"Oil in Airlines" fix now available (ECO C161)

Description

10-3765A is an optional accessory kit which should be installed at any site experiencing problems with oil contamination in Platesetter air lines.

Some Platesetter sites are experiencing problems due to oil contamination of the compressed air supply. Oil mist may be captured by the existing filter array, however this shortens filter life. Worse problems occur when an accumulation of oil builds up in the lines and is then forced through the system as a single mass. Such a "slug" of oil can overwhelm the autodrains, saturate the filters, and then contaminate the entire pneumatic system of the Platesetter. This can cause many of the valves and actuators to fail and can result in expensive repair/replacement of components.

ECO C161 designates a dedicated oil trap system for Platesetter airlines. The oil trap uses a separator that removes entrained oil (and water) droplets and allows them to drain out of the airline. This device also incorporates an automatic shutoff and purge function triggered by any volume of fluid too large for the capacity of the autodrain.

The trap should be placed inline on a ½" NPT air line, upstream of the Platesetter on its dedicated air circuit. The services of a pipefitter will be required will be required to install the oil trap in this case. Alternately, if the air circuit to the Platesetter uses flexible tubing or hose, you may add fittings to connect the trap assembly yourself. You will have to determine which fittings are necessary on site.

The device also required 24VDC to operate. A standard wall mount, 120V AC adapter is included. Alternate adapters should be sourced locally to the install site should North American style outlets not be available. Adapter requirements are 24VDC @ (min.)150 mA

Originator

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Priority

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Urgent: perform action immediately on affected machines

Products affected

☑ All Platesetters

Machines/Sites affected

Any site with "oil in the airlines" problems.

Special tools and parts, or assistance

- plant pipefitter, plant electrician
- 10-3765A kit
- ½" NPT brass fittings if installed on flexible line

Steps

1. Determine a suitable location for the unit. Ideally this will be on a wall near the operator area, about 4 - 5 ft above floor level. If the air line is run higher, adding a drop leg for the oil trap will increase its efficiency. The farther upstream from the Platesetter, the more effective the purge function will be if triggered.

Also consider access to electrical outlets. 110VAC is required for the oil trap.

Alternately, if flexible line is used to the Platesetter, the oil trap can be installed using standard air fittings at the transition point between the hard and flexible air lines.

2. Have the plant pipefitter modify the existing air lines as required and install the unit, or use fittings suitable to the existing air hoses to install it in a flexible air line. To discourage anyone from bypassing the unit, do not use quick disconnect fittings upstream of the oil trap.

   Have the plant electrician install a 110VAC outlet as near to the unit as possible if AC is not already available.

3. Test for correct function:

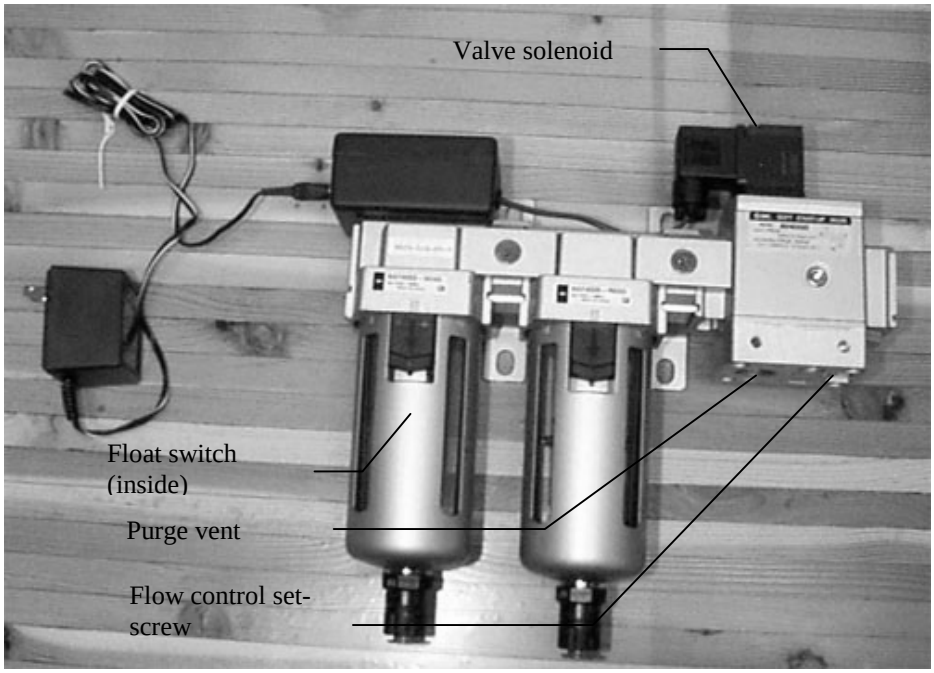
   a) Plug and unplug the power supply and listen for a click from the valve solenoid.

   b) With air and power off, remove the first filter bowl. Apply DC power and lift the float, again listening for operation of the solenoid.

   c) Replace the filter bowl and switch on the air. When you apply DC power the valve should open. When power is removed the valve will close, and will vent the downstream pressure through the port on the bottom. If the valve seems to open but does not permit air flow, check that the flow control setscrew on the underside is not seated. 1 1/2 tuns out is a good starting setting.

Pictures

(1)



(2)

