



# Installation Instructions

Purge Nut Kit  
Piece No. 5013824

Bendix® Cyclone DuraDrain™ trailer water separator

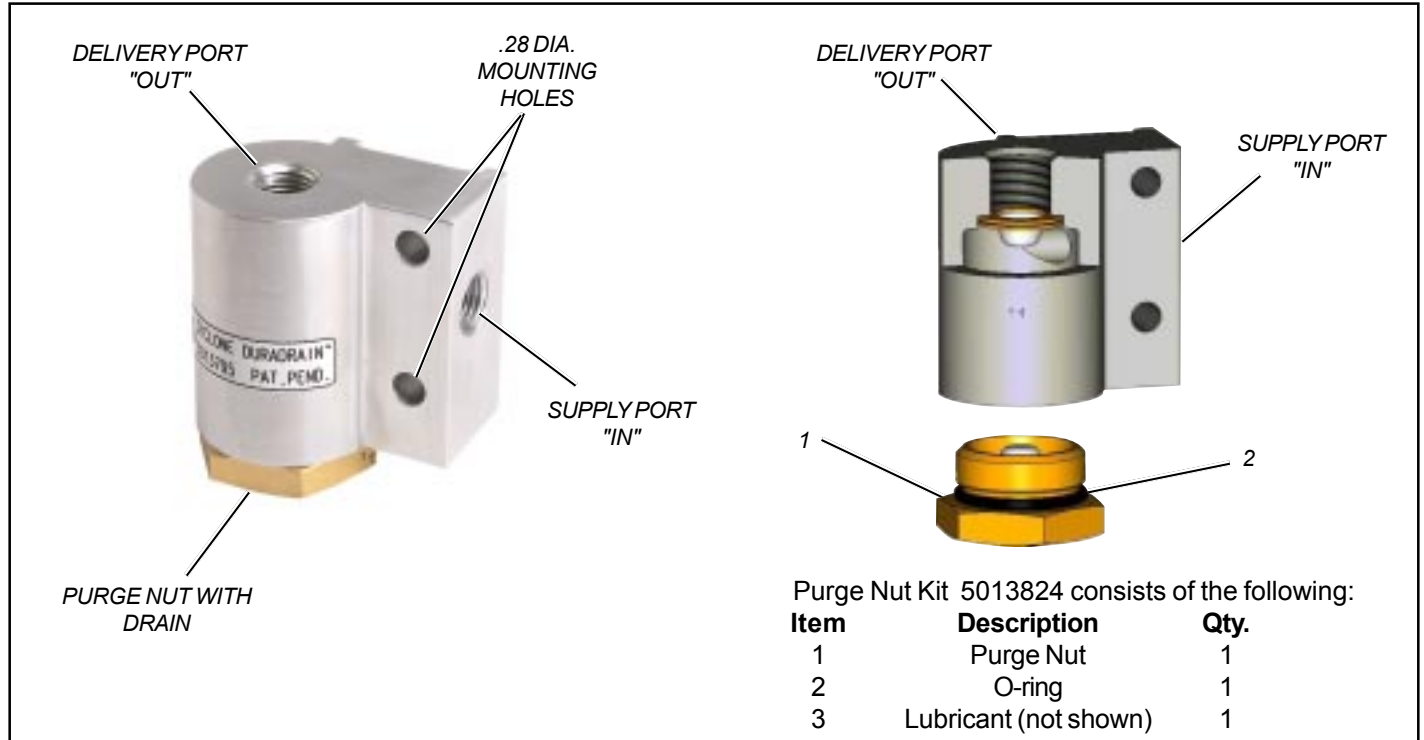


Figure 1 - Bendix® Cyclone DuraDrain™ trailer water separator

## **WARNING! PLEASE READ AND FOLLOW THESE INSTRUCTIONS TO AVOID PERSONAL INJURY OR DEATH:**

When working on or around a vehicle, the following general precautions should be observed at all times.

1. Park the vehicle on a level surface, apply the parking brakes, and always block the wheels. Always wear safety glasses.
2. Stop the engine and remove ignition key when working under or around the vehicle. When working in the engine compartment, the engine should be shut off and the ignition key should be removed. Where circumstances require that the engine be in operation, **EXTREME CAUTION** should be used to prevent personal injury resulting from contact with moving, rotating, leaking, heated or electrically charged components.
3. Do not attempt to install, remove, disassemble or assemble a component until you have read and thoroughly understand the recommended procedures. Use only the proper tools and observe all precautions pertaining to use of those tools.
4. If the work is being performed on the vehicle's air brake system, or any auxiliary pressurized air systems, make certain to drain the air pressure from all reservoirs before beginning ANY work on the

vehicle. If the vehicle is equipped with an AD-IS™ air dryer system or a dryer reservoir module, be sure to drain the purge reservoir.

5. Following the vehicle manufacturer's recommended procedures, deactivate the electrical system in a manner that safely removes all electrical power from the vehicle.
6. Never exceed manufacturer's recommended pressures.
7. Never connect or disconnect a hose or line containing pressure; it may whip. Never remove a component or plug unless you are certain all system pressure has been depleted.
8. Use only genuine Bendix® replacement parts, components and kits. Replacement hardware, tubing, hose, fittings, etc. must be of equivalent size, type and strength as original equipment and be designed specifically for such applications and systems.
9. Components with stripped threads or damaged parts should be replaced rather than repaired. Do not attempt repairs requiring machining or welding unless specifically stated and approved by the vehicle and component manufacturer.
10. Prior to returning the vehicle to service, make certain all components and systems are restored to their proper operating condition.

## DESCRIPTION

This kit is used to replace the purge nut assembly of the Cyclone DuraDrain™ trailer water separator. This kit can be installed without disconnecting the air lines and without removing the Cyclone DuraDrain™ trailer water separator. See Figure 1 for serviceable components.

## REMOVAL

Locate the Cyclone DuraDrain™ trailer water separator on the trailer. Inspect for broken or damaged components and repair or replace as necessary.

1. Remove the 1<sup>3</sup>/<sub>8</sub>" hex purge nut assembly(1) with o-ring (2) from the bottom of the Cyclone DuraDrain™ trailer water separator.
2. Discard the assembly.

## INSTALLATION

Use the contents of this kit to service the purge nut.

1. Clean the cavity of the Cyclone DuraDrain™ trailer water separator removing any contaminates. If necessary disconnect the air lines from the Cyclone DuraDrain™ trailer water separator and remove. Mark the air lines before disconnecting. Clean by blowing shop air pressure into the supply and delivery ports.
2. Apply a small amount of lubricant(3) to the o-ring and place it into the o-ring groove of the purge nut assembly(1).
3. Install the 1<sup>3</sup>/<sub>8</sub>" hex purge nut assembly(1) into the body of the Cyclone DuraDrain™ trailer water separator and torque to 150 in-lbs.
4. If removed, reconnect the air lines and secure to the trailer.

## OPERATIONAL AND LEAKAGE TESTS

Connect the tractor air lines to the trailer to be tested. Block all wheels or hold the vehicles by means other than the air brakes.

### Supply Line (Emergency)

1. Build tractor and trailer to full system pressure by placing the park control valve and the trailer air supply valve in the charge position.
2. When full system pressure is reached, and the spring brakes are fully released, apply a soap solution to the supply and delivery ports of the Cyclone DuraDrain™ trailer water separator. A 1" bubble in 5 seconds is permissible.

### Control Line (Service)

1. Build tractor and trailer to full system pressure by placing the park control valve and the trailer air supply valve in the charge position.
2. When full system pressure is reached, and the spring brakes are fully released, apply a soap solution to the supply and delivery ports of the Cyclone DuraDrain™ trailer water separator. Apply the brakes and check for leaks. A 1" bubble in 5 seconds is permissible.