

PRODUCT INFO: FLOW METERS

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RECEIVING & HANDLING

ESKO Meters are packaged to prevent damage during shipment. ESKO recommends that customers do not accept packages damaged in transit. No special handling or precautions are otherwise required for ESKO meters.

INSTALLATION - prior to installation, verify the model and flow range.

ESKO flow meters (not including oval gear meters) are always **INSTALLED VERTICALLY**. Fluid **FLOW** is **from the inlet at the bottom** (or bottom rear) **to the top** (or top rear). The meters may be panel mounted or installed directly in-line with various fitting options. There are no straight run restrictions on the inlet and outlet.

MAINTENANCE/CLEANING - periodic cleaning is required when:

1. The metering tube becomes **contaminated** with a build up and the float is difficult to see, or float movement is restricted.
2. Leaking occurs due to **deteriorating O-rings** from normal aging and/or material degradation from chemical additives in the flow media.
3. The meter is **damaged**.

BEFORE SERVICE

ALWAYS ISOLATE the meter before attempting any service of the meter. USE **CAUTION** as the fluid inside the lines may be hazardous, hot and/or under pressure. Consult Material Safety Data Sheets for handling procedures and cautions for the flow media.

CLEANING

Remove the top plug and float and clean the metering tube with a conical brush (test tube brush) using mild liquid detergent (such as dish soap) only. Rinse all parts with clean water and dry using forced air. **DO NOT USE ALCOHOL** based solvents or industrial cleaners on Acrylic, Trogamid or Grilamid.

O-RING SEALS LIFE

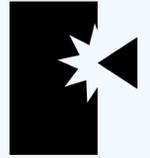
O-rings, typically made of nitrile rubber, have a **life span of 5-7 years** during which time they may harden and become increasingly brittle. Disassembly, cleaning or other service may also cause seepage or leaks. O-ring **replacement is recommended** every 5 years whether the meter is in operation or in storage. Replacement O-ring kits are available.

REPLACING O-RINGS/REASSEMBLY

When **OPENING** flow meters, work carefully and **DO NOT USE SHARP INSTRUMENTS** to remove or replace O-rings.

When **REASSEMBLING**, ensure that both the O-rings and the O-ring seats are **CLEAN**. Very small particles (such as hair or grit) can cause the O-ring seal to leak. To **LUBRICATE** O-rings, a small amount of grease can be applied during reassembly.

VALVE ASSEMBLIES - In valves where an O-ring groove has been machined into the valve assembly, scratches caused by a sharp instrument may result in a leak. Valves with scratched O-ring seal surfaces will need to be replaced with a new valve assembly.



Replacement
O-ring kits are
available.



Alcohol and
solvents can
damage tubes.



When ordering
spare parts,
please specify
the complete
model number
of the flow
meter.