

Technical Tubing and Hose

Flexible Calibrated Tubing

Calibrated Multi-Tubing

Recoil Tubing and Hose

Calibrated Braided Hose

Accessories





Technical Tubing and Hose

PA Tubing

(P. 3-10)



Fluids: Compressed air, industrial fluids

Materials:

- 2 polyamide grades (semi-rigid and rigid)
- 7 colours

Pressure: 58 bar

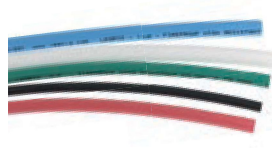
Temperature: -40°C to +100°C

O.D. metric: 3 mm to 16 mm

O.D. inch: on request

Fireproof High Resistance PA Tubing

(P. 3-14)



Fluids: compressed air, coolants, lubricants

Materials:

- Polyamide with flame retardant additive
- 5 colours

Pressure: 50 bar

Temperature: -50°C to +100°C

O.D. metric: 4 mm to 12 mm

Anti-Spark PA or PU Tubing, with or without PVC Sheath (P. 3-16 & 24)



Fluids : compressed air, coolants, industrial fluids

Materials :

- Semi-rigid polyamide with PVC sheath
- Polyurethane ether with PVC sheath
- Single layer polyurethane ether
- 4 colours

Pressure: 36 bar max.

Temperature: -20°C to +80°C

O.D. metric: 4 mm to 14 mm

PU Tubing

(P. 3-18)



Fluids: compressed air and food industry fluids ("crystal")

Materials:

- Polyurethane ester or ether
- Polyurethane food-grade "crystal"
- 7 colours

Pressure: 12 bar

Temperature: -20°C to +70°C

O.D. metric: 3 mm to 16 mm

O.D. inch: on request

Antistatic PU Tubing

(P. 3-22)



Fluids: compressed air

Materials:

- Polyurethane with conductive particles
- Black (10² Ω.m)

Pressure: 10 bar

Temperature: -20°C to +70°C

O.D. metric: 3 mm to 12 mm

PE Tubing

(P. 3-26)



Fluids: many fluids

Materials:

- Low density polyethylene
- 50% reticulated polyethylene, food-grade
- 7 colours

Pressure: 20 bar

Temperature: -40°C to +95°C

O.D. metric: 4 mm to 16 mm

O.D. inch: 1/8" to 1/2"

FEP Tubing

(P. 3-28)



Fluids: many fluids

Materials:

- Fluoropolymer: fluorinated ethylene propylene, food-grade
- Transparent

Pressure: 28 bar

Temperature: -40°C to +150°C

O.D. metric: 4 mm to 12 mm

PFA Tubing

(P. 3-30)



Fluids: many fluids

Materials:

- 3 grades of perfluoroalkoxy
- High purity food-grade, clear
- Standard food-grade, 3 "crystal" colours
- Antistatic (0.2 Ω.m), black

Pressure: 36 bar

Temperature: -196°C to +260°C

O.D. metric: 4 mm to 12 mm

PA Multi-Tubing

(P. 3-32)



Fluids: compressed air, industrial fluids

Materials:

- Semi-rigid polyamide with PVC sheath
- 6 colours

Pressure: 24 bar

Temperature: -40°C to +80°C

O.D. metric: 4 mm to 8 mm

Technical Tubing and Hose

Twin PU Tubing

(P. 3-32)



Fluids: compressed air

Materials:

- Polyurethane ester
- 1 to 2 colours

Pressure: 14 bar

Temperature: -20°C to +70°C

O.D. metric: 4 mm to 8 mm

Recoil PA Tubing

(P. 3-34)



Fluids: compressed air, industrial fluids

Materials:

- Semi-rigid polyamide
- 2 colours
- Recoil tubing with fittings

Pressure: 20 bar

Temperature: -20°C to +80°C

O.D. metric: 6 mm and 8 mm

Recoil PU Tubing

(P. 3-36)



Fluids: compressed air

Materials:

- Polyurethane ester or ether
- 3 colours
- With or without fittings

Pressure: 10 bar

Temperature: -20°C to +70°C

O.D. metric: 4 mm to 12 mm

I.D. inch: 3/8" and 19/32"

Braided PU Recoil Hose

(P. 3-40)



Fluids: compressed air, industrial fluids

Materials:

- Translucent blue polyurethane, reinforced with a polyester braid
- Assembled with threaded fittings

Pressure: 15 bar

Temperature: -40°C to +75°C

I.D. inch: 1/4" and 5/16"

Braided PVC Hose

(P. 3-42)



Fluids: compressed air, non-corrosive or alimentary fluids (translucent PVC)

Materials:

- Polyvinyl chloride with braided polyester
- Translucent (food-grade) or blue (industrial)

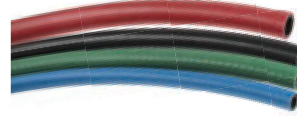
Pressure: 15 bar

Temperature: -25°C to +70°C

I.D. metric: 4 mm to 19 mm

Self-Fastening NBR Hose

(P. 3-44)



Fluids: compressed air, coolants

Materials:

- Nitrile butadiene rubber reinforced with a polyamide braid
- 4 colours

Pressure: 16 bar

Temperature: -20°C to +100°C

I.D. inch: 1/4" to 3/4"

Technical Tubing and Hose Range

Flexible Calibrated Tubing

Polyamide Tubing

Semi-Rigid PA



1025P
1100P
2005P
2010P
Page 3-11

Rigid PA



1025L
Page 3-12

Fireproof PA



1100P..R
Page 3-15

Anti-Spark PA with PVC Sheath



1025P..V
1100P..V
Page 3-17

Polyurethane Tubing

PU Ester



1025U
1100U
2003U
2005U
2010U
Page 3-19

PU Ether PU Ether Food-Grade "Crystal"



1025U..R
1100U..R
2003U..R
2005U..R
2010U..R
Page 3-20

Antistatic PU



1025U..A
1100U..A
Page 3-23

PU Ether, Anti-Spark, Single Layer PU Ether, Anti-Spark with PVC Sheath



1025U..V
1100U..V
Page 3-25
1025U..K
1100U..K
Page 3-25

Polyethylene Tubing

Advanced PE



1015Y..F
1030Y..F
1075Y..F
1096Y..F
1098Y..F
1099Y..F
Page 3-27

Low Density PE



1100Y
Page 3-27

Fluoropolymer Tubing

FEP



1005T
1025T
Page 3-29

PFA



1010T..P
1050T..P
1100T..P
Page 3-31

Antistatic PFA



1010T..A
1050T..A
Page 3-31

Calibrated Multi-Tubing

Polyamide Tubing with PVC Sheath

Semi-Rigid PA



1010P..M
1050P..M
Page 3-33

Twin Polyurethane Tubing

Twin PU Ester



1420U
Page 3-33

Technical Tubing and Hose Range

Calibrated Recoil Tubing

Semi-Rigid Polyamide

Assembled with Fittings



1470P
1471P
1472P
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Polyurethane Ester and Ether Tubing

Assembled with Fittings,
Metallic Spring Guard



1470U
1471U
1472U
Page 3-37

Assembled with Fittings,
Plastic Spring Guard



1445U..R
1441U..R
1442U..R
1447U..R
Page 3-38

Coiled without Fittings



1460U
1461U
1462U
Page 3-37

Braided Polyurethane Hose

Assembled with Fittings,
Plastic Spring Guard



1445U..E
1442U..E
1447U..E
Page 3-41

Calibrated Braided Hose

Clear Food-Grade PVC



1025V
1050V
Page 3-43

Blue PVC



1025V..C
1050V..C
Page 3-43

Self-Fastening NBR



1040H
1080H
1100H
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Accessories

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3000 71 11
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3000 71
Page 3-46



6000 71
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0127
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1827
Page 3-47



Clip
Page 3-47



0697
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Packaging for Technical Tubing and Hose

Tubepack®

- 5 m, 10 m, 25 m and 100 m lengths
- For polyamide, polyurethane, fluoropolymer, polyethylene and anti-spark tubing
- Optimisation of tubing storage
- Immediate identification of the type of tubing
- Integrated winder for easy handling



Drums

- Up to 1000 m long
- For polyamide, polyurethane, fluoropolymer tubing, etc.
- Immediate identification of the tubing for easy handling
- Adapted to workshop reels



Reels

- Up to 100 m
- Supplied with protective plastic film
- For braided tubing, special tubing (e.g. multi-tubing)



Plastic Bags

- Ideal for merchandising
- Promotional tools
- Recoil tubing or tubing cut to the required length



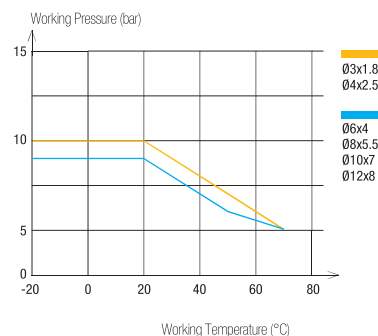
Tube Marking

- Length indicated every metre:
 - time saved when cutting to exact length
 - remaining quantity is immediately identifiable (PA and PU)
- Custom marking upon request (marking, fluid identification, customer part number...)
- Traceability with marking of manufacturing batch



How to Read the Graphs

- In the graphs in this chapter, each curve represents the acceptable maximum pressure at a given temperature, by diameter.
- Technical characteristics of Parker Legris tubing depend on the type of connection used.
- The vacuum capability of all tubing is 755 mm Hg (99% vacuum).



Product Codes of Parker Legris Tubing and Hose

Material

H = Self-Fastening NBR
L = Rigid Polyamide
P = Semi-Rigid Polyamide
T = Fluoropolymer
U = Polyurethane
V = PVC
Y = Polyethylene

Type of Tubing

P..A = Antistatic PA
P..R = Fireproof PA
P..V = Anti-Spark PA with PVC Sheath
T..A = Antistatic PFA
T..P = PFA
U..A = Antistatic PU
U..K = Anti-Spark Single Layer PU
U..R = PU Ether
U..V = Anti-Spark PU with PVC Sheath
Y..F = Advanced PE (LIQUIfit®)

2 010 P 04 R 00 27

Packaging Code

1 = Tubepack® or LIQUIfit® Drum

Length

015 = 150 m
020 = 20 m
025 = 25 m
030 = 300 m
040 = 40 m
075 = 75 m
080 = 80 m
100 = 100 m

O.D. Code

03 = 3 mm
04 = 4 mm
06 = 6 mm
08 = 8 mm
 .../...
1/4 = 56 mm
 .../...

Colour

00 = ○ clear
01 = ● black
02 = ● green
03 = ● red
04 = ● blue
05 = ● yellow
06 = ● grey
07 = ● orange
08 = ○ crystal clear
09 = ● purple
10 = ○ white
12 = ● crystal green
13 = ● crystal red
14 = ● crystal blue
17 = ● crystal orange

Special I.D.

18 = 1.8 mm
27 = 2.7 mm
33 = 3.3 mm
75 = 7.5 mm
95 = 9.5 mm

2 = Long Length on Drum

003 = 300 m
005 = 500 m
010 = 1000 m

10 = 10 mm
04 = 4 mm
06 = 6 mm
08 = 8 mm
10 = 10 mm
04 = 4 mm
06 = 6 mm

Tube Cutting to the Required Length

- Upon special request, customised cutting of the semi-rigid tubing (PA, PU, PE, FEP, PFA, ...)
- Cutting length from 30 mm to 14 m (+/- 2 mm precision)
- Marking upon request, in white or red
- Packaging according to customer requirements (bags/boxes/etc, ...)



PA Tubing

Tried-and-tested for industrial or vehicle applications, PA tubing guarantees **excellent durability** due to its stable long-term mechanical properties. Parker Legris' special grade of semi-rigid polyamide is manufactured according to our **Eco-Design** approach for higher performance.

Product Advantages

Tried-& Tested Material

- Good chemical and humidity resistance
- Excellent material stability (mechanical and chemical)
- Continuous calibration during production for excellent reliability
- Two material grades: rigid and semi-rigid
- Bio-based semi-rigid material

Versatility & Performance

- Wide range of working pressure and temperature
- Good vibration absorption
- Abrasion-resistant
- Remaining length marking
- Large choice of colours to facilitate circuit identification
- Silicone-free



Applications

- Packaging
- Tooling
- Compressed Air
- Motion Technologies
- Robotics
- Industrial Machinery

Technical Characteristics

Tubing	Semi-Rigid PA	Rigid PA
Compatible Fluids	Compressed air, other fluids	Compressed air, lubricants, other fluids
Working Pressure	Vacuum to 50 bar	Vacuum to 58 bar
Working Temperature	-40°C to +100°C	-40°C to +80°C
Component Materials	Bio-based polyamide (68 shore D)	Polyamide (65 shore D)

Regulations

Industrial

DI: 2002/95/EC (RoHS), 2011/65/EC
 DI: 97/23/EC (PED)
 RG: 1907/2006 (REACH)

Transportation

Chemical performance and resistance tested according to
 DIN 74324 -1 / DIN 73378 / ISO 7628

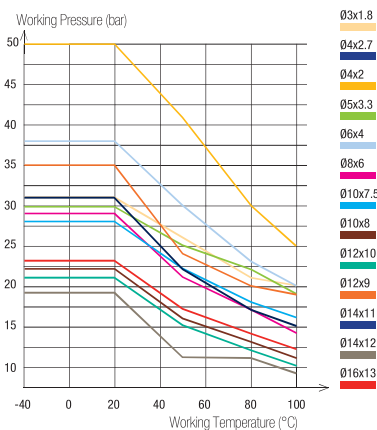
Packaging

Tube pack*: 25 m, 100 m
 Drum: 500 m, 1 000 m

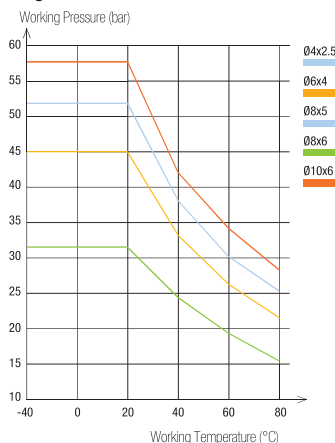
Reliable performance is dependent upon the type of fluid conveyed and fittings being used. Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

Performance of PA Tubing

Semi-Rigid



Rigid











Tube O.D.	Tube O.D. Tolerance
3 to 5 mm	+0.05 / -0.08
6 to 16 mm	+0.05 / -0.10

Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing in accordance with NF E49-100.

1025P

Semi-Rigid Polyamide (PA) Tubing

Tubepack® 25 m









Ø ext. (mm)	Ø int. (mm)									kg
3	1.8	6	1025P03 00 18				1025P03 04 18			0.200
4	2	10	1025P04 00	1025P04 01	1025P04 02	1025P04 03	1025P04 04	1025P04 05	1025P04 06	0.318
	2.7	10	1025P04 00 27	1025P04 01 27	1025P04 02 27	1025P04 03 27	1025P04 04 27	1025P04 05 27	1025P04 06 27	0.254
5	3.3	15	1025P05 00 33	1025P05 01 33			1025P05 04 33			0.420
6	4	15	1025P06 00	1025P06 01	1025P06 02	1025P06 03	1025P06 04	1025P06 05	1025P06 06	0.535
8	6	25	1025P08 00	1025P08 01	1025P08 02	1025P08 03	1025P08 04	1025P08 05	1025P08 06	0.748
10	7.5	42	1025P10 00 75	1025P10 01 75			1025P10 04 75			1.135
	8	50	1025P10 00	1025P10 01	1025P10 02	1025P10 03	1025P10 04	1025P10 05	1025P10 06	0.989
12	9	47	1025P12 00 09	1025P12 01 09			1025P12 04 09			1.769
	10	90	1025P12 00	1025P12 01			1025P12 04	1025P12 05		1.345
14	11	80	1025P14 00 11	1025P14 01 11			1025P14 04 11			2.226
	12	116	1025P14 00	1025P14 01			1025P14 04			1.734
16	13	90	1025P16 00 13	1025P16 01 13	1025P16 02 13	1025P16 03 13	1025P16 04 13			2.500

Inch version tubing available upon request

1100P

Semi-Rigid Polyamide (PA) Tubing

Tubepack® 100 m









Ø ext. (mm)	Ø int. (mm)									kg
4	2	10	1100P04 00	1100P04 01	1100P04 02	1100P04 03	1100P04 04	1100P04 05	1100P04 06	1.152
	2.7	10	1100P04 00 27	1100P04 01 27	1100P04 02 27	1100P04 03 27	1100P04 04 27	1100P04 05 27	1100P04 06 27	0.893
5	3.3	15	1100P05 00 33	1100P05 01 33			1100P05 04 33			1.274
6	4	15	1100P06 00	1100P06 01	1100P06 02	1100P06 03	1100P06 04	1100P06 05	1100P06 06	1.799
8	6	25	1100P08 00	1100P08 01	1100P08 02	1100P08 03	1100P08 04	1100P08 05	1100P08 06	2.898
10	7.5	42	1100P10 00 75	1100P10 01 75			1100P10 04 75			4.400
	8	50	1100P10 00	1100P10 01	1100P10 02	1100P10 03	1100P10 04	1100P10 05		3.667
12	9	47	1100P12 00 09	1100P12 01 09			1100P12 04 09			5.600
	10	90	1100P12 00	1100P12 01			1100P12 04	1100P12 06		5.052
14	11	80	1100P14 00 11	1100P14 01 11			1100P14 04 11			5.200
	12	116	1100P14 00	1100P14 01			1100P14 04			4.800
16	13	90	1100P16 00 13	1100P16 01 13	1100P16 02 13	1100P16 03 13	1100P16 04 13			7.800

Inch versions: also available

2005P

Semi-Rigid Polyamide (PA) Tubing









Drum 500 m

Ø ext. (mm)	Ø int. (mm)									kg
8	6	25	2005P08 00	2005P08 01	2005P08 02	2005P08 03	2005P08 04	2005P08 05	2005P08 06	12.100
10	8	50	2005P10 00	2005P10 01	2005P10 02	2005P10 03	2005P10 04	2005P10 05		15.600

2010P

Semi-Rigid Polyamide (PA) Tubing

Drum 1000 m

Ø ext. (mm)	Ø int. (mm)									kg
4	2.7	10	2010P04 00 27	2010P04 01 27	2010P04 02 27	2010P04 03 27	2010P04 04 27	2010P04 05 27	2010P04 06 27	7.630
6	4	15	2010P06 00	2010P06 01	2010P06 02	2010P06 03	2010P06 04	2010P06 05	2010P06 06	16.600

Tube Cutting to the Required Length

- Upon special request, customised cutting of the semi-rigid tubing (PA, PU, PE, FEP, PFA, ...)
- Cutting length from 30 mm to 14 m (+/- 2 mm precision)
- Marking upon request, in white or red
- Packaging according to customer requirements (bags/boxes/etc, ...)





PA Tubing

1025L

Rigid Polyamide (PA) Tubing

Tubepack® 25 m

Ø ext. (mm)	Ø int. (mm)	 R		kg
4	2.5	35	1025L04 01 25	0.190
6	4	45	1025L06 01	0.400
8	5	70	1025L08 01 05	0.760
	6	65	1025L08 01	0.760
10	6	85	1025L10 01 06	1.330

PA tubing can be connected to various fittings shown throughout this catalogue.

Tubing

Semi-Rigid PA



Rigid PA



Push-In Fittings

LF 3000° P. 1-4



LF 3600 P. 1-95



LF 3800/LF 3900 P. 1-113



LF 6100 P. 1-107



Compression Fittings

Brass P. 5-5



Stainless Steel P. 5-31



Ferrules P. 5-5





Flexible Calibrated Tubing

Technical Tubing
and Hose

Fireproof High Resistance PA Tubing

This **single layer fireproof** tubing not only combines excellent resistance to pressure, temperature and flame, but also guarantees **non-toxic smoke** resulting from burn-off. This tubing eliminates the need for a stripping tool, thus preventing the risk of tube damage prior to connection.

Product Advantages

Safety for On-Board Railway Equipment

- Designed for on-board equipment
- Excellent flame resistance: self-extinguishing
- Very little smoke generation
- Non-toxic combustion gases
- UV-resistant
- Extremely resistant to high pressure and temperature

Innovative Single-Layer Solution

- Developed for demanding industrial applications
- Excellent spark resistance
- Economical alternative to PA tubing with PVC sheath
- Combines technical advantages of rigid and semi-rigid PA tubing
- 5 colours available
- Flow direction marking
- Silicone-free



- Applications**
- Railway
 - Air Horns
 - Industrial Machinery
 - Pneumatic Doors
 - Step-Units
 - Centralised Lubrication
 - Welding

Technical Characteristics

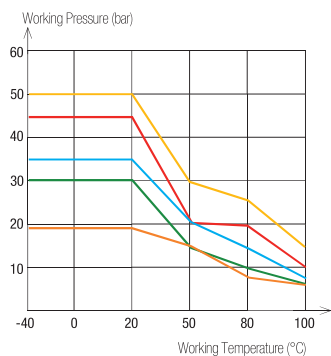
Compatible Fluids	Compressed air, lubricants Other fluids: please consult us
Working Pressure	Vacuum to 50 bar
Working Temperature	-40°C to +100°C
Component Materials	Polyamide (63 shore D)

Regulations

- Railway**
 Pr EN 45545-2: HL3, R22, R24, R25
 NF F16101: I3 F2,
 DIN 5510-2: S4, SR2, ST2
 ISO 4892
- Industrial**
 DI: 97/23/EC (PED)
 DI: 2002/95/EC (RoHS), 2011/65/EC
 RG: 1907/2006/EC (REACH)
 UL94 V-0 (Fire resistance)

Reliable performance is dependent upon the type of fluid conveyed and fittings being used. Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

Performance of Fireproof High Resistance PA Tubing



Tube O.D.	Tube O.D. Tolerance
4 mm	+0.05 / -0.08
6 to 12 mm	+0.05 / -0.10

Packaging
 Tubepack®: 100 m





Connected to Parker Legris push-in fittings, the calibration of PA tubing ensures perfect sealing based on NF E49-100.

To calculate burst pressure, the values in this graph should be multiplied by 3.

1100P..R

Fireproof High Resistant Polyamide (PA) Tubing

Tubepack® 100 m

Ø ext. (mm)	Ø int. (mm)	 R	 clear			kg
4	2	17	1100P04R00	1100P04R01	1100P04R04	1.308
6	4	29	1100P06R00	1100P06R01	1100P06R04	1.308
8	6	40	1100P08R00	1100P08R01	1100P08R04	2.122
10	8	77	1100P10R00	1100P10R01	1100P10R04	2.725
12	10	92	1100P12R00	1100P12R01	1100P12R04	3.716

Other colours available on request with a minimum order quantity: for diameters 4 to 6 mm, 1000 m; for 8 mm, 500 m; for diameters 10 to 12 mm, 300 m.

Flexible Calibrated Tubing

Technical Tubing and Hose

Related Products

Fireproof high resistance tubing can be connected to various fittings presented in Chapters 1 and 5.

Push-In Fittings

LF 3000*
P. 1-4

LF 3600
P. 1-95

LF 3800/LF 3900
P. 1-113

LF 6100
P. 1-107



Compression Fittings

Brass
P. 5-5

Brass Tube Support
P. 5-5



Anti-Spark PA Tubing with PVC Sheath

A range of **flame and spark-resistant** PA tubing with superior resistance to impact and abrasion, improving equipment **durability**, particularly in areas subject to weld spatter.

Product Advantages

Spark Resistance Flame-retardant PVC jacket protects inner tubing
Non-adhesive jacket facilitates sheath removal
Excellent pressure resistance at high temperature

Robustness & Durability Highly kink and crush-resistant
Excellent compatibility with coolants
Flow direction marking
Silicone-free



Industrial Machinery
Welding Robots
Cooling
Aggressive Environments

Applications

Technical Characteristics

Compatible Fluids	Hot and cold water, refrigerated fluids, compressed air
Working Pressure	0 to 36 bar
Working Temperature	-20°C to +80°C
Component Materials	Polyamide & PVC Sheath

Regulations

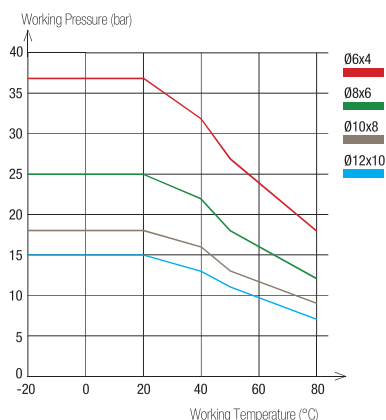
Industrial
DI: 2002/95/EC (RoHS), 2011/65/EC
DI: 97/23/EC (PED)
RG: 1907/2006 (REACH)
UL94 V-0 (Fire resistance)

Packaging

Tubepack*: 25 m, 100 m

Reliable performance is dependent upon the type of fluid conveyed and fittings being used.

Performance of Anti-Spark PA Tubing with PVC Sheath



O.D.	Tube O.D. Tolerance	PVC Sheath Thickness
PVC Sheath 8 to 14 mm	+0.10 / -0.10	1 mm
Inner Tubing 6 to 12 mm	+0.05 / -0.10	

Connected to Parker Legris push-in fittings, the calibration of PA tubing ensures perfect sealing based on NF E49-100 (semi-rigid PA inner tubing).





Tube O.D.	Sheath Removal Length for LF 3600 Push-In Fittings (mm)
4 mm	15± 1
6 mm	18± 1
8 mm	19± 1
10 mm	24± 1
12 mm	25± 1

For other fitting ranges, please consult us.

To calculate burst pressure, the values in this graph should be multiplied by 3.





1025P..V Anti-Spark Polyamide (PA) Tubing

Tubepack® 25 m

Ø ext. (mm)	Ø int. (mm)					kg
6	4	25	1025P06V01	1025P06V03	1025P06V04	1,238
8	6	30	1025P08V01	1025P08V03	1025P08V04	1,693
10	8	55	1025P10V01	1025P10V03	1025P10V04	2,029
12	10	70	1025P12V01		1025P12V04	2,970

1100P..V Anti-Spark Polyamide (PA) Tubing

Tubepack® 100 m

Ø ext. (mm)	Ø int. (mm)					kg
6	4	25	1100P06V01	1100P06V03	1100P06V04	2,338
8	6	30	1100P08V01	1100P08V03	1100P08V04	3,767
10	8	55	1100P10V01	1100P10V03	1100P10V04	4,767
12	10	70	1100P12V01		1100P12V04	6,567

6000 71 00 Stripping Tool for Anti-Spark Tubing

Technical polymer, stainless steel

[6000 71 00](#)

kg

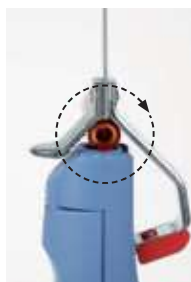
0,098

**Working Principle**Stripping Tool **6000 71 00**

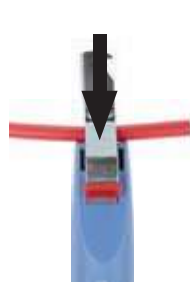
1. Place tube in stripping tool to adjust the blade height to the tube thickness.



2. Blade height is adjusted using the wheel at the bottom of the handle.



3. Once adjustments have been made, perform a 360° rotation around the tube with the tool.



4. Push down firmly on the metal part of the tool in order to hold tube properly.



5. Move the tool to the end of the tube to create an axial opening of the sheath.



6. The tube is correctly stripped.

PU Tubing

Polyurethane's **3 specific materials** - ether, ester and food-grade "crystal" - offer excellent flexibility and outstanding use in a wide range of applications, allowing for up to **50% space reduction** when compared to semi-rigid PA tubing.

Product Advantages

Excellent Mechanical Properties

- Consistent tensile strength for optimum longevity
- Optimal bend radius
- Good vibration absorption
- Unsurpassed abrasion resistance for a single layer tubing
- UV-resistant
- Superior vacuum capability due to surface hardness
- Remaining length marking
- Silicone-free

3 Material Grades

- PU ester: perfect for pneumatic applications
- PU ether: no water absorption ; superior chemical resistance to PU ester
- PU ether food-grade "crystal":
 - identification of fluids and circuits
 - chemical resistance superior to PU ether
 - improved longevity



Food Process
Robotics
Cabling
Pneumatics
Automation
In-Plant Automotive
Rapid Cycles

Applications

Technical Characteristics

Compatible Fluids	Compressed air, industrial fluids (depending on the material type)
Working Pressure	Vacuum to 12 bar
Working Temperature	-20°C to +70°C
Component Materials	Polyurethane ester (52 Shore D) Polyurethane ether (52 Shore D) Polyurethane ether food-grade "crystal" (52 Shore D)

Regulations

Industrial

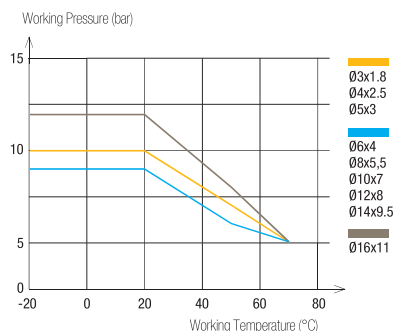
DI: 2002/95/EC (RoHS), 2011/65/EC
DI: 97/23/EC (PED)
RG: 1907/2006 (REACH)

Food (PU ether food-grade "crystal")

FDA: 21 CFR 177.2600, 178.3297, 176.170, 178.2010
RG: 1935/2004 EC

Reliable performance is dependent upon the type of fluid conveyed and fittings being used. Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

Performance of PU Tubing



Tube O.D.	Tube O.D. Tolerance
3 to 8 mm	+0.10 / -0.10
10 to 16 mm	+0.15 / -0.15

Connected to Parker Legris push-in fittings, the calibration of PU tubing ensures perfect sealing based on NF E49-101.

Packaging








Tubepack*: 25 m, 100 m
Drum: 300 m, 500 m, 1 000 m

To calculate burst pressure, the values in this graph should be multiplied by 3.

1025U

Polyurethane (PU) Ester Tubing

Tubepack® 25 m








Ø ext. (mm)	Ø int. (mm)								kg
3	1.8	8	1025U03 01 18						0.020
4	2.5	10	1025U04 01	1025U04 02	1025U04 03	1025U04 04	1025U04 05	1025U04 06	0.310
5	3	13	1025U05 01			1025U05 04			0.522
6	4	15	1025U06 01	1025U06 02	1025U06 03	1025U06 04	1025U06 05	1025U06 06	0.591
8	5.5	20	1025U08 01	1025U08 02	1025U08 03	1025U08 04	1025U08 05	1025U08 06	0.971
10	7	25	1025U10 01	1025U10 02		1025U10 04	1025U10 05	1025U10 06	1.467
12	8	35	1025U12 01	1025U12 02		1025U12 04	1025U12 05	1025U12 06	2.406
14	9.5	45	1025U14 01 95			1025U14 04 95			2.815
16	11	45	1025U16 01 11	1025U16 02 11	1025U16 03 11	1025U16 04 11			2.815

Inch tubing available upon request

1100U

Polyurethane (PU) Ester Tubing

Tubepack® 100 m








Ø ext. (mm)	Ø int. (mm)								kg
4	2.5	10	1100U04 01	1100U04 02	1100U04 03	1100U04 04	1100U04 05	1100U04 06	1.092
5	3	13	1100U05 01			1100U05 04			1.092
6	4	15	1100U06 01	1100U06 02	1100U06 03	1100U06 04	1100U06 05	1100U06 06	2.064
8	5.5	20	1100U08 01	1100U08 02	1100U08 03	1100U08 04	1100U08 05	1100U08 06	3.610
10	7	25	1100U10 01			1100U10 04			6.105
12	8	35	1100U12 01			1100U12 04			8.610
14	9.5	45	1100U14 01 95			1100U14 04 95			11.215
16	11	45	1100U16 01 11	1100U16 02 11	1100U16 03 11	1100U16 04 11			12.176

Inch tubing available upon request

2003U

Polyurethane (PU) Ester Tubing








Drum 300 m

Ø ext. (mm)	Ø int. (mm)								kg
10	7	25	2003U10 01	2003U10 02	2003U10 03	2003U10 04	2003U10 05	2003U10 06	16.600

2005U

Polyurethane (PU) Ester Tubing








Drum 500 m

Ø ext. (mm)	Ø int. (mm)								kg
8	5.5	20	2005U08 01	2005U08 02	2005U08 03	2005U08 04	2005U08 05		17.100

2010U









Polyurethane (PU) Ester Tubing

Drum 1000 m

Ø ext. (mm)	Ø int. (mm)								kg
4	2.5	12	2010U04 01	2010U04 02	2010U04 03	2010U04 04	2010U04 05	2010U04 06	9.840
6	4	15	2010U06 01	2010U06 02	2010U06 03	2010U06 04	2010U06 05	2010U06 06	20.460




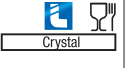




1025U..R Polyurethane (PU) Ether Tubing

Tubepack® 25 m

Ø ext. (mm)	Ø int. (mm)									kg
4	2.5	12	1025U04R01	1025U04R04	1025U04R08	1025U04R12	1025U04R13	1025U04R14	1025U04R17	0.310
5	3	13			1025U05R08					0.522
6	4	15	1025U06R01	1025U06R04	1025U06R08	1025U06R12	1025U06R13	1025U06R14	1025U06R17	0.591
8	5.5	20	1025U08R01	1025U08R04	1025U08R08	1025U08R12	1025U08R13	1025U08R14	1025U08R17	0.971
10	7	25	1025U10R01	1025U10R04	1025U10R08			1025U10R14		1.467
12	8	35	1025U12R01	1025U12R04	1025U12R08			1025U12R14		2.406
14	9.5	45		1025U14R01 95						2.421
16	11	45			1025U16R08 11					2.815





1100U..R Polyurethane (PU) Ether Tubing

Tubepack® 100 m

Ø ext. (mm)	Ø int. (mm)									kg
4	2.5	12	1100U04R01	1100U04R04	1100U04R08	1100U04R12	1100U04R13	1100U04R14	1100U04R17	1.092
6	4	15	1100U06R01	1100U06R04	1100U06R08	1100U06R12	1100U06R13	1100U06R14	1100U06R17	2.064
8	5.5	20	1100U08R01	1100U08R04	1100U08R08	1100U08R12	1100U08R13	1100U08R14	1100U08R17	3.610
10	7	25			1100U10R08			1100U10R14		6.109
12	8	35			1100U12R04					8.610
14	9.5	45			1100U14R08 95					11.215
16	11	45			1100U16R08 11					12.176





2003U..R Polyurethane (PU) Ether Tubing

Drum 300 m

Ø ext. (mm)	Ø int. (mm)					kg
10	7	25	2003U10R01	2003U10R04	2003U10R08	16.600





2005U..R Polyurethane (PU) Ether Tubing

Drum 500 m

Ø ext. (mm)	Ø int. (mm)					kg
8	5.5	20	2005U08R01	2005U08R04	2005U08R08	15.600

2010U..R Polyurethane (PU) Ether Tubing

Drum 1000 m

Ø ext. (mm)	Ø int. (mm)					kg
4	2.5	12	2010U04R01	2010U04R04	2010U04R08	8.670
6	4	15	2010U06R01	2010U06R04	2010U06R08	18.600



Flexible Calibrated Tubing

Technical Tubing
and Hose

Antistatic PU Tubing

With a constant **10² Ω.m resistivity** across the entire thickness of the tubing wall, this tubing guarantees **perfect dissipation of accumulated static electricity**, thereby increasing safety.

Product Advantages

Security | Low resistivity throughout the material
 Suitable for ATEX* areas
 Superior longevity
 Excellent vibration absorption
 UV-resistant
 Silicone-free

Machinery Optimisation | Minimum bend radius allowing maximum space saving
 Good chemical resistance
 Wide temperature range
 Stable chemical characteristics throughout tubing



Antistatic Packaging
 Pneumatics
 Electronics
 Spray Painting
 Electrical Converters

Applications

Technical Characteristics

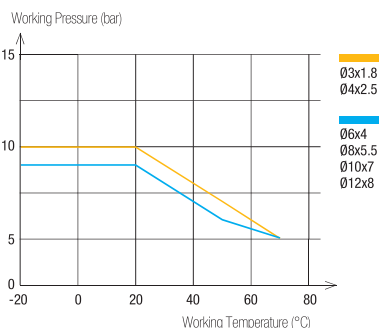
Compatible Fluids	Compressed air, industrial fluids
Working Pressure	Vacuum to 10 bar
Working Temperature	-20°C to +70°C
Component Materials	Polyurethane with conductive additive (50 shore D)

Regulations

DI: 94/9/EC (ATEX*)
 DI: 1907/2006 (REACH)
 DI: 2002/95/EC (RoHS), 2011/65/EC
 *For ATEX areas, please consult us

Reliable performance is dependent upon the type of fluid conveyed and fittings being used. Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

Performance of Antistatic PU Tubing



To calculate burst pressure, the values in this graph should be multiplied by 3.

Tube O.D.	Tube O.D. Tolerance
3 to 8 mm	+0.10 / -0.10
10 to 12 mm	+0.15 / -0.15

Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing based on NF E49-101.



Packaging

Tube pack: 25 m, 100 m

1025U..A

Anti-Static Polyurethane (PU) Ester Tubing



Tubepack® 25 m

Ø ext. (mm)	Ø int. (mm)			kg
4	2.5	12	1025U04A01	0.260
6	4	15	1025U06A01	0.500
8	5.5	25	1025U08A01	1.260

1100U..A

Anti-Static Polyurethane (PU) Ester Tubing

Tubepack® 100 m

Ø ext. (mm)	Ø int. (mm)			kg
3	1.8	10	1100U03A01	0.836
4	2.5	12	1100U04A01	1.092
6	4	15	1100U06A01	2.064
8	5.5	25	1100U08A01	3.610
10	7	35	1100U10A01	6.105
12	8	45	1100U12A01	8.610

Flexible Calibrated Tubing

Technical Tubing
and Hose

Related Products

To maintain the antistatic properties throughout the circuit, it is recommended that this tubing be used with metallic fittings.

Push-In Fittings

[LF 3600](#) P. 1-95



[LF 3800](#) P. 1-113



[LF 3900](#) P. 1-113



Compression Fittings

[Brass](#) P. 5-5



[Stainless Steel](#) P. 5-31



Anti-Spark PU Tubing

Combining **outstanding spark resistance** with superb **flexibility**, this range is perfectly suited for welding applications.

Two types of PU - ether with PVC sheath or single layer ether - are available and allow **rapid installation** with Parker Legris push-in fittings.

Product Advantages

PU with PVC Sheath

- High resistance to kinking and abrasion
- Non-adhesive jacket facilitating sheath removal
- Fluid direction marking
- Self-extinguishing sheath, protecting the inner tubing
- Silicone-free

Single Layer PU

- Minimum bend radius for maximum space saving
- Significant flexibility for rapid cycling
- Good chemical resistance
- Flow direction marking
- Fireproof material
- Silicone-free



Industrial Machinery
Compressed Air
Robotics
Mechanical Constraints
Cooling
Welding
Cabling

Applications

Technical Characteristics

Compatible Fluids	Industrial fluids, compressed air, coolants
Working Pressure	Vacuum to 14 bar
Working Temperature	-20°C to +70°C
Component Materials	PU ether with PVC sheath PU ether single layer

O.D. of Tube	Sheath Removal Length for LF 3600 (mm)
4 mm	15± 1
6 mm	18± 1
8 mm	19± 1
10 mm	24± 1
12 mm	25± 1

Regulations

UL94 V-0 (Fire resistance)
 DI: 2002/95/EC (RoHS),
 2011/65/EC
 RG: 1907/2006 (REACH)

Packaging

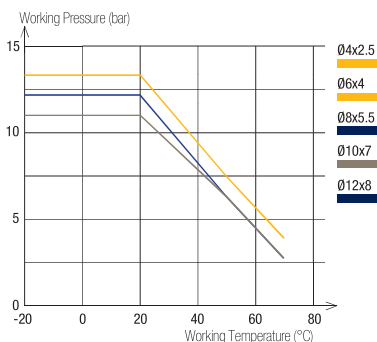
Tube pack*: 25 m, 100 m

Reliable performance is dependent upon the type of fluid conveyed and fittings being used. Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

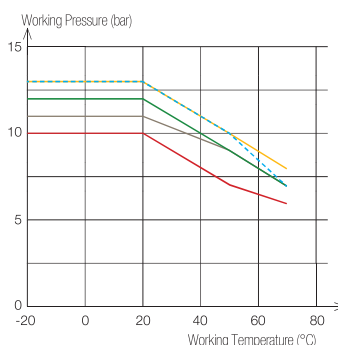
For other fitting ranges or other tube diameters, please consult us.

Tubing Performance

Anti-Spark PU Tubing, with PVC Sheath



Anti-Spark PU Tubing, Single Layer



To calculate burst pressure, the values in these graphs should be multiplied by 3.
 For diameter 14x9.5: tubing performances available upon request.





Tube O.D.	Tube O.D. Tolerance	Thickness and Tolerances of PVC Sheath
4 to 8 mm	+0.10 / -0.10	1mm +0.10 / -0.10
10 to 14 mm	+0.15 / -0.15	

Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing based on NF E49-101 (inner tubing for sheathed or single layer tubing).

1025U..V

Anti-Spark Sheath Polyurethane (PU) Ether Tubing





Tubepack® 25 m

Ø ext. (mm)	Ø int. (mm)					kg
6	4	12	1025U06V01	1025U06V03	1025U06V04	1.200
8	5.5	20	1025U08V01	1025U08V03	1025U08V04	1.620
10	7	25	1025U10V01	1025U10V03	1025U10V04	2.900
12	8	35	1025U12V01		1025U12V04	4.030

1100U..V

Anti-Spark Sheath Polyurethane (PU) Ether Tubing






Tubepack® 100 m

Ø ext. (mm)	Ø int. (mm)					kg
6	4	12	1100U06V01	1100U06V03	1100U06V04	5.370
8	5.5	20	1100U08V01	1100U08V03	1100U08V04	7.630
10	7	25	1100U10V01	1100U10V03	1100U10V04	10.860
12	8	35	1100U12V01		1100U12V04	15.060

1025U..K

Single Layer Anti-Spark Polyurethane (PU) Ether Tubing






Tubepack® 25 m

Ø ext. (mm)	Ø int. (mm)						kg
4	2.5	12	1025U04K01		1025U04K03		0.230
6	4	15	1025U06K01		1025U06K03	1025U06K04	0.580
8	5.5	20	1025U08K01	1025U08K02	1025U08K03	1025U08K04	0.860
10	7	25	1025U10K01	1025U10K02	1025U10K03	1025U10K04	1.230
12	8	35	1025U12K01	1025U12K02	1025U12K03	1025U12K04	2.080
14	9.5	45			1025U14K03 95		2.620

1100U..K

Single Layer Anti-Spark Polyurethane (PU) Ether Tubing

Tubepack® 100 m

Ø ext. (mm)	Ø int. (mm)						kg
4	2.5	12	1100U04K01				0.900
6	4	15	1100U06K01		1100U06K03	1100U06K04	2.320
8	5.5	20	1100U08K01	1100U08K02	1100U08K03	1100U08K04	3.030
10	7	25	1100U10K01	1100U10K02	1100U10K03	1100U10K04	5.100
12	8	35	1100U12K01	1100U12K02	1100U12K03	1100U12K04	8.600
14	9.5	45			1100U14K03 95		10.676

6000 71 00 Stripping Tool for Anti-Spark Tubing

Technical polymer, stainless steel



6000 71 00

kg

0.098

Working principle of the stripping tool page 3-17



PE Tubing

Parker Legris offers two types of polyethylene tubing: "**Advanced PE**" 50% reticulated and **Low Density PE**. Our range of "Advanced PE" is designed for demanding environments, especially that of water treatment, without compromising operator **safety**.

Product Advantages

Advanced PE 50% reticulated material
 Best balance between flexibility and pressure/temperature resistance
 Resistant to a wide range of aggressive chemicals
 UV-stabilised: ideal for outdoor applications
 Approved for permanent contact with food and beverages
 Silicone-free

Low Density PE Excellent resistance to aggressive and corrosive agents
 Good technical trade-off
 Food-grade material
 Silicone-free



Applications
 Beverage
 Chemical
 Petrochemical
 Food Process
 Water
 Water Treatment

Technical Characteristics

Tube	Advanced PE	Low Density PE
Compatible Fluids	Water, beverages and other fluids	Industrial fluids
Working Pressure	Vacuum to 16 bar	Vacuum to 20 bar
Working Temperature	-40°C to +95°C	-40°C to +60°C
Component Materials	High quality polyethylene: 50% reticulated PE 50% low density PE (44 shore D)	Low Density Polyethylene (44 shore D)

Regulations

Advanced PE Tubing

FDA: 21 CFR 177.1520
 RG: 1935/2004/EC
 DI: 97/23/EC (PED)
 DI: 2002/95/EC (RoHS), 2011/65/EC
 NSF 42/58 (1/4" and 3/8" approved for 10 bar and 1/2" approved for 8 bar at room temperature)
 NSF 51, 61 C-HOT
 ACS (except for purple colour)
 WRAS
 RG: 1907/2006 (REACH)

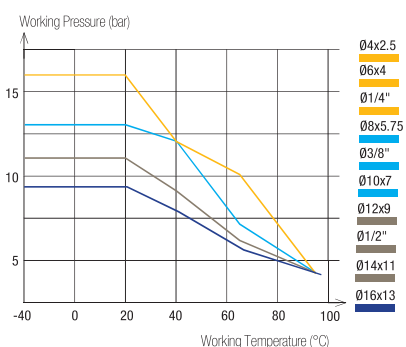
Low Density PE Tubing

FDA: 21 CFR 177.1520
 DI: 2002/95/EC (RoHS), 2011/65/EC
 DI: 97/23/EC (PED)

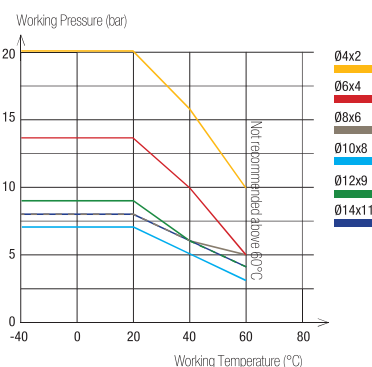
Reliable performance is dependent upon the type of fluid conveyed and fittings being used. Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

Tubing Performance

Advanced PE Tubing



Low Density PE Tubing



Tube O.D.	Tube O.D. Tolerance
1/4" to 1/2"	+0.10 / -0.10
4 to 16 mm	+0.10 / -0.10

Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing.

Packaging


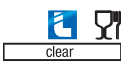






Advanced PE Tubing
 Drum: 75 m, 150 m, 300 m
 250 feet, 500 feet, 1 000 feet
 PE Tubing
 Tubepack: 25 m, 100 m

To calculate burst pressure, the values in these graphs should be multiplied by 3.

1015Y..F

Advanced Polyethylene (APE) Tubing









Drum 150 m

Ø ext. (mm)	Ø int. (mm)		 clear						 white	kg
4	2.5	16	1015Y04F00	1015Y04F01	1015Y04F02	1015Y04F03	1015Y04F04	1015Y04F05	1015Y04F10	4.914
6	4	32	1015Y06F00	1015Y06F01	1015Y06F02	1015Y06F03	1015Y06F04	1015Y06F05	1015Y06F10	5.434
8	5.75	40	1015Y08F00	1015Y08F01	1015Y08F02	1015Y08F03	1015Y08F04	1015Y08F05	1015Y08F10	3.279
10	7	40	1015Y10F00	1015Y10F01	1015Y10F02	1015Y10F03	1015Y10F04	1015Y10F05	1015Y10F10	5.318

1030Y..F

Advanced Polyethylene (APE) Tubing









Drum 300 m

Ø ext. (mm)	Ø int. (mm)		 clear						 white	kg
4	2.5	16	1030Y04F00	1030Y04F01	1030Y04F02	1030Y04F03	1030Y04F04	1030Y04F05	1030Y04F10	2.860
6	4	32	1030Y06F00	1030Y06F01	1030Y06F02	1030Y06F03	1030Y06F04	1030Y06F05	1030Y06F10	5.318

1075Y..F

Advanced Polyethylene (APE) Tubing









Drum 75 m

Ø ext. (mm)	Ø int. (mm)		 clear						 white	kg
12	9	55	1075Y12F00	1075Y12F01	1075Y12F02	1075Y12F03	1075Y12F04	1075Y12F05	1075Y12F10	3.852
14	11	75	1075Y14F00							5.850
16	13	95	1075Y16F01							7.550

1096Y..F

Advanced Polyethylene (APE) Tubing









Drum 250 ft

Ø ext. (mm)	Ø int. (mm)		 clear						 white	kg
1/2	0.375	1.96	1096Y62F00	1096Y62F01	1096Y62F02	1096Y62F03	1096Y62F04	1096Y62F05	1096Y62F10	4.200

1098Y..F

Advanced Polyethylene (APE) Tubing









Drum 500 ft

Ø ext. (mm)	Ø int. (mm)		 clear						 white	kg
1/4	0.170	0.78	1098Y56F00	1098Y56F01	1098Y56F02	1098Y56F03	1098Y56F04	1098Y56F05	1098Y56F10	2.334
3/8	0.250	1.18	1098Y60F00	1098Y60F01	1098Y60F02	1098Y60F03	1098Y60F04	1098Y60F05	1098Y60F10	5.518

1099Y..F

Advanced Polyethylene (APE) Tubing



Drum 1000 ft

Ø ext. (mm)	Ø int. (mm)		 clear						 white	kg
1/4	0.170	0.78	1099Y56F00	1099Y56F01	1099Y56F02	1099Y56F03	1099Y56F04	1099Y56F05	1099Y56F10	4.718

Low Density Polyethylene

1100Y

Tubepack® 100 m

Ø ext. (mm)	Ø int. (mm)		 clear	kg
4	2	25	1100Y04 00	0.910
6	4	35	1100Y06 00	1.500
8	6	55	1100Y08 00	2.140
10	8	80	1100Y10 00	2.710
12	9	65	1100Y12 00	4.750
14	11	80	1100Y14 00	5.650

Fluoropolymer Tubing – FEP

FEP (fluorinated ethylene propylene) tubing is a **robust engineering fluoropolymer** which provides excellent fluid visibility and is perfect for flow control monitoring.

Product Advantages

Flow Control | Transparent
Flexible and non-flammable material
Resistant to nearly all chemicals and solvents

Tried-&-Tested Properties | Excellent transmission of UV light
Low friction coefficient
Food-grade material
Low permeability
Easily weldable
Silicone-free



Instrumentation
Food Process
UV
Gas Sampling
Chemical
Temperature Cycling
Laboratory

Applications

Technical Characteristics

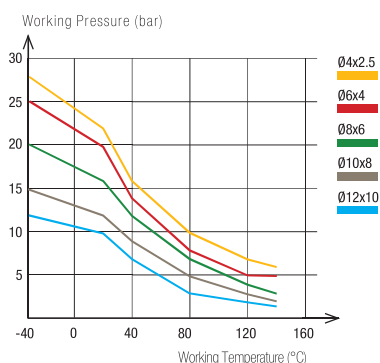
Compatible Fluids	Industrial fluids
Working Pressure	0 to 28 bar
Working Temperature	-40°C to +150°C
Component Materials	Fluorinated ethylene propylene (pure) (55 Shore D)

Regulations

Food
FDA: 21 CFR 177.1550
RG: 1935/2004
Industrial
UL94 V-0 (Fire resistance)
DI: 2002/95/EC (RoHS), 2011/65/EC
DI: 97/23/EC (PED)
RG: 1907/2006 (REACH)

Reliable performance is dependent upon the type of fluid conveyed and fittings being used.

Performance of FEP Tubing



Tube O.D.	Tube O.D. Tolerance
4 mm	+0.05 / -0.05
6 to 10 mm	+0.07 / -0.07
12 mm	+0.10 / -0.10




Packaging
Tubepack®: 5 m, 25 m

Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing.

1005T

Fluoropolymer (FEP) Tubing




Tubepack® 5 m

Ø ext. (mm)	Ø int. (mm)	 R	  clear	kg
4	2.5	40	1005T04 00 25	0.155
6	4	50	1005T06 00	0.250
8	6	70	1005T08 00	0.385
10	8	120	1005T10 00	0.524
12	10	180	1005T12 00	0.547

1025T

Fluoropolymer (FEP) Tubing

Tubepack® 25 m

Ø ext. (mm)	Ø int. (mm)	 R	  clear	kg
4	2.5	40	1025T04 00 25	0.506
6	4	50	1025T06 00	1.025
8	6	70	1025T08 00	1.431
10	8	120	1025T10 00	1.693
12	10	180	1025T12 00	1.913

Flexible Calibrated Tubing

Technical Tubing
and Hose

Related Products

Parker Legris stainless steel fittings are perfectly suited for use with fluoropolymer tubing (PFA, FEP).

Push-In Fittings

[LF 3800](#) P. 1-77



[LF 3900](#) P. 1-77



Compression Fittings

[Stainless Steel](#) P. 5-31



Fluoropolymer Tubing - PFA

Parker Legris **PFA** (perfluoroalkoxy) tubing offers **10 times greater durability** than other fluoropolymer tubings (PTFE, FEP and PVDF) under severe chemical and mechanical conditions. This tubing range is available in **three material grades**, offering perfect compatibility with all applications, even in extreme environments.

Product Advantages

Great Versatility

- Exceptional chemical inertia
- A flexible alternative to stainless steel tubing
- Broad range of working temperatures, from cryogenic to extreme heat
- Non-stick properties allowing conveyance of many fluids & gases
- Outstanding resistance to ageing
- Fluoropolymer with the lowest permeability
- Non-flammable
- UV-transparent
- Tube marking on request
- Silicone-free

Three Material Grades

- Clear High Purity PFA: to cover all applications, including those requiring maximum mechanical resistance
- Coloured PFA: for circuit identification
- Black Antistatic PFA: eliminates all risk of electrostatic discharge



- Applications**
- Food Process
 - Fuel Cells
 - Electrical/Electronics
 - Aircraft
 - Oil/Gas Industry
 - Pharmaceutical
 - Medical
 - Chemical
 - Clean Rooms

Technical Characteristics

Compatible Fluids	Medical, bio-compatible, food process, gas, compressed air
Working Pressure	Vacuum to 36 bar
Working Temperature	-196°C to +260°C
Component Materials	Perfluoroalkoxy - 55 Shore D <ul style="list-style-type: none"> • High Purity PFA • Translucent coloured PFA • Antistatic PFA

Reliable performance is dependent upon the type of fluid conveyed and fittings being used. Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

Regulations

Medical

USP: Class VI (A)
External communication devices

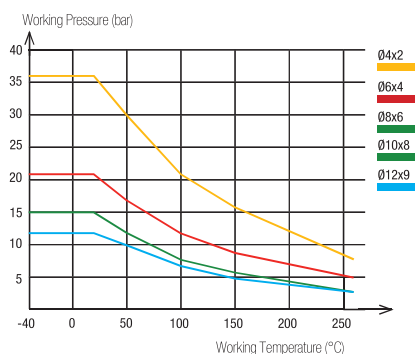
Industrial

UL94 V-0 (Fire resistance)
DI: 2002/95/EC (RoHS), 2011/65/EC
DI: 97/23/EC (PED)
RG: 1907/2006 (REACH)
DI: 94/09/EC (ATEX, black tubing)

Food Industry

FDA: 21 CFR 177.1550
(clear, translucent coloured)
RG: 1935/2004

Performance of PFA Tubing



Tube O.D.	Tube O.D. Tolerance
4 to 8 mm	+0.10 / -0.10
10 to 12 mm	+0.15 / -0.15

Packaging






Tube-pack: 10 m, 50 m, 100 m

Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing based on NF E49-100.

To calculate burst pressure, the values in this graph should be multiplied by 3.






1010T..P Fluoropolymer (FEP) Tubing

Tubepack® 10 m

Ø ext. (mm)	Ø int. (mm)		 High purity	 Crystal	 Crystal	 Crystal	kg
4	2	12	1010T04P00	1010T04P12	1010T04P13	1010T04P14	0.087
6	4	34	1010T06P00	1010T06P12	1010T06P13	1010T06P14	0.237
8	6	60	1010T08P00	1010T08P12	1010T08P13	1010T08P14	0.410
10	8	95	1010T10P00				0.723
12	9	120	1010T12P00				1.148



1050T..P Fluoropolymer (FEP) Tubing

Tubepack® 50 m

Ø ext. (mm)	Ø int. (mm)		 High purity	 Crystal	 Crystal	 Crystal	kg
4	2	12	1050T04P00	1050T04P12	1050T04P13	1050T04P14	0.435
6	4	34	1050T06P00	1050T06P12	1050T06P13	1050T06P14	1.185
8	6	60	1050T08P00	1050T08P12	1050T08P13	1050T08P14	2.050
10	8	95	1050T10P00				3.615
12	9	120	1050T12P00				5.740



1100T..P Fluoropolymer (FEP) Tubing

Tubepack® 100 m

Ø ext. (mm)	Ø int. (mm)		 clear	kg
4	2	12	1100T04P00	0.870
6	4	34	1100T06P00	2.370
8	6	60	1100T08P00	4.100
10	8	95	1100T10P00	7.230
12	9	120	1100T12P00	11.480



1010T..A Fluoropolymer (FEP) Antistatic Tubing

Tubepack® 10 m

Ø ext. (mm)	Ø int. (mm)			kg
4	2	12	1010T04A01	0.087
6	4	34	1010T06A01	0.237
8	6	60	1010T08A01	0.410

1050T..A Fluoropolymer (FEP) Antistatic Tubing

Tubepack® 50 m

Ø ext. (mm)	Ø int. (mm)			kg
4	2	12	1050T04A01	0.435
6	4	34	1050T06A01	1.185
8	6	60	1050T08A01	2.050

Multi-Tubing

Our range of multi-tubing combines high quality performance and **space optimisation** in complex pneumatic circuits **covering a wide range of environments**. **Many possible configurations** are available, depending on the pressure, temperature, flexibility and compatibility requirements.

Product Advantages

Sheathed PA Tubing

PVC sheath resistant to external damage:

- abrasion
- weld spatter
- aggressive fluids

Helically wound: minimum bend radius, compact installation

Simplified routing

Easy identification of circuits

Same technical performance as PA

Possible number of tubes: from 2 to 12, with numbering

Silicone-free

Twin PU Ester Tubing

Tubes fully joined for improved solidity

External diameter maintained after separation

Rapid identification of circuits

Quick and easy installation

Simplified routing

3 colour combinations available

Silicone-free



Pneumatics
Automation
Robotics
Transportation
In-Plant Automotive
Process Industry

Applications

Technical Characteristics

Tube	PA	PU
Compatible Fluids	Compressed air, chemicals, industrial fluids	Compressed air, industrial fluids
Working Pressure	Vacuum to 24 bar	0 to 14 bar
Working Temperature	-40°C to +80°C	-20°C to +70°C
Component Materials	Polyamide	Polyurethane ester

Reliable performance is dependent upon the type of fluid conveyed and fittings being used. Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

Regulations

Industrial

DI: 2002/95/EC (RoHS), 2011/65/EC

DI: 97/23/EC (PED)

RG: 1907/2006 (REACH)

Performance and chemical resistance according to DIN 73378

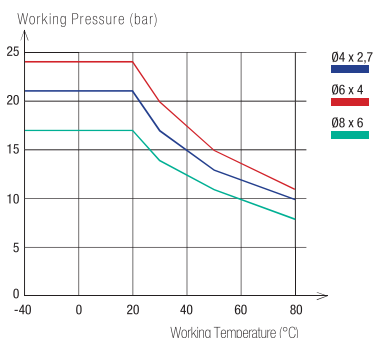
Packaging

Sheathed PA Tubing:
Tubepack® 10 m, 50 m

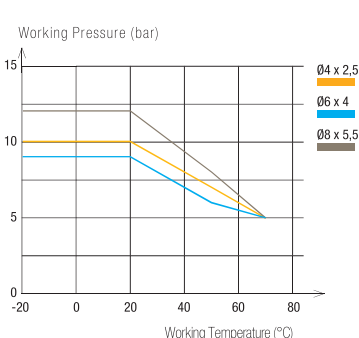
Twin PU Ester Tubing:
Tubepack® 25 m

Tubing Performance

Sheathed PA Tubing



Twin PU Ester Tubing





Material	Tube O.D.	Tube O.D. Tolerance
PA	4 mm	+0.05 / -0.08
	6 to 8 mm	+0.05 / -0.10
PU	4 to 8 mm	+0.10 / -0.10

Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing based on NF E49-100 (for semi-rigid PA) and NF E49-101 (for twin PU ester).

To calculate burst pressure, the values in these graphs should be multiplied by 3.


1010P..M Semi-Rigid Polyamide (PA) Multi-Tubing

Reel 10 m

Ø ext. (mm)	Ø int. (mm)		Number of tubes		kg
4	2.7	35	4	1010P04 00M04	1.440
		45	7	1010P04 00M07	1.920
6	4	55	4	1010P06 00M04	2.300
		60	7	1010P06 00M07	2.900
8	6	45	2	1010P08 00M02	2.600





1050P..M Semi-Rigid Polyamide (PA) Multi-Tubing

Reel 50 m

Ø ext. (mm)	Ø int. (mm)		Number of tubes		kg
4	2.7	20	2	1050P04 00M02	4.400
		35	4	1050P04 00M04	6.600
		45	7	1050P04 00M07	8.200
		55	12	1050P04 00M12	15.200
6	4	45	2	1050P06 00M02	8.400
		55	4	1050P06 00M04	11.500
		60	7	1050P06 00M07	12.500
8	6	45	2	1050P08 00M02	13.000

1420U Twin Polyurethane (PU) Tubing

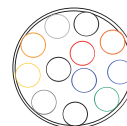
Tubepack® 25 m

Ø ext. (mm)	Ø int. (mm)					kg
4	2.5	12	1420U04 41	1420U04 44	1420U04 11	0.620
6	4	15	1420U06 41	1420U06 44	1420U06 11	1.182
8	5.5	20	1420U08 41	1420U08 44	1420U08 11	1.942

Colour Selection



Multi-Tubing
Semi-Rigid PA/PVC Sheath



Related Products

To complement the Multi-Tubing range, Parker Legris proposes multi-connectors, shown in Chapter 1.

Push-In Fittings

Multi-Connector P. 1-31



PA Recoil Tubing

Parker Legris recoil tubing has a **lasting memory after multiple uses**, offering an **alternative to reels** for excellent ergonomics and space saving. The pre-assembled tubes are equipped with a protection spring, preventing damage to the ends.

Product Advantages

Excellent Mechanical Properties

- Low pressure drop
- Good chemical compatibility
- Self-retracting
- Identical technical performance to PA tubing
- Silicone-free

Comprehensive Range

- Ready-to-use
- Various colours for circuit identification
- Available with pre-assembled connectors



Applications

- MRO
- Pneumatic Tools
- Transportation
- Lubrication
- Industrial Cleaning
- Robotics
- Car Washing

Technical Characteristics

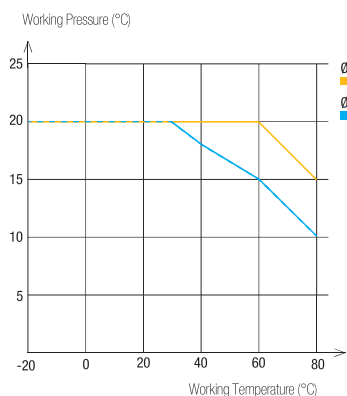
Compatible Fluids	Compressed air, lubricants, Other fluids: please consult us
Working Pressure	Vacuum to 20 bar
Working Temperature	-20°C to +80°C
Component Materials	Polyamide (60 Shore D)

Regulations

DI: 97/23/EC (PED)
 RG: 1907/2006 (REACH)
 DI: 2002/95/EC (RoHS), 2011/65/EC

Reliable performance is dependent upon the type of fluid conveyed and fittings being used. Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

Performance of PA Recoil Tubing



Tube O.D.	Passage	Tube O.D. Tolerance
6 mm	4 mm	+0.05 / -0.10
8 mm	6 mm	+0.05 / -0.10



Packaging

Plastic bags: 2m to 6 m
 Other lengths and colours on request

To calculate burst pressure, the values in these graphs should be multiplied by 3.

1470P

Polyamide (PA) Recoil Tubing 2 m, Male BSPT Fitting



Ø ext. (mm)	Ø int. (mm)	BSPT Thread			Total Closed Length (mm)	O.D. of Coil (mm)	kg
6	4	R1/4	1470P06 04 13	1470P06 07 13	520	60	0.143
8	6	R1/4	1470P08 04 13	1470P08 07 13	560	70	0.174

Length of long straight section: 300 mm

Length of short straight section: 100 mm

1471P

Polyamide (PA) Recoil Tubing 4 m, Male BSPT Fitting


Ø ext. (mm)	Ø int. (mm)	BSPT Thread			Total Closed Length (mm)	O.D. of Coil (mm)	kg
6	4	R1/4	1471P06 04 13	1471P06 07 13	640	60	0.199
8	6	R1/4	1471P08 04 13	1471P08 07 13	720	70	0.249

Length of long straight section: 300 mm

Length of short straight section: 100 mm

1472P

Polyamide (PA) Recoil Tubing 6 m, Male BSPT Fitting

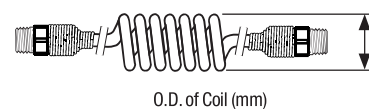
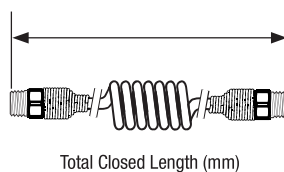
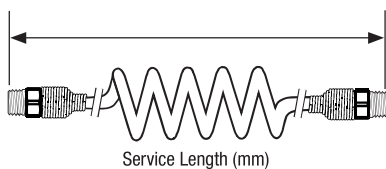
Ø ext. (mm)	Ø int. (mm)	BSPT Thread			Total Closed Length (mm)	O.D. of Coil (mm)	kg
6	4	R1/4	1472P06 04 13	1472P06 07 13	760	60	0.260
8	6	R1/4	1472P08 04 13	1472P08 07 13	880	70	0.329

Length of long straight section: 300 mm

Length of short straight section: 100 mm

Dimensions for Recoil Tubing

Service length: maximum recommended operating length in order to ensure that the coil will continue to contract after multiple uses.



PU Recoil Tubing

With its small coil diameter and good impact resistance, this polyurethane recoil tubing is perfect for installations requiring **flexibility** in confined spaces. Good resistance to shock and abrasion, together with a design integrating straight ends, allow for **easy and safe operation** of pneumatic equipment.

Product Advantages

Excellent Mechanical Properties

- Excellent coil memory
- Abrasion-resistant
- Perfect for rapid cycling applications
- Consistent tensile strength
- Optimum longevity
- Low pressure drop
- Lightweight with plastic protection spring
- Silicone-free

Comprehensive Range

- Available in 2 materials: PU ester and PU ether
- With or without pre-assembled fittings
- Pre-assembled plastic or metal protection springs to prevent damage to equipment and tubing



Applications

- Workshops
- Tooling
- Pneumatics
- Motion Technologies
- Robotics
- Industrial Machinery

Technical Characteristics

Compatible Fluids	Compressed air
Working Pressure	0 to 10 bar
Working Temperature	-20°C to +70°C (assembled tubing)
Component Materials	Polyurethane ester: 52 Shore D Polyurethane ether: 46 Shore D

Regulations

Industrial
 NF E49-101
 DI: 2002/95/EC (RoHS), 2011/65/EC
 DI: 97/23/EC (PED)
 RG: 1907/2006 (REACH)

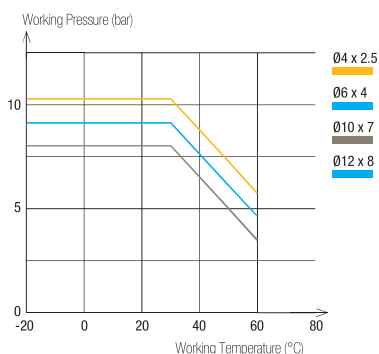
Packaging

Plastic bags: from 2 m to 7.5 m

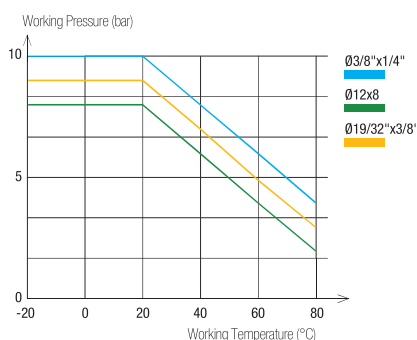
Reliable performance is dependent upon the type of fluid conveyed and fittings being used.

Performance of PU Recoil Tubing

PU Ester Recoil Tubing



PU Ether Recoil Tubing






Tube O.D.	Tube I.D.	Tube O.D. Tolerance
4 to 8 mm	2.5 to 5.5 mm	+0.10 / -0.10
10 to 12 mm	7 to 8 mm	+0.15 / -0.15
3/8" and 19/32"	1/4" and 3/8"	+/- 0.005"

To calculate burst pressure, the values in these graphs should be multiplied by 3.

1470U




Polyurethane (PU) Ester Recoil Tubing 2 m, Male BSPT Fitting

Ø ext. (mm)	Ø int. (mm)	BSPT Thread				Total Closed Length (mm)	O.D. of Coil (mm)	kg
4	2.5	R1/8	1470U04 03 10	1470U04 04 10	1470U04 05 10	595	24	0.060
6	4	R1/4	1470U06 03 13	1470U06 04 13	1470U06 05 13	630	32	0.060
8	5	R1/4	1470U08 03 13	1470U08 04 13	1470U08 05 13	780	42	0.120
10	7	R1/4	1470U10 03 13	1470U10 04 13	1470U10 05 13	780	62	0.160
12	8	R3/8	1470U12 03 17	1470U12 04 17	1470U12 05 17	780	65	0.190

Length of long straight section, O.D. < 8 mm: 300 mm; Length of long straight section, O.D. ≥ 8 mm: 500 mm; Length of short straight section, for all O.D.: 100 mm

1471U




Polyurethane (PU) Ester Recoil Tubing 4 m, Male BSPT Fitting

Ø ext. (mm)	Ø int. (mm)	BSPT Thread				Total Closed Length (mm)	O.D. of Coil (mm)	kg
4	2.5	R1/8	1471U04 03 10	1471U04 04 10	1471U04 05 10	785	24	0.100
6	4	R1/4	1471U06 03 13	1471U06 04 13	1471U06 05 13	850	32	0.160
8	5	R1/4	1471U08 03 13	1471U08 04 13	1471U08 05 13	1000	42	0.200
10	7	R1/4	1471U10 03 13	1471U10 04 13	1471U10 05 13	1000	62	0.230
12	8	R3/8	1471U12 03 17	1471U12 04 17	1471U12 05 17	1140	65	0.260

Length of long straight section, O.D. < 8 mm: 300 mm; Length of long straight section, O.D. ≥ 8 mm: 500 mm; Length of short straight section, for all O.D.: 100 mm

1472U


Polyurethane (PU) Ester Recoil Tubing 6 m, Male BSPT Fitting

Ø ext. (mm)	Ø int. (mm)	BSPT Thread				Total Closed Length (mm)	O.D. of Coil (mm)	kg
8	5	R1/4	1472U08 03 13	1472U08 04 13	1472U08 05 13	1230	42	0.280
10	7	R1/4	1472U10 03 13	1472U10 04 13	1472U10 05 13	1140	62	0.295
12	8	R3/8	1472U12 03 17	1472U12 04 17	1472U12 05 17	1190	65	0.310

Length of long straight section, O.D. < 8 mm: 300 mm; Length of long straight section, O.D. ≥ 8 mm: 500 mm; Length of short straight section, for all O.D.: 100 mm

1460U


Polyurethane (PU) Ester Recoil Tubing 2 m

Ø ext. (mm)	Ø int. (mm)		Total Closed Length (mm)	O.D. of Coil (mm)	kg
8	5	1460U08 04	720	42	0.064
10	7	1460U10 04	720	62	0.122
12	8	1460U12 04	720	65	0.172

Length of long straight section, O.D. < 8 mm: 300 mm; Length of long straight section, O.D. ≥ 8 mm: 500 mm; Length of short straight section, for all O.D.: 100 mm

1461U


Polyurethane (PU) Ester Recoil Tubing 4 m

Ø ext. (mm)	Ø int. (mm)		Total Closed Length (mm)	O.D. of Coil (mm)	kg
8	5	1461U08 04	940	42	0.128
10	7	1461U10 04	940	62	0.244
12	8	1461U12 04	940	65	0.344

Length of long straight section, O.D. < 8 mm: 300 mm; Length of long straight section, O.D. ≥ 8 mm: 500 mm; Length of short straight section, for all O.D.: 100 mm

1462U


Polyurethane (PU) Ester Recoil Tubing 6 m

Ø ext. (mm)	Ø int. (mm)		Total Closed Length (mm)	O.D. of Coil (mm)	kg
8	5	1462U08 04	1260	42	0.192
10	7	1462U10 04	1260	62	1.246
12	8	1462U12 04	1260	65	0.280

Length of long straight section, O.D. < 8 mm: 300 mm; Length of long straight section, O.D. ≥ 8 mm: 500 mm; Length of short straight section, for all O.D.: 100 mm

PU Recoil Tubing

1445U..R Recoil Polyurethane (PU) Ether Tubing 3 m, Male BSPP Fitting

Ø ext. (mm)	Ø int. (mm)	BSPP Thread		Total Closed Length (mm)	O.D. of Coil (mm)	kg
8	5	G1/4	1445U08R04 13	819	40	0.170
3/8"	1/4"	G1/4	1445U60R04 13	769	60	0.230
12	8	G3/8	1445U12R04 17	789	80	0.310
19/32"	3/8"	G3/8	1445U14R04 17	759	110	0.460


1441U..R Recoil Polyurethane (PU) Ether Tubing 4 m, Male BSPP Fitting

Ø ext. (mm)	Ø int. (mm)	BSPP Thread		Total Closed Length (mm)	O.D. of Coil (mm)	kg
8	5	G1/4	1441U08R04 13	889	40	0.220
3/8"	1/4"	G1/4	1441U60R04 13	819	60	0.260
12	8	G3/8	1441U12R04 17	849	80	0.400
19/32"	3/8"	G3/8	1441U14R04 17	809	110	0.554

1442U..R Recoil Polyurethane (PU) Ether Tubing 6 m, Male BSPP Fitting

Ø ext. (mm)	Ø int. (mm)	BSPP Thread		Total Closed Length (mm)	O.D. of Coil (mm)	kg
8	5	G1/4	1442U08R04 13	1029	40	0.340
3/8"	1/4"	G1/4	1442U60R04 13	929	60	0.360
12	8	G3/8	1442U12R04 17	969	80	0.530
19/32"	3/8"	G3/8	1442U14R04 17	909	110	0.920

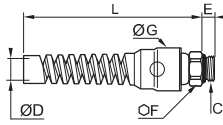
1447U..R Recoil Polyurethane (PU) Ether Tubing 7.5 m, Male BSPP Fitting


Ø ext. (mm)	Ø int. (mm)	BSPP Thread		Total Closed Length (mm)	O.D. of Coil (mm)	kg
8	5	G1/4	1447U08R04 13	1134	40	0.420
3/8"	1/4"	G1/4	1447U60R04 13	1009	60	0.460
12	8	G3/8	1447U12R04 17	1059	80	0.600
19/32"	3/8"	G3/8	1447U14R04 17	984	110	1.150

Accessories

0694 Push-In Fitting with Protection Spring, Male BSPP Thread

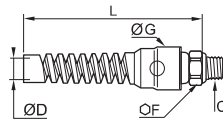
Nickel-plated brass, NBR




ØD	C		E	F	G	L	kg
8	G1/4	0694 08 13	6.5	16	24	104.5	0.067
10	G1/4	0694 10 13	6.5	18	24	106.5	0.062
12	G3/8	0694 12 17	7.5	20	29.5	126	0.080

0695 Push-In Fitting with Protection Spring, Male BSPT Thread

Nickel-plated brass, NBR



ØD	C		F	G	L	kg
8	R1/4	0695 08 13	14	24	104.5	0.055
10	R1/4	0695 10 13	18	24	106.5	0.064
12	R3/8	0695 12 17	20	29.5	126	0.090

Braided PU Recoil Hose

This recoil hose offers all the advantages of polyurethane, combining the **durability** and **kink resistance** of bulkier braided hoses with great **elasticity** and maximum **flexibility**.

Product Advantages

Excellent Mechanical Properties

Unsurpassed resistance to abrasion: 10 times better than rubber, polyamide and non-braided polyurethane
 Excellent flexibility and coil memory: minimizes work fatigue
 Highly kink and crush-resistant
 Silicone-free

Ready-to-Use

Pre-assembled threaded fittings
 Tube ends protected with a plastic spring
 Lightweight for easy handling
 3 lengths available
 Translucent blue: visibility of the fluid



Machine Tools
 Industrial Assembly
 Pneumatics
 In-Plant Automotive
 Workshops

Applications

Technical Characteristics

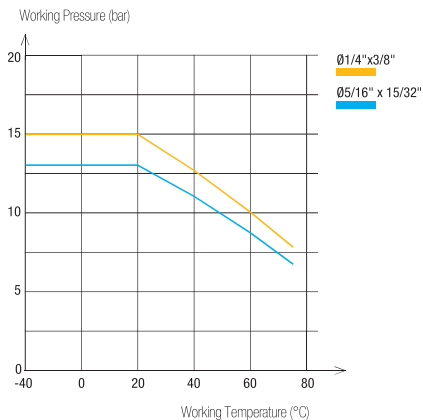
Compatible Fluids	Compressed air Other fluids: please consult us
Working Pressure	0 to 15 bar
Working Temperature	-40°C to +75°C
Component Materials	Polyurethane (85 shore A)

Regulations

DI: 97/23/EC (PED)
 RG: 1907/2006 (REACH)
 DI: 2002/95/EC (RoHS), 2011/65/EC

Reliable performance is dependent upon the type of fluid conveyed and fittings being used.

Performance of Braided PU Recoil Hose



Hose O.D.	Hose I.D.	Hose I.D. Tolerance
3/8" 15/32"	1/4" 5/16"	+/- 0.005"


Connected to Parker Legris push-in fittings, the calibration of PU tubing ensures perfect sealing.

Packaging


Plastic bags: 3 m to 7.5 m

To calculate burst pressure, the values in this graph should be multiplied by 4.


1445U..E Recoil Braided Polyurethane (PU) tubing 3 m, Male BSPP Fitting

Ø ext. (mm)	Ø int. (mm)	BSPP Thread		Total Closed Length (mm)	O.D. of Coil (mm)	kg
3/8"	1/4"	G1/4	1445U60E04 13	870	42	0.210
12	8	G3/8	1445U12E04 17	880	55	0.300

1442U..E Recoil Braided Polyurethane (PU) tubing 6 m, Male BSPP Fitting

Ø ext. (mm)	Ø int. (mm)	BSPP Thread		Total Closed Length (mm)	O.D. of Coil (mm)	kg
3/8"	1/4"	G1/4	1442U60E04 13	1140	42	0.420
12	8	G3/8	1442U12E04 17	1160	55	0.600

1447U..E Recoil Braided Polyurethane (PU) tubing 7.5 m, Male BSPP Fitting

Ø ext. (mm)	Ø int. (mm)	BSPP Thread		Total Closed Length (mm)	O.D. of Coil (mm)	kg
3/8"	1/4"	G1/4	1447U60E04 13	1275	42	0.525
12	8	G3/8	1447U12E04 17	1300	55	0.750

Related Products

Parker Legris recoil tubing is designed for use with Parker Legris blowguns and couplers.

Industrial Blowguns

Polymer P. 7-3

Metal P. 7-12



Couplers

C 9000 P. 8-7

Metal P.8-18



PVC Braided Hose

Parker Legris offers two **grades of PVC** which cover a wide range of industrial applications for the **transportation of various fluids**.

Product Advantages

Food-Grade PVC Monograde tubing reinforced with a braided polyester ply
Flexible: space saving during installation
Translucent for visual identification:

- of the fluid
- of inner cleanliness
- of fluid flow

Food-grade, without phtalates
Silicone-free

Industrial PVC Tubing with a braided polyester ply between 2 grades of PVC
Resistant to abrasion, impact and crushing
Increased durability
Lightweight and easy-to-use
Silicone-free



Applications

- Robotics
- In-Plant Automotive
- Pneumatics
- Semi-Conductors
- Textile
- Packaging
- Vacuum

Technical Characteristics

Hose	Food-Grade PVC	Industrial PVC
Compatible Fluids	Compressed air, other fluids	Compressed air
Working Pressure	0 to 15 bar	0 to 15 bar
Working Temperature	-20°C to +70°C	-25°C to +60°C
Component Materials	Translucent food-grade PVC, phtalate-free with polyester braid	Industrial blue PVC, multi-layer, with polyester braid

Regulations

Food-Grade PVC

FDA: 21 CFR 177.1550
RG: 1907/2006 (REACH)
RG: 1935/2004
DI: 2002/95/EC (RoHS), 2011/65/EC
DI: 2007/10/EC (phtalates)

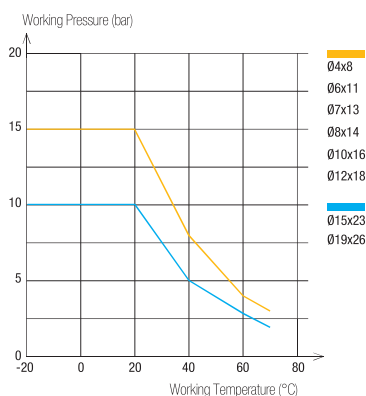
Industrial PVC

DI: 97/23/CE (PED)
RG: 1907/2006 (REACH)
DI: 2002/95/EC (RoHS), 2011/65/EC

Reliable performance is dependent upon the type of fluid conveyed and fittings being used.

Hose Performance

Food-Grade PVC



Hose Type	Hose I.D.	Hose I.D. Tolerance
Food-Grade PVC	4 to 6 mm	+0.5 / -0.5
	7 to 12 mm	+0.6 / -0.6
	15 to 19 mm	+0.8 / -0.8
Industrial PVC	6.3 mm	+0.3 / -0.3
	9 mm	+0.5 / -0.5
	12.7 mm	+0.6 / -0.6

Packaging




Reel: 25 m, 50 m
(with protective plastic bag)

To calculate burst pressure, the values in these graphs should be multiplied by 3.
The performances of the industrial PVC grade are available upon request.

1025V

Food-Grade Braided PVC Hose




Reel 25 m

Ø ext. (mm)	Ø int. (mm)		  clear	kg
8	4	10	1025V08 00 04	1.260
11	6	12	1025V11 00 06	2.253
13	7	14	1025V13 00 07	3.182
14	8	16	1025V14 00 08	3.434
16	10	25	1025V16 00 10	3.800
18	12	30	1025V18 00 12	4.423
23	15	40	1025V23 00 15	7.300
26	19	60	1025V26 00 19	7.300

1050V

Food-Grade Braided PVC Hose



Reel 50 m

Ø ext. (mm)	Ø int. (mm)		  clear	kg
8	4	10	1050V08 00 04	2.690
11	6	12	1050V11 00 06	4.200
13	7	14	1050V13 00 07	5.966
14	8	16	1050V14 00 08	6.058
16	10	25	1050V16 00 10	6.400
18	12	30	1050V18 00 12	8.250
23	15	40	1050V23 00 15	14.600
26	19	60	1050V26 00 19	14.600

1025V..C

Industrial-Grade Braided PVC Hose



Reel 25 m

Ø ext. (mm)	Ø int. (mm)			kg
11	6.3	45	1025V11C04 06	2.175
14	9	63	1025V14C04 09	3.250
19	12.7	89	1025V19C04 13	4.975

1050V..C

Industrial-Grade Braided PVC Hose

Reel 50 m

Ø ext. (mm)	Ø int. (mm)			kg
11	6.3	45	1050V11C04 06	4.350
14	9	63	1050V14C04 09	6.500
19	12.7	89	1050V19C04 13	9.950

Related Products

PVC tubing is designed for use with Parker Legris barb connectors and couplers.

Couplers
C 9000 P. 8-7

Metal P. 8-18

Barb Connectors
0191 P. 9-16

0123 P. 9-10


Self-Fastening NBR Hose

Parker Legris self-fastening hose is designed according to **CNOMO E07.21.115N***. This range of hose should be used with Legris barb connectors and provides both the **reliability** of self-fastening technology and **simplicity of installation**.

Product Advantages

Exceptional Endurance | Unsurpassed resistance to repetitive flexing
Protection against spark and flame
Abrasion and crush-resistant
UV-resistant

Ideal for In-Plant Automotive | Excellent ozone resistance
Perfect for cooling systems
Maximum flow with no pressure drop
4 colours for immediate circuit identification
Silicone-free

Ready-To-Use | No lubrication, additive (grease, oil, ...etc), or preparation time required
To connect: push the hose fully home against the fitting shoulder
To disassemble: cut the hose on the barbed side of the fitting



In-Plant Automotive
Cooling
Welding Robots
Pneumatics
Industrial Machinery

Applications

Technical Characteristics

Compatible Fluids	Coolants, compressed air
Working Pressure	0 to 16 bar
Working Temperature	-20°C to +100°C
Component Materials	Nitrile butadiene rubber & textile braid

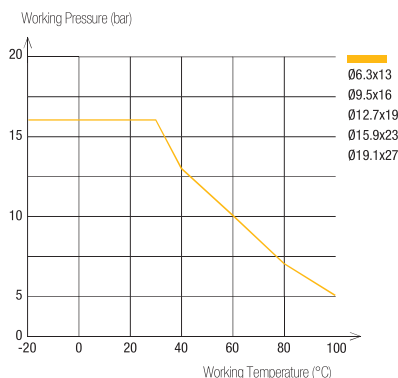
Regulations

NFT 46-019-1
NFT 47 252
RG: 1907/2006 (REACH)
DI: 2002/95/EC (RoHS), 2011/65/EC
CNOMO: E07.21.115N

*CAUTION: CNOMO certification is valid exclusively for red and green hose, only when connected to Legris' CNOMO-certified barb connectors 0132, 0133 and 0134.

Reliable performance is dependent upon the type of fluid conveyed and fittings being used.

Performance of Self-Fastening NBR Hose



DN mm CNOMO	DN (standard)	Hose I.D. (mm)	Hose I.D. Tolerance (mm)
6	1/4"	6.3 mm	+0.4 / -0.4
8	3/8"	9.5 mm	+0.5 / -0.5
12	1/2"	12.7 mm	+0.6 / -0.6
16	5/8"	15.9 mm	
20	3/4"	19.1 mm	

Packaging

Drum: 40 m, 80 m, 100 m






Use with water: maximum temperature 100°C
Use with air: maximum temperature 70°C

To calculate burst pressure, the values in this graph should be multiplied by 3.

1040H

Braided Self-Fastening NBR Hose

Drum 40 m






DN	Ø ext. (mm)	Ø int. (mm)						kg
1/4	13	6.3	60	1040H56 01	1040H56 02	1040H56 03	1040H56 04	7.000
3/8	16	9.5	70	1040H60 01	1040H60 02	1040H60 03	1040H60 04	8.600
1/2	19	12.7	120	1040H62 01	1040H62 02	1040H62 03	1040H62 04	9.450
5/8	23	15.9	140	1040H66 01	1040H66 02	1040H66 03	1040H66 04	13.000
3/4	27	19.1	170	1040H69 01	1040H69 02	1040H69 03	1040H69 04	16.500

Also available in 20 m length upon request

1080H

Braided Self-Fastening NBR Hose

Drum 80 m






DN	Ø ext. (mm)	Ø int. (mm)						kg
5/8	23	15.9	140	1080H66 01	1080H66 02	1080H66 03	1080H66 04	26.160
3/4	27	19.1	170	1080H69 01	1080H69 02	1080H69 03	1080H69 04	33.160

Also available in 20 m length upon request

1100H

Braided Self-Fastening NBR Hose

Drum 100 m

DN	Ø ext. (mm)	Ø int. (mm)						kg
1/4	13	6.3	60	1100H56 01	1100H56 02	1100H56 03	1100H56 04	14.660
3/8	16	9.5	70	1100H60 01	1100H60 02	1100H60 03	1100H60 04	20.600
1/2	19	12.7	120	1100H62 01	1100H62 02	1100H62 03	1100H62 04	23.000

Also available in 20 m length upon request

Related Products

Self-fastening hose is designed for use with Parker Legris brass barb connectors (CNOMO-certified).

Barb Connectors

0132

P. 5-25



0133 .. 39

P. 5-25



0134

P. 5-25



Installation Tool

Tool Part Number:
0650 00 00 05

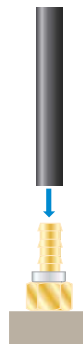
This automatic installation tool reduces the effort required to connect self-fastening hose onto a barb connector.



Tube Cutting and Positioning

Cut the tube at a right angle and position the barb connector on the mounting tool.

Barb connector support



Press-Fitting the Tube

Activate the press-fit tool; connection is complete when the tube is fully home on the barb connector. This tool has been designed for use with 5 different diameters and is easy to operate.

Barb connector support



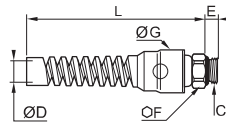
Calibrated Braided Hose




Technical Tubing and Hose

Accessories

0694 Push-In Fitting with Protection Spring, Male BSPP Thread

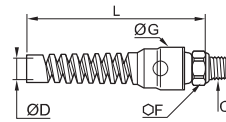
Nickel-plated brass, NBR






ØD	C		E	F	G	L	kg
8	G1/4		6.5	16	24	104.5	0.067
10	G1/4		6.5	18	24	106.5	0.062
12	G3/8		7.5	20	29.5	126	0.080

0695 Push-In Fitting with Protection Spring, Male BSPT Thread

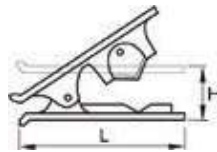
Nickel-plated brass, NBR



ØD	C		F	G	L	kg
8	R1/4		14	24	104.5	0.055
10	R1/4		18	24	106.5	0.064
12	R3/8		20	29.5	126	0.090

3000 71 00 Tube Cutter

Technical polymer



	H	L	kg
			
3000 71 00	25	79	0.029

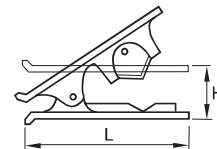
This tool is designed to give a clean cut at right angles to the tube axis for all resilient polymer tubing (polyamide, polyurethane, FEP, polyethylene, etc.) from 4 mm to 12 mm diameter inclusive.

Replacement blades: part number 3000 71 00 05

A spring maintains the cutter in the closed position.

3000 71 11 Tube Cutter

Treated steel



		kg
		
3000 71 11		0.020

Replacement blades: part number 3000 71 11 05

6000 71 00 Stripping Tool for Anti-Spark Tubing

Technical polymer, stainless steel



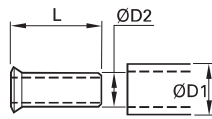
	kg
	
6000 71 00	0.098

Working principle of the stripping tool page 3-17

Accessories

1827 Stainless Steel Tube Support for Fluoropolymer Tubing

Stainless steel 316L

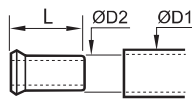



ØD1	ØD2		L	kg
6	4		1827 06 00	11.5 0.001
8	6		1827 08 00	14 0.001
10	8		1827 10 00	18 0.001
12	9		1827 12 09	18 0.001
	10		1827 12 00	18 0.001
16	14		1827 16 00	18 0.002

This tube support is necessary when using fluoropolymer tubing at all temperatures compatible with the fitting/tubing assembly.

0127 Brass Tube Support for Polymer Tubing

Brass

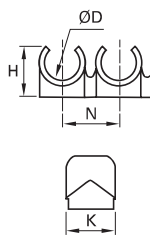



ØD1	ØD2		L	kg
4	2		0127 04 00	11 0.001
	2.7		0127 04 27	11 0.001
5	3		0127 05 03	11 0.001
	3.3		0127 05 00	11.5 0.009
6	4		0127 06 00	11.5 0.001
8	5.5		0127 08 55	14 0.001
	6		0127 08 00	14 0.001
10	7		0127 10 07	18 0.001
	7.5		0127 10 75	18 0.001
	8		0127 10 00	18 0.002
	8		0127 12 08	18 0.002
12	9		0127 12 09	18 0.002
	10		0127 12 00	18 0.001
14	11		0127 14 11	18 0.002
	12		0127 14 00	18 0.002
15	12		0127 15 12	18 0.002
16	13		0127 16 13	18 0.003
18	14		0127 18 14	19.5 0.003
20	15		0127 20 15	20.5 0.003
22	16		0127 22 16	21 0.004
25	19		0127 25 19	25 0.007

This tube support guarantees good gripping, at high temperatures and pressures, by preventing collapsing of the tube.

CLIP Clip Strip for Tubes and Fittings

Technical polymer

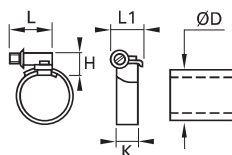



ØD		Number of Outlets	H	K	N	kg
4		8	9	13.5	10.5	0.007
6		8	10.5	13	10.5	0.008
8		7	12.5	10.5	12	0.007
10		6	14	12	15	0.005
12		5	16.5	14	16.5	0.009
14		4	18	16	20.5	0.009

Delivered in boxes of 10 strips of the same diameter (complete with self-tapping screws of 95 mm length) These clips can be used with metric or inch tubing.

0697 Clip for Braided Tubing

Treated steel



ØD		H	K	L	L1	kg
6-11		7	5	12	7	0.004
10-16		12	9	21	13	0.012
12-22		12	9	21	13	0.014
16-27		12	9	24	13	0.015
20-32		12	9	24	13	0.016

Chemical Compatibility Chart

Recommended	1	Not Recommended	3
Satisfactory	2	Not Available	-

Substances	PA	PU Ether	PU Ester	Low Density PE	Advanced PE	FEP/PFA
Acetaldehyde	1	-	-	3	-	1
Acetone	1	3	1	3	-	1
Acid, chromic up to 10%	-	3	3	1 (50%)	-	1
Acid, citric	3	-	-	1	1 up to 60°C	1
Acid, formic up to 10%	-	2	3	1	1 at 25% at 20°C	1
Acid, hydrochloric up to 10%	1	1	3	1	1 at 20°C	1
Acid, phosphoric up to 50%	3	2	3	1	2 at 20°C	1
Acid, sulphuric up to 10%	3	1	3	1	1	1
Acid, acetic	2 at 10%	1	3	1 (50%)	1 (50%)	1
Acid, nitric	3	3	3	1 (40%); 3(>40%)	-	1
Ammonia and gaseous	1	1	3	2	1	1
Ammonium chloride up to 10%	-	1	1	1	1	1
Benzene	1	3	3	3	3	1
Bromine	3	-	-	3	3	1
Butane	1	1	1	1 (20°C)	1	1
Butyl acetate	1	3	2	-	-	1
Butylic and butyl alcohol	-	-	-	1 (20°C)	1	1
Calcium chloride	-	1 (10% & 40%)	2 (10% & 40%)	1	1	1
Carbon tetrachloride (sodium hypochlorite)	2	3	2	1 (30%)	3	1
Chloroform	3	3	3	3	-	1
Compressed air	1	1	1	1	1	1
Cyclohexanone	1	3	3	3	-	1
Ethanol	1	2	2	3	-	1
Ethyl acetate	1	2	2	2 (20°C)	2 (23°C); 3 (85°C)	1
Ethyl alcohol	-	-	-	3	1 (23°C); 3 (85°C)	1
Ethylene oxide	1	-	-	-	-	1
Formalin (formaldehyde)	2	-	-	1 (40%)	-	1
Freon 12-22	1	2	2	-	-	1
Glucose	1	-	-	-	1	1
Glycol (without H ₂ O)	-	1	1	-	-	1
Hydrogen	1	-	-	1	1	1
Hydrogen peroxide (perydrol)	3	2	2	1 (10%)	1	1
Kerosene	1	1	1	-	3	1
Magnesium chloride (up to 30%)	1	1	2	1	1	1
Methane	1	1	1	-	-	1
Methanol	1	2	3	-	-	1
Methyl acetate	-	2	2	-	-	1
Methyl alcohol (pure)	-	-	-	-	2	1

Chemical Compatibility Chart

Substances	PA	PU Ether	PU Ester	Low Density PE	Advanced PE	FEP/PFA
Methyl chloride	2	3	2	-	-	1
Methyl ethyl ketone	1	3	3	3	-	1
Oils (paraffin)	-	1	1	-	-	1
Oils, engine (diesel)	1	2	1	-	-	1
Oxygen	1	-	1	1 (20°C)	-	1
Ozone	3	2 or 1	1	3	3	1
Perchlorate ethylene	1	3	3	-	-	1
Petrol, with up to 40% aromatics	1	-	2	-	-	1
Petrol, with more than 40% aromatics	1	-	3	-	-	1
Phenols	3	-	3	3	-	1
Potash	-	-	3	1	-	1
Potassium chloride up to 40%	1	1	2	1	-	1
Potassium hydroxide	1 (50%)	1 (3n)	2	1	1	1
Potassium manganate 5%	-	3	2	-	-	1
Potassium sulphate	1	-	-	1	1	1
Propane	1	1	1	-	-	1
Sodium carbonate	1	-	-	1	1	1
Sodium chloride	1 (50%)	1	2	1	-	1
Sodium hydroxide (caustic soda)	1 (60%)	-	-	1	1	1
Sodium hypochlorite (bleach)	1	2	3	1 (30%)	-	1
Tetrachloroethylene	1	2	2	-	-	1
Toluene	1	2	2	3	3	1
Tributylphosphate	1	-	-	-	-	1
Trichlorethylene	1	3	3	3	-	1
Water (distilled, deionised)	-	1	1	-	-	1
Water (drinking, food)	-	-	-	-	1	1
Water (industrial)	1	-	-	-	1	1
Water (sea)	-	-	-	-	-	1
Xylem	-	2	2	-	-	1
Zinc chloride	1 (10%)	-	-	1	-	1

For other fluids, concentrations or special implementation, please contact us.

Function Fittings

Flow Control Regulators

Piloted Function Fittings

Non-Return Valves

LIQUIfit®

Pressure Fittings

Other Function Fittings

Silencers



Function Fittings

Flow Control Regulators

[P. 4-6]



Function: controls the speed of the cylinder rod

Materials: polymer, metal, stainless steel

Pressure: 10 bar

Temperature: 0°C to +70°C
-25°C to +70°C (metal version)

Ø metric: 3 mm to 18 mm

Threads: BSPP, BSPT, metric

Blocking Fittings

[P. 4-36]



Function: provides safety by locking the cylinder piston

Materials: nickel-plated brass, polymer

Pressure: 10 bar

Temperature: -20°C to +70°C

Ø metric: 6 mm to 12 mm

Threads: BSPP, BSPT

Piloted Non-Return Valves

[P. 4-38]



Function: provides safety by locking the cylinder piston

Materials: nickel-plated brass, polymer

Pressure: 10 bar

Temperature: -5°C to +60°C

Ø metric: 6 mm to 12 mm

Threads: BSPP

Non-Return Valves

[P. 4-40]



Function: allows air to pass in one direction only

Materials: polymer, nickel-plated brass

Pressure: 10 bar

Temperature: 0°C to +70°C

Ø metric: 4 mm to 12 mm

Threads: BSPP, BSPT, metric

Adjustable Non-Return Valves

[P. 4-42]



Function: allows air to pass in one direction with an adjustable opening pressure

Materials: FDA chemical nickel-plated brass

Pressure: 12 bar

Temperature: -20°C to +80°C

Threads: BSPP, metric

LIQUIFIT® Non-Return Valves

[P. 4-44]



Function: allows fluid to pass in one direction only

Materials: polymer for food applications

Pressure: 10 bar

Temperature: 0°C to +65°C

Ø inch: 1/4" to 1/2"

Stainless Steel Non-Return Valves

[P. 4-46]



Function: allows fluid to pass in one direction only

Materials: stainless steel

Pressure: 0.5 to 40 bar

Temperature: -20°C to +180°C

DN : 10 mm to 25 mm

Threads: BSPP, NPT

Soft Start Fittings

[P. 4-48]



Function: protects the installation at start-up

Materials: polymer, nickel-plated brass

Pressure: 3 to 10 bar

Temperature: -15°C to +60°C

Ø metric : 8 mm to 12 mm

Threads: BSPP

Pneumatic Sensor Fittings

[P. 4-50]



Function: pneumatic or electric output signal, detects end of cylinder rod stroke

Materials: polymer, treated metal

Pressure: 3 to 8 bar

Temperature: -15°C to +60°C

Ø metric: 4 mm

Threads: BSPP, metric

Function Fittings

Pressure Regulators (P. 4-52)



Function: stabilise the maximum pressure delivered to pneumatic equipment

Materials: polymer, treated metal

Pressure: 16 bar (upstream), 8 bar (downstream)

Temperature: -10°C to +70°C

Ø metric: 4 mm to 10 mm

Threads: BSPP

Pressure Reducers (P. 4-54)



Function: set the maximum pressure delivered to pneumatic equipment

Materials: polymer, treated metal

Pressure: 8 bar

Temperature: -15°C to +60°C

Ø metric: 6 mm to 10 mm

Threads: BSPP

Snap Connectors (P. 4-56)



Function: isolates a circuit without venting the whole system

Materials: polymer, nickel-plated brass

Pressure: 10 bar

Temperature: -20°C to +80°C

DN : 5 mm to 7 mm

Threads: BSPP

Manually-Operated Valves

(P. 4-58)



Function: opens/closes a circuit, with or without venting

Materials: polymer, nickel-plated brass, aluminium

Pressure: 10 bar, 16 bar (0669)

Temperature: -10°C to +80°C, -5°C to +70°C (0669)

Ø metric: 4 mm to 10 mm

Threads: BSPP, metric

Metal Quick Exhaust Valves

(P. 4-60)



Function: increases the return speed of the cylinder

Materials: nickel-plated brass, aluminium, stainless steel

Pressure: 10 bar

Temperature: -20°C to +70°C

Threads: BSPP, BSPT, metric

Silencers

(P. 4-62)



Function: reduces noise levels

Materials: sintered bronze, polyethylene, stainless steel, nickel-plated brass

Pressure: 12 bar

Temperature: -20°C to +180°C

Ø metric: 4 mm to 12 mm

Threads: BSPP, metric, NPT