

INSTALLATION INSTRUCTIONS

HST

- 1) The HST valve is typically installed in the sample line between the outlet of a sample cooler and the inlet of the analyzer or instrument. Note the marked flow direction on the valve.
- 2) A typical model number is ½" HST-XXX, where "XXX" is the specified full open temperature in degrees Fahrenheit. The HST is closed 10°F above the specified full open temperature.
- 3) If the sample temperature flowing through the HST is above the closing temperature, the HST closes to prevent overtemperature damage to the analyzer or instrument. Approximately 10°F below the closing temperature the HST is full open.


INTERNAL ENGINE ASSEMBLY REMOVAL FOR REPLACEMENT OR CLEANING

There are no typical maintenance related parts inside the HST. However, it is possible to remove and/or replace the entire "engine" assembly inside the valve. This engine assembly is a single assembly containing all internal parts. The HST must be removed from the line to perform this function.

- a) Use a 5/16" or 8mm hex allen key; insert this tool into the HST outlet and engage tool into the hex socket at the engine outlet.
- b) Turn hex key clockwise/inward to screw engine into the HST body and then remove engine from the inlet end of the HST.
- c) Do not open or attempt to open the engine assembly itself.
- d) The engine assembly can be cleaned or replaced as required. Clean by soaking complete engine assembly in appropriate cleaning fluid and using a compressed air nozzle to blow out particulates.
- e) When reinstalling engine into HST body, replace the O-ring at the base of the engine mounting threads. This O-ring is a standard dash size -012; the material is typically either EPDM or Viton.

CLEANING OR FLUSHING COMPLETE HST VALVE ASSEMBLY

- a) If the HST becomes clogged from accumulation of particulates inside the valve, reverse flushing the complete valve may alleviate the clogging.
- b) Air, water, or other appropriate fluids may be used for flushing. Other appropriate fluids may be demineralizing fluids or solvents compatible with the seals and materials of construction of the HST.
- c) With the valve well below the closing temperature, connect low pressure flushing fluid to the inlet or outlet of the valve or simply soak valve.
- d) Rinse thoroughly and test for proper flow.

 **WARNING:** This product can expose you to chemicals, for example lead, nickel, acrylonitrile, which are known to the State of CA to cause cancer, birth defects, or reproductive harm. For more information, go to www.P65Warnings.ca.gov

Warranty information disclosed at www.thermomegatech.com/terms-conditions/