

IZERA1.5 INSTALLATION INSTRUCTIONS

Technical Note 506

Valco IZERA1.5 and IZERA1.5M fittings are unique 1/16" internal to 1/32" external adapters, designed to eliminate common situations in which graphite ferrules get stuck in 1/32" internal fitting details. A typical situation of this nature is the connection of a fused silica capillary to a valve or detector.

These adapters make a "permanent" 1/16" internal connection to the valve or detector with a 1/32" external fingertight connection that can be tightened or removed as often as desired without affecting the permanent connection.

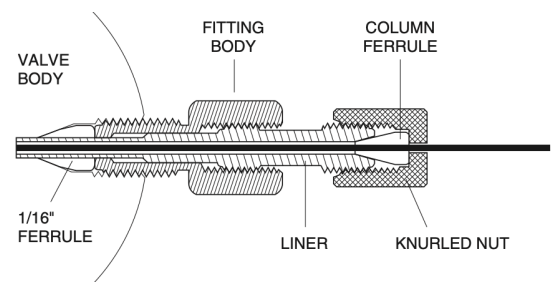
ORIGINAL MAKEUP

1. Remove the knurled nut and the column ferrule from the fitting body. (See Figure 1 below.)
 2. Unscrew the liner until the 1/16" end is even with the tapered end of the 1/16" ferrule.
 3. With the 1/16" ferrule on the liner, thread the fitting body into the 1/16" fitting detail of the valve or detector and screw it in until you meet a slight resistance.
 4. Screw the liner into the fitting body by hand until you feel the 1/16" end bottom out in the fitting detail.
 5. While using a 1/8" wrench to prevent rotation of the liner, use a 1/4" wrench to tighten the fitting body
- CAUTION: The liner will be deformed beyond usability if the liner rotates while the fitting body is being tightened.**
6. Slide the knurled nut and the column ferrule over the column. Feed the column through the liner and tighten the knurled nut.

REMOVAL

1. Loosen and remove the knurled nut, the column ferrule, and the column.
2. Use a 1/8" wrench to hold the liner. While the 1/8" wrench keeps the liner from rotating, use a 1/4" wrench on the fitting body to loosen the adapter 1/2 turn.
3. Set aside the 1/8" wrench and completely unscrew the fitting body from the valve or detector.

FIGURE 1: Components of an IZERA1.5



REINSTALLATION (FERRULE MADE UP ON LINER)

1. Remove the knurled nut and column ferrule from the fitting body.
2. Unscrew the liner as far as it will go, then screw the fitting body into the 1/16" fitting detail fingertight.
3. While using a 1/8" wrench to prevent rotation of the liner, use a 1/4" wrench to tighten the fitting body.
4. Slide the knurled nut and the column ferrule over the column. Feed the column through the liner and tighten the knurled nut.