# Nylon Tubing
## Series N: Flexible

### Features
- Flexible nylon tubing uses high-grade resins for strength and flexibility for routing in tight spaces
- Made from abrasion-resistant, heat and light-stabilized nylon
- Exhibits low-level water absorption
- Chemically resistant

### Applications/Markets
- Robotics
- Machine tool
- General pneumatics
- Lubrication
- Petroleum-based chemical transfer
- Pest control lines

### Table: Nylon Tubing - Series N: Flexible

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Tube O.D.</th>
<th>Tube I.D.</th>
<th>Average Wall Thickness</th>
<th>Working Pressure at 73°F /23°C</th>
<th>Minimum Burst at 73°F /23°C</th>
<th>Reel Length</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural</td>
<td>1/8</td>
<td>3.2 .093</td>
<td>2.4 .016</td>
<td>0.41</td>
<td>250 17.2</td>
<td>1000 69.0</td>
<td>0100, 0250</td>
<td>.25</td>
</tr>
<tr>
<td>Black</td>
<td>1/8</td>
<td>3.2 .093</td>
<td>2.4 .016</td>
<td>0.41</td>
<td>250 17.2</td>
<td>1000 69.0</td>
<td>0100, 0250</td>
<td>.25</td>
</tr>
</tbody>
</table>
Order Information

Example: N-2-016-RED-0100

N-2-016-RED-0100 – Nylon
N-2-016-RED-0100 – Tube O.D. in sixteenths of an inch (1/8")
N-2-016-RED-0100 – Wall Thickness in inches (.016")
N-2-016-RED-0100 – Colors (Omit for Natural and Black)
  NN-2-016-0100 - Natural Nylon
  NB-2-016-0100 - Black Nylon
N-2-016-RED-0100 – Package Quantity in feet (100')
  (Omit quantity number after color for 250' reel length)

Color Code
- NN Natural
- NB Black
- BLU Blue
- GRN Green
- RED Red
- YEL Yellow

Nylon Tubing (Series N)

Maximum Working Pressure (psig)

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

Fittings

Parker fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:
  • Compression
  • Compress-Align®
  • Poly-Tite
  • Hi-Duty
  • Fast & Tite
  • Flow Control
  • Prestolok Brass
  • Prestolok Composite
  • TrueSeal™
  • NTA®
  • Transmission
  • Prestomatic
  • SAE Cartridge

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-6)

Notes

  • The recommended operating temperature range for service at rated pressures with compatible fluids, depending upon conditions, is -65°F to +200°F (-54°C to +93°C)
  • Black tubing suggested for use in sunlit areas and in close proximity to high ultraviolet light sources

Colors

  • See Color Code Table
Metric Nylon Tubing
Series N: Flexible

Features
- Flexible nylon tubing uses high-grade resins for strength and flexibility for routing in tight spaces
- Made from abrasion-resistant, heat and light-stabilized nylon
- Exhibits low-level water absorption
- Chemically resistant

Applications/Markets
- Robotics
- Machine tool
- General pneumatics
- Petrochemical transfer
- Pest control lines

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Tube O.D.</th>
<th>Tube I.D.</th>
<th>Average Wall Thickness</th>
<th>Working Pressure at 73°F /23°C</th>
<th>Minimum Burst at 73°F /23°C</th>
<th>Reel Length</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>NN4X.65</td>
<td>4.157</td>
<td>.107</td>
<td>mm inch mm inch mm inch</td>
<td>20.7 300</td>
<td>1200</td>
<td>100</td>
<td>14 .550</td>
<td>.007</td>
</tr>
<tr>
<td>NB4X.65</td>
<td>4.157</td>
<td>.107</td>
<td>mm inch mm inch mm inch</td>
<td>20.7 300</td>
<td>1200</td>
<td>100</td>
<td>14 .550</td>
<td>.007</td>
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<tr>
<td>NNGX1</td>
<td>6.236</td>
<td>.107</td>
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<td>1363</td>
<td>100</td>
<td>22 .866</td>
<td>.016</td>
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<tr>
<td>NN8X1</td>
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<td>986</td>
<td>100</td>
<td>29 1.14</td>
<td>.024</td>
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<tr>
<td>N10X1</td>
<td>10.393</td>
<td>.236</td>
<td>mm inch mm inch mm inch</td>
<td>12.5 181</td>
<td>725</td>
<td>100</td>
<td>34 1.34</td>
<td>.030</td>
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<tr>
<td>NN12X1</td>
<td>12.472</td>
<td>.315</td>
<td>mm inch mm inch mm inch</td>
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<td>638</td>
<td>100</td>
<td>45 1.77</td>
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<td>NN14X1.5</td>
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<td>870</td>
<td>100</td>
<td>57 2.24</td>
<td>.063</td>
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<tr>
<td>NN16X1.5</td>
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<td>.512</td>
<td>mm inch mm inch mm inch</td>
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<td>725</td>
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<td>74 2.91</td>
<td>.073</td>
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<td>NN18X1.5</td>
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<td>609</td>
<td>100</td>
<td>92 3.62</td>
<td>.082</td>
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<td>NN20X1.5</td>
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<td>9.5 138</td>
<td>551</td>
<td>100</td>
<td>112 4.41</td>
<td>.092</td>
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</table>
**Order Information**

**Example: NN4x.65**

- **NN4x.65** – Natural Nylon
- **NN4x.65** – Tube O.D. in millimeters (4mm)
- **NN4x.65** – Wall Thickness in millimeters (0.65mm)

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**Metric Nylon Tubing (Series N)**

**Maximum Working Pressure (bar)**

![Graph showing working pressure vs. temperature for Metric Nylon Tubing (Series N).](image)

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**Fittings**

Parker fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:
- Metru-Lok®
- Flow Control
- Prestolok Brass
- Prestolok Composite
- Prestomatic

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-6)

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**Notes**

- The recommended operating temperature range for service at rated pressures with compatible fluids, depending upon conditions, is -54°C to +93°C (-65°F to +200°F)
- Black tubing suggested for use in sunlit areas and in close proximity to high ultraviolet light sources

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**Colors**

- Natural
- Black
NyloN Pure Air Tubing
Series PAT: Ultra Pure, UV Resistant

Features
- The tubing choice for pure air systems (semiconductor) due to its cleanliness and excellent chemical and UV light resistance
- Maintains good resistance to high ambient temperatures with low moisture absorption
- Manufactured from a specially formulated nylon for use in pure air and gas distribution systems
- Provides high tensile strength with excellent coupling retention in high pressure, temperature and vibration environments
- Sizes -2 and -4 are single wall tubing construction
- Sizes -6 through -12 are reinforced tubing construction

Applications/Markets
- Pure air and gas distribution systems
- Semi-conductor

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Tube O.D.</th>
<th>Tube I.D.</th>
<th>Average Wall Thickness</th>
<th>Working Pressure at 73°F /23°C</th>
<th>Minimum Burst at 73°F /23°C</th>
<th>Reel Length</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>inch mm</td>
<td>inch mm</td>
<td>inch mm</td>
<td>psi bar</td>
<td>psi bar</td>
<td>feet</td>
<td>inch mm</td>
<td>lbs./ft. kg./mtr.</td>
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<tr>
<td>PAT2</td>
<td>1/8 .32 .079</td>
<td>.023 0.58</td>
<td>250 17.2</td>
<td>1000 69.0</td>
<td>1000</td>
<td>.37 9.4</td>
<td>.035 .052</td>
<td></td>
</tr>
<tr>
<td>PAT4</td>
<td>1/4 6.4 .170</td>
<td>.040 1.0</td>
<td>300 20.7</td>
<td>1200 82.7</td>
<td>1000</td>
<td>1.00 25.4</td>
<td>.124 .185</td>
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</tr>
<tr>
<td>PAT6</td>
<td>3/8 9.5 .251</td>
<td>.062 1.6</td>
<td>350 24.1</td>
<td>1400 96.4</td>
<td>500</td>
<td>1.50 38.1</td>
<td>.282 .420</td>
<td></td>
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<tr>
<td>PAT8</td>
<td>1/2 12.7 .376</td>
<td>.062 1.6</td>
<td>235 16.2</td>
<td>950 65.5</td>
<td>500</td>
<td>2.00 50.8</td>
<td>.395 .588</td>
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<td>PAT10</td>
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<td>.092 2.3</td>
<td>225 15.5</td>
<td>900 62.1</td>
<td>250</td>
<td>2.50 63.5</td>
<td>.702 1.04</td>
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<tr>
<td>PAT12</td>
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<td>200 13.8</td>
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<td>250</td>
<td>3.00 76.2</td>
<td>.872 1.30</td>
<td></td>
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</tbody>
</table>

For detailed ordering information, please consult price list or contact Parflex® Division.
Order Information

Example: PAT4-BLK-0250

PAT4-BLK-0250 – Pure Air Tubing
PAT4-BLK-0250 – Tube O.D. in sixteenths of an inch (1/4")
PAT4-BLK-0250 – Color (Black)
PAT4-BLK-0250 – Package Quantity in feet (250')

Fittings

Parker fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:
- Compression
- Compress-Align®
- Hi-Duty
- Fast & Tite
- NTA®

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-6)

Notes
- Packaged on corrugated plastic reel with ends capped and shipped in a plastic-lined container
- The suggested operating temperature range for service at rated pressures with compatible fluids is -70°F to +200°F (-57°C to +93°C)
- PAT tubing is rated for full vacuum service at 28 inch Hg

Colors
- See Color Code Table

Pure Air Nylon Tubing (Series PAT)

Maximum Working Pressure (psig)

For detailed ordering information, please consult price list or contact Parflex® Division.

Parker Hannifin Corporation | Parflex® Division | Ravenna, Ohio | parker.com/pfd

B-23
Nylon Tubing
Series NR: Semi-rigid High Strength

Features
- High grade nylon resins without the addition of plasticizers for higher pressure tubing applications
- Better chemical resistance than Series N, good resistance to high ambient temperature and low moisture absorption
- High tensile strength and excellent coupling retention in high pressure, temperature and vibration environments

Applications/Markets
- High-pressure pneumatics and oils
- Lubrication systems
- Marine control systems
- Process lines for chemicals

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Part Number</th>
<th>Tube O.D.</th>
<th>Tube I.D.</th>
<th>Average Wall Thickness</th>
<th>Working Pressure at 73°F/23°C</th>
<th>Minimum Burst at 73°F/23°C</th>
<th>Reel Length</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>NNR-2-017</td>
<td>NBR-2-017</td>
<td>1/8</td>
<td>.091</td>
<td>.017</td>
<td>425</td>
<td>29.3</td>
<td>1700</td>
<td>0100, 0500</td>
<td>.50</td>
</tr>
<tr>
<td>NNR-2-026</td>
<td>NBR-2-026</td>
<td>1/8</td>
<td>.073</td>
<td>.026</td>
<td>625</td>
<td>43.1</td>
<td>2500</td>
<td>0100, 0500</td>
<td>.38</td>
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<td>NBR-3-024</td>
<td>3/16</td>
<td>.140</td>
<td>.024</td>
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<td>.63</td>
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<td>.180</td>
<td>.089</td>
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<td>29.3</td>
<td>1700</td>
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<td>1.00</td>
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<td>.050</td>
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<td>.88</td>
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<td>NBR-5-040</td>
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<td>.040</td>
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<td>1700</td>
<td>0100, 0250</td>
<td>1.50</td>
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<td>.075</td>
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<td>.075</td>
<td>625</td>
<td>43.1</td>
<td>2500</td>
<td>0100, 0250</td>
<td>2.50</td>
</tr>
</tbody>
</table>

For detailed ordering information, please consult price list or contact Parflex® Division.
**Order Information**

**Example: NBR-2-017-0100**

- **NBR-2-017-0100** – **Nylon**
- **NBR-2-017-0100** – **Color** (Black)
- **NBR-2-017-0100** – **Rigid**
- **NBR-2-017-0100** – **Tube O.D.** in sixteenths of an inch (1/8")
- **NBR-2-017-0100** – **Wall Thickness** in inches (.017")
- **NBR-2-017-0100** – **Package Quantity** in feet (100')

(Omit for other package quantities)

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**Semi-rigid Nylon Tubing (Series NR)**

**Maximum Working Pressure (psig)**

![Graph showing maximum working pressure vs temperature for different tubing series](image)

**Fittings**

Parker fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

**FSC Product Families:**
- Compression
- Compress-Align®
- Hi-Duty
- Fast & Tite
- Flow Control
- Prestolok Brass
- Prestolok Composite
- TrueSeal™

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-6)

**Notes**

- Suggested operating temperature range for service at rated pressures with compatible fluids is -60°F to +200°F (-51°C to +93°C)

**Colors**

- Natural
- Black
Nylon Tubing
Series NTNA: Semi-rigid Nylon Tubing

Features
- High grade nylon resins without the addition of plasticizers
- High tensile strength and excellent coupling retention in high pressure, temperature and vibration environments
- Excellent chemical resistance
- Rugged construction resists vermin attack

Certifications
- NSF-51

Applications/Markets
- Instrumentation lines
- Lubrication systems
- Process piping systems
- Refrigerant lines

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Tube O.D.</th>
<th>Tube I.D.</th>
<th>Average Wall Thickness</th>
<th>Working Pressure at 73°F /23°C</th>
<th>Minimum Burst at 73°F /23°C</th>
<th>Reel Length</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
<td>psi</td>
<td>bar</td>
<td>psi</td>
<td>bar</td>
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<td>22NTNA</td>
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<td>1,500</td>
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<td>375</td>
<td>25.9</td>
<td>1,500</td>
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<td>.139</td>
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<td>375</td>
<td>25.9</td>
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<td>25.9</td>
<td>1,500</td>
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<tr>
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<td>.282</td>
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<td>25.9</td>
<td>1,500</td>
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<td>9.5</td>
<td>1.6</td>
<td>375</td>
<td>25.9</td>
<td>1,500</td>
</tr>
</tbody>
</table>

For detailed ordering information, please consult price list or contact Parflex® Division.
Order Information

Example: 44NTNA

44NTNA – Tube O.D. in sixteenths of an inch (1/4”)
44NTNA – Nylon Tubing
44NTNA – Color (Natural)

Semi-rigid Nylon Tubing [Series NTNA]
Maximum Working Pressure (psig)

Fittings

Parker fittings available from:
Fluid System Connectors Division
Otsego, MI
(269) 692-6555
(269) 694-4614 FAX

FSC Product Families:
- Compression
- Compress-Align™
- Poly-Tite
- Hi-Duty
- Fast & Tite
- Flow Control
- NTA
- Prestolok Brass
- Prestolok Composite
- Prestomatic
- SAE Cartridges
- Transmission
- TrueSeal™

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-6)

Notes
- Suggested operating temperature range from -60°F to +212°F (-51°C to +100°C)

Colors
- Natural