

Vacuum Adapter Fiber Optic Feedthroughs

Hermetic Fiber Optic feedthroughs with adapter interface

SQS offers hermetic fiber optic feedthrough with special adapter interface. The design was optimized for UHV applications as well as for the application where two areas must be separated with high pressure difference. Example of applications can be used in various branches of industry, in military applications, oil and gas appl. etc. Fiber optic feedthrough flange is fully demountable. i.e. feedthroughs can be easily replaced. SQS has developed its own technology for the fiber sealing. This technology allows to work with different types of optical fibers including the polarization maintaining fibers (PM).

Note: Various feedthrough- fiber type combinations within one flange available.

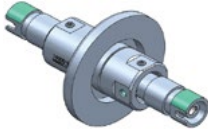
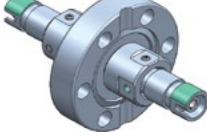
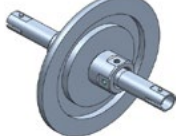




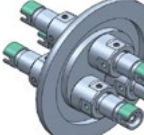
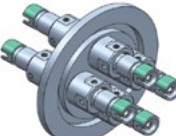





High Vacuum (HV) & Ultra High Vacuum (UHV)	
Operating temperature	-40 +200°C
Sealing material	Adhesive (approved fo UHV)
Hermeticity	10 ⁻¹⁰ to 10 ⁻¹² mbar.l/s
Flange type	CF, KF, ISO, customized or without flange
Flange material	Stainless steel - 304, 304L, 316L, other
Housing material	Stainless steel - 304L, other
Channels (feedthroughs per flange)	Depends on flange size
Adapter interface	FC/APC, FC/PC, SMA 905, ST/PC
Fiber type**	SM, MM or PM

* All feedthroughs can be fully removable from flange; Adapters and zircon mating sleeve are replaceable within feedthrough's

** Various operational wavelength on the request

Several Variants of Optical Feedthroughs (many other configuration are possible)

1 x FC-APC; KF 16 FLANGE 	1 x FC-APC; CF 16 FLANGE 	1 x ST-PC; KF 40 FLANGE; 	2 x FC-APC ; CF40 FLANGE 
3 x FC-APC; CF40 FLANGE 	4x FC-APC; CF40 FLANGE 	2 x FC-APC; KF40 FLANGE 	3 x FC-APC; KF40 FLANGE 
4 x FC-APC; KF40 FLANGE 	10 x FC-APC; CF63 FLANGE 	12 x FC-APC; CF100 FLANGE 	19x FC/APC; ISO-K 100 FLANGE 

Among other things we offer: Pigtailed Feedthrough, Vacuum compatible optical cables, Pressure Feedthrough, etc...

Customer Solutions

