

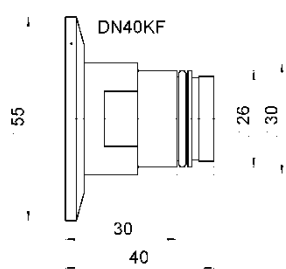
Vacuum-tight Lenses

Technical Information

Nearly all standard lenses are optionally available with vacuum-tight flanges. Field-of-view is identical with the corresponding standard lens assembly. Lens flanges are 11mm longer than standard lens tubes. As a result, working distances are 11mm closer to the front edge of the lens.

All lenses are designed for vacuum-tight application. The flanges are DN40KF-flanges*. For UHV-applications special windows are needed, for support please contact us.

Characteristic: For distinction a "V" is placed in front of the types of the vacuum-tight lenses. The type VK6 corresponds to the standard lens K6.

lens, type, focus, material	part no..	dimensions
VK6, f = 90 mm, germanium	14713	
VL6, f = 50 mm, germanium	14712	
VN6, f = 60 mm, germanium	14710	
VK7, f = 90 mm, CaF ₂	14717	
VL7, f = 50 mm, CaF ₂	14716	
VN7, f = 60 mm, CaF ₂	14714	
VK8, f = 90 mm, ZnSe **	14722	
VL8, f = 50 mm, ZnSe **	14721	
VN8, f = 60 mm, ZnSe **	14719	
VS921, f = 120 mm, germanium	14728	
VS922, f = 120 mm, CaF ₂	14729	
VS925, f = 120 mm, ZnSe **	14732	

All vacuum-tight lenses are leakage-tested.

At a pressure of $\sim 10^{-4}$ Pa (10^{-6} Torr) the leakage is $<10^{-8}$ std cm³/s.

* DN25KF-flanges for lenses VK, VL and VN on request.

** Only for infrared radiation thermometer series KT19.