

**Item # MS15-202, High Pressure Tubing**  
**QUOTE**



**High Pressure Tubing**

Autoclave Engineers offers a complete selection of austenitic, cold drawn stainless steel tubing designed to match the performance standards of Autoclave valves and fittings. Autoclave high pressure tubing is manufactured specifically for high pressure applications requiring both strength and corrosion resistance. The tubing is furnished in random lengths between 20 feet (6 meters) and 27 feet (8.2 meters). The average is 24 feet (7.3 meters). High pressure tubing is available in five sizes and a variety of materials. Special longer lengths are available. Consult factory.

**Inspection and Testing**

Autoclave Engineer's high pressure tubing is inspected to assure freedom from seams, laps, fissures or other flaws, as well as carburization or intergranular carbide precipitation. The outside and inside diameters of the tubing are controlled within close tolerances. Sample pieces of tubing for each lot are tested to confirm mechanical properties. Hydrostatic testing is also performed on a statistical basis and is conducted at the working pressure of the tube. Autoclave will perform 100% hydrostatic testing at additional cost if desired.

**Special Materials**

In addition to the type 316 and 304 stainless steel tubing listed in this section, Autoclave has limited stock of hard-to-obtain shorter lengths of the following tubing materials in some sizes: Monel 400\*, Inconel 600\*, Titanium Grade 2\*, Nickel 200\*, Hastelloy C276\* - (\* Trademark names)

Please consult factory for stock availability.

**Note:**

1. Autofrettagged tubing available (see technical Information section: Pressure Cycling for Autofrettage information)
2. For HighPressure, High Cycle (HPHC) tubing, MS15-201, MS15-202, MS15-209, and MS15-210 are available. (See Technical Information section: Pressure Cycling for additional information)

All dimensions for reference only and subject to change.

For prompt service, Autoclave stocks select products. Consult your local representative.

All general terms and conditions of sale, including limitations of our liability, apply to all products and services sold.

**SPECIFICATIONS**

Tube Materials	Stainless
Fits Connection Type	F250C
Outside Diameter Tube	1/4 Inch 6.35 mm
Tolerance/Outside Diameter	.248/.243 Inch 6.30/6.17 mm
Inside Diameter Tube	0.083 Inch 2.11 mm
Wall Thickness Tube	0.083 Inch 2.11 mm

Flow Area	0.005 in <sup>2</sup> 3.23 mm <sup>2</sup>
Working Pressure at -325 to 100°F (-198 to 37.8°C)	100000 psi 6894.64 bar
Working Pressure at 200°F (93°C)	100000 psi 6894.64 bar
Working Pressure at 400°F (204°C)	96210 psi 6633.24 bar
Working Pressure at 600°F (316°C)	90368 psi 6230.55 bar
Working Pressure at 800°F (427°C)	84420 psi 5820.46 bar