Fused Silica Zero Length Viewports

JEVI VACUUM INSTRUMENTS

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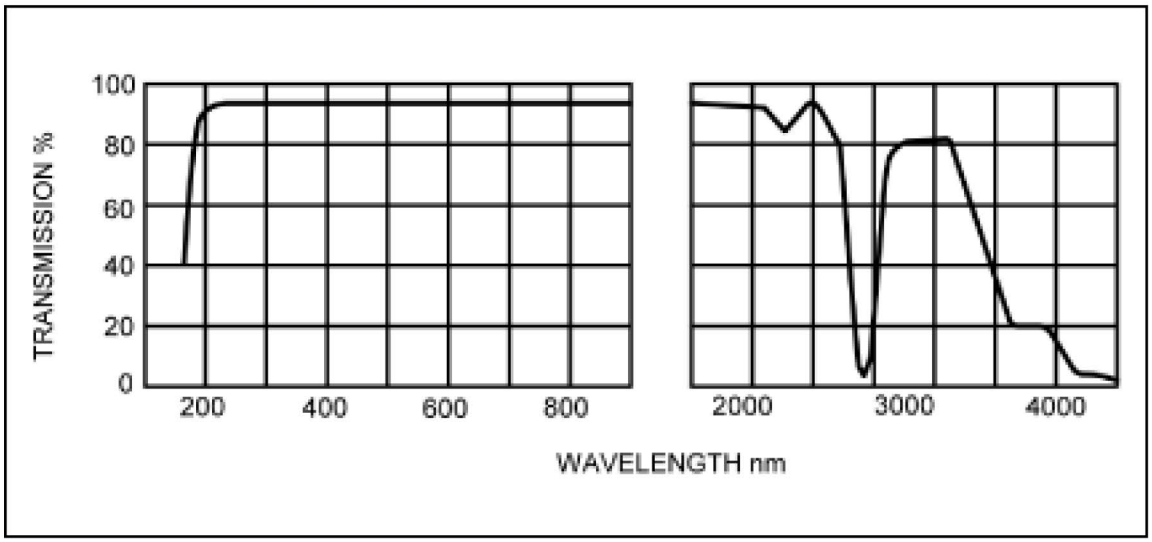
Specification	
Seal Type	Braze
Maximum Temperature	200°C (KF & ISO versions 150°C)
Minimum Temperature	minus 20°C
Maximum Rate of Temperature Change	3°C per minute
Leak Rate	<1x10^{-10} atm-cc/sec (He)
Pressure Range	1 bar to 1x10^{-11} mbar
Surface Quality	20/10 scratch/dig
Parallelism	< 3 arc minutes
Flatness	< 8λ (λ/8 at 632.8nm over 75% of central area before brazing)
Laser Damage Threshold	CW Continuous Wave - 500W/cm^2 at 530nm Pulsed 2 J/cm^2 at 530nm and 10ns pulse width (note, varies with wavelength, pulse width, laser type and cleanliness of optic)

Fused silica viewports are offered in CF flange styles. The viewports comprise a high purity laser quality fused silica optic with precise flatness, parallelism, scratch and dig specifications. The ultra high vacuum (UHV) CF versions are offered using high grade 304L stainless steel flanges. The viewports are manufactured in cleanroom conditions and helium leak tested, cleaned and packed to UHV standards. The rugged construction of the fused silica viewports allows repeated bake-out with UHV performance, whilst the window offers broadband optical transmission through deep UV, visible to near infra-red. Annealed copper gaskets are available.

Transmission Curve - Fused Silica



Please note that the optical transmission curves are approximations and should be used for reference only