

PU Tubing



The PU tubing is available in 3 grades of ether, ester and crystal ether. Flexible with a small bend radius, it saves 50% of space for networks, compared to the semi-rigid PA.

Ø metric:
3 to 16 mm

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)

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

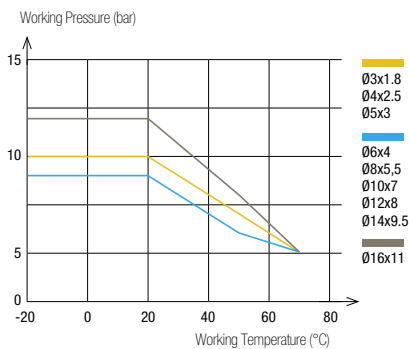
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|-------------|--------------------------------------|
| Industrial: | Food (PU ether food-grade "crystal") |
| • RoHS | • FDA |
| • PED | • 1935/2004 |
| • REACH | |

Advantages

3 material grades

- PU ester: standard pneumatic applications
- PU ether: suitable for hydrolysis; increased chemical resistance compared to PU ester
- PU ether crystal food grade: increased chemical resistance compared to PU ether
- Mechanical properties: flexible, small bending radius, vibration absorption, UV resistant

Performance



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 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, 1000 m

1025U Polyurethane (PU) Ester Tubing

Tubepack® 25 m

ØD ext.	ØD int.	R							Kg
3	1.8	8	1025U03 01 18						0.131
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	35	1025U10 01	1025U10 02		1025U10 04	1025U10 05	1025U10 06	1.210
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

ØD ext.	ØD int.	R							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	3.200
10	7	35	1100U10 01			1100U10 04			5.200
12	8	35	1100U12 01			1100U12 04			7.464
14	9.5	45	1100U14 01 95			1100U14 04 95			10.264
16	11	45	1100U16 01 11			1100U16 04 11			12.676

Inch tubing available upon request

2003U Polyurethane (PU) Ester Tubing

Drum 300 m

ØD ext.	ØD int.							Kg
10	7	35	2003U10 01		2003U10 03	2003U10 04	2003U10 06	16.600

2005U Polyurethane (PU) Ester Tubing

Drum 500 m

ØD ext.	ØD int.							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

ØD ext.	ØD int.								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

ØD ext.	ØD int.									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		1025U14R04 95						2.421
16	11	45			1025U16R08 11					2.815

1100U ..R Polyurethane (PU) Ether Tubing

Tubepack® 100 m

ØD ext.	ØD int.									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	1100U12R08					8.610
14	9.5	45			1100U14R08 95					10.000
16	11	45			1100U16R08 11					12.176

2003U..R Polyurethane (PU) Ether Tubing

Drum 300 m

ØD ext.	ØD int.					Kg
10	7	25	2003U10R01	2003U10R04	2003U10R08	16.600

2005U..R Polyurethane (PU) Ether Tubing

Drum 500 m

ØD ext.	ØD int.					Kg
8	5.5	20	2005U08R01	2005U08R04	2005U08R08	15.600

2010U..R Polyurethane (PU) Ether Tubing

Drum 1000 m

ØD ext.	ØD int.					Kg
4	2.5	12			2010U04R08	8.868
6	4	15	2010U06R01	2010U06R04	2010U06R08	18.600

Anti-Spark PU Tubing



The anti-spark PU tubing is available in 2 versions, mainly for welding applications : PU ether single layer or PVC coated, spark resistant, without compromising flexibility.

Ø metric:
6 to 12 mm

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 additive (50 shore D)

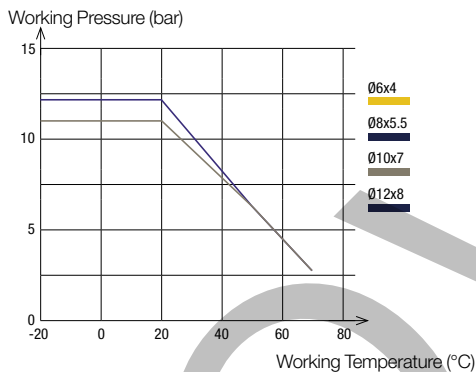
Reliable performance is dependent upon the type of fluid conveyed and fittings being used. Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

Performance

Tube O.D.	Tube O.D. Tolerance	Thickness and Tolerances of PVC Sheath
6 to 8 mm	+0.10/-0.10	1mm +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 (inner tubing for sheathed or single layer tubing).

Anti-Spark PU Tubing, with PVC Sheath



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

Advantages

Single-layer PU:

- Flexible for an optimized bending radius
- Flexible for a long service life at high speeds

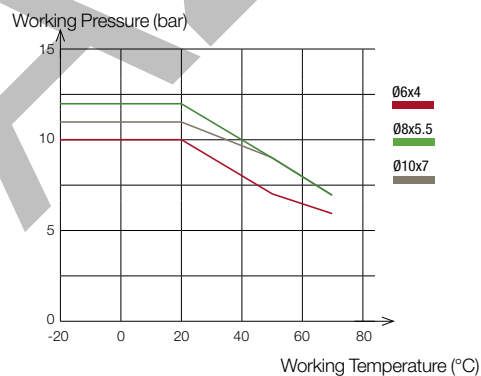
PVC coated PU:

- Self-extinguishing PVC sheath to protect the inner tube
- Resistant to torsion, crushing

Regulations

- UL94 (fire resistance)
- RoHS
- REACH

Anti-Spark PU Tubing, Single Layer



1025U..V Anti-Spark Sheath Polyurethane (PU) Ether Tubing

Tubepack® 25 m

ØD ext.	ØD int.	ØD int.					Kg
6	4	12					1.200
8	5.5	20	1025U06V01	1025U08V01	1025U10V01	1025U12V01	1.620
10	7	25	1025U06V03	1025U08V03	1025U10V03	1025U12V03	2.900
12	8	35	1025U08V04	1025U10V04			4.030






1100U..V Anti-Spark Sheath Polyurethane (PU) Ether Tubing

Tubepack® 100 m

ØD ext.	ØD int.	ØD int.				Kg
6	4	12				5.370
8	5.5	20	1100U06V01	1100U08V02		7.626
10	7	25	1100U08V01			10.864






1025U..K Single Layer Anti-Spark Polyurethane (PU) Ether Tubing

Tubepack® 25 m

ØD ext.	ØD int.						Kg
6	4	15	1025U06K01	1025U06K02	1025U06K03	1025U06K04	0.580
8	5.5	20	1025U08K01	1025U08K02	1025U08K03	1025U08K04	0.860
10	7	25	1025U10K01	1025U10K02	1025U10K03	1025U10K04	1.230

1100U..K Single Layer Anti-Spark Polyurethane (PU) Ether Tubing

Tubepack® 100 m

ØD ext.	ØD int.						Kg
6	4	15	1100U06K01	1100U06K02	1100U06K03	1100U06K04	2.320
8	5.5	20	1100U08K01	1100U08K02	1100U08K03	1100U08K04	3.030
10	7	25	1100U10K01	1100U10K02	1100U10K03	1100U10K04	5.100

6000 71 00 Stripping Tool for Anti-Spark Tubing

Technical polymer, stainless steel



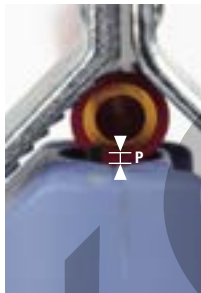
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Kg

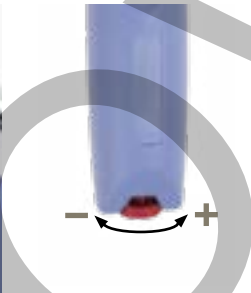
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Working Principle

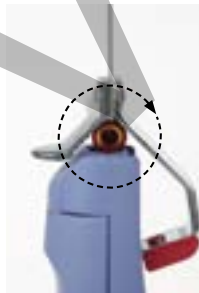
Stripping Tool 6000 71 00



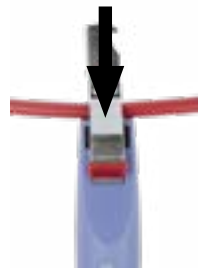
1. Place tube in stripping tool to adjust the blade height to the tube thickness.



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.