

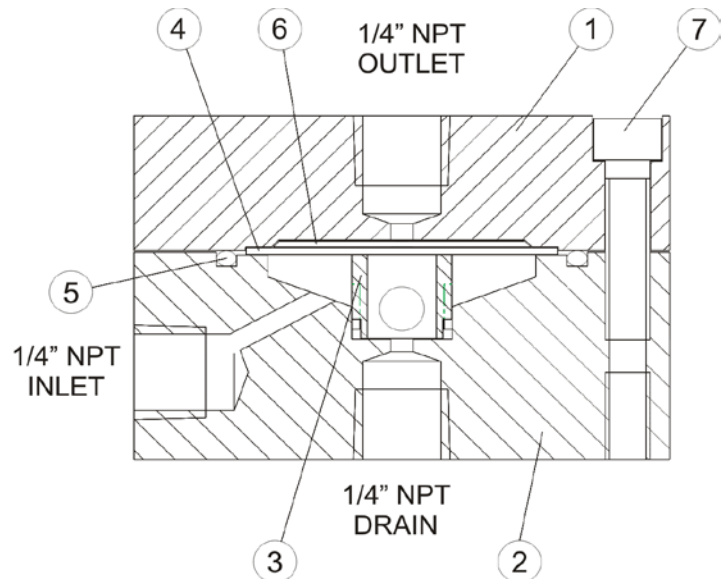
# Welker<sup>®</sup> Liquid Eliminator Model LE-2



## 1.1 Product description

The Liquid Eliminator is designed to provide a gas sample free of entrained liquid.

Specifications	
Products	Gases/Liquids
Materials of Construction	316 Stainless Steel, Viton <sup>®</sup> (others available)
Sample Outlet Connections	¼" FNPT Standard
Sample Inlet Connection	¼" FNPT Standard
Maximum Allowable Temperature*	400° F @ 1030 psi (204° C @ 71 bar)
Maximum Allowable Pressure*	1440 psi @ -20° F to 100° F (99 bar @ -29° C to 37° C)



## 1.2 Installation instructions

- 1.2.1 Make sure all eight cap screws are tightened on the device.
- 1.2.2 Connect gas connection to the inlet port.
- 1.2.3 Connect the instrument to the outlet port.
- 1.2.4 Connect the drain port to a device that will collect the sample's excess liquid. The device should comply with the unit's maximum allowable pressure.

### **N** NOTE

If the drain port will not be used, thread a valve into the port.

### **N** NOTE

When sealing fittings with PTFE tape, refer to the proper sealing instructions for the tape used.

Part No.	Description
1	Cap
2	Separator body
3	Thread insert
4	Copolymer filter element
5	O-Ring
6	Screen
7	Hex sock. cap screw 1/4-20 x 1"

## 1.3 Maintenance

**We recommend that the unit have annual maintenance under normal operating conditions. In the case of severe service, dirty conditions, excessive cycling usage or other unique applications that may subject the equipment to unpredictable circumstances, a more frequent maintenance schedule may be appropriate.**

### **N** NOTE

To ensure that the liquid eliminator will function properly, all maintenance should be done on a clean surface and with clean equipment.

- 1.3.1 Close the gas connection valve to cut off supply to the inlet port.
- 1.3.2 Open the drain valve to bleed off any pressure inside the liquid eliminator.
- 1.3.3 Remove all tubing and fittings from the inlet port, outlet port and drain.
- 1.3.4 Loosen the eight screws (Part 7) from the cap itself (Part 1).
- 1.3.5 Remove the cap.
- 1.3.6 Remove the screen (Part 6) and filter element (Part 4).
- 1.3.7 Use a pick or small knife to remove the O-ring (Part 5).
- 1.3.8 Use a solvent to wipe and clean the inside of the liquid eliminator.
- 1.3.9 Use Dow Corning 111 (DC 111) grease or equivalent lubricant to lightly grease the O-ring.

### **N** NOTE

When cleaning, make sure there is no residue left in the liquid eliminator or on the O-ring, as this can prevent the unit from functioning properly when pressure enters the device.

- 1.3.10 Replace the O-ring.
- 1.3.11 Replace the filter element onto the center of the inside of the liquid eliminator.
- 1.3.12 Replace the screen onto the center of the element.
- 1.3.13 Align the cap with the liquid eliminator body so that the eight screws (Part 7) can be replaced.
- 1.3.14 Cross-bolt the eight screws into the cap itself.



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