Genie Probe Regulator (GPR)/ Genie Membrane Probe (GP2)/ **Genie Membrane Probe for** Composite Sampler (CSA)/ And Housing (Model H)

## Installation and Operation Instructions



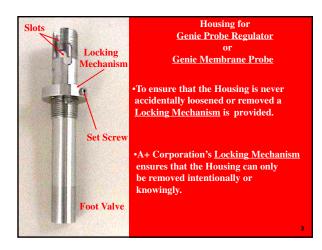
41041 Black Bayou Rd, Gonzales, Louisiana, USA 70737 Phone (225) 644-5255 FAX (225) 644-3975 www.geniefilters.com

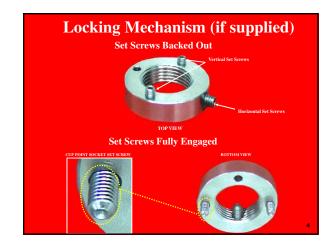
sales@geniefilters.com

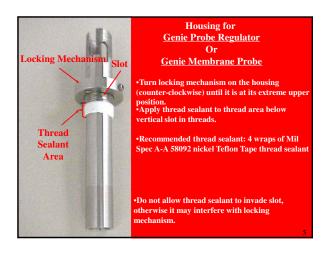
Revision 0514

## Caution:

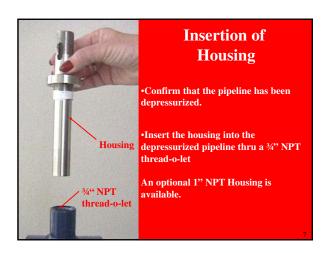
- Not designed for external fire.
- Prior to use in a system, a properly sized relief device is to be installed which limits the use to 110% of the MAWP.

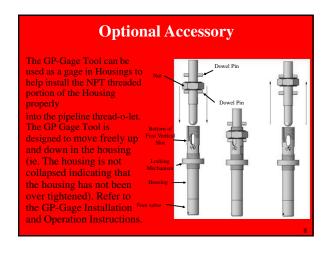


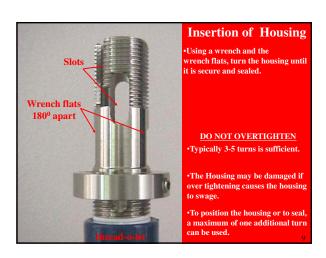


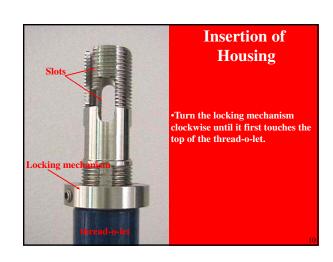


# **Mounting Orientation** Vertical (preferred), or 45° maximum angle relative to vertical required

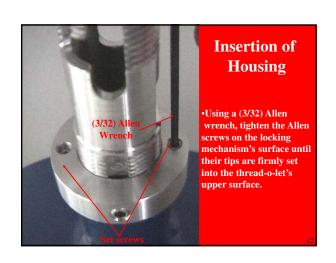




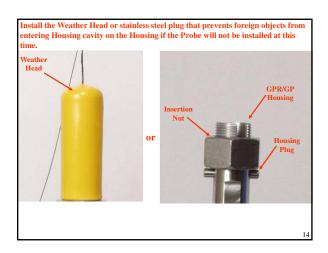




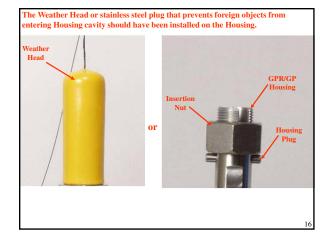


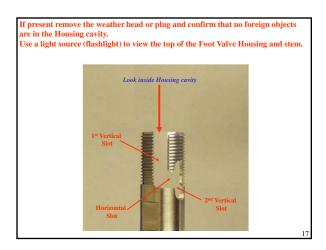


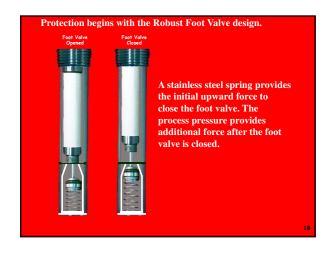




## GPR/GP2 Probe Insertion





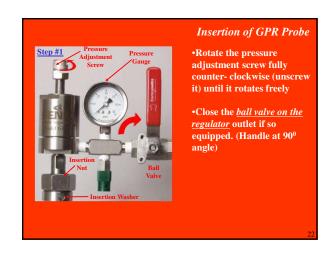


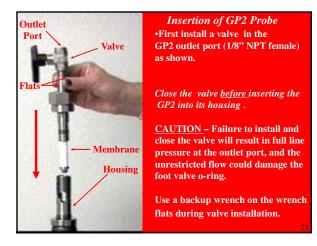


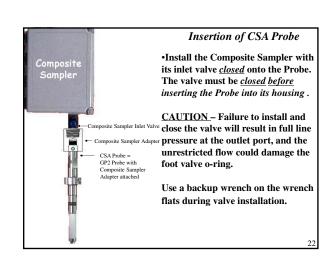


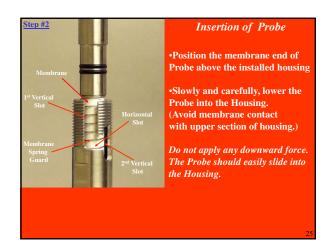
Confirm that the Allen cap screw that holds the Membrane Ferrule is torqued wrench-tight. The torque value should be 10 inch/lb. If the allen cap screw is only hand tight, not wrench tight to the appropriate torque value, the screw may protrude excessively. The extra Probe length may prematurely actuate the Foot Valve when the Probe is installed into the Housing.

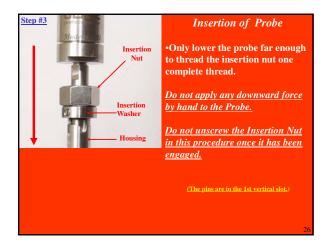


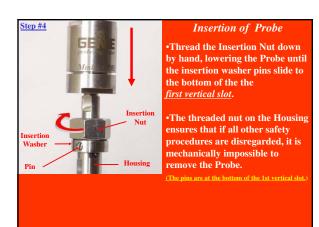




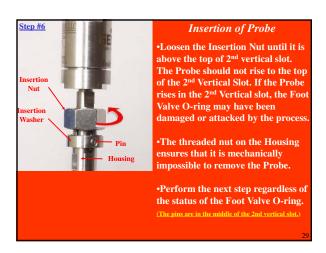


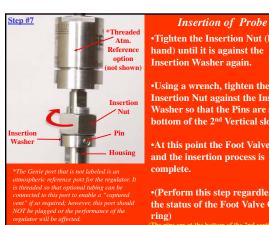




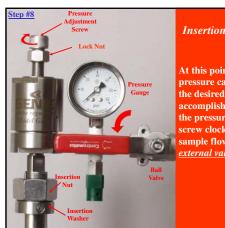








•Tighten the Insertion Nut (by hand) until it is against the Insertion Washer again. •Using a wrench, tighten the Insertion Nut against the Insertion Washer so that the Pins are at the bottom of the 2<sup>nd</sup> Vertical slot. At this point the Foot Valve opens and the insertion process is •(Perform this step regardless of the status of the Foot Valve Oare at the bottom of the 2nd vertical slo



## Insertion of GPR Probe

At this point the sample pressure can be adjusted to the desired value. This is accomplished by turning the pressure adjustment screw clockwise. To allow sample flow, slowly open external valving.



### **Insertion of GPR Probe**

•At high supply pressure, a sudden change may be observed on the downstream pressure gauge as the valve stem moves away from the seat. Slight readjustments may be necessary until the pressure and flow have equilibrated.

•Tighten the pressure adjustment screw lock nut firmly against the washer to prevent unintended changes in pressure adjustment.

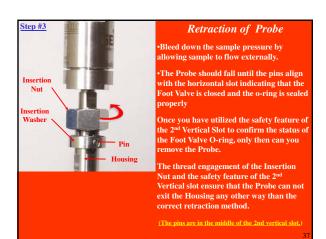


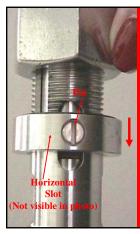
## **Retraction of Probe**

The GPR/GP2 can be easily retracted from its Housing.







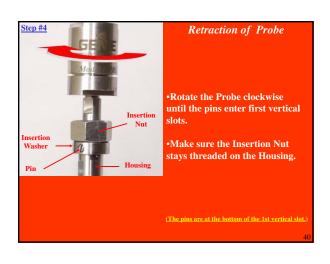


#### Retraction

- •The sample pressure is relieved by allowing sample to flow externally. The Probe can now be easily pushed downward until the pins align with the horizontal slots, confirming the foot valve closed correctly
- •Even if Foot Valve failure would possibly occur, the Foot Valve leak rate would prevent you from pushing the probe downward until the pins align with the horizontal slots.

## **CAUTION:**

If the pressure is not reduced to zero, use the wrench to tighten the nut pushing the probe back into the housing and contact A+ Corporation or its representative.





## Retraction of Probe

- •Confirm that <u>no</u> upward force from the supply pressure is present. (I.e. the Insertion Washer is not forced against the Insertion Nut as it is unthreaded.)
- •After confirmation that <u>no</u> upward force from the supply pressure is present, completely unthread the Insertion Nut and lift the Probe upward from the housing.

  (The pine are in the middle of the 1st vertical slot.)



## Retraction of Probe

•During the retraction, keep the Probe centered in the housing to avoid membrane damage by contact with the upper section of the housing.

