

# Instrumentation Fittings

## Applications:

- high pressure
- high temperature
- nitrogen
- helium
- flammable gases
- hydraulic gases
- corrosive media

## Installation Instructions:

1. Cut tubing squarely and clean tube end thoroughly to remove burrs.
2. Insert the tubing into the assembly making sure the tubing seats firm against the shoulder of the body and the nut is finger tight.
3. Tighten the nut with a wrench 1¼ turns, while holding the body with a second wrench.

## Features:

- Instrumentation fittings come completely assembled.
- fully interchangeable with Swagelok® and Parker A-Lok® fittings
- double collet (ferrule) swaging action
- two positive seal points
- ASTM 316 stainless steel material construction
- temperature range: **-325°F to 1200°F** (-198°C to 648°C)
- pressure ratings: see chart to the left  
*Ratings listed are for reference only.*

## Safety Guidelines:

- Never connect, disconnect or remake a fitting with pressure in the system.
- Make sure all fittings are properly installed.
- It is not recommended to go beyond the pressure rating of the tubing. Elongation could occur in the tubing, shrinking the wall thickness and causing potential harm.
- For proper sealing it is recommended that the tubing and fittings be of like material.
- Always use proper thread lubricant and sealants on tapered pipe threads.
- Never bleed a system by loosening a fitting.

Suggested Working Pressures (PSI)

wall thk.	.028	.035	.049	.065	.083	.095	.109
¼"	<b>4,000</b>	<b>5,100</b>	<b>7,500</b>	<b>10,100</b>	---	---	---
⅜"	---	<b>3,300</b>	<b>4,700</b>	<b>6,600</b>	---	---	---
½"	---	<b>2,600</b>	<b>3,700</b>	<b>5,000</b>	<b>6,600</b>	---	---
⅝"	---	---	<b>2,900</b>	<b>3,900</b>	<b>5,200</b>	<b>6,000</b>	---
¾"	---	---	<b>2,400</b>	<b>3,200</b>	<b>4,200</b>	<b>4,900</b>	<b>5,700</b>

## Male Connectors



Tube OD	Male NPT	Interchanges	316 Stainless Steel		Pkg Qty
			Part #	Price/E	
⅛"	⅛"-27	200-1-2	<b>2-DMC-2</b>	<b>15.90</b>	10
	¼"-18	200-1-4	<b>2-DMC-4</b>	<b>16.80</b>	10
¼"	⅛"-27	400-1-2	<b>4-DMC-2</b>	<b>15.20</b>	10
	¼"-18	400-1-4	<b>4-DMC-4</b>	<b>16.55</b>	10
	⅜"-18	400-1-6	<b>4-DMC-6</b>	<b>18.65</b>	10
	½"-14	400-1-8	<b>4-DMC-8</b>	<b>24.75</b>	10
⅜"	¼"-18	600-1-4	<b>6-DMC-4</b>	<b>19.50</b>	10
	⅜"-18	600-1-6	<b>6-DMC-6</b>	<b>22.05</b>	10
	½"-14	600-1-8	<b>6-DMC-8</b>	<b>26.55</b>	10
½"	¼"-18	810-1-4	<b>8-DMC-4</b>	<b>28.90</b>	10
	⅜"-18	810-1-6	<b>8-DMC-6</b>	<b>29.70</b>	10
	½"-14	810-1-8	<b>8-DMC-8</b>	<b>33.10</b>	10
⅝"	½"-14	1010-1-8	<b>10-DMC-8</b>	<b>44.85</b>	10
¾"	½"-14	1210-1-8	<b>12-DMC-8</b>	<b>60.40</b>	10
	¾"	1210-1-12	<b>12-DMC-12</b>	<b>60.40</b>	10
	1"	1210-1-16	<b>12-DMC-16</b>	<b>83.00</b>	10
1"	¾"	1610-1-12	<b>16-DMC-12</b>	<b>105.00</b>	10
	1"	1610-1-16	<b>16-DMC-16</b>	<b>138.00</b>	10

## Female Connectors



Tube OD	Female NPT	Interchanges	316 Stainless Steel		Pkg Qty
			Part #	Price/E	
⅛"	⅛"-27	200-7-2	<b>2-DFC-2</b>	<b>\$18.90</b>	10
¼"	⅛"-27	400-7-2	<b>4-DFC-2</b>	<b>18.70</b>	10
	¼"-18	400-7-4	<b>4-DFC-4</b>	<b>23.10</b>	10
⅜"	¼"-18	600-7-4	<b>6-DFC-4</b>	<b>23.95</b>	10
	½"-14	600-7-8	<b>6-DFC-8</b>	<b>41.50</b>	10
½"	½"-14	810-7-8	<b>8-DFC-8</b>	<b>46.25</b>	10
⅝"	½"	1010-7-8	<b>10-DFC-8</b>	<b>54.00</b>	10
¾"	½"	1210-7-8	<b>12-DFC-8</b>	<b>62.00</b>	10
	¾"	1210-7-12	<b>12-DFC-12</b>	<b>73.00</b>	10
1"	1"	1610-7-16	<b>16-DFC-16</b>	<b>134.00</b>	10