

Tubing and accessories

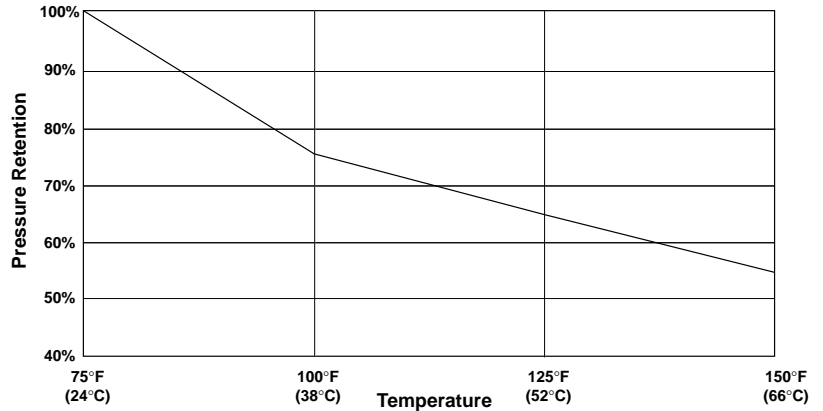
Nylon Inch Tube

Recommended for use with Pneufit Push-In Fittings
 Manufactured from Nylon 11
 UL-94HB flame retardant rating
 Heat and light stabilized
 Shipped in 100 ft. coils (30m) packed in polyethylene bags

Specifications

Fluids: Compressed air, nitrogen and inert gases
 Material: Nylon 11
 Temperature Rating: -60°F to 200°F (-5°C to 93°C)*
 Vacuum Rating: To 28° Hg (711 mm Hg)
 Diameter Tolerances: + 0.002"; -0.004"
 Hardness: 78 Rockwell R

Working Pressure at Elevated Temperature



| OD (inch) | Tubing | | Maximum Working Pressure | | Minimum Bend Radius | | Part Number and Color | | | | | | |
|-----------|-----------|---------|--------------------------|----------------------|---------------------|------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | ID (inch) | OD (mm) | ID (mm) | -40°F to 70°F (psig) | -40°C to 20°C (bar) | inch | mm | Natural | Black | Blue | Green | Red | Yellow |
| 1/8 | 0.093 | | | 225 | 15.5 | 0.38 | 10 | PB 0051 100 | PB 0751 100 | PB 0551 100 | PB 0251 100 | PB 0151 100 | PB 0351 100 |
| 5/32 | 0.106 | 4 | 2.3 | 275 | 19.0 | 0.50 | 13 | PB 0052 100 | PB 0752 100 | PB 0552 100 | PB 0252 100 | PB 0152 100 | PB 0352 100 |
| 3/16 | 0.138 | | | 225 | 15.5 | 0.63 | 16 | PB 0053 100 | PB 0753 100 | PB 0553 100 | PB 0253 100 | PB 0153 100 | PB 0353 100 |
| 1/4 | 0.180 | | | 250 | 17.2 | 0.88 | 22 | PB 0054 100 | PB 0754 100 | PB 0554 100 | PB 0254 100 | PB 0154 100 | PB 0354 100 |
| 5/16 | 0.232 | 8 | 5.5 | 220 | 15.2 | 1.25 | 32 | PB 0055 100 | PB 0755 100 | PB 0555 100 | PB 0255 100 | PB 0155 100 | PB 0355 100 |
| 3/8 | 0.275 | | | 220 | 15.2 | 1.50 | 38 | PB 0056 100 | PB 0756 100 | PB 0556 100 | PB 0256 100 | PB 0156 100 | PB 0356 100 |
| 1/2 | 0.375 | | | 200 | 13.8 | 2.00 | 51 | PB 0057 100 | PB 0757 100 | PB 0557 100 | PB 0257 100 | PB 0157 100 | PB 0357 100 |

Notes

The working pressure for Nylon 11 tubing is calculated using a 4 to 1 safety factor.
 * To determine working pressures at other temperatures, see chart. Tubing is supplied in 100 ft. (30.5m) coils, packaged in poly bags. For other colors, lengths or packaging, please consult factory.

Polyurethane Tube

Recommended for use with Pneufit Push-In Fittings
 Manufactured from Polyurethane
 Shipped 100' coils packed in Polyethylene bags

Specifications

Fluids: Compressed air
 Material: 95 Durometer Polyurethane
 Temperature Rating: -40°F to 165°F (-40°C to 73°C)
 Vacuum Rating: To 28° Hg (711 mm Hg)
 Diameter Tolerances: ± 0.005"



| Tubing OD (mm) | ID (mm) | Maximum Working Pressure at 75°F | | Minimum Bend Radius | Part Number and Color | | | | |
|----------------|---------|----------------------------------|------|---------------------|-----------------------|-------------|-------------|-------------|-------------|
| | | psig | bar | | Natural | Black | Trans Blue | Trans Green | Trans Red |
| 1/8" | .066 | 233 | 16.1 | 1/4" | PW 0051 100 | PW 0751 100 | PW 0551 100 | PW 0251 100 | PW 0151 100 |
| 5/32" | .094 | 176 | 12.1 | 3/8" | PW 0052 100 | PW 0752 100 | PW 0552 100 | PW 0252 100 | PW 0152 100 |
| 1/4" | .160 | 148 | 10.2 | 1/2" | PW 0054 100 | PW 0754 100 | PW 0554 100 | PW 0254 100 | PW 0154 100 |
| 5/16" | .197 | 155 | 10.7 | 3/4" | PW 0055 100 | PW 0755 100 | PW 0555 100 | PW 0255 100 | PW 0155 100 |
| 3/8" | .245 | 147 | 10.1 | 7/8" | PW 0056 100 | PW 0756 100 | PW 0556 100 | PW 0256 100 | PW 0156 100 |

Tubing and accessories

Metric Tubing

Recommended for use with Pneufit Push-In Fittings.
 Manufactured from Nylon 12
 Resistant to many chemicals
 Excellent pressure rating
 Black tubing provides reduced ultraviolet degradation
 Conforms to BS5409-1:1976 and DIN 73378
 Shipped in 25 meter (82 ft.) coils packed in polyethylene bags.

Specifications

Fluids: Compressed air, nitrogen and inert gases
 Material: Nylon 12
 Maximum continuous working temperature: 80°C (175°F)

| Tubing OD (mm) | Tubing ID (mm) | Maximum Working Pressure | | Minimum Bend Radius | | Part Number and Color | | | | |
|----------------------|----------------------|--------------------------|-------------------------|------------------------|------|-----------------------|-------------|-------------|-------------|-------------|
| | | -40°C to 20°C bar | (-40°F to 70°F) psig | mm | inch | Natural | Black | Blue | Green | Red |
| 4 | 2.5 | 28.0 | 406 | 25 | 0.98 | PA 0004 025 | PA 0704 025 | PA 0504 025 | PA 0204 025 | PA 0104 025 |
| 5 | 3.0 | 31.0 | 450 | 25 | 0.98 | PA 0005 025 | PA 0705 025 | PA 0505 025 | PA 0205 025 | PA 0105 025 |
| 6 | 4.0 | 25.0 | 362 | 30 | 1.18 | PA 0006 025 | PA 0706 025 | PA 0506 025 | PA 0206 025 | PA 0106 025 |
| 8 | 6.0 | 19.0 | 275 | 50 | 1.97 | PA 0008 025 | PA 0708 025 | PA 0508 025 | PA 0208 025 | PA 0108 025 |
| 10 | 7.5 | 24.0 | 348 | 60 | 2.36 | PA 0010 025 | PA 0710 025 | PA 0510 025 | PA 0210 025 | PA 0110 025 |
| 12 | 9.0 | 18.0 | 261 | 75 | 2.95 | PA 0012 025 | PA 0712 025 | PA 0512 025 | PA 0212 025 | PA 0112 025 |
| 14 | 11.0 | 15.0 | 218 | 80 | 3.15 | PA 0014 025 | PA 0714 025 | PA 0514 025 | PA 0214 025 | PA 0114 025 |

For other colors, lengths or packaging, please consult factory.

Tube Cutter

Makes clean, square cuts in Nylon tubing that are necessary for leak free connections.
 Small size (3" long, 1" wide, 1" high) makes it easy to use and convenient to carry.
 Spring actuation keeps it closed when not in use.
 Order part number M/3314.
 Replacement blades (5 pack) M/32009



Tube Mount - 2 Channel

| Part Number | Tube Size | Mounting Screw Size | Color |
|-------------|--------------|---------------------|-------|
| 94 910 004 | 5/32" & 4 mm | #4 | Black |
| 94 910 006 | 1/4" & 6 mm | #4 | Black |
| 94 910 008 | 5/16" & 8 mm | #6 | Black |
| 94 910 010 | 3/8" | #6 | Black |
| 94 910 012 | 1/2" | #6 | Black |
| 94 910 015 | 5/8" | #10 | Black |

Save installation time - tube mounts provide quick, secure mounting and exact spacing between tubes.

Tubing snaps into channels for clean, organized circuits.

Tube mounts are drilled for machine screw mounting.



Tubing and accessories

Tube Markers

PVC tube markers eliminate confusing fluid power connections by providing easy to read identification.

Permanent, hot stamped black characters on white background are not affected by grease, oil, or lubricating fluids.

Markers snap on without tools before or after tube terminations made. Can be removed without disconnecting tubing.

Non-adhesive interior of marker will not pinch, kink, or mar tubing.



Tube Marker Kits

| Tube Size (O.D.) | 1/8" | 5/32" & 4 mm | 1/4" & 6 mm | 3/8" |
|-------------------|------------|--------------|-------------|------------|
| Code | | | | |
| Alphanumeric Kit* | 94 911 025 | 94 911 058 | 94 911 091 | 94 911 124 |
| Descriptive Kit** | 94 911 033 | 94 911 066 | 94 911 099 | 94 911 132 |

* Contains 50 each of all numbers (0-9) and letters (A-H, J, P, R, X, Y, and Z)

** Contains 50 each of CYL, PV, LV, IN, OUT, + and -.



Tube Mount - 10 Channel

| Part Number | Tube Size | Mounting Screw Size | Color |
|-------------|--------------|---------------------|--------|
| 94 902 002 | 5/32" & 4 mm | #4 | Black |
| 94 902 003 | 3/16" | #4 | Black |
| 94 901 004 | 1/4" & 6 mm | #4 | White |
| 94 902 004 | 1/4" & 6 mm | #4 | Black |
| 94 903 004 | 1/4" & 6 mm | #4 | Blue |
| 94 904 004 | 1/4" & 6 mm | #4 | Green |
| 94 905 004 | 1/4" & 6 mm | #4 | Red |
| 94 906 004 | 1/4" & 6 mm | #4 | Yellow |
| 94 908 004 | 1/4" & 6 mm | #4 | Grey |
| 94 902 006 | 3/8" & 10 mm | - | Black |

Full 10 channel section (4" long, 5/8" wide and 3/8" high) is easily cut for 1 to 10 channels.

Each channel is countersunk for No. 4 machine screws.

Tubing snaps into channels for clean, organized circuits.

Pressure sensitive Urethane foam adhesive backing for quick mounting (except 3/8" model).

Slotted design allows mounting on curved or angular surfaces. Color of mounts match machine or tubing.



Tubing and accessories

Spiral Flex Wrap

Natural color Polyethylene spiral flex wrap twists easily over bundles of various sized tubing or insulated electric wire.

Nominal 1/2" O.D. accommodates bundles from 3/8" to 4" in diameter. Can be wrapped for greater flexibility or butted for rigidity.

Tubing or wire can be led out at any point.

Provided in 50' (15 meter) coils.

Order part number 94 960 001.



Release Tool

Used to disconnect tubing from all Norgren fittings. Helps in situations where fitting is difficult to reach.

Part Number: 54 0001 00



Replacement Parts

48 026 101

Replacement thermoplastic sealing washer for use with 10-32 and M5 threads. Sold individually.

48 031 101

Replacement viton bonded sealing washer for use with 10-32 and M5 threads. Sold in package of 10.