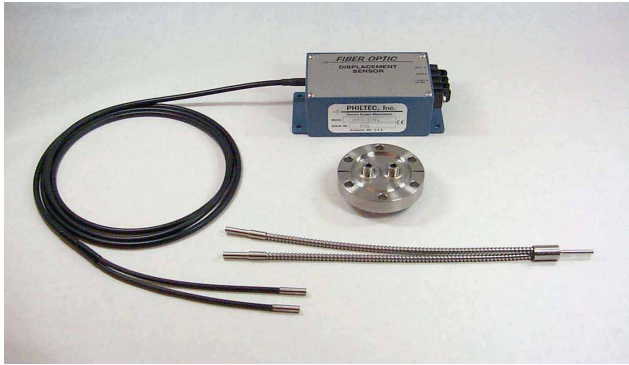
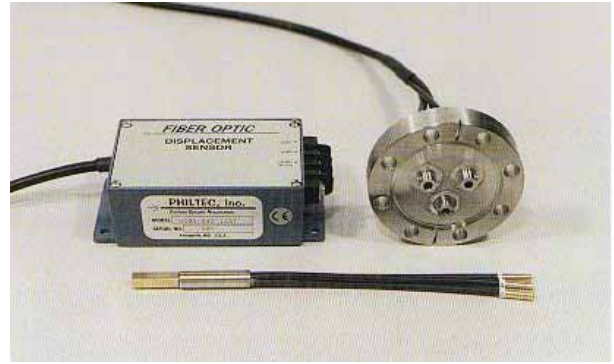


OPTION Bv2



OPTION Bv3



ULTRA-HIGH VACUUM CONFIGURATIONS

All sensor models can be configured for ultra-high vacuum applications* except models D6, D12 and RC12. A sensor system for UHV comprises:

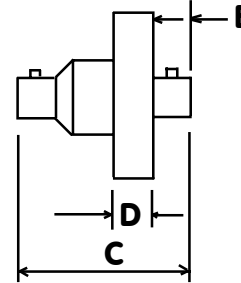
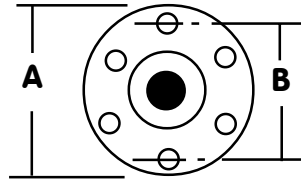
- A light guide with sensing tip for mounting inside the vacuum chamber
- A conflat vacuum flange for mounting on the vacuum chamber bulkhead
- An amplifier with its fiberoptic light guide for external connection to the flange

There are no electronic elements in the fiberoptic cables. The end tips of the cables are secured via set screws into ports provided on the flange. Sensors can be ordered in the high vacuum configuration by specifying **Option Bv2 or Bv3**. These are always custom made systems. The user will specify cable lengths and tip geometries.

VACUUM FLANGE FEATURES

- Type CF flange with sapphire windows mounted in 304 stainless steel
- Vacuum range to below 10^{-11} torr
- Bakeable to 450° C without fiberoptic cables

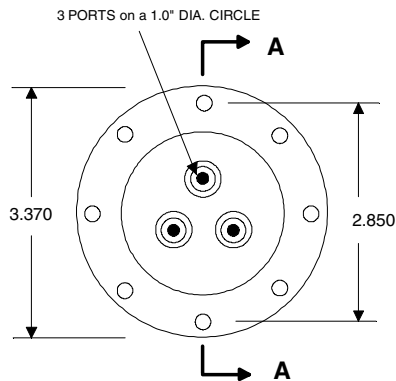
***Note:** Tradeoffs to consider with the replaceable tip configurations are reductions in sensor bandwidth and elevated sensor noise. It is always good to provide a highly reflective target to the sensor when using Option Bv2/Bv3. Please consult the factory when there are questions regarding such issues.



VACUUM FLANGE DETAILS

OPTION CODE	# of PORTS	A	B	C	D	E	BOLT SET	# of BOLTS	SENSOR MODELS
Bv2	2	2.75	2.31	1.19	.5	.312	1/4-28	6	D20-D171
Bv3	3	3.38	2.85	1.19	.62	.312	5/16-24	8	RC20 - RC190

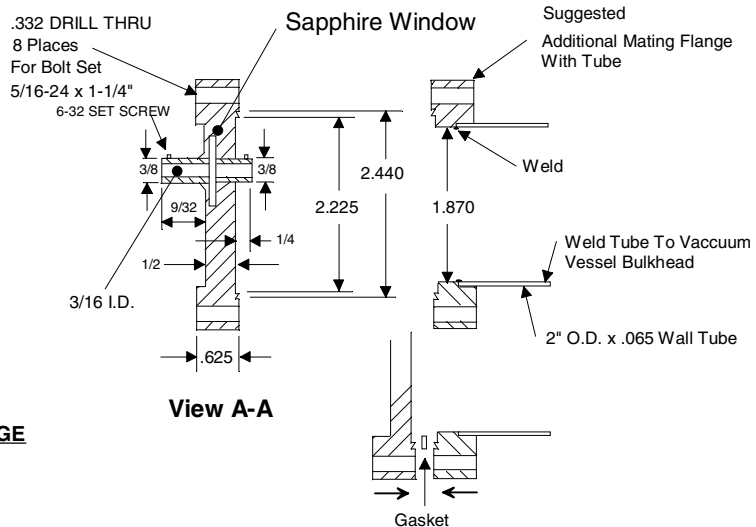
FLANGE ACCESSORIES. Contact factory for bolt sets and OFHC copper gaskets for 10^{-11} torr.



CF TYPE THREE PORT VACUUM FLANGE

Material: Type 304 SS

Vacuum Range to 10^{-9} torr with Viton O-Ring
Vacuum Range to 10^{-11} torr with Copper Gasket



Assemble With Copper Gasket

Copper Gasket I.D. = 2"

Bolt Set 5/16-24 x 1-3/4"