

TBL

Pharm-A-Line I™

Chemically Resistant Precision Pump Tubing

Multiple Autoclave Cycles
Lot and Batch Tractable
Superior Pump Life
Low Particulate
USP Class VI



Superior Performance in Peristaltic Pump Applications

Manufactured from virgin, medical grade TPE and homogeneously extruded to precise dimensional tolerances, our Pharm-A-Line I tubing was specifically developed to provide superior performance in peristaltic pump applications. Pharm-A-Line I provides an excellent alternative to silicone tubing when resistance to chemicals (such as acetone or methylene chloride) is a concern. Prior to release, we rigorously test each batch of resin for cytotoxicity and heavy metals.

Pharm-A-Line I meets today's most stringent cytotoxicity and extractability requirements for critical pharmaceutical process applications. It is recommended for most biological process fluids. Pharm-A-Line I is also ideal for liquid coupler connections between process tanks and fluidized bed process equipment. Other applications include sterile solutions, buffer agents, and food and beverage processing.



Pharm-A-Line I™
Chemically Resistant Precision Pump Tubing

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TBL
Thermoplastic Biologic
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www.tblplastics.com



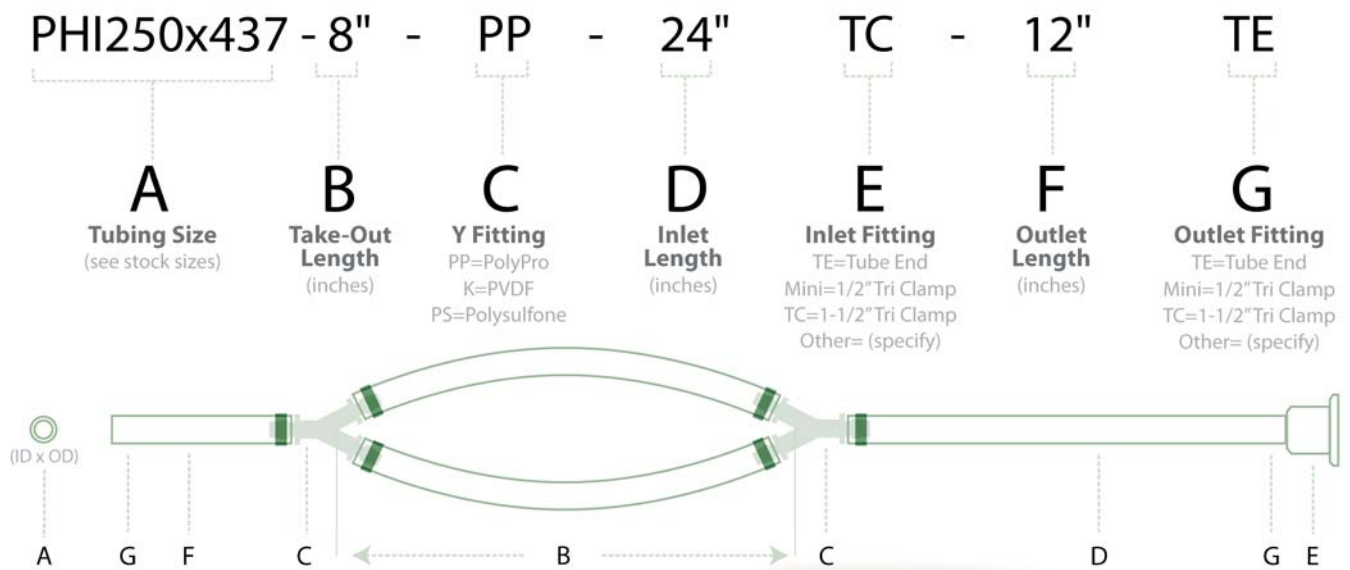
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Pump Yoke Assemblies

Specification Table

Example Part Number PHI250x437-8"-PP-24"TC-12"TE



Note: OETIKER, Series 154, Single Ear, Stainless Steel Clamps / Insert as standard.

Consult factory for custom options.

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Coils

Stock Sizes

Part Number	ID	OD	Wall	Pump Size	STD. Length	Tri Clamp
PHI-031X093	1/32"	3/32"	1/32"		200'	Mini
PHI-031X156	1/32"	5/32"	1/16"	#13	200'	Mini
PHI-062X187	1/16"	3/16"	1/16"	#14	200'	Mini, 1"
PHI-125X250	1/8"	1/4"	1/16"	#16	200'	Mini, 1"
PHI-125X312	1/8"	5/16"	3/32"		200'	Mini, 1"
PHI-187X312	3/16"	5/16"	1/16"	#03,#25	50'	Mini, 1"
PHI-187X375	3/16"	3/8"	3/32"	#15	50'	Mini, 1"
PHL-250X375	1/4"	3/8"	1/16"	#24	50'	Mini, 1"
PHI-250X437	1/4"	7/16"	3/32"	#64	50'	Mini, 1"
PHI-250X500	1/4"	1/2"	1/8"	#26	50'	Mini, 1"
PHI-312X375	5/16"	3/8"	1/32"		50'	Mini, 1"
PHI-312X437	5/16"	7/16"	1/16"	#18	50'	Mini, 1"
PHI-312X500	5/16"	1/2"	3/32"		50'	Mini, 1"
PHI-375X500	3/8"	1/2"	1/16"		50'	Mini, 1"
PHI-375X562	3/8"	9/16"	3/32"	#96	50'	Mini, 1"
PHI-375X625	3/8"	5/8"	1/8"	#73	50'	Mini, 1"
PHI-500X750	1/2"	3/4"	1/8"	#82	50'	Mini, 1"
PHI-625X812	5/8"	13/16"	3/32"		50'	Mini, 1"
PHI-625X875	5/8"	7/8"	1/8"		50'	Mini, 1"
PHI-750X1.156	3/4"	1-5/32"	1/8"		50'	1"
PHI-750X1.125	3/4"	1-1/8"	3/16"		50'	1"
PHI-1.00X1.25	1"	1-1/4"	1/8"		50'	1"

Pharm-A-Line I™
Superior Performance
Guaranteed.

Guaranteed Pump Life Over
Other TPE Materials.
Extremely Low Permeability.

Technical Data

Specific Gravity (ASTM D792)	0.970
Durometer, Shore A (5SEC.ASTM D2240)	64
Tensile Strength at Break, psi (ASME D-412)	972 psi
Tensile Elongation-Across Flow (Break, 73°F), ASTM D412, ISO 37	530%
Tensile Stress-Across Flow (100% Strain, 73°F),ASTM D412, ISO37	363 psi
Elongation, % (ASTM D-412)	37
Tensile Set (73°F) ASTM D412, ISO 2285	8%
Tear Strength-Across Flow (73°F ²) ASTM D624	137 lbf/in
Compression Set (73°F, 168 hr 4) ASTM D395B	22%
Brittle Point, (ASTM D-789)	-76°F
Low Temp. Flex at -40	Passed
Heat Resistance	275°F
Regulatory	Title 21 CFR 177.2600, USP Class VI, EU2003/11/EC (RoHs Compliant)

Santoprene®

Manufactured exclusively from
 Santoprene® MED grade material

Santoprene® is a registered trademark of
 ExxonMobil Chemical Company.

Tuf-Flex® is a registered trademark of
 Rubber Fab Technologies Group.

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Pharm-A-Line I™

Chemically Resistant Precision Pump Tubing

PHARM-A-LINE I 125 X 312 USP CLASS VI FDA 21 CFR 177.2600

Packaging

- Continuous coils, heat sealed poly film
- Pump yoke configurations
- Pre cut lengths (optional)
- Sterile Clean room packed (optional)

Applications

- Peristaltic pump tubing
- Filling Machinery
- Biological Media
- Sterile Transfer
- Buffer Solutions
- Solvents
- Food and Beverage

Benefits

- Superior pump life
- Low Particulate Spallation
- Low TOC
- Excellent chemical resistance
- Extremely Flexible
- Meets USP Class VI

Sterilization

- Ethylene oxide
- Autoclave
- Gamma



Custom Solutions From TBL

Pharm-A-Line I and VI pictured with Rubberfab's Tuf-Flex® gasket and reusable connections.

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