

Coaxial Seal Fittings

Introduction

Coaxial Seal Fittings feature a double ferrule design that significantly reduces installation costs when using coaxial tubing in semiconductor manufacturing, as well as in toxic or hazardous gas applications. Unlike traditional welding methods used to seal the outer tube, these fittings eliminate the challenges, time consumption, and high costs associated with welding. They also mitigate the risk of damaging the inner tubes during the welding process. They are easy to install, highly reliable, and safe. Additionally, gap gauges can be used to verify proper end connection assembly before system pressurization.

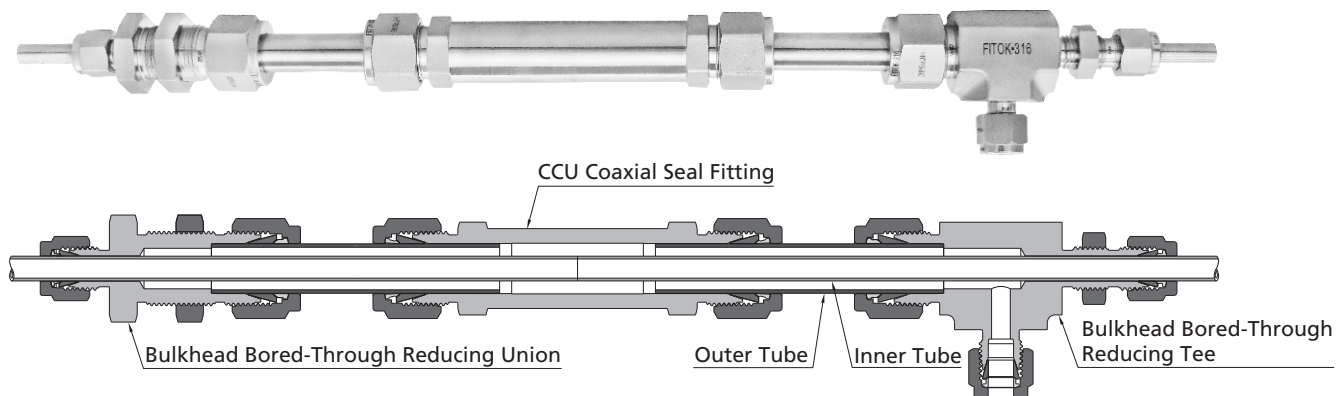


Features

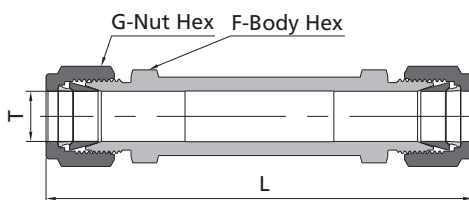
- ⦿ Sizes range from 1/2" to 1" or 12 mm to 25 mm
- ⦿ Same installation method as 6D Series Tube Fittings
- ⦿ Available with metal and non-metal ferrules
- ⦿ The working pressure of metal coaxial tube fittings is determined by multiplying the outer tube's working pressure by corresponding coefficients

Size, in.	Size, mm	Coefficient
O.D. ≤ 1/2	O.D. ≤ 12	0.75
1/2 < O.D. ≤ 3/4	12 < O.D. ≤ 18	0.50
O.D. > 3/4	O.D. > 18	0.25

Connection Diagram



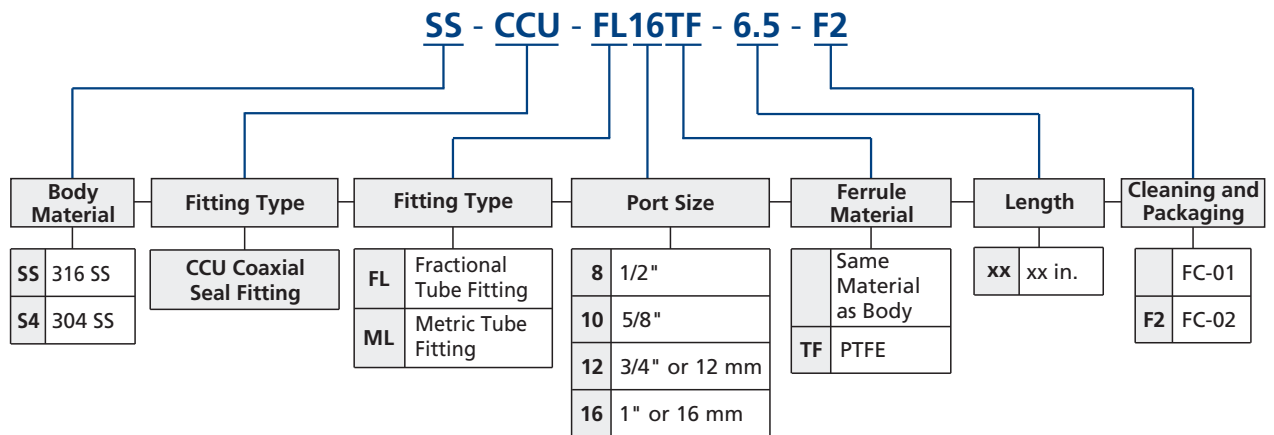
Dimensions of Coaxial Seal Fittings



Fractional Tube				
T-Tube O.D. in.	Basic Ordering Number	Dimensions, in. (mm)		
		L	G	F
1/2	-CCU-FL8-5.3	5.30 (135)	0.87 (22.2)	0.81 (20.6)
	-CCU-FL8-4.3	4.30 (109)		
5/8	-CCU-FL10-4.42	4.42 (112)	1.00 (25.4)	0.94 (23.8)
	-CCU-FL10-5.3	5.30 (135)		
3/4	-CCU-FL12-6.55	6.55 (166)	1.13 (28.6)	1.06 (27.0)
	-CCU-FL12-4.3	4.30 (109)		
1	-CCU-FL16-3.5	3.50 (90)	1.50 (38.1)	1.37 (34.9)
	-CCU-FL16-4.3	4.30 (109)		
	-CCU-FL16-6.5	6.50 (165)		

Dimensions are for reference only and are subject to change;
Dimensions are shown with FITOK nuts finger-tight.

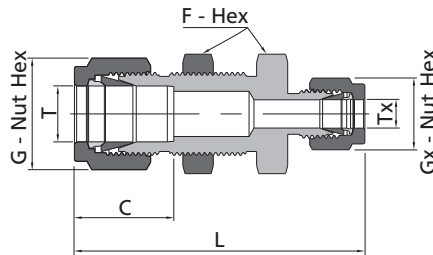
Ordering Number Description



Note: "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number. Not all combinations are available.

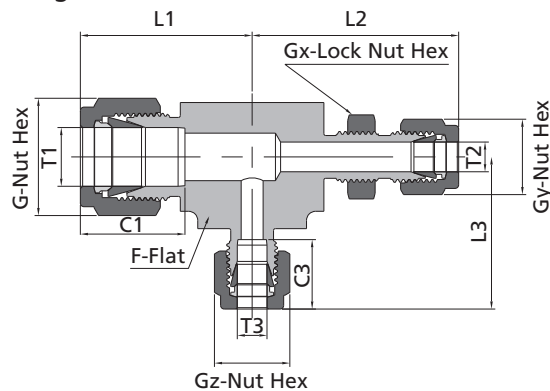
Other Fittings Used in Connection

Bulkhead Bored-Through Reducing Unions



Fractional Tube									
T-Tube O.D. in.	Tx-Tube O.D. in.	Basic Ordering Number	Dimensions, in. (mm)					Panel Hole Size in. (mm)	Max. Panel Thickness in. (mm)
			L	C	G	F	Gx		
1/2	1/4	-TU-FL4-BFL8	2.63 (66.8)	0.90 (22.9)	0.87 (22.2)	0.94 (23.8)	0.56 (14.3)	0.76 (19.4)	0.50 (12.7)

Bulkhead Bored-Through Reducing Tees



Fractional Tube															
T1-Tube O.D. in.	T2-Tube O.D. in.	T3-Tube O.D. in.	Basic Ordering Number	Dimensions, in. (mm)										Panel Hole Size in. (mm)	Max. Panel Thickness in. (mm)
				G	C1	F	Gx	Gy	Gz	C3	L1	L2	L3		
1/2	1/4	1/4	-TTT-FL8-TBFL4-FL4	0.87 (22.2)	0.90 (22.9)	0.94 (23.8)	0.63 (15.9)	0.56 (14.3)	0.56 (14.3)	0.60 (15.2)	1.49 (37.9)	1.96 (49.7)	1.33 (33.7)	0.45 (11.5)	0.40 (10.2)