

Natural gas, comprised mostly of methane, is one of the cleanest burning fossil fuels. It burns cleaner than conventional gasoline due to its lower carbon content. Compressed Natural Gas (CNG) is an alternative fuel for fleet and personal vehicles. Today, over 12 million CNG vehicles worldwide are estimated to be on the road. The growing number of CNG stations will provide increased availability of this fossil fuel, and CNG Plus™ Tubing is an important part of implementing these stations.

SSP's CNG Plus™ Tubing Jointly Developed with HandyTube

HandyTube has partnered with SSP to develop a unique solution exclusively for CNG stations. CNG Plus™ Tubing is designed to withstand extreme pressures associated with transporting compressed gas. Conventional stations use shorter lengths to transport CNG. CNG Plus™ Tubing is truly seamless and provided in exact, continuous lengths without any longitudinal or orbital welds to meet the unique requirements of each station, eliminating unnecessary labor associated with installing shorter lengths. Welds, orbital or longitudinal, used in high-pressure processes, such as this one, present an opportunity for defect, often resulting in inconvenient repairs. Those defects are eliminated when truly seamless CNG Plus™ Tubing is installed.

- Significantly reduced installation costs—Installing continuous-length, seamless CNG Plus™ Tubing takes much less time and effort than welding shorter lengths
- Superior corrosion resistance—Compared to standard tubing, CNG Plus™ Tubing with 2.5% min. moly. has superior corrosion resistance
- The right fit—When fittings are required, CNG Plus™ Tubing with restricted tolerances provides a tight seal
- Improved reliability—Using fewer welds reduces opportunity for defect, such as leak points and other long-term failures
- Increased installer and operator confidence—The entire length of CNG Plus™ Tubing is 100% pressure tested and passes Positive Material Identification prior to being used in the field
- Traceability—All material is fully heat and lot traceable, allowing us to track products from raw material to finished goods
- Paramount quality—CNG Plus™ Tubing undergoes 100% hydrostatic testing to ensure material is defect-free and safe to install



Certifications

- ASTM A269, *Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service*
- ASTM A213, *Standard Specification for Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes*
- Pressure Equipment Directive (PED) 97/23/EC
- ISO 9001
- NACE MR0175
- EN 10204 3.1

Specifications

CNG Plus™ Tubing is designed for use in all CNG stations. These long-length seamless coils eliminate the need for coupling multiple shorter lengths. Two unique CNG solutions are available.

SSP Part Number	Outer Diameter [OD]	OD Tolerance	Wall Thickness [WT]	WT Tolerance	Design Pressure*
CRTT3160500X070-CNG	0.500"	+0.005/-0"	0.070"	±10%	5,500 psi

SSP Part Number	Outer Diameter [OD]	OD Tolerance	Wall Thickness [WT]	WT Tolerance	Design Pressure*
CRTT3160750X104-CNG	0.750"	+0.005/-0"	0.104"	±10%	5,500 psi

*Internal design gage pressure calculated per ASME B31.3 for temperatures -425 to 300°F

Chemical Composition [%] of UNS S31600/S31603 [TP 316/316L 2.5% Min. Mo.]

C	Mn	P	S	Si	Ni	Cr	Mo	N
0.035	2.00	0.045	0.030	1.00	10.0-14.0	16.0-18.0	2.5-3.0	0.04

*All limits are maximum unless otherwise specified.

Mechanical Properties of CNG Plus™ Tubing

Min. Tensile Strength	Min. Yield Strength	Min. Elongation in 2"	Max. Hardness
75 ksi	30 ksi	35%	80 HRB

For more information, and to find technical specifications for CNG Plus™ Tubing, please visit:

<http://www.handytube.com/cng-tubing>