

Get in touch so we can provide a tailor made solution

**Global Offices:**

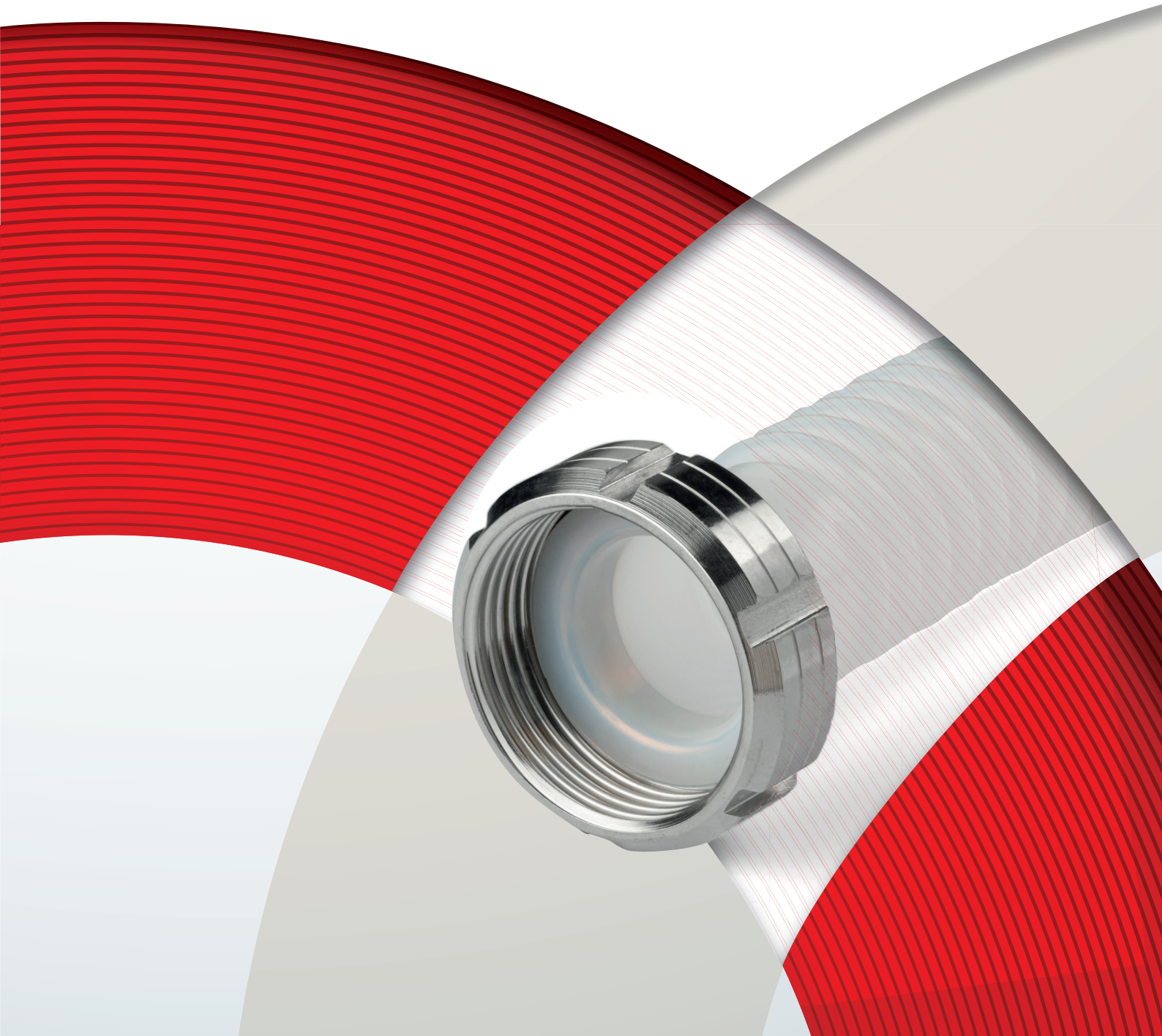
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World leading in PTFE Tubing



Fluortubing is a privately owned manufacturing company based in the Netherlands which is specialized in the extrusion of thin wall PTFE Tubing. As a manufacturer we are in control of the whole process which give us the ability to create and deliver taylor made PTFE solutions for the most complex issues.

Fluortubing was founded in 1994 in Utrecht, the Netherlands. Our Headoffice is still located in Utrecht, but since 1994 the company has expanded to a manufacturing plant in the USA, multiple Joint Ventures in China and a full in-house engineering firm located in the Netherlands.

### The uniqueness of PTFE

- One of the widest working temperatures ranges of all plastics (-200°C to +250°C)
- Almost complete chemical inearthness
- The lowest friction coefficient of any known material
- The best dielectric values of all known solids

### Our products are mostly found in the following fields:

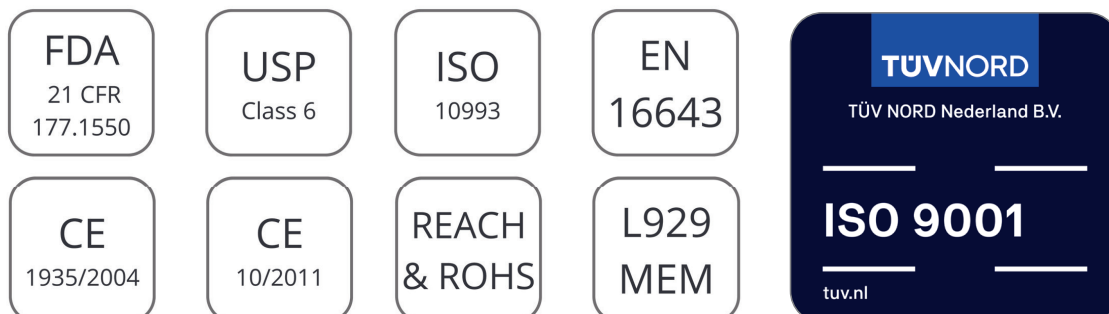
- Pharmaceutical Industries
- Medical Industries
- Chemical Processing Industries
- Power Generation Industries
- Green Hydrogen Generation
- Semiconductor Industries
- Aircraft & Automotive Industries

Fluortubing offers a line of standard PTFE hose products and also develops and produces a wide range of custom made products for complex challenges.

**Quality** – All of our products are checked and tested by our Quality Control department before shipping. Fluortubing is ISO 9001 and TÜV certified and all our products are CE and FDA approved.

**Innovation** – As manufacturer we are always working on new products and solutions based on Fluoroplastics. At our research and laboratory facility the innovation team consistently works on new products and applications.

**Technology** – We design and build our own production machinery and equipment at our in-house engineering company. This ensures the highest quality and the latest technologies applied in our production.



# Smoothbore PTFE Tubing

## Key Features:

- Smooth ID and OD: Available in almost any combination of ID, wall, and OD.
- Versatile Sizes: Diameters range from less than 1 mm to 200 mm, with wall thicknesses from 0.1 mm to 5 mm.
- Wide Range of Applications: Excellent chemical and temperature resistance make it suitable for various uses.
- Unrivalled Electrical Properties: Offers superior performance in electrical applications.
- Non-Stick and Low Friction Coefficient: Ensures minimal resistance and easy cleaning.
- Color Options: Available in various colors, with multiple fillers and antistatic, conductive properties, including conductive striped tubing.
- Stock Sizes: Available sizes are listed in the spec sheet.

Refer to the spec sheets for available stock sizes and specific product details. For other sizes and tolerances, please contact the sales department.

**Temperature:** -70 °C to +260 °C

## Colors:

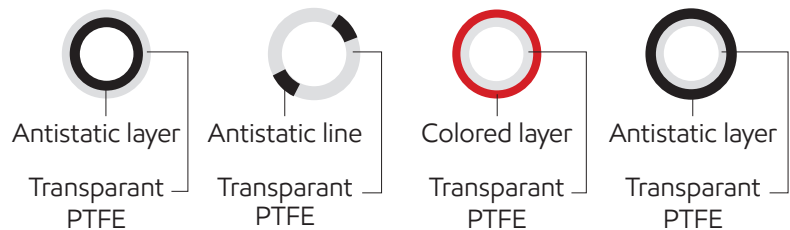


## Fillers: Carbon Black

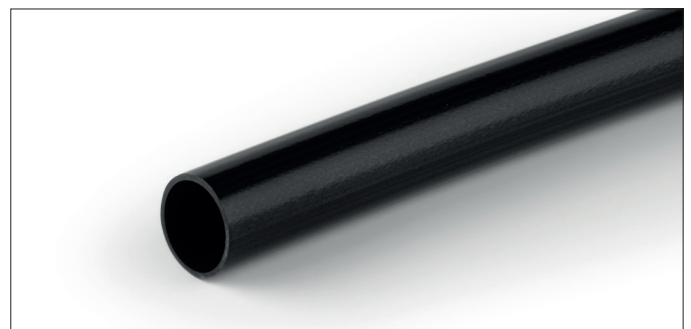
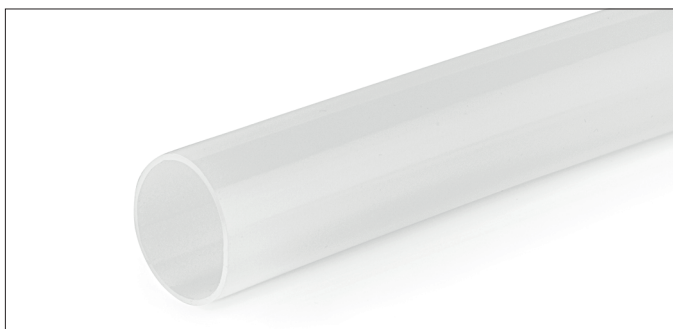


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## Coextrusion:

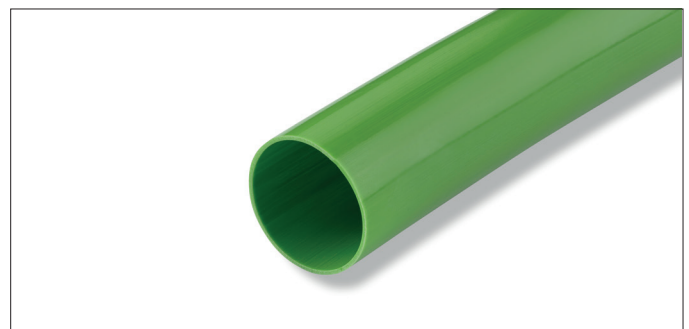
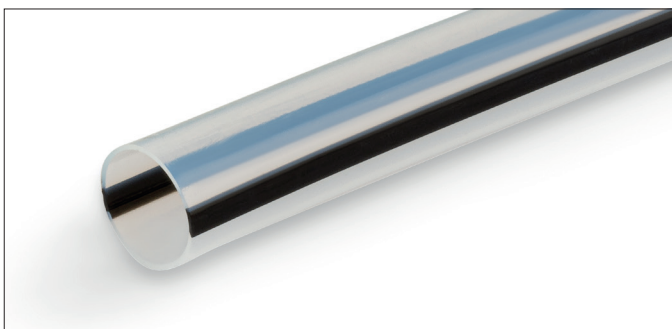


**Conductive** –  $R < 106 \Omega$  – Antistatic  $R < 109 \Omega$



| Smoothbore tubing 1 mm wall |       |        |      |        |     |        |
|-----------------------------|-------|--------|------|--------|-----|--------|
| OD                          | ID    | T(+/-) | WT   | T(+/-) | EC  | WP Bar |
| 3,00                        | 1,00  | 0,20   | 1,00 | 0,15   | 20% | 30,0   |
| 4,00                        | 2,00  | 0,20   | 1,00 | 0,15   | 20% | 23,0   |
| 5,00                        | 3,00  | 0,25   | 1,00 | 0,15   | 20% | 18,0   |
| 6,00                        | 4,00  | 0,25   | 1,00 | 0,15   | 20% | 15,0   |
| 7,00                        | 5,00  | 0,25   | 1,00 | 0,15   | 20% | 13,0   |
| 8,00                        | 6,00  | 0,30   | 1,00 | 0,15   | 20% | 11,0   |
| 10,00                       | 8,00  | 0,30   | 1,00 | 0,15   | 20% | 9,0    |
| 12,00                       | 10,00 | 0,30   | 1,00 | 0,15   | 20% | 8,0    |
| 14,00                       | 12,00 | 0,30   | 1,00 | 0,15   | 20% | 7,0    |
| 16,00                       | 14,00 | 0,40   | 1,00 | 0,15   | 20% | 6,0    |
| 18,00                       | 16,00 | 0,40   | 1,00 | 0,15   | 20% | 5,0    |
| 20,00                       | 18,00 | 0,40   | 1,00 | 0,15   | 20% | 4,0    |
| 22,00                       | 20,00 | 0,50   | 1,00 | 0,15   | 20% | 3,0    |
| 24,00                       | 22,00 | 0,50   | 1,00 | 0,15   | 20% | 2,6    |
| 26,00                       | 24,00 | 0,50   | 1,00 | 0,15   | 20% | 2,4    |
| 28,00                       | 26,00 | 0,50   | 1,00 | 0,15   | 20% | 2,2    |
| 30,00                       | 28,00 | 0,70   | 1,00 | 0,15   | 20% | 2,0    |
| 32,00                       | 30,00 | 0,70   | 1,00 | 0,15   | 20% | 1,9    |
| 34,00                       | 32,00 | 0,70   | 1,00 | 0,15   | 20% | 1,8    |
| 36,00                       | 34,00 | 0,70   | 1,00 | 0,15   | 20% | 1,7    |
| 38,00                       | 36,00 | 0,70   | 1,00 | 0,15   | 20% | 1,6    |
| 40,00                       | 38,00 | 1,00   | 1,00 | 0,15   | 20% | 1,5    |
| 42,00                       | 40,00 | 1,00   | 1,00 | 0,15   | 20% | 1,4    |
| 44,00                       | 42,00 | 1,25   | 1,00 | 0,15   | 20% | 1,3    |
| 46,00                       | 44,00 | 1,25   | 1,00 | 0,15   | 20% | 1,3    |
| 48,00                       | 46,00 | 1,25   | 1,00 | 0,15   | 20% | 1,3    |
| 50,00                       | 48,00 | 1,25   | 1,00 | 0,15   | 20% | 1,2    |

**OD:** Outside diameter / **ID:** Inside diameter / **WT:** Wall Thickness / **Ec:** Eccentricity of wall thickness / **WP:** Working pressure = Burst Pressure : 4



# PTFE Smoothbore Standard wall Braided products specifications

## Materials of Construction::

PTFE - Virgin Seamless extruded PTFE tube according to ISO 12086 part 1. PTFE - EPDM 1.6.CE 4\_12  
Stainless steel - AISI grade 304 steel wire bright and hard drawn to a minimum tensile strength of 1900 N/mm<sup>2</sup> (316SS available to special order, recommended for off shore use)

## Typical applications:

Used for high and low pressure steam, chemicals, inks, paints, adhesives, brake fluids, oils, fuels, refrigerants, foodstuffs and detergents.

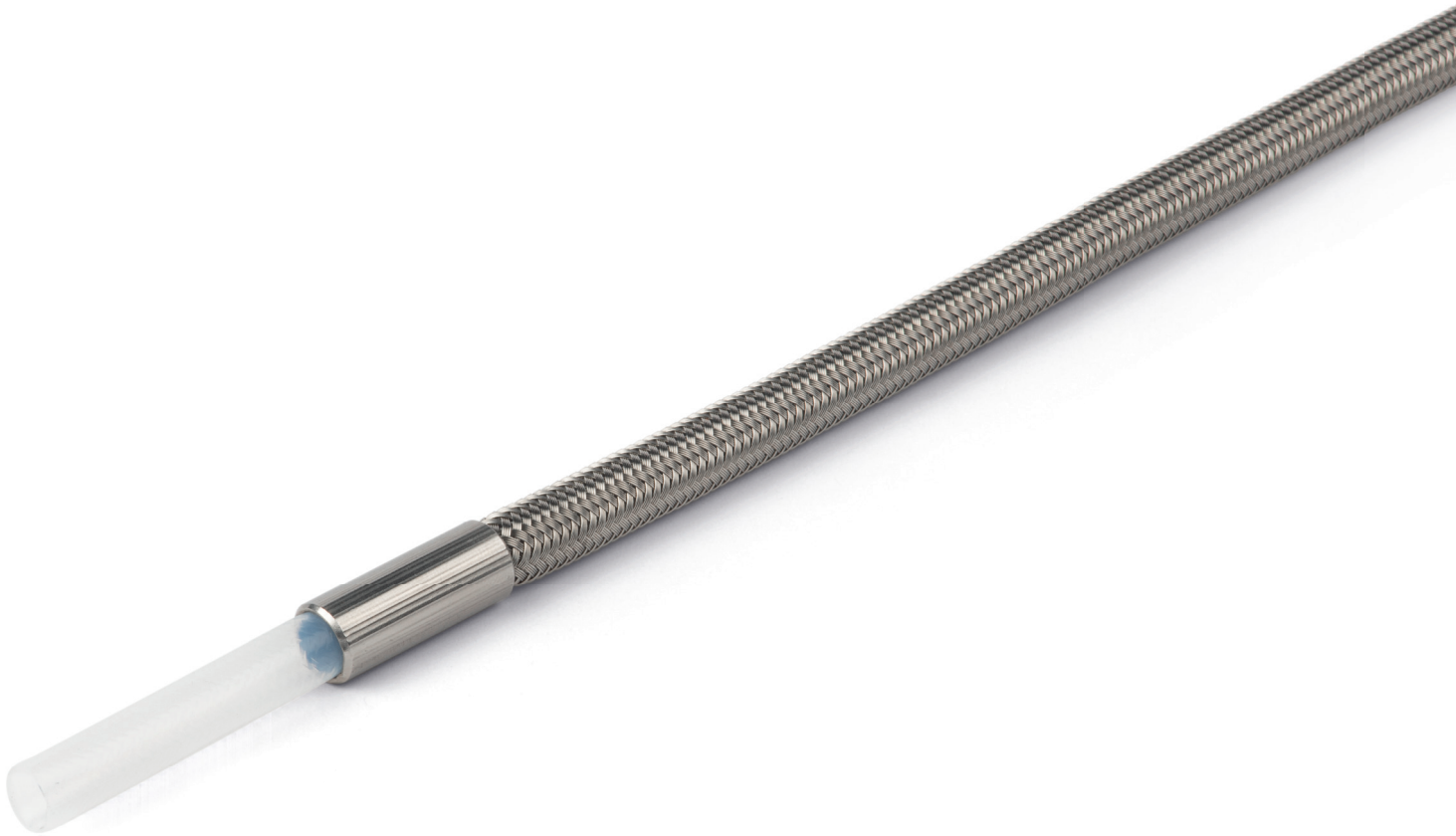
**Temperature:** -70 °C to +260 °C

## Typical applications:

Used for high and low pressure steam, chemicals, inks, paints, adhesives, brake fluids, oils, fuels, refrigerants, foodstuffs and detergents.

## Limitations:

Maximum pressures listed are based on a 3:1 safety factor and up to a maximum working temperature of 130 °C. For higher temperatures reduce MWP by 0.5 °C for every degree above 130°C. In applications where the working pressure is above 100BAR (1455PSI) and is transferring or being tested with penetrating fluids or gasses, it is recommended to use high pressure gas liner. Consult with supplier. Not suitable for the transfer of Electrically resistive fluids at high flow rates. For such applications an antistatic liner is recommended.



# PTFE Smoothbore Heavy wall Braided products specifications

## Materials of Construction::

PTFE - Virgin Seamless extruded PTFE tube according to ISO 12086 part 1. PTFE - EPDM 1.6.CE 4\_12  
Stainless steel - AISI grade 304 steel wire bright and hard drawn to a minimum tensile strength of 1900 N/mm<sup>2</sup> (316SS available to special order, recommended for off shore use)

## Typical applications:

Used for Heavy duty applications and gasses up to 100 Bar, steam, chemicals, inks, paints, adhesives, brake fluids, oils, fuels, refrigerants, foodstuffs and detergents.

**Temperature:** -70 °C to +260 °C

## Typical applications:

Used for high and low pressure steam, chemicals, inks, paints, adhesives, brake fluids, oils, fuels, refrigerants, foodstuffs and detergents.

## Limitations:

Maximum pressures listed are based on a 3:1 safety factor and up to a maximum working temperature of 130 °C. For higher temperatures reduce MWP by 0.5 °C for every degree above 130C. In applications where the working pressure is above 100BAR (1455PSI) and is transferring or being tested with penetrating fluids or gasses, it is recommended to use high pressure gas liner. Consult with supplier. Not suitable for the transfer of Electrically resistive fluids at high flow rates. For such applications an antistatic liner is recommended



# Convoluting PTFE Tubing

## Key Features:

- Convoluted ID and OD: Designed for exceptional flexibility.
- High Kink and Vacuum Resistance: Ensures durability and reliability under challenging conditions.
- Variety of Options: Available in low convoluted, heavy wall, and extra heavy wall tubing, with sizes ranging from 1/4" to 6" bore.
- Specialty Tubing: Antistatic, conductive, and conductive striped options are available for all standard items.
- Custom Solutions: Non-standard sizes can be designed and manufactured upon request.

## Temperature Limitations:

Operational Range: From -70°C to +260°C.

Note: Maximum working pressures decrease at temperatures above 150°C.

## Vacuum Limitations:

For hose sizes up to 2" HW convoluted products, they are usable at vacuum levels up to -0.9 bar at 150°C. Note: Vacuum resistance decreases by 1% for each degree above 150°C.

## Available PTFE Liner Grades:

- Natural
- Antistatic
- Zebra (antistatic lines)

Refer to the spec sheets for detailed product-specific values.



| Heavy wall convoluted tubing |      |         |        |         |        |         |       |         |     |          |      |     |
|------------------------------|------|---------|--------|---------|--------|---------|-------|---------|-----|----------|------|-----|
| Size (inch)                  | WT   | T (+/-) | ID     | T (+/-) | OD     | T (+/-) | Pitch | T (+/-) | EC  | Vacuum   | MBP  | MWP |
| 1/4                          | 0,65 | 0,10    | 6,00   | 0,25    | 10,00  | 0,10    | 5,00  | 0,50    | 10% | -0,9 bar | 16,8 | 4,2 |
| 5/16                         | 0,65 | 0,10    | 8,00   | 0,25    | 12,00  | 0,25    | 5,00  | 0,50    | 10% | -0,9 bar | 14,0 | 3,5 |
| 3/8                          | 0,65 | 0,10    | 10,00  | 0,35    | 14,50  | 0,35    | 5,00  | 0,50    | 10% | -0,9 bar | 11,6 | 2,9 |
| 1/2                          | 0,9  | 0,10    | 13,00  | 0,40    | 18,00  | 0,40    | 6,00  | 0,50    | 10% | -0,9 bar | 13,0 | 3,2 |
| 5/8                          | 0,9  | 0,10    | 16,00  | 0,40    | 21,00  | 0,40    | 6,00  | 0,50    | 10% | -0,9 bar | 11,1 | 2,8 |
| 3/4                          | 1,0  | 0,10    | 20,00  | 0,40    | 28,00  | 0,40    | 8,00  | 0,50    | 10% | -0,9 bar | 9,3  | 2,3 |
| 1                            | 1,10 | 0,10    | 25,00  | 0,50    | 34,00  | 0,40    | 8,00  | 0,50    | 10% | -0,9 bar | 8,4  | 2,1 |
| 1 1/4                        | 1,15 | 0,10    | 32,00  | 0,50    | 42,00  | 0,50    | 10,00 | 0,50    | 10% | -0,9 bar | 7,1  | 1,8 |
| 1 1/2                        | 1,45 | 0,15    | 37,00  | 0,50    | 47,00  | 0,50    | 10,00 | 0,50    | 10% | -0,9 bar | 8,0  | 2,0 |
| 1 3/4                        | 1,45 | 0,15    | 45,00  | 0,50    | 57,00  | 0,50    | 12,00 | 0,60    | 10% | -0,9 bar | 6,6  | 1,6 |
| 2                            | 1,50 | 0,15    | 50,00  | 1,00    | 61,00  | 0,75    | 12,50 | 0,60    | 10% | -0,9 bar | 6,4  | 1,6 |
| 2 1/4                        | 1,50 | 0,15    | 57,00  | 1,00    | 73,00  | 1,00    | 16,00 | 0,80    | 10% | -0,9 bar | 5,3  | 1,3 |
| 2 1/2                        | 1,50 | 0,15    | 63,00  | 1,00    | 82,00  | 1,00    | 18,00 | 0,90    | 10% | -0,9 bar | 4,7  | 1,2 |
| 3                            | 1,50 | 0,15    | 74,00  | 1,50    | 92,00  | 1,00    | 20,00 | 1,00    | 10% | -0,9 bar | 4,2  | 1,1 |
| 4                            | 2,00 | 0,20    | 100,00 | 2,00    | 125,00 | 2,00    | 24,00 | 1,20    | 10% | -0,9 bar | 4,1  | 1,0 |
| 5                            | 2,50 | 0,20    | 125,00 | 2,00    | 152,00 | 2,00    | 30,00 | 1,50    | 10% | -0,9 bar | 4,3  | 1,1 |
| 6                            | 2,50 | 0,20    | 150,00 | 2,00    | 180,00 | 2,50    | 30,00 | 1,50    | 10% | -0,9 bar | 3,6  | 0,9 |

| Low wall convoluted tubing |      |         |       |         |       |         |       |         |     |          |     |     |
|----------------------------|------|---------|-------|---------|-------|---------|-------|---------|-----|----------|-----|-----|
| Size (inch)                | WT   | T (+/-) | ID    | T (+/-) | OD    | T (+/-) | Pitch | T (+/-) | EC  | Vacuum   | MBP | MWP |
| 3/4                        | 0,90 | 0,10    | 19,30 | 0,30    | 24,20 | 0,35    | 7,00  | 1,00    | 10% | -0,9 bar | 9,6 | 2,4 |
| 1                          | 0,95 | 0,10    | 26,20 | 0,40    | 32,50 | 0,50    | 7,00  | 1,00    | 10% | -0,9 bar | 7,6 | 1,9 |
| 1 1/4                      | 0,95 | 0,10    | 32,75 | 0,50    | 40,00 | 0,50    | 8,00  | 1,00    | 10% | -0,9 bar | 6,2 | 1,5 |
| 1 1/2                      | 0,95 | 0,10    | 38,75 | 0,50    | 48,00 | 0,50    | 8,00  | 1,00    | 10% | -0,9 bar | 5,1 | 1,3 |
| 2                          | 1,00 | 0,10    | 51,30 | 0,50    | 60,00 | 1,00    | 8,00  | 1,00    | 10% | -0,9 bar | 4,3 | 1,1 |

| Full Vacuum convoluted tubing |      |         |       |         |        |         |       |         |     |          |      |     |
|-------------------------------|------|---------|-------|---------|--------|---------|-------|---------|-----|----------|------|-----|
| Size (inch)                   | WT   | T (+/-) | ID    | T (+/-) | OD     | T (+/-) | Pitch | T (+/-) | EC  | Vacuum   | MBP  | MWP |
| 5/8                           | 1,50 | 0,15    | 16,00 | 0,40    | 22,50  | 0,40    | 6,00  | 0,50    | 10% | -0,9 bar | 17,3 | 4,3 |
| 3/4                           | 1,50 | 0,15    | 20,00 | 0,40    | 28,00  | 0,40    | 8,00  | 0,50    | 10% | -0,9 bar | 13,9 | 3,5 |
| 1                             | 1,50 | 0,15    | 25,00 | 0,60    | 33,50  | 0,80    | 8,00  | 0,50    | 10% | -0,9 bar | 11,6 | 2,9 |
| 1 1/4                         | 1,50 | 0,15    | 32,00 | 0,80    | 41,50  | 0,80    | 10,00 | 0,50    | 10% | -0,9 bar | 9,4  | 2,3 |
| 1 1/2                         | 2,00 | 0,20    | 38,00 | 1,00    | 54,00  | 1,00    | 12,50 | 0,50    | 10% | -0,9 bar | 9,6  | 2,4 |
| 2                             | 2,00 | 0,20    | 48,00 | 1,00    | 62,00  | 1,00    | 12,50 | 0,50    | 10% | -0,9 bar | 8,4  | 2,1 |
| 2 1/2                         | 2,00 | 0,20    | 63,00 | 1,00    | 82,00  | 2,00    | 16,00 | 1,00    | 10% | -0,9 bar | 6,3  | 1,6 |
| 3                             | 2,30 | 0,25    | 74,00 | 1,00    | 90,00  | 2,00    | 18,00 | 1,00    | 10% | -0,9 bar | 6,6  | 1,7 |
| 4                             | 3,00 | 0,30    | 98,00 | 2,50    | 124,00 | 2,50    | 24,00 | 1,00    | 10% | -0,9 bar | 6,3  | 1,6 |

**OD:** Outside diameter / **ID:** Inside diameter / **WT:** Wall Thickness / **Ec:** Eccentricity of wall thickness  
**MWP:** Maximum working pressure / **MBP:** Minimum Burst Pressure

# Convoluted Braided PTFE Tubing

## Temperature Limitations

Usable from -70°C to +260°C.

Note: Maximum working pressures are reduced at elevated temperatures above 150°C.

## Vacuum Limitations

For hose sizes up to 2" HW convoluted products, usable at vacuum up to -0.9 bar at 150°C.

Vacuum resistance decreases by 1% for each degree above 150°C. Refer to the tables below for product-specific values.

## Available PTFE Liner Grades

- Natural
- Antistatic

## Purpose of Natural Convoluted SS Braided Hose

This general-purpose hose is meticulously designed to meet a broad range of application requirements. It features a high-tensile grade 304 stainless steel wire braid, providing maximum protection against internal pressure and external abrasion. A stainless steel 316 braid is also available upon request for applications requiring additional resistance to corrosion.

*Optional: Polypropylene, PVDF & Aramid Braid*

## Purpose of Antistatic Convoluted SS Braided Hose

The AS grade is crucial in applications where there is a risk of electrostatic charge build-up on the PTFE tube's inner surface, which could discharge through the tube wall. It is essential for handling:

- Twin or multi-phase media
- Non-mixing media (e.g., powder in air, water droplets in steam, gases, or oil)
- Colloidal fluids

These conditions pose a significant risk for static charge generation and always require the AS grade hose.



| Heavy wall tube   |     |                           |       |                     |     |                          |     |                        |     |                        |       |                     |      |            |     |
|-------------------|-----|---------------------------|-------|---------------------|-----|--------------------------|-----|------------------------|-----|------------------------|-------|---------------------|------|------------|-----|
| Nominal Hose Bore |     | Outside diameter of braid |       | Minimum Bend radius |     | Maximum Working Pressure |     | Minimum Burst Pressure |     | Weight per unit length |       | PTFE wall thickness |      | Max Length |     |
| inch              | mm  | inch                      | mm    | inch                | mm  | PSI                      | BAR | PSI                    | BAR | lb/ft                  | Kg/Mt | inch                | mm   | ft         | M   |
| 1/4               | 6   | 0.45                      | 11.5  | 0.39                | 10  | 842                      | 58  | 4210                   | 290 | 0.083                  | 0.124 | 0.025               | 0.65 | 570        | 175 |
| 5/16              | 8   | 0.53                      | 13.5  | 0.59                | 15  | 842                      | 58  | 4210                   | 290 | 0.099                  | 0.148 | 0.025               | 0.65 | 440        | 135 |
| 3/8               | 10  | 0.63                      | 16.0  | 0.79                | 20  | 827                      | 57  | 4135                   | 285 | 0.128                  | 0.191 | 0.025               | 0.65 | 360        | 110 |
| 1/2               | 13  | 0.78                      | 20.0  | 1.00                | 25  | 652                      | 45  | 3260                   | 225 | 0.214                  | 0.319 | 0.035               | 0.90 | 425        | 130 |
| 5/8               | 16  | 0.57                      | 22.5  | 1.18                | 30  | 536                      | 37  | 2680                   | 185 | 0.253                  | 0.377 | 0.035               | 0.90 | 360        | 110 |
| 3/4               | 20  | 1.16                      | 29.6  | 2.00                | 50  | 508                      | 35  | 2540                   | 175 | 0.313                  | 0.467 | 0.039               | 1.00 | 260        | 80  |
| 1                 | 25  | 1.40                      | 35.6  | 2.36                | 60  | 450                      | 31  | 2250                   | 155 | 0.420                  | 0.626 | 0.043               | 1.10 | 325        | 100 |
| 1 1/4             | 32  | 1.70                      | 43.6  | 3.15                | 80  | 390                      | 27  | 1950                   | 135 | 0.518                  | 0.774 | 0.045               | 1.15 | 145        | 45  |
| 1 1/2             | 37  | 1.90                      | 49.1  | 4.00                | 100 | 335                      | 23  | 1675                   | 115 | 0.735                  | 1.096 | 0.057               | 1.45 | 180        | 55  |
| 1 3/4             | 45  | 2.33                      | 59.1  | 4.72                | 120 | 305                      | 21  | 1525                   | 105 | 0.904                  | 1.346 | 0.057               | 1.45 | 145        | 45  |
| 2                 | 50  | 2.50                      | 63.1  | 5.00                | 125 | 290                      | 20  | 1450                   | 100 | 0.972                  | 1.448 | 0.059               | 1.50 | 130        | 40  |
| 2 1/4             | 57  | 3.00                      | 75.0  | 6.00                | 150 | 260                      | 18  | 1040                   | 72  | 1.293                  | 2.007 | 0.059               | 1.50 | 245        | 75  |
| 2 1/2             | 63  | 3.33                      | 84.7  | 7.00                | 175 | 250                      | 17  | 1000                   | 68  | 1.545                  | 2.300 | 0.059               | 1.50 | 210        | 65  |
| 3                 | 74  | 3.70                      | 95.7  | 8.00                | 200 | 205                      | 14  | 820                    | 56  | 2.130                  | 3.170 | 0.059               | 1.50 | 180        | 55  |
| 4                 | 100 | 5.00                      | 128.7 | 9.00                | 225 | 145                      | 10  | 580                    | 40  | 3.150                  | 4.689 | 0.079               | 2.00 | 95         | 30  |
| 5                 | 125 | 6.10                      | 155.7 | 9.25                | 235 | 73                       | 5   | 300                    | 20  | 4.340                  | 6.463 | 0.098               | 2.50 | 65         | 20  |
| 6                 | 150 | 7.20                      | 183.7 | 10.00               | 250 | 73                       | 5   | 300                    | 20  | 5.170                  | 7.701 | 0.098               | 2.50 | 55         | 17  |

| Extra heavy wall tube useable at full vacuum up to 150°C for sizes up to and including 2" and 100°C for the larger sizes |     |                           |       |                     |     |                          |     |                        |     |                        |       |                     |      |            |    |
|--|-----|---------------------------|-------|---------------------|-----|--------------------------|-----|------------------------|-----|------------------------|-------|---------------------|------|------------|----|
| Nominal Hose Bore  |     | Outside diameter of braid |       | Minimum Bend radius |     | Maximum Working Pressure |     | Minimum Burst Pressure |     | Weight per unit length |       | PTFE wall thickness |      | Max Length |    |
| inch   | mm  | inch                      | mm    | inch                | mm  | PSI                      | BAR | PSI                    | BAR | lb/ft                  | Kg/Mt | inch                | mm   | ft         | M  |
| 5/8  | 16  | 0.95                      | 24.1  | 2.36                | 60  | 536                      | 37  | 2680                   | 185 | 0.196                  | 0.293 | 0.059               | 1.50 | 215        | 66 |
| 3/4  | 20  | 1.16                      | 29.6  | 3.15                | 80  | 508                      | 35  | 2450                   | 175 | 0.412                  | 0.613 | 0.059               | 1.50 | 175        | 54 |
| 1  | 25  | 1.40                      | 35.1  | 4.00                | 100 | 450                      | 31  | 2250                   | 155 | 0.497                  | 0.740 | 0.059               | 1.50 | 1.40       | 44 |
| 1 1/4  | 32  | 1.70                      | 43.7  | 5.00                | 125 | 390                      | 27  | 1950                   | 135 | 0.698                  | 1.039 | 0.059               | 1.50 | 200        | 62 |
| 1 1/2  | 37  | 2.20                      | 56.1  | 5.50                | 140 | 335                      | 23  | 1675                   | 115 | 0.853                  | 1.270 | 0.079               | 2.00 | 170        | 52 |
| 2  | 50  | 2.50                      | 64.1  | 6.00                | 150 | 290                      | 20  | 1450                   | 100 | 1.177                  | 1.753 | 0.079               | 2.00 | 100        | 31 |
| 2 1/2  | 63  | 3.33                      | 84.7  | 8.00                | 200 | 7.00                     | 175 | 1000                   | 68  | 1.786                  | 2.634 | 0.079               | 2.00 | 165        | 51 |
| 3  | 74  | 3.70                      | 93.7  | 9.00                | 225 | 8.00                     | 200 | 820                    | 56  | 2.548                  | 3.794 | 0.091               | 2.60 | 120        | 37 |
| 4  | 100 | 4.00                      | 101.7 | 11.00               | 275 | 9.00                     | 225 | 580                    | 40  | 3.841                  | 5.712 | 0.118               | 3.00 | 70         | 22 |

| Low Convolutd Tubing Not suitable for full vacuum applications |    |                           |      |                     |     |                          |     |                        |     |                        |       |                     |      |            |     |
|--|----|---------------------------|------|---------------------|-----|--------------------------|-----|------------------------|-----|------------------------|-------|---------------------|------|------------|-----|
| Nominal Hose Bore  |    | Outside diameter of braid |      | Minimum Bend radius |     | Maximum Working Pressure |     | Minimum Burst Pressure |     | Weight per unit length |       | PTFE wall thickness |      | Max Length |     |
| inch   | mm | inch                      | mm   | inch                | mm  | PSI                      | BAR | PSI                    | BAR | lb/ft                  | Kg/Mt | inch                | mm   | ft         | M   |
| 3/8  | 10 | 0.62                      | 15.9 | 0.79                | 20  | 827                      | 57  | 4135                   | 285 | 0.128                  | 0.191 | 0.025               | 0.65 | 365        | 112 |
| 1/2  | 13 | 0.77                      | 19.6 | 1.50                | 38  | 652                      | 45  | 3260                   | 225 | 0.198                  | 0.296 | 0.030               | 0.75 | 245        | 75  |
| 5/8  | 16 | 0.93                      | 23.6 | 1.50                | 38  | 536                      | 37  | 2680                   | 185 | 0.241                  | 0.359 | 0.032               | 0.80 | 425        | 130 |
| 3/4  | 20 | 1.01                      | 25.8 | 2.00                | 50  | 508                      | 35  | 2540                   | 175 | 0.287                  | 0.427 | 0.035               | 0.90 | 310        | 96  |
| 1  | 25 | 1.34                      | 34.1 | 2.36                | 60  | 450                      | 31  | 2250                   | 155 | 0.399                  | 0.596 | 0.037               | 0.95 | 220        | 68  |
| 1 1/4  | 32 | 1.65                      | 42.1 | 3.15                | 80  | 390                      | 27  | 1950                   | 135 | 0.531                  | 0.790 | 0.037               | 0.95 | 175        | 54  |
| 1 1/2  | 37 | 1.98                      | 50.1 | 4.00                | 100 | 335                      | 23  | 1675                   | 115 | 0.658                  | 0.979 | 0.037               | 0.95 | 265        | 82  |
| 2  | 50 | 2.4                       | 62.1 | 5.00                | 125 | 290                      | 20  | 1450                   | 100 | 0.847                  | 1.260 | 0.039               | 1.00 | 190        | 59  |

# Fluor Flow®

## Temperature Limitations

Usable from -70°C to +260°C.

Note: Maximum working pressures are reduced at elevated temperatures above 150°C.

## Vacuum Limitations

The hose is usable at vacuum up to -0.9 bar at 150°C.

Vacuum resistance decreases by 1% for each degree above 150°C.

## Maximum Continuous Lengths

46 meters / 150 feet

Refer to the tables below for product-specific values.

## Available PTFE Liner Grades

- Natural
- Antistatic

## Purpose of Natural Fluor Flow SS Braided Hose

This general-purpose hose, featuring a smooth inner surface and a corrugated outer surface, is meticulously designed to enhance product flow rates and improve cleanability. The high-tensile grade 304 stainless steel wire braid offers maximum protection against internal pressure and external abrasion. A stainless steel 316 braid is also available upon request for applications requiring additional resistance to corrosion.

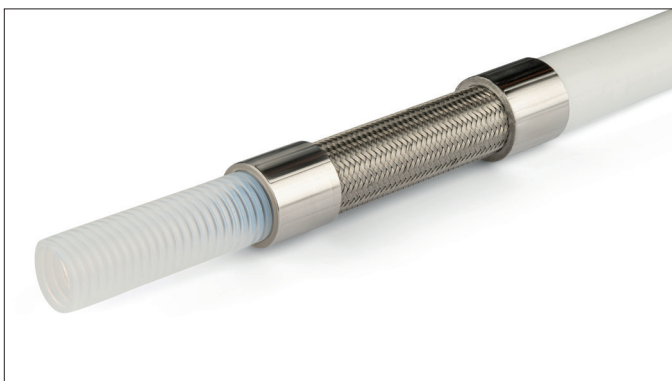
*Optional: Polypropylene, PVDF & Aramid Braid*

## Purpose of Antistatic Fluor Flow SS Braided Hose

The AS grade is crucial in applications where there is a risk of electrostatic charge build-up on the PTFE tube's inner surface, which could discharge through the tube wall. It is essential for handling:

- Twin or multi-phase media
- Non-mixing media (e.g., powder in air, water droplets in steam, gases, or oil)
- Colloidal fluids

These conditions pose a significant risk for static charge generation and always require the AS grade hose.



| Fluor Flow® SS Braided hose |       |                           |      |                     |     |                          |     |                        |     |                        |       |
|-----------------------------|-------|---------------------------|------|---------------------|-----|--------------------------|-----|------------------------|-----|------------------------|-------|
| Nominal Hose Bore           |       | Outside diameter of braid |      | Minimum Bend radius |     | Maximum Working Pressure |     | Minimum Burst Pressure |     | Weight per unit length |       |
| inch                        | mm    | inch                      | mm   | inch                | mm  | PSI                      | BAR | PSI                    | BAR | lb/ft                  | Kg/Mt |
| 1/4                         | 6.4   | 0.40                      | 10.0 | 3/4                 | 19  | 1595                     | 110 | 6380                   | 440 | 0.06                   | 0.09  |
| 5/16                        | 8     | 0.42                      | 11.5 | 3/4                 | 19  | 1522                     | 105 | 6088                   | 420 | 0.08                   | 0.12  |
| 3/8                         | 9.5   | 0.50                      | 12.8 | 3/4                 | 19  | 1160                     | 80  | 7200                   | 500 | 0.9                    | 0.14  |
| 1/2                         | 12.7  | 0.65                      | 16.6 | 1 1/2               | 38  | 1015                     | 70  | 5800                   | 400 | 0.19                   | 0.29  |
| 5/8                         | 15.9  | 0.81                      | 20.6 | 1 7/8               | 45  | 940                      | 65  | 5500                   | 380 | 0.23                   | 0.35  |
| 3/4                         | 19    | 0.96                      | 24.5 | 2                   | 50  | 870                      | 60  | 4350                   | 300 | 0.27                   | 0.40  |
| 1                           | 25.4  | 1.27                      | 32.3 | 2 3/4               | 70  | 720                      | 50  | 2900                   | 200 | 0.42                   | 0.63  |
| 1 1/4                       | 31.75 | 1.56                      | 39.5 | 4                   | 100 | 650                      | 45  | 2600                   | 180 | 0.57                   | 0.85  |
| 1.5                         | 38    | 1.85                      | 47.0 | 5 1/2               | 140 | 580                      | 40  | 2320                   | 160 | 0.74                   | 1.10  |
| 2                           | 50.8  | 2.40                      | 61.0 | 8                   | 200 | 430                      | 30  | 1750                   | 120 | 1.27                   | 1.90  |
| 2.5                         | 63.5  | 2.89                      | 73.5 | 12                  | 304 | 290                      | 20  | 1160                   | 80  | 1.73                   | 2.58  |

### Temperature limitations EPDM

-40°C to +150°C

### Temperature limitations Silicone

-73°C to +204°C

| Fluor Flow® SS Braided EPDM or Silicone extruded cover |       |                           |      |                     |     |                          |     |                        |     |                        |       |
|--|-------|---------------------------|------|---------------------|-----|--------------------------|-----|------------------------|-----|------------------------|-------|
| Nominal Hose Bore                                      |       | Outside diameter of cover |      | Minimum Bend radius |     | Maximum Working Pressure |     | Minimum Burst Pressure |     | Weight per unit length |       |
| inch   | mm    | inch                      | mm   | inch                | mm  | PSI                      | BAR | PSI                    | BAR | lb/ft                  | Kg/Mt |
| 1/4  | 6.4   | 0.456                     | 11.6 | 3/4                 | 19  | 1160                     | 80  | 4641                   | 320 | 0.10                   | 0.16  |
| 5/16   | 8     | 0.515                     | 13.1 | 3/4                 | 19  | 1160                     | 80  | 4641                   | 320 | 0.12                   | 0.19  |
| 3/8  | 9.5   | 0.625                     | 15.8 | 1                   | 25  | 1160                     | 80  | 7200                   | 500 | 0.14                   | 0.22  |
| 1/2  | 12.7  | 0.775                     | 19.7 | 1 1/5               | 38  | 1015                     | 70  | 5800                   | 400 | 0.25                   | 0.37  |
| 5/8  | 15.9  | 0.910                     | 23.0 | 2                   | 51  | 940                      | 65  | 5500                   | 380 | 0.35                   | 0.52  |
| 3/4  | 19    | 1.100                     | 28.0 | 2 1/2               | 63  | 870                      | 60  | 4350                   | 300 | 0.42                   | 0.65  |
| 1  | 25.4  | 1.430                     | 36.4 | 4                   | 100 | 720                      | 50  | 2900                   | 200 | 0.57                   | 0.88  |
| 1 1/4  | 31.75 | 1.700                     | 43.4 | 5 1/2               | 140 | 650                      | 45  | 2600                   | 180 | 0.85                   | 1.30  |
| 1.5  | 38    | 2.040                     | 51.8 | 6 3/4               | 171 | 580                      | 40  | 2320                   | 160 | 1.14                   | 1.70  |
| 2  | 50.8  | 2.645                     | 67.2 | 8 1/4               | 210 | 430                      | 30  | 1750                   | 120 | 1.58                   | 2.36  |
| 2.5  | 63.5  | 3.100                     | 78.7 | 12                  | 304 | 290                      | 20  | 1160                   | 80  | 2.41                   | 3.49  |

