



ROBO DRAIN

Why They're Superior to Drain All Products

In recent competitive situations we have learned that Drain All utilizes two different float and actuators for oily condensate drain applications and their standard offering.

What is significant about the two drains and our Robo drain. First we have over 40,000 drains in operation throughout the US and Europe without any failures due to oily condensate and the idea that we would need a different approach to oily condensate is a problem only associated with the Drain All products. Robo Drain's unique design of a horizontal drain with a float mechanism and trigger block that are mounted in the top of the drain away from the oily condensate net a long trouble free life with minimal maintenance.

The Drain All product is a vertical drain with a float mechanism that rides along a stem and is susceptible to the float and stem accumulating residual oil resulting in periodic failures. Those mechanical failures have led them to change the design specific for oily condensate and is only unique to their brand of drains.

We have applications in the automotive industry where we are processing 100% oil. The notion that all drains have the same problems associated with one another is simply not true and are more specific to the manner in which they are designed. Currently we have had no known issues that would force us to design an alternative for oily applications.



FEATURES & BENEFITS

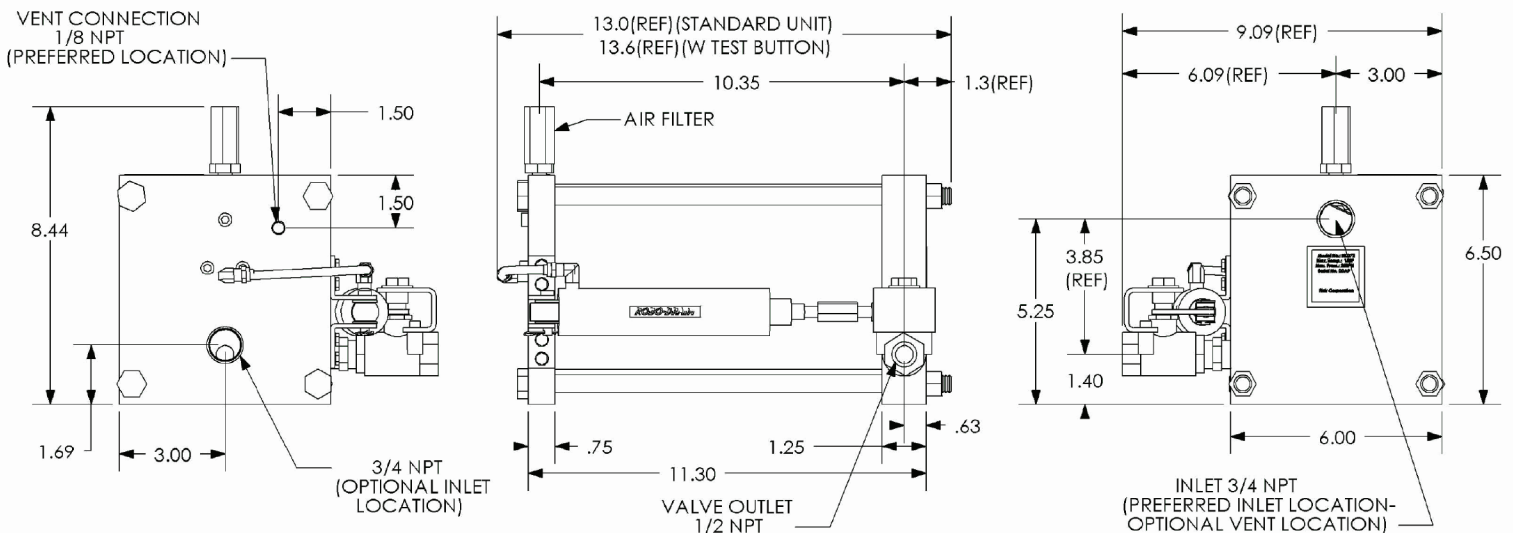
- See-Through Vessel
- No Wasted Air
- Ball Valve Stem Support System
- Non-Clogging Ball Valve
- Operates On Demand
- Fully Pneumatic
- Low Profile
- Ideal for Oil/Water Separators
- No Strainers to Clean
- Made in U.S.A.

DESIGN

The **ROBO DRAIN** is the ultimate demand operated drain. The unit is fully automatic, no electricity is required. Its low profile gives you the advantage of installing it in areas where the vessel to be drained is only a few inches from the ground. The **ROBO DRAIN's** design also eliminates the need for the installation of a vent line for most applications. A unique air valve design uses a magnetic force to ensure both a positive opening and closing that will prevent any air loss. The magnetic force is cleverly positioned away from the condensation level to prevent any attraction of metal particulate. An innovative ball valve support and positioning system prevents the side-loading problem which otherwise would cause premature sealing failure around the valve stem. Rifle drilled discharge porting ensures that scale and rust will exit through a full ported 1/2" ball valve. The **ROBO DRAIN** will not clog ----no strainer required.

OPERATION

Condensation enters through one of two ports. The see-through vessel allows visual inspection of the condensation as it rises. A stainless steel float rises with the level of condensation and positions a magnetic force over the valve housing. When the liquid level reaches the desired level, the magnet in the valve housing snaps upward and allows air to pass through a stainless steel seat. The air then moves to a non-lubricated air cylinder causing it to extend and open the ball valve. Condensation, scale and rust particles rapidly exit the unit. Before any air is lost, the float removes the magnetic force from the valve and the seat is covered with a Viton seal. A powerful spring returns the air cylinder to its normal position and rotates the positive closing ball valve back to its normally closed position. The pilot air used to actuate the air cylinder is isolated from the air in the drain's reservoir.



SPECIFICATIONS

Inlets: (2) 3/4" NPT **Outlet:** 1/2" NPT **Power:**
Clean, Dry Compressed Air 80 to 130 PSI
Pressure: 0 to 250 PSI **Operating Temperature:**
32° to 180° F. **Weight:** 16 lbs. **Discharge:** 24
Ounces per cycle.

MATERIALS

Reservoir: Aluminum and Composite
Valve: Bronze w/SS. Ball and Stem
Float: Stainless Steel **Seat:** Stainless
Steel **Seal:** Viton

OPTIONS -Consult factory

All design specifications are subject to change without notice.



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