero Air Loss Condensate Drains

Fully automatic. No timer to set. No electricity needed. As the condensate level builds the drain will automatically open and expel the water without losing valuable compressed air. Ideal for use on all compressed air components including air receivers, filters, dryers, separators and drip legs. Available in 2 sizes for air compressors up to 350 Hp and 1000 Hp. . No Electricity Required for Operation Maximum Temperature: 140°F Ideal for Portable and Hazardous Applications Manual Test Button Available in 4 Pressure Ranges Patented Design . 5mm Orifice ACT-1500 Series 1-Year Warranty 7mm Orifice on ACT-2000 Series ACT Lubricated Drain ACT OII-Less and OII-Free Drain Lubricated **OII-Less and OII-Free** Lubricated **OIHLess and OIHFree** Air Compressors UP to 350 Hp 2" Inlet x 3/8" Outlet Compressors UP to 350 Hp /2" Inlet x 3/8" Outlet Air Compressors Up to 1000 Hp 3/4" Inlet x 1/2" Outlet Compressors Up to 1000 Hp " Inlet x 1/2" Outlet 1/2" 3/4 Pressure Range (psi Part No. Part No. Part No. Part No. 11.6 - 43.5 ACT-1500L ACT-1500LC ACT-2000L ACT-2000LC 43.5 - 145 ACT-1500N ACT-1500NC ACT-2000N ACT-2000NC 87 - 175 ACT-1500Q ACT-1500QC ACT-2000Q ACT-2000QC 145 - 230 ACT-1500H ACT-1500HC ACT-2000H ACT-2000HC

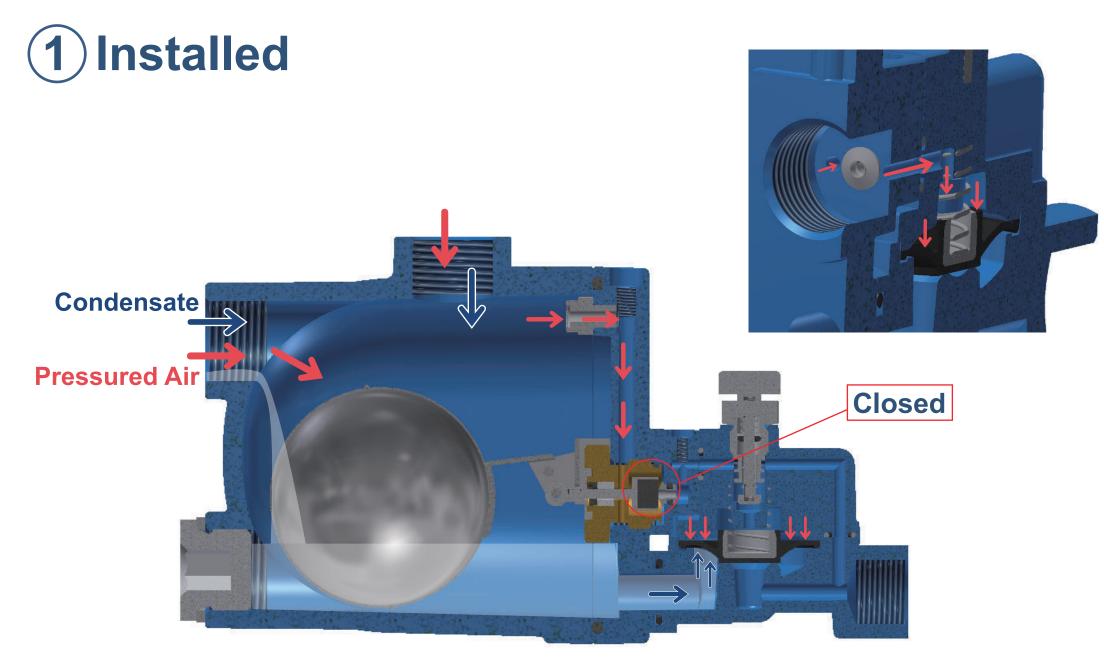


Notes

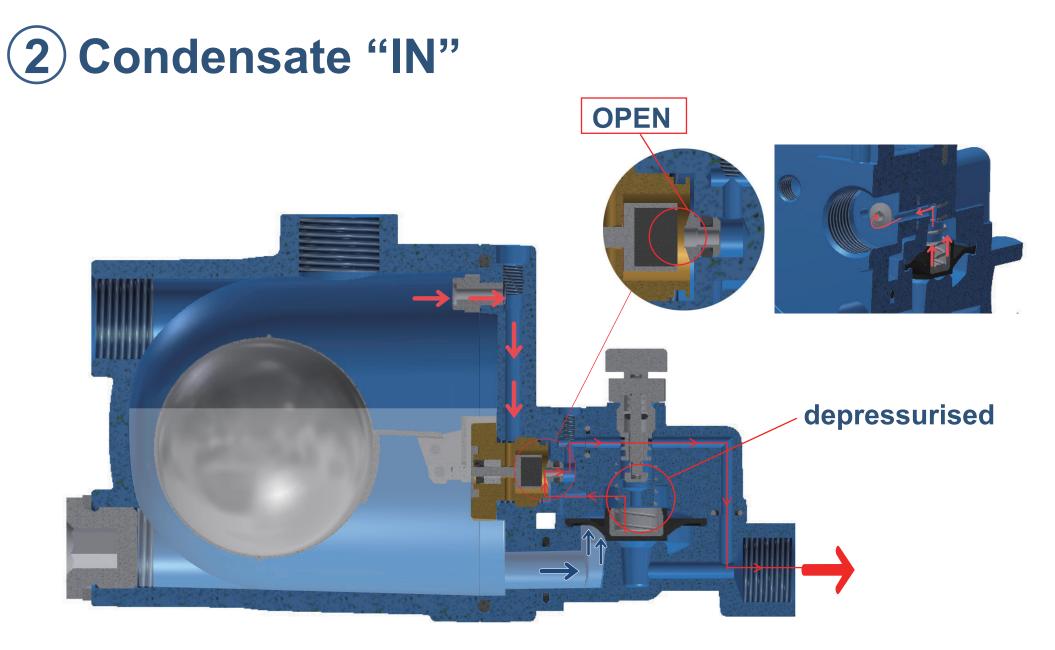
1. The use of a ball valve strainer is required on the ACT drains for removal of debris, pipe scale and sludge, allowing the drain to operate more reliably

2. The ACT-1500 series has a 1/2" FPT inlet and a 3/8" FPT outlet 3. The ACT-2000 series has a 3/4" FPT inlet and a 1/2" FPT outlet





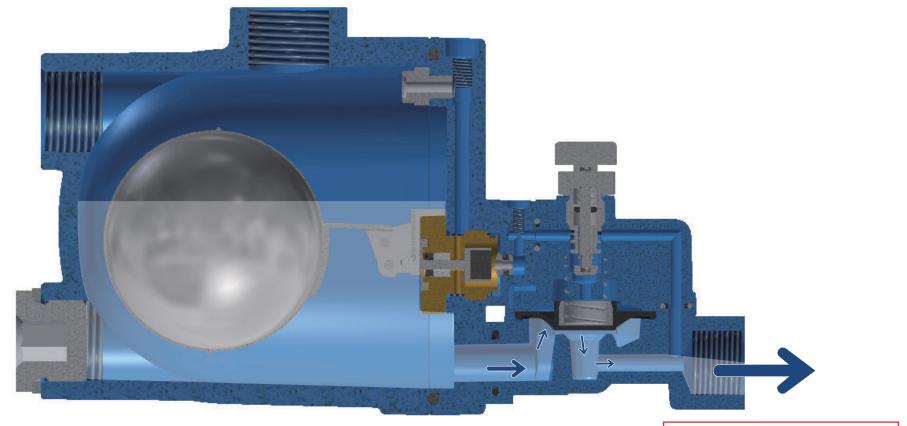








3 Open



Condensate out





(4) Closed

