

Technical Bulletin G0540 – Valco Inline Filter

The Valco union (Valco Part# CUCKF) with the Valco filter screen (Valco Part# CFE-S2) has proven to be a superior inline filter and lasts longer than the standard Upchurch M-542 inline filter. The union (CUCKF) comes with the polypropylene union and two CTFE Teflon fittings and compression ferrules. A filter disc is required which consists of a stainless steel screen inside a CTFE and PTFE housing. This filter is compatible with both FEP tubing and fused silica capillary. For FEP tubing, use Upchurch Part# F-247 green sleeves and for fused silica capillary, use Upchurch Part# F-247 green sleeves which simply compensate for the outer diameter of the FEP tubing or fused silica capillary.

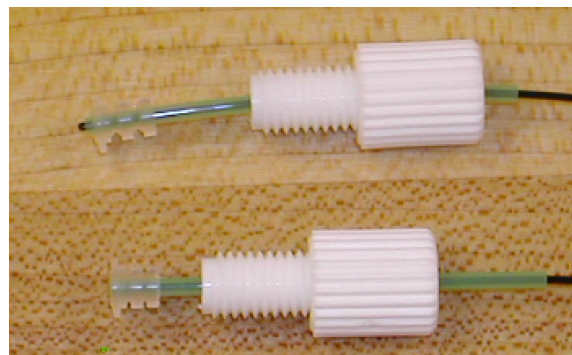


*Note: Black FEP is used only to visualize the FEP better; samples should always be injected through clear 75 um I.D. FEP tubing or capillary.

Assembly Instructions

- 1) Slide the FEP tubing or fused silica capillary through the appropriate sleeve.
- 2) Slide the white nut and ferrule onto the sleeve facing the union.
- 3) Place the filter disc inside the union.
- 4) Push the disc forward into the union with your fitting.
- 5) Slide your fingers along the tubing and sleeve to make sure they are against the inside of the union for a zero dead volume connection.
- 6) Tighten the fitting.

Note: When tightening the fitting, the ferrule will compress against the fitting and union and actually collapse down onto the fitting. When assembling this fitting for the first time, you may want to remove the fitting to check that the ferrule have been fully compressed and the tubing is flush with the surface of the ferrule. Shown on the right; the top ferrule is a new uncompressed ferrule and below is a complete compressed ferrule.





When the filter is fully assembled, it should look similar to the union above. Notice that the filter disc prevents the fitting on the left to be screwed in as far as the fittings on the right.

Parts Summary:

For FEP Tubing users:

Valco Part# CUCKF (union) Qty:1

Valco Part# CFE-S2 (filter disc) Qty:1

Upchurch Part# F-247x (Green sleeve) Qty:10

For Fused Silica Capillary users:

Valco Part# CUCKF (union) Qty:1

Valco Part# CFE-S2 (filter disc) Qty:1

Upchurch Part# F-242x (Green sleeve) Qty:10

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