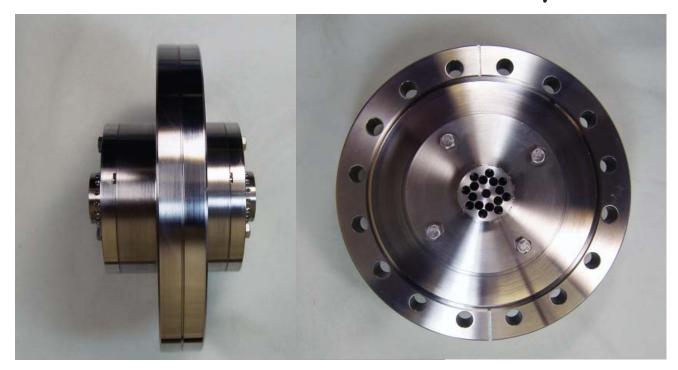
### **Multi-Channel Vacuum Passthru Assembly**



## model BvF-CF

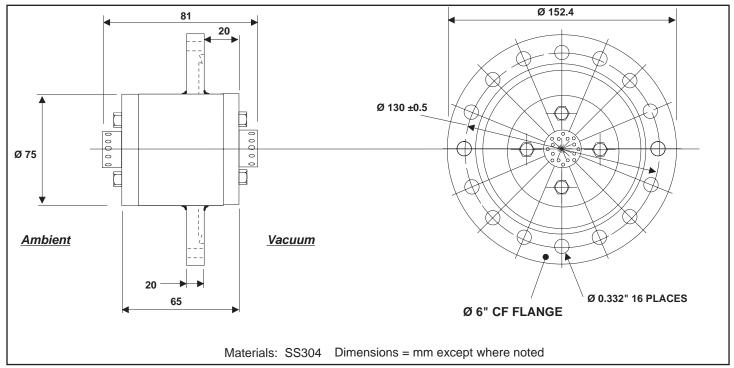
#### **FEATURES**

- Operation To 10<sup>-7</sup> Torr
- Mounting by Ø 6" CF Flange
- Solid Fiberoptic Glass Rod Passthru Element
- Ultra-Torr Compression Fitting Seals Against Vacuum
- Accepts Up To 8 Philtec D Model Sensors or 5 RC Model Sensors\*
- \* Consult the factory for the larger sensor models, as there may be some limitation caused by combinations of sheathing materials and end ferrule collar diameters.

**PHILTEC** 

#### Multi-Channel Vacuum Passthru

# **BvF-CF**



### **Description**

The BvF-CF is an assembly comprising:

- Ø 6" CF Mounting Flange
- Swagelock® Ultra-Torr Compression Fitting
- Ø 25 mm x 50 mm L Fused Fiberoptic Passthru Rod
- Precision Ground End Caps with 16 Ports for Sensor Fiberoptics



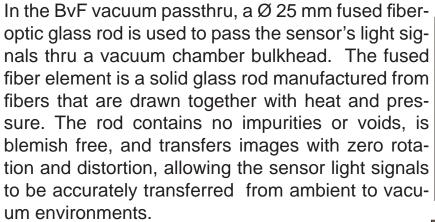
PHILTEC, INC., ANNAPOLIS, MD USA tel 410-757-4404 toll free 800-453-6242 • fax 410-757-8138 • e-mail sensors@philtec.com

## **Operating Principle**

Philtec's fiberoptic sensors are comprised of many fibers. The smallest probes have dozens of fibers, the largest have several thousand. These fiber bundles can not be sealed to hold high vacuum.

A sensor system with Option BvF-CF includes:

- Light guides with sensing tips for installation in the vacuum chamber
- The BvF-CF Assembly
- Amplifiers and fiberoptic cables for external connection to the passthru assembly.



A Swagelok Ultra-Torr® compression fitting, welded to the center of the BvF, is used to hold the vacuum. This fitting uses a Viton O-ring in compression to seal to 10<sup>-7</sup> Torr.



