

Sour Service Products - High Pressure Tubing

Pressures to 30,000 psi (2068 bar)

Parker Autoclave Engineers offers a complete selection of seamless annealed stainless steel tubing designed to match the performance standards of Parker Autoclave Engineers valves and fittings for sour oil and gas service. Parker Autoclave Engineers 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). Sour service tubing is available in three sizes.



Inspection and Testing

Parker 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.

Tubing Tolerance

Nominal Tubing Size
inches (mm) Tolerance/Outside Diameter
inches (mm)

1/4 (6.35)	.248/.243 (6.30/6.17)
3/8 (9.53)	.370/.365 (9.40/9.27)
9/16 (14.29)	.557/.552 (14.15/14.02)

Catalog Number	Tube Material	Fits Connection Type	Tube Size Inches (mm)			Flow Area in. ² (mm ²)	Working Pressure psi (bar)*				
			Outside Diameter	Inside Diameter	Wall Thickness		-325 to 100°F -198 - 37.8°C	200°F 93°C	400°F 204°C	600°F 316°C	800°F 427°C
MS15-254	316SS	F250C	1/4 (6.35)	0.083 (2.11)	0.083 (2.11)	0.005 (3.23)	30,000 (2068.39)	30,000 (2068.39)	28,750 (1982.21)	27,000 (1861.56)	25,250 (1741.00)
MS15-252	316SS	F375C	3/8 (9.53)	0.125 (3.18)	0.125 (3.18)	0.012 (0.30)	30,000 (2068.39)	30,000 (2068.39)	28,750 (1982.21)	27,000 (1861.56)	25,250 (1741.00)
MS15-251	316SS	F562C	9/16 (14.29)	0.188 (4.78)	0.187 (4.75)	0.028 (0.71)	30,000 (2068.39)	30,000 (2068.39)	28,750 (1982.21)	27,000 (1861.56)	25,250 (1741.00)

NOTE: All sour oil and gas valves and fittings supplied without collars and glands unless otherwise specified.

* 316SS annealed material complies with NACE MR0175 material requirements.

*Maximum pressure rating is based on the lowest rating of any component.
Actual working pressure may be determined by tubing pressure rating, if lower.

All dimensions for reference only and subject to change.

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