Gaugeable Chromatograph and Column End Fittings

Features

- Suitable for liquid or gas chromatography
- 316 stainless steel construction
- Offered in sizes from 1/16 to 1/2 in.

Pressure-Temperature Ratings

Swagelok chromatograph and column end fittings are rated to the working pressure of tubing as listed in Swagelok *Tubing Data*, MS-01-107. Careful selection of high-quality tubing is important when installing safe, leak-tight systems.

Cleaning

Fitting components are cleaned to remove machine oil, grease, and loose particles. For more information, see Swagelok Standard Cleaning and Packaging (SC-10), MS-06-62.

Materials of Construction

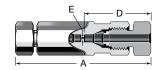
Material	Bar Stock ^①	Forgings ²
316 stainless steel	ASTM A276 ASME SA479	ASTM A182 ASME SA182

- ① Includes straight configurations.
- 2 Includes all elbows, crosses, and tees.

Ordering Information and Dimensions

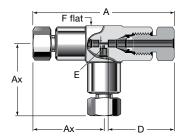
Dimensions are for reference only and are subject to change.

Chromatograph Fittings



Union-Low Dead Volume

Tube	Ordering		Dimension	s	Dead	
OD			D	Е	Volume	
Dimensions, in.						
1/16	SS-1F0-6GC	1.26	0.61	0.013	$6.6 imes10^{-5}\mathrm{cm}^3$	

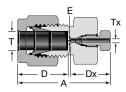


Union Tee-Low Dead Volume

Tube	Ordering		D	Dead			
OD			Ax	D	E	F	Volume
Dimensions, in.							
1/16	SS-1F0-3GC	1.32	0.66	0.61	0.013	3/8	$2.8 imes 10^{-4}~\mathrm{cm}^3$

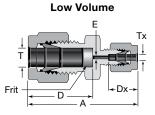


Column End Fittings

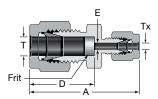


Female Swagelok Union

T Tube	Tx Tube	Ordering	Dimensions				Dead
OD	OD	Number	Α	D	Dx	E	Volume
	Dimensions, in.						
1/4	1/10	SS-400-6-1FGC	1.24	0.60	0.61	0.013	$6.8 imes 10^{-5} \mathrm{cm}^3$
3/8	1/16	SS-600-6-1FGC	1.30	0.66	0.61	0.013	6.8 × 10-5 CHIS



Zero Volume



Reducing Union

т	Tx		Dimensions					
Tube OD	Tube OD	Ordering Number	Α	D	Dx	E	Frit Thickness	Dead Volume
	Dimensions, in.							
Low Vo	lume							
1/8		SS-200-6-1LV	1.22	0.72			0.062	$5.4 imes 10^{-3} \mathrm{cm}^3$
1/4	1/16	SS-400-6-1LV	1.35	0.82	0.34	0.052	0.125	$6.7 imes 10^{-3} \mathrm{cm}^3$
3/8		SS-600-6-1LV	1.44	0.91			0.125	$6.5 imes 10^{-3}~\mathrm{cm}^3$
Zero Ve	Zero Volume							
1/8		SS-200-6-1ZV	1.22	0.73			0.062	
1/4	1/16	SS-400-6-1ZV	1.35	0.82		0.06		0
3/8	1/10	SS-600-6-1ZV	1.44	0.92		0.00	0.125	U
1/2		SS-810-6-1ZV	1.58	1.04				

The dead volume in the low-volume fitting is equal to the volume of the 0.052 in. bore. The tubing in the zero-volume fitting is inserted to the frit.

Both low- and zero-volume column end fittings are available with stainless steel sintered frits. Frits are loosely installed to facilitate removal and replacement. To order, add a frit designator to the ordering number.

Nominal Pore Size µm	Frit Designator	Nominal Pore Size µm	Frit Designator
0.1	S9	5	SA
0.25	S8	7	SB
0.5	S7	10	SD
1.0	S6	15	SE
2.0	S5	20	SF
3.0	S4	25	SG

Example: SS-200-6-1LVS9

For other nominal pore sizes, contact your authorized Swagelok sales and service representative.

Safe Product Selection

When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.

Caution: Do not mix or interchange parts with those of other manufacturers.

Warranty Information

Swagelok products are backed by The Swagelok Limited Lifetime Warranty. For a copy, visit swagelok.com or contact your authorized Swagelok representative.