

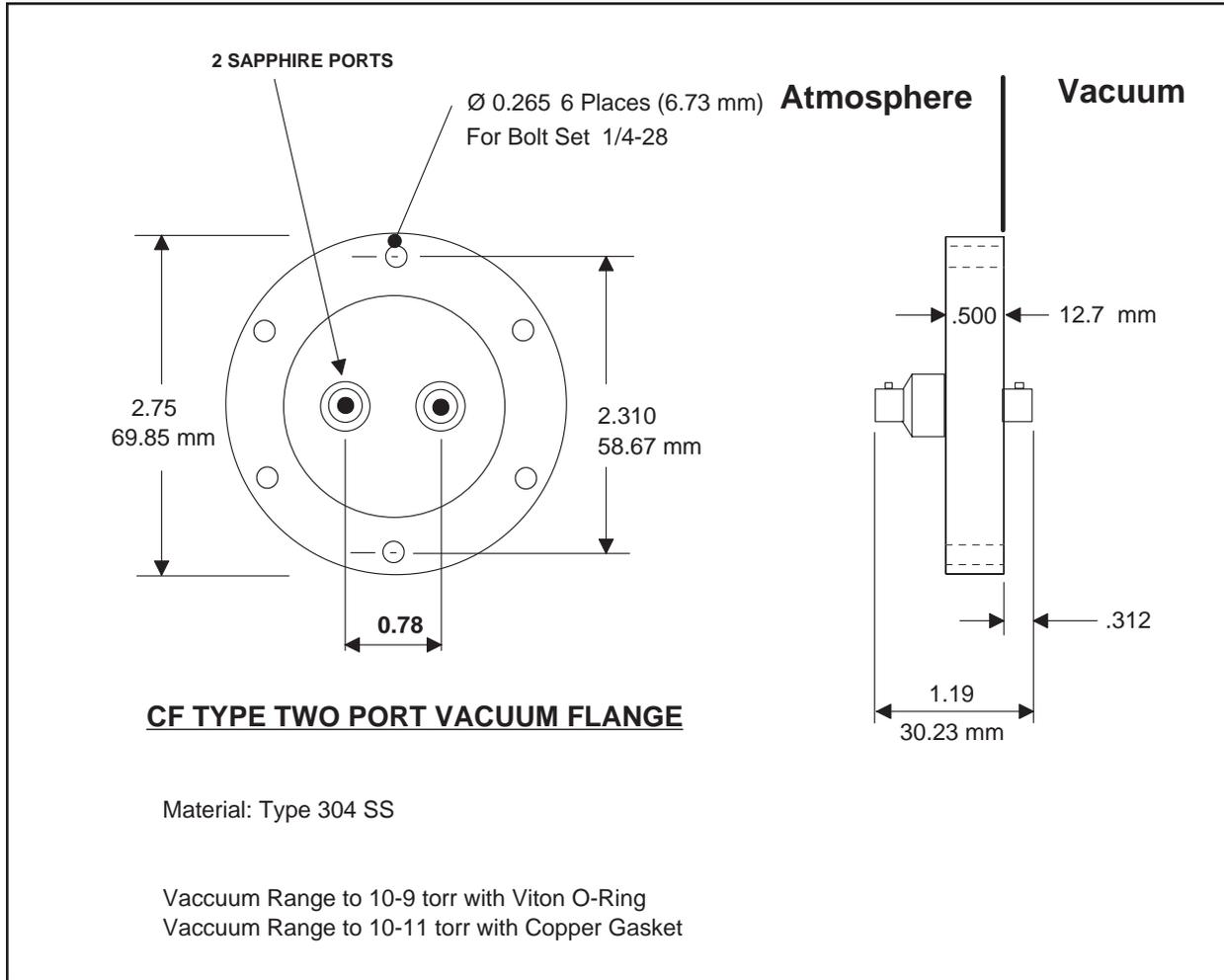
Single Channel Vacuum Passthru



model Bv2

FEATURES

- CF Vacuum Range to below 10^{-11} Torr
 - Mounting by \varnothing 2.75" CF Flange
 - Two Sapphire Windows
- \varnothing 3/16" Receptacles for Fiberoptic Legs
- Accepts One Philtec D Model Sensor
- Bakeable to 450°C without sensor cables



Description

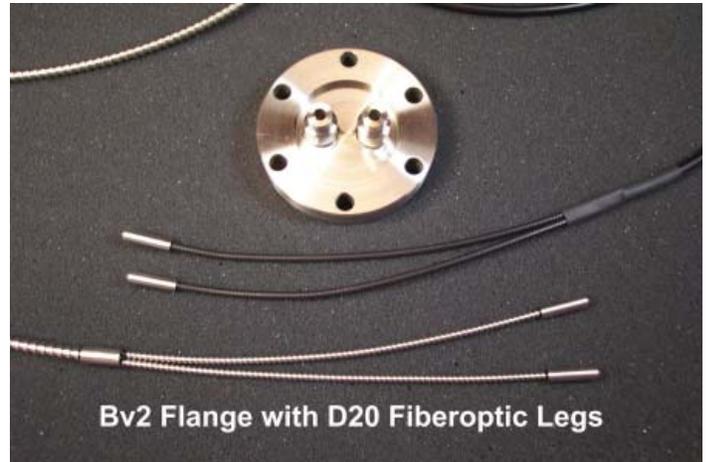
The Bv2 is an assembly comprising:

- Ø 2.75" CF Mounting Flange
- Two Ports with Sapphire Windows in Kovar Sleeves

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.

In the Bv2 vacuum passthru, the RC sensor transmitting and receiving signal channels are separated into 2 legs: one transmitter and one receiver. This eliminates all crosstalk between channels, thereby allowing the sensor light signals to be accurately transferred from air to vacuum environments.



A sensor system with Option Bv2 includes:

- Light guide with probe tip for installation in the vacuum chamber
- The Bv2 Flange
- Amplifier and fiberoptic cable for external connection to the passthru assembly.

