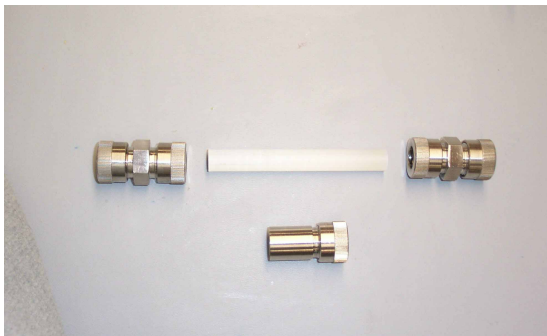


## OPTION BvF HARDWARE



For applications approaching  $10^{-7}$  Torr and below, Option BvF can be specified. This configuration utilizes a fused fiberoptic glass rod as the vacuum passthru element. A sensor system with **Option BvF** comprises:

- A light guide with sensing tip for mounting inside the vacuum chamber
- A fused fiberoptic vacuum passthru rod
- An o-ring fitting for sealing the passthru rod against the vacuum.
- An amplifier with its fiberoptic light guide for external connection to the passthru

**Option BvF** can be configured for single or multi-channel systems\*.

These are always custom made systems. The user will specify cable lengths and tip geometries. Dialog with the factory is required.

\*Note: Tradeoffs to consider with the replaceable tip configurations are reductions in sensor bandwidth and elevated sensor noise. It is always good to provide a highly reflective target to the sensor when using Option BvF. Please consult the factory when there are questions regarding such issues.

### O-Ring Fitting Features

- O-Ring Fitting Body - 316 stainless steel
- O-Ring - 70 Durometer Viton
- Temperature Rating -  $232^{\circ}\text{C}$  ( $450^{\circ}\text{F}$ )
- The fitting is consistently helium leak-tested to a rate of  $4.0 \times 10^{-9}$  atm. c.c./sec. without leakage.