

Vacuum and Pressure Feedthroughs

Description

A feedthrough provides inlet and outlet tubes through the walls of a pressurized or vacuum system through a hermetic seal, while maintaining the integrity of the vacuum. Fiberguide fiber optic feedthroughs are available in industry standard Con-Flat, ISO KF flange, and nut style configurations.

- ◆ Male SMA 905 connectors both input and output
- ◆ UV to VIS and VIS to NIR applications
- ◆ All fused Silica fiber
- ◆ Surgical grade stainless steel mounts
- ◆ Maximum operating temperature 125°C (bulkhead temp)
- ◆ 200um, 400um, and 600um fiber core diameters
- ◆ Custom configurations available: multiport, fibers sizes (9um to 1000um), Numerical apertures (0.12, 0.26), connectors (FC, ST, APC)



Specifications:

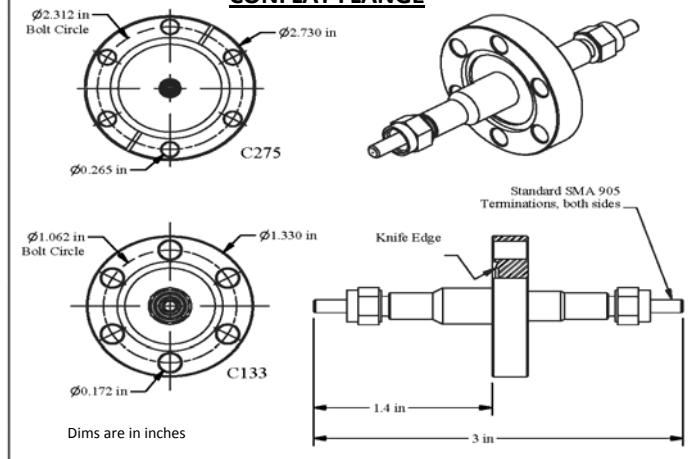
Fiber: Step Index multimode, polyimide jacket	Connector Style: Male SMA 905
NA: 0.22 ±0.02 (24.5° full angle)	Wavelengths: UV-VIS (200nm ~ 800nm), VIS-NIR (400nm to 2000nm)
Core/ Clad Ratio: 1: 1.1	Pressure Feedthrough Interconnect: 10,000psi (30,000psi temporary)
Vacuum Range: 1 X 10 ⁻¹⁰ Torr	Standard Pigtailed: 2.500" long x 0.375" O.D.
Temperature Range: -190°C to 125°C	UHV compatible materials
Insertion Loss: 0.8dB to 2dB	RoHS Compliant

Fiberguide Industries Customization Program

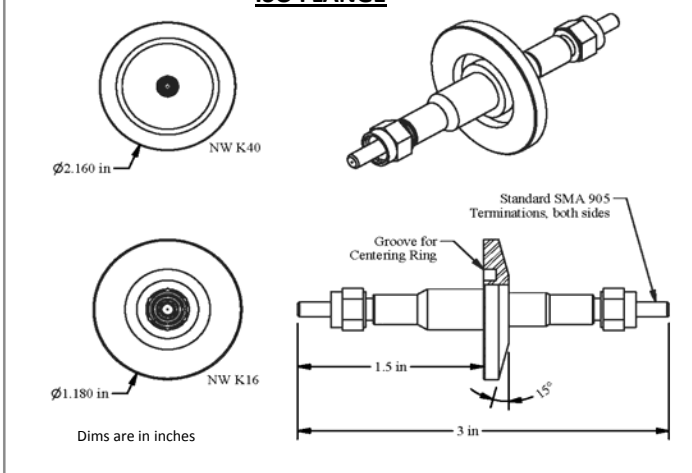
Fiberguide Industries is a full service custom fiber and value-added assembly provider. If you have unique requirements, please contact us to discuss tailoring a product or design to optimize optical performance for your specific application.

Vacuum and Pressure Feedthroughs

CONFLAT FLANGE



ISO FLANGE



1.33" Con-flat

Part Number	Description
VFT-200-UV-C133	200μm 1.33" Con-flat, UV
VFT-200-VIS-C133	200μm, 1.33" Con-flat, VIS
VFT-400-UV-C133	400μm, 1.33" Con-flat, UV
VFT-400-VIS-C133	400μm, 1.33" Con-flat, VIS
VFT-600-UV-C133	600μm, 1.33" Con-flat, UV
VFT-600-VIS-C133	600μm, 1.33" Con-flat, VIS

2.75" Con-flat

Part Number	Description
VFT-200-UV-C275	200μm 2.75" Con-flat, UV
VFT-200-VIS-C275	200μm, 2.75" Con-flat, VIS
VFT-400-UV-C275	400μm, 2.75" Con-flat, UV
VFT-400-VIS-C275	400μm, 2.75" Con-flat, VIS
VFT-600-UV-C275	600μm, 2.75" Con-flat, UV
VFT-600-VIS-C275	600μm, 2.75" Con-flat, VIS

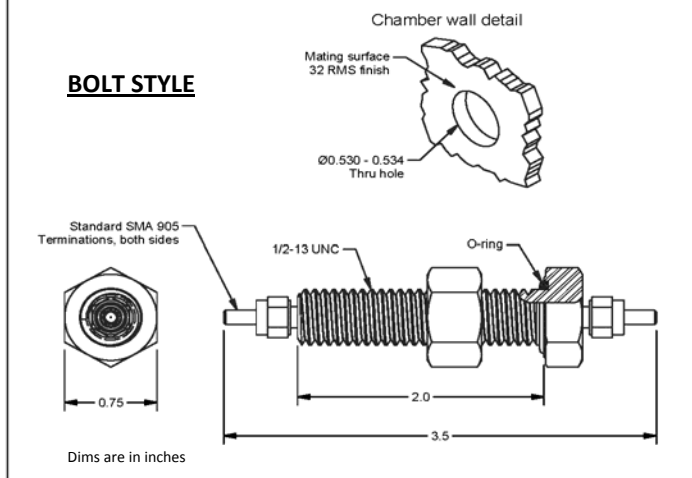
K16 ISO

Part Number	Description
VFT-200-UV-K16	200μm, K16 ISO Con-flat, UV
VFT-200-VIS-K16	200μm, K16 ISO Con-flat, VIS
VFT-400-UV-K16	400μm, K16 ISO Con-flat, UV
VFT-400-VIS-K16	400μm, K16 ISO Con-flat, VIS
VFT-600-UV-K16	600μm, K16 ISO Con-flat, UV
VFT-600-VIS-K16	600μm, K16 ISO Con-flat, VIS

K40 ISO

Part Number	Description
VFT-200-UV-K40	200μm, K40 ISO Con-flat, UV
VFT-200-VIS-K40	200μm, K40 ISO Con-flat, VIS
VFT-400-UV-K40	400μm, K40 ISO Con-flat, UV
VFT-400-VIS-K40	400μm, K40 ISO Con-flat, VIS
VFT-600-UV-K40	600μm, K40 ISO Con-flat, UV
VFT-600-VIS-K40	600μm, K40 ISO Con-flat, VIS

BOLT STYLE



Bolt Style Feedthrough

Part Number	Description
VFT-200-UV-B500	200μm, Bolt Style, UV
VFT-200-VIS-B500	200μm, Bolt Style, VIS
VFT-400-UV-B500	400μm, Bolt Style, UV
VFT-400-VIS-B500	400μm, Bolt Style, VIS
VFT-600-UV-B500	600μm, Bolt Style, UV
VFT-600-VIS-B500	600μm, Bolt Style, VIS