

Quantum Cores UHV Glass Cells

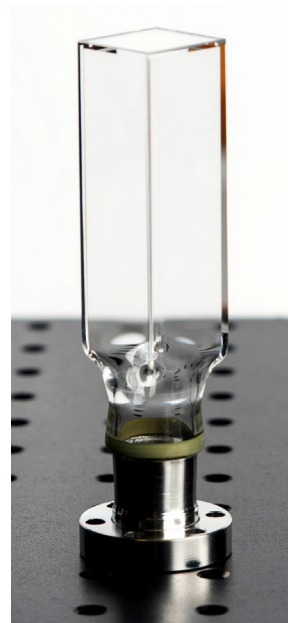
Thin-Walled Cell



PRODUCT HIGHLIGHTS

- Ultra-high vacuum glass cell
- Bakeable to high temperatures
- Epoxy-free and frit-free assembly

Infleqtion's high-quality glass cells offer a superior level of optical access to in-vacuum experiments. The thin-walled cells are designed for high-quality optical access without AR coatings at an economical price point. The cells are connected to the UHV flange with Infleqtion's proprietary assembly processes, which uses no epoxy or frits; giving them excellent outgassing properties, ideal for ultra-high vacuum applications.



PRODUCT SPECIFICATIONS

Outer Cell Dimensions (W x D x L)	23 mm x 23 mm x 69 mm
Internal Cell Dimensions (W x D x L)	20 mm x 20 mm x 65 mm
Wall Thickness	1.5 ± 0.2 mm
Optical Flatness	< 2-4 λ per 10 mm dia. aperture, peak-to-valley (PV) flatness
Coating Options	Uncoated
Bake Out Temperature	Up to 300 °C
Ramp Up/Down Temperature	1 °C/min
Flange Width (Conflat)	DN16 (1.33", 33.78 mm) DN40 (2.75", 69.85 mm)
Flange Height	DN16: H = 48 ± 2 mm DN40 H = 48 ± 2 mm
Cell Material	Borofloat-33
Scratch Dig	20-10

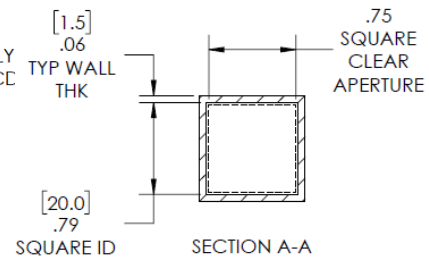
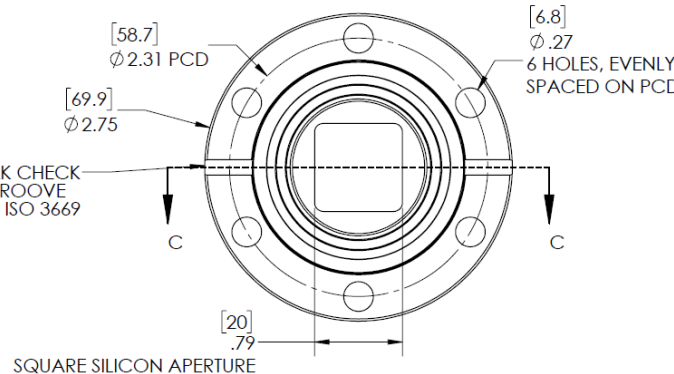
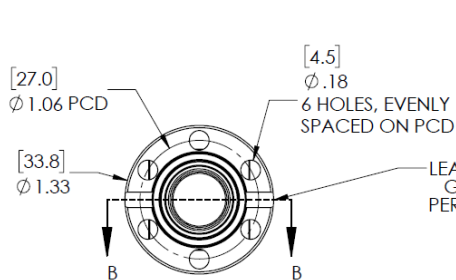
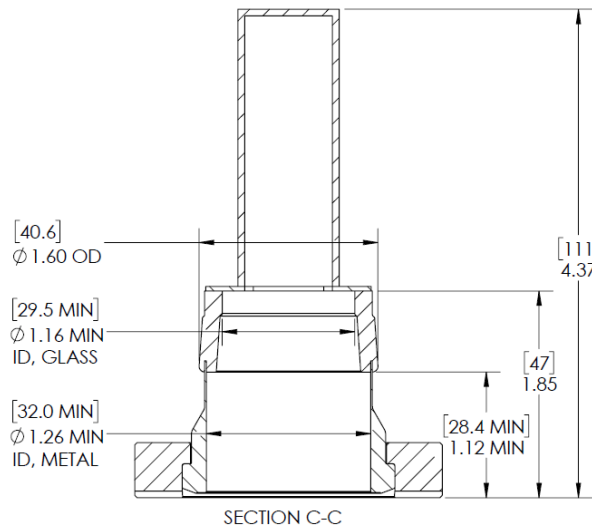
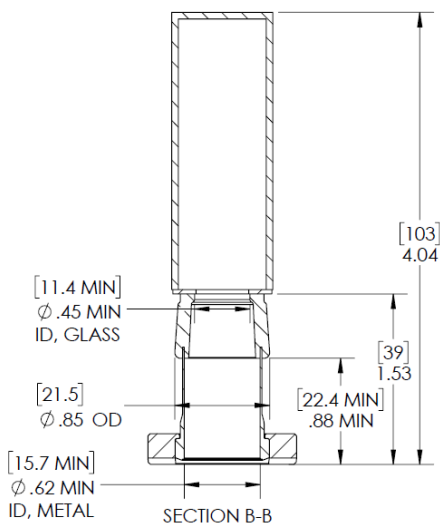
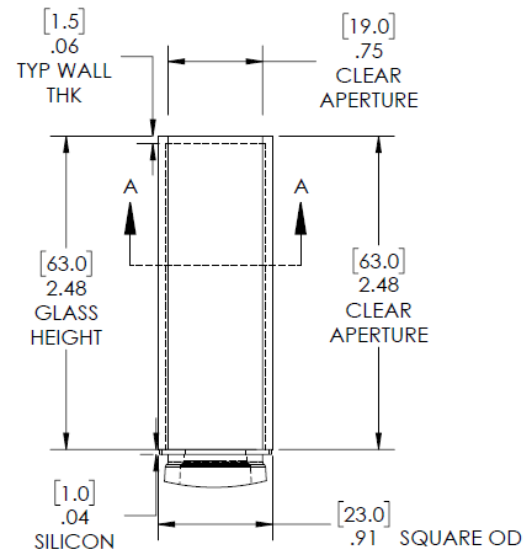
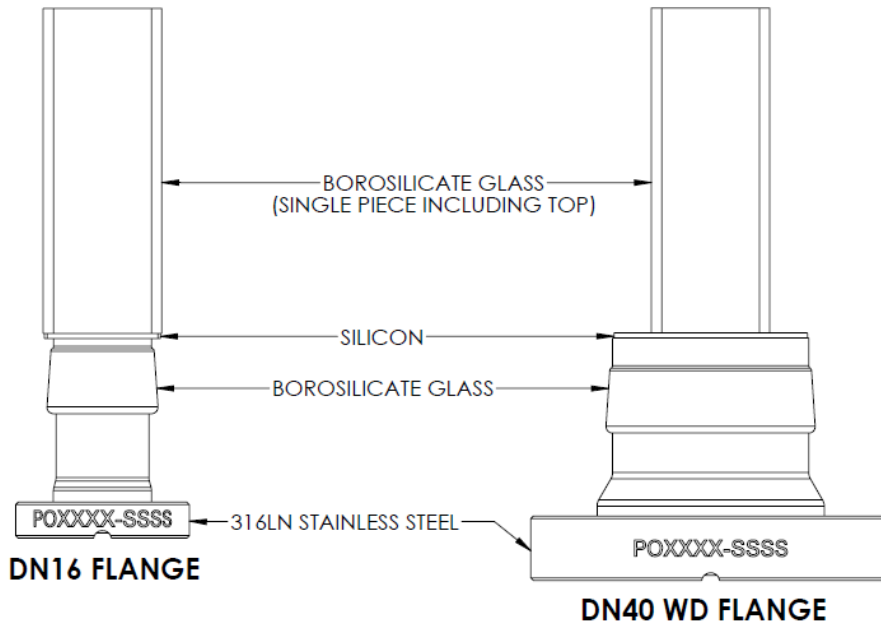
PRODUCT OPTIONS

DN16 Flange	CCF202065C16NB
DN40 Wide Flange	CCF202065CWDNB

For more information,
please contact
sales@infleqtion.com

MECHANICAL DRAWINGS

Measurements in [mm] and inches



UNCONTROLLED SALES DRAWING

For more information, please contact sales@inflection.com