Swagelok® Compression Fittings

General purpose, non-cryogenic Fluid Feedthroughs

**Features**
- Swagelok® Compression Fittings
- 1/8 and 1/4 inch tube sizes
- General purpose, non-cryogenic fluid use
- High temperature rated to 450°C
- Custom Solutions on Request

**Specifications**

<table>
<thead>
<tr>
<th>Material</th>
<th>CF Flange / Tubes, Stainless Steel</th>
<th>Swagelok® Fittings, Stainless Steel</th>
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<th>Vacuum Range</th>
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<tr>
<td>UHV, Ultrahigh vacuum</td>
<td>1x10^-13 Torr</td>
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<td>HV, High vacuum</td>
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<th>Temperature Range</th>
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<td>ISO KF Flange Mount</td>
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<tr>
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<td>450°C</td>
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**Notes**

1. Swagelok® fittings are designed for use with high-quality, fully annealed (Type 304, 304/304L, 316, 316/316L, 317, 317/317L, 321, 347) (seamless or welded and drawn) stainless steel hydraulic tubing, ASTM A269 and A213, or equivalent. Hardness not to exceed 90 HRB or 200 HV. Tubing to be free of scratches, suitable for bending and flaring. Consult Swagelok® for more information.

2. Overall assembly ratings must be adjusted to that of its lowest rated component.

3. This is a system bakeout temperature rating, without any fluid circulating in feedthrough tubes/lines. Consult Swagelok® for more information on high temperature and pressure ratings.

4. Unless specified otherwise, dimensional units in all sections of this catalog are expressed in inches.

**Swagelok® Compression Fitting Feedthroughs**

Accu-Glass compression tube fitting feedthroughs are terminated with Swagelok® brand compression fittings. As their name implies, Swagelok® fittings produce a demountable, gas-tight, cold-formed (swaged) mechanical joint between a tube’s OD and the ferrules housed inside each fitting. Tube finish, temper and wall thickness are all critical parameters for making reliable, gas and vacuum-tight seals. Please consult Swagelok® specifications and installation guidelines for best results.

These are general purpose, non-cryogenic, tube feedthroughs used for gas and/or fluid coolant delivery into high and ultrahigh vacuum systems.

AG fluid feedthroughs are available in single or dual tube configurations, with 1/8 or 1/4 inch tube diameters. Standard feedthroughs are offered with fittings TIG welded on both tube ends. However, an air-side bare-tube option is also available. This option can be ordered by appending a ‘.80’ suffix to the end of any standard part number (note that price remains the same). Bare-tube terminations are often required when compression joints will not fit — or a demountable joint is just not allowed, and where direct welding to stainless steel supply-lines is the preferred solution.

Can’t find what you need? Contact Accu-Glass Products to discuss other configuration options or solutions customized to your specific requirements.
### Swagelok® Compression Fittings

Feedthroughs for water or non-cryogenic fluids

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<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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1. For "bare tubes" on air-side, append *.80" to desired part number; price is the same with this option.
2. This is a bakeout temperature rating, without fluid in feedthrough tubes / lines.