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## Instrument Tubing

Quality-assured domestic and non-domestic stainless steel tubing for hydraulic and instrumentation applications



ENGINEERING YOUR SUCCESS.



# THE CHOICE IS YOURS.

Parker now offers quality-assured domestic and non-domestic stainless steel seamless tubing.

**For chem/petrochem,  
oil and gas, and  
power generation.**

When it comes to stainless steel tubing for hydraulic and instrumentation systems processing harsh media or in corrosive environments, the safety, integrity, and reliability of the tubing are critical. That's why Parker Instrumentation Products

Division (IPD) is partnering with tubing suppliers to bring you quality-assured domestic and non-domestic 316/316L stainless steel tubing that meets Parker performance standards.

**Controlled.  
Qualified. Branded.**

For Parker seamless, straight length tubing, every step of the tube production process is controlled to ensure consistent quality. Quality control begins with an audit trail for the raw materials and continues from the point of steel melting, right through to the finished product. This level of attention to detail extends throughout the design and manufacturing chain, up to and including verification of performance by independent third-party test houses.

Consequently, both Parker domestic and non-domestic tubing are characterized by the ovality, concentricity, and hardness limits required for superior performance in hydraulic and instrumentation system applications. Plus Parker tubing offers the high surface smoothness and close dimensional tolerances needed to ensure there are no leakages when connected with couplings or to Parker fittings.



Features	Benefits
Weldability	Controlled and consistent quality to provide easy welding
Plugged ends	Protection during transit and from environmental contamination
Strictly controlled ovality, concentricity, and close tolerances	Superior performance in a wide variety of system applications, temperatures and pressures
Made under high quality standards	Meets ASME, ISO 9001, QS-9000, PED 97/23/EC, JIS, TUV, and LRQA requirements for tubing
Parker "branded" on P1 non-domestic and P2 domestic tubing	Assures installers that tubing – as well as tube fittings and valves – have been qualified by Parker Hannifin

# Parker and Parker Plus Tubing

## Features

- Available in sizes from 1/8 to 1 inch outside diameter
- Marked to indicate size, material, specifications, and heat number
- Parker "branded" for quality assurance

## Chemical Composition

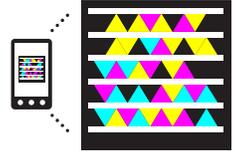
Element	Material Grade 316/316L Composition
Chromium	16.0-18.0
Nickel	10.0-14.0
Molybdenum	2.00-3.00
Manganese	2 max
Silicon	1 max
Carbon	0.035 max
Sulfur	0.03 max

## Material Standards

Grade	316/316L
UNS	S31600/S31603
ASTM	A213/A269
ASME	SA213

## Pressure Ratings

Scan here for more information.



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## P1 Parker Tubing

Non-Domestic Seamless Stainless Steel



### Ordering Information and Dimensions

Tube O.D. in.	Nominal Wall Thickness in.	Basic Ordering Number	Nominal Length ft.	Weight lb/ft.
1/8	0.028	TUBE 1/8X.028-316SMLS-P1	20	0.034
	0.035	TUBE 1/4X.035-316SMLS-P1		
1/4	0.049	TUBE 1/4X.049-316SMLS-P1	20	0.105
	0.065	TUBE 1/4X.065-316SMLS-P1		
3/8	0.035	TUBE 3/8X.035-316SMLS-P1	20	0.127
	0.049	TUBE 3/8X.049-316SMLS-P1		
1/2	0.065	TUBE 3/8X.065-316SMLS-P1	20	0.215
	0.035	TUBE 1/2X.035-316SMLS-P1		
3/4	0.049	TUBE 1/2X.049-316SMLS-P1	20	0.236
	0.065	TUBE 1/2X.065-316SMLS-P1		
1	0.049	TUBE 3/4X.049-316SMLS-P1	20	0.367
	0.065	TUBE 3/4X.065-316SMLS-P1		
1	0.065	TUBE 1X.065-316SMLS-P1	20	0.649

## P2 Parker Plus Tubing

Domestic Seamless Stainless Steel



### Ordering Information and Dimensions

Tube O.D. in.	Nominal Wall Thickness in.	Basic Ordering Number	Nominal Length ft.	Weight lb/ft.
1/8	0.028	TUBE 1/8X.028-316SMLS-P2	20	0.034
	0.035	TUBE 1/4X.035-316SMLS-P2		
1/4	0.049	TUBE 1/4X.049-316SMLS-P2	20	0.105
	0.065	TUBE 1/4X.065-316SMLS-P2		
3/8	0.035	TUBE 3/8X.035-316SMLS-P2	20	0.127
	0.049	TUBE 3/8X.049-316SMLS-P2		
1/2	0.065	TUBE 3/8X.065-316SMLS-P2	20	0.215
	0.035	TUBE 1/2X.035-316SMLS-P2		
3/4	0.049	TUBE 1/2X.049-316SMLS-P2	20	0.236
	0.065	TUBE 1/2X.065-316SMLS-P2		
1	0.049	TUBE 3/4X.049-316SMLS-P2	20	0.367
	0.065	TUBE 3/4X.065-316SMLS-P2		
1	0.065	TUBE 1X.065-316SMLS-P2	20	0.649

# Putting it all together

Parker IPD has the fittings, tools, and training you need to help reduce the risk of system leaks.

## The Fittings

Four flareless fitting innovations allow users to make tubing connections faster, smarter, cleaner, and safer; with improvements ranging from lower bill of material costs and faster assembly to fewer potential leak paths, lower emissions, and longer life.



- **A-LOK®:** A twin-ferrule compression fitting that dominates low-pressure applications, aided by the unique anti-corrosion performance of its Suparcase®-treated ferrule.



- **CPI™:** Delivers a single-ferrule version (Suparcase-treated) of the industry standard twin-ferrule fitting, reducing potential leak paths.



- **MPI™:** Brings the Suparcase-treated ferrule compression assembly principle to medium pressures, providing a time- and cost-saving alternative to cone and thread fittings for applications up to 15,000 psi (1034 bar).



- **Phastite®:** A ferrule-less, push-fit connector that can be used in applications up to 20,000 psi (1380 bar). Its innovative design concept combines quick installation with a simple assembly process.

**See our Tube Fittings Catalog 4230/4233 for more information.**



## The Tubing Tools

Parker IPD offers a comprehensive selection of hand-operated tools for fabricating small bore tubing runs. Available for a broad spectrum of instrumentation tubing sizes, the tools include seven heavy-duty tube benders, a cutter, a deburrer tool, a sawing vise with an integral hacksaw guide, and inspection gauges. The tools are key to reliable, leak-free assembly, easily providing accurate, tight radius bends of up to 180 degrees on soft copper, aluminum, brass, steel, and stainless steel tubing.

**See our Tube Fabricating Equipment Catalog 4290 for more information.**



## The Training

Parker's Tube Fabrication Training Seminar can teach anybody the right way to measure, cut, and bend tubing. The class is designed to demonstrate the proper method of installing tube fittings in various system applications. Attendees will learn the right way to measure, cut, and bend tubing, as well as the correct tube fitting make-up and remake procedures. Plus all attendees will receive a free training guide.

**Call Parker IPD at 256-881-2040 for more information.**



Parker Hannifin Corporation  
**Instrumentation Products Division**  
1005 A Cleaner Way  
Huntsville, AL 35805  
phone 256 881 2040  
fax 256 881 5730  
[www.parker.com/ipdus](http://www.parker.com/ipdus)