HOKE Chromatography Fittings

HOKE Gyrolok tube fittings for use in gas or liquid chromatography applications are available in a variety of user-required configurations. HOKE's Chromatography Fittings feature low dead volumes, male nut designs, as well as configurations utilizing either press-fit or drop-in frits. For user convenience, both frit versions are available in a number of micron sizes. By combining the needs of the Chromatography Fitting with key Gyrolok features, such as controlled ferrule drive, the HOKE Chromatography Fitting offers capabilities and performance that are unmatched in the industry.

Features	Benefits
Low Dead Volume:	• Accurate analysis and measurement
Press-fit or Drop-in Frits:	• Filter elements can be ordered factory installed (press-fit) or for field installation (drop-in) • 4 micron sizes are offered as standard, other sizes can be provided • Perform final filtering function for low volume fluids • Press-fit frit design reduces internal volume
Conical Diffusion Angle:	• Assures fluid contact over a greater surface, extending frit life while reducing unfiltered volume
Male Nut Configuration:	• Reduced internal volume
Fritless Configurations:	• For use with G.C. columns or L.C.'s with screens
Controlled Ferrule Drive: HOKE Exclusive	• Long product life with outstanding remakeability
Interchangeability:	• Fittings are interchangeable with those of certain other manufacturers (consult factory)

Pressure Ratings
HOKE Gyrolok Chromatography fittings are rated for working pressures higher than the tubing recommended for use. Refer to HOKE's Tubing Data Charts for specific information.

Temperature Ratings
316 Stainless Steel: -325° F to +800° F (-200° C to +425° C)

Note: Intermittent use to 1200° F is possible, however prolonged exposure to temperatures over 800° F is not recommended.

How to Order—Fittings

2	F	U	M	P	1	316
Tube O.D. in 1/16's of an inch; 2=2/16=1/8"	**Nut Type** M=male F=female; size 2 nut is female	**Fitting Type** U=union RU=reducing union CM=male connector	**Nut Type** M=male F=female only used if different nut type is used	**Press-Fit Frit size** P=.5 micron R= 2 micron T= 5 micron V= 10 micron	**Tube Size** in 1/16's of an inch	**Material** 316 Stainless Steel

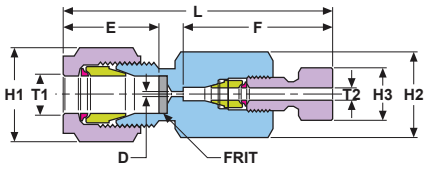
Dimension Tables

Drop-In Frit

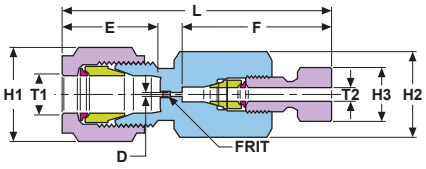
Part No.	Column O.D.
4FRIT [*] - 316	1/4
6FRIT [*] - 316	3/8
8FRIT [*] - 316	1/2
16FRIT [*] - 316	1

* Frit designator in microns: E=2.0, G=5.0, I=10.
Assign appropriate letter code for desired size.

Column End Fitting (for use with drop-in frit)



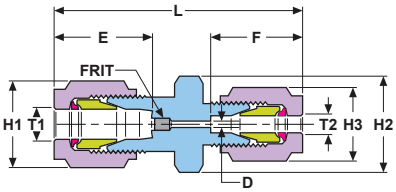
Part No.	T1 x T2 Tube Sizes	Dimensions — inches						
		L Length	D Dia.	H1 Hex Size	H2 Hex Size	H3 Hex Size	E Dim	F Dim
4FUM1-316	1/4 x 1/16	1.57	0.020	9/16	1/2	1/4	41/64	51/64
6FUM1-316	3/8 x 1/16	1.65	0.020	11/16	5/8	1/4	23/32	51/64
8FUM1-316	1/2 x 1/16	1.93	0.030	7/8	13/16	1/4	31/32	51/64
16FUM1-316	1 x 1/16	2.30	0.030	1 1/2	1 3/8	1/4	1 5/16	51/64



Column End Fitting (with press-fit frit)

				Dimensions — inches				
Part No.	T1 x T2 Tube Sizes	L Length	D Dia.	H1 Hex Size	H2 Hex Size	H3 Hex Size	E Dim	F Dim
2FUM[*]1-316	1/8 X 1/16	1.50	0.013	7/16	7/16	1/4	9/16	51/64
4FUM[*]1-316	1/4 X 1/16	1.57	0.013	9/16	1/2	1/4	41/64	51/64
6FUM[*]1-316	3/8 X 1/16	1.64	0.013	11/16	5/8	1/4	23/32	51/64

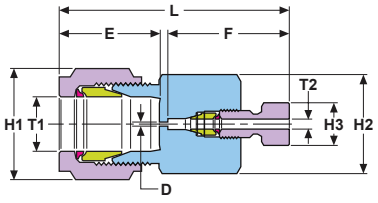
* Frit designator in microns: P=0.5, R=2.0, T=5.0, V=10. Assign letter code to complete part number.



Union (with press-fit frit)

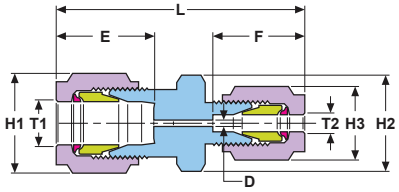
				Dimensions — inches				
Part No.	T1 x T2 Tube Sizes	L Length	D Dia.	H1 Hex Size	H2 Hex Size	H3 Hex Size	E Dim	F Dim
2FU[*]1-316	1/8 X 1/16	1.36	0.020	7/16	7/16	5/16	9/16	13/32
4FU[*]1-316	1/4 X 1/16	1.47	0.020	9/16	1/2	5/16	41/64	13/32
6FU[*]1-316	3/8 X 1/16	1.56	0.020	11/16	5/8	5/16	23/32	13/32

* Frit designator in microns: P=0.5, R=2.0, T=5.0, V=10. Assign letter code to complete part number.



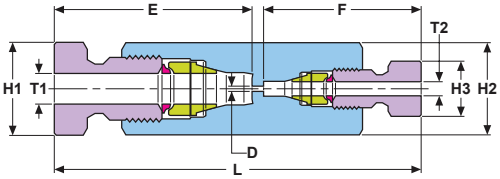
Column End Fitting

				Dimensions — inches				
Part No.	T1 x T2 Tube Sizes	L Length	D Dia.	H1 Hex Size	H2 Hex Size	H3 Hex Size	E Dim	F Dim
2FRUM1-316	1/8 X 1/16	1.41	0.013	7/16	7/16	1/4	9/16	51/64
4FRUM1-316	1/4 X 1/16	1.48	0.013	9/16	1/2	1/4	41/64	51/64
6FRUM1-316	3/8 X 1/16	1.56	0.013	11/16	5/8	1/4	23/32	51/64



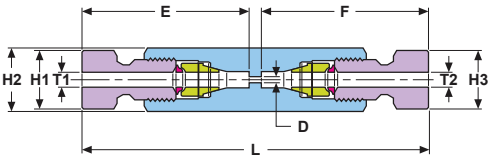
Reducing Union

				Dimensions — inches				
Part No.	T1 x T2 Tube Sizes	L Length	D Dia.	H1 Hex Size	H2 Hex Size	H3 Hex Size	E Dim	F Dim
2FRU1-316	1/8 X 1/16	1.33	0.020	7/16	7/16	5/16	9/16	13/32
4FRU1-316	1/4 X 1/16	1.47	0.020	9/16	1/2	5/16	41/64	13/32
6FRU1-316	3/8 X 1/16	1.56	0.020	11/16	5/8	5/16	23/32	13/32



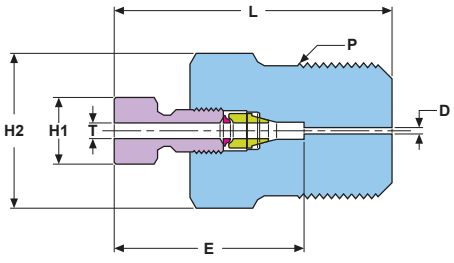
Reducing Union (male nut)

				Dimensions — inches				
Part No.	T1 x T2 Tube Sizes	L Length	D Dia.	H1 Hex Size	H2 Hex Size	H3 Hex Size	E Dim	F Dim
2MRU1-316	1/8 X 1/16	1.91	0.013	3/8	7/16	1/4	1 1/16	51/64



Union (male nut)

				Dimensions — inches				
Part No.	T1 x T2 Tube Sizes	L Length	D Dia.	H1 Hex Size	H2 Hex Size	H3 Hex Size	E Dim	F Dim
1MU-316	1/16 X 1/16	1.84	0.013	1/4	5/16	1/4	51/64	51/64
2MU-316	1/8 X 1/8	2.18	0.052	3/8	7/16	3/8	1 1/16	1 1/16



Male Connector (male nut)

					Dimensions — inches		
Part No.	T Tube Size	P Pipe Size	L Length	D Dia.	H1 Hex Size	H2 Hex Size	E Dim
1MCM1-316	1/16	1/16 NPT	0.880	0.013	1/4	5/16	51/64
1MCM2-316	1/16	1/8 NPT	0.940	0.013	1/4	7/16	51/64
1MCM4-316	1/16	1/4 NPT	1.160	0.013	1/4	9/16	51/64

Note: All dimensions are for reference only.