

### UHV CHAMBERS with 6 CF, 2¾ CF and 1⅓ CF Ports Internal 4.800 Diameter Spherical Workspace

#### APPLICATIONS:

- ▶ Compact UHV Vacuum chamber
- ▶ Portable Low-Cost UHV Systems
- ▶ High-Complexity UHV SubSystems
- ▶ General UHV Vacuum Plumbing

#### FEATURES / OPTIONS:

- ▶ Unencumbered 4.800 diameter spherical workspace:
- ▶ Easy access UHV vacuum chamber
- ▶ Two 6 CF and five 2¾ CF sealing surfaces cut on a hollow sphere
- ▶ Grabber grooves on 6 CF and 2¾ CF sealing surfaces
- ▶ Optional two 1⅓ CF sealing surfaces
- ▶ Unitary Stainless steel 316L construction
- ▶ No welds, no inside corners, highly polished
- ▶ Precise port alignment of < 0.1 degree



Spherical Pentagons

#### THE 6 CF SPHERICAL PENTAGON

The MCF600-SphPent-F2C5 Spherical Pentagon is a seven port Multi-CF UHV vacuum chamber consisting of a hollow sphere intersected by two 6 CF sealing surfaces and five 2¾ CF sealing surfaces in an approximately pentagonal shape. Each 2¾ CF or 6 CF sealing surface has one pair of Grabber Grooves. The MCF600-SphPent-F2C5A2 Spherical Irregular Pentagon has, in addition, two 1⅓ CF sealing surfaces on one side between two of the 2¾ CF surfaces.

	MCF600-SphPent-F2C5	MCF600-SphPent-F2C5A2
Multi-CF FITTING	Spherical Pentagon	
COMMON APPLICATION	UHV Chamber	
CONSTRUCTION / MATERIAL	Unitary Stainless Steel 316L	
1⅓ CF SEALING SURFACES	None	Two with (12) 8-32 tapped bolt holes per sealing surface
2¾ CF SEALING SURFACES	Five with (6) 1/4-28 tapped bolt holes, plus one triplet of Grabber Grooves per sealing surface	
6 CF SEALING SURFACES	Two with (16) 5/16-24 tapped bolt holes, plus one pair of Grabber Grooves per sealing surface	
INTERNAL WORK SPACE	4.800" Spherical ID (52.5 in <sup>3</sup> )	4.800" Spherical ID (53.4 in <sup>3</sup> )

