

## FHT ERV Fluid Fitting Installation Instruction

This instruction is the procedure for installing the fittings onto the Valve Head to avoid the port thread damage.

### 1. Recommendation

To have the best sealing performance without damaging the valve, it is recommended to use flanged tubing system with flanging washer and fitting nut, flangeless fitting with ferrule (See below a or b types).



a.Flanging Type



b.Flangeless Type



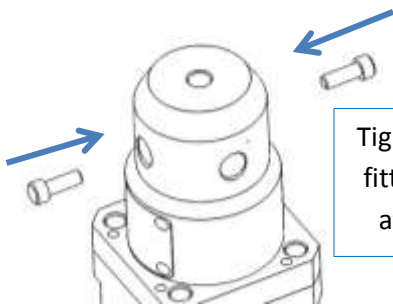
c.Tubing Barb Type

Other fittings or Plugs:

When using other type of fittings such as the Fitting without ferrule, but come with tubing barb (see above c). It requires to install the fitting at first, then slide the tubing over the fitting barb.

### 2. Installation

- (1) Prepare the fittings per fitting instruction.
- (2) Clean each fitting before installing i.e. free of dried debris or dust.



Tighten opposing fittings together at same time.

Valve Head fitting installation

**Caution:** Ensure that all fittings shall have flat and smooth bottom sealing surface against the port bottom of valve. Bad bottom surface finish of fitting could damage the port sealing surface of valve or/and cause leakage.

**Caution:** Ensure that the ferrule or insert of the fitting, specially, for cone type of ferrule, shall be loosen from the fitting body or nut before installed. It will damage the bottom sealing surface of valve port if the ferrule or insert is stuck with fitting body or nut.

**Caution:** When threading the fitting into the port, over force on the fitting will directly damage the port thread of valve.

- (3) Install loosely each fitting on each port separately per application.

NOTICE: Because the valve body is made of PTFE, which has the lowest friction, it will require a very little torque to thread the fitting into the port.

- (4) Tighten opposing fittings together at same time to keep the rotor at the center of valve, and seal with body under same force around it.
- (5) Apply 19-23 in-oz torque on the fitting for 1/4-28 thread fittings. See the instruction or ask FHT Technology Service to find out the torque requirements for other size fittings. Normally, finger tightening is good enough to secure the sealing performance.

NOTICE: Over tighten will damage the bottom sealing surface of valve port, which will cause leakage, specially, when re-installing the fitting.

- (6) Ensure each fitting is secured tightly to avoid the external leakage around the fitting.