

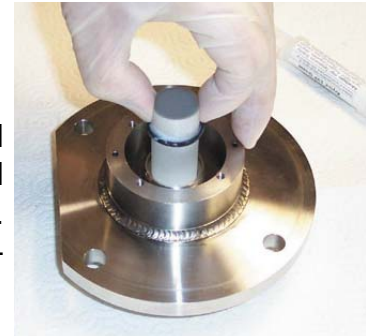
Multi-Channel Vacuum Passthru Systems

The model BvF is a multi-channel passthru flange assembly for vacuum applications including 10^{-7} Torr.

Inside the flange assembly, a 25 mm diameter fused fiberoptic glass rod maintains separation of light signals that pass thru the flange. Each D model sensor requires two passthru ports: one transmit leg and one return leg. Each RC model requires three passthru ports: one transmit leg and two receiver legs.

High precision end caps are provided with 16 holes for fiberoptic light guides. The maximum number of sensor channels that can be passed thru one flange assembly is:

8 D model sensors, or
5 RC model sensors



A complete multi-channel sensing system comprises the following elements:

- Vacuum compatible light guides with sensor tips
- A BvF Vacuum Passthru Flange Assembly
- Electronics with fiberoptic light guides for transmitting to and receiving light signals from the BvF

