

ICP-OES/ICP-MS SUPPLIES & ACCESSORIES

Issue 9

Product List for Fittings, Connectors & Tubings



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NEBULIZER TUBING & CONNECTORS

EzyLok Kit for Nebulizer Gas Side Arm

[EL-1](#)

Comprises:

EzyLok Connector for 4mm Tubing

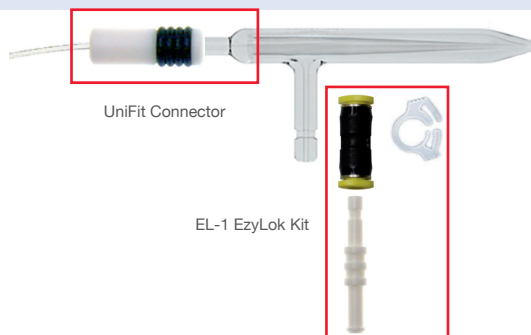
[QSM-4](#)

EzyLok 6mm Hose Adaptor

[70-808-0735](#)

Hose Clip, 6mm

[SNP-1](#)

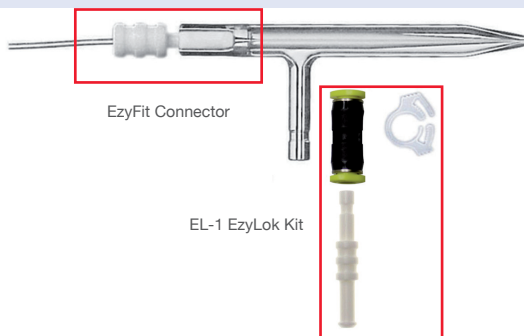


UniFit Connector

EL-1 EzyLok Kit

Sample Tube Connectors (PKT 10)

	UniFit P/N	EzyFit P/N
0.25mm ID x 1.27mm OD x 700mm long	NFT-025	EZT-025
0.25mm ID x 1.27mm OD x 2000mm long	NFT2-025	EZT2-025
0.50mm ID x 1.27mm OD x 700mm long	NFT-050	EZT-050
0.50mm ID x 1.27mm OD x 2000mm long	NFT2-050	EZT2-050
0.75mm ID x 1.27mm OD x 700mm long	NFT-075	EZT-075
0.75mm ID x 1.27mm OD x 2000mm long	NFT2-075	EZT2-075
0.75mm ID x 1.27mm OD x 1500mm long	NFTS-075	EZTS-075
0.07mm ID x 1/16" OD x 700mm long	NFT-16-07	EZT-16-07
0.13mm ID x 1/16" OD x 700mm long	NFT-16-13	EZT-16-13
0.18mm ID x 1/16" OD x 700mm long	NFT-16-18	EZT-16-18
0.25mm ID x 1/16" OD x 700mm long	NFT-16-25	EZT-16-25
0.25mm ID x 1/16" OD x 1500mm long	NFTS-16-25	EZTS-16-25
0.50mm ID x 1/16" OD x 700mm long	NFT-16-50	EZT-16-50
0.50mm ID x 1/16" OD x 1500mm long	NFTS-16-50	EZTS-16-50
0.75mm ID x 1/16" OD x 700mm long	NFT-16-75	EZT-16-75
0.75mm ID x 1/16" OD x 1500mm long	NFTS-16-75	EZTS-16-75
Tefzel 0.5mm ID x 1.3mm OD x 700mm long	NFTFE-050	EZTFE-050
0.3mm ID x 0.75mm OD x 700mm long	NFT-0703	EZT-0703



EzyFit Connector

EL-1 EzyLok Kit

PFA Sample Tubing

0.25mm ID x 1.27mm OD x 10m long	STT-025
0.50mm ID x 1.27mm OD x 10m long	STT-050
0.75mm ID x 1.27mm OD x 10m long	STT-075
0.25mm ID x 1/16" OD x 10m long	STT-16-25
0.50mm ID x 1/16" OD x 10m long	STT-16-50
0.75mm ID x 1/16" OD x 10m long	STT-16-75
0.3mm ID x 0.75mm OD x 10m long	STT-0703
0.13mm ID x 1.27mm OD x 10m long	PFT-013
0.18mm ID x 1.27mm OD x 10m long	PFT-018
0.07mm ID x 1/16" OD x 10m long	PFT-16-07
0.13mm ID x 1/16" OD x 10m long	PFT-16-13
0.18mm ID x 1/16" OD x 10m long	PFT-16-18
1/8" ID x 1/4" OD x 1m long	1/4PFA-HW
Tefzel 0.5mm ID x 1.3mm OD x 10m long	TFE-050

Other Tubing & Clips

VeeSpray Nebulizer Sample Tubing (PKT 10)	VSS-075
VeeSpray Screw & O-Rings Kit (PKT 10 of each)	VKT-0118
PolyCon/VeeSpray Sample Tube O-rings (PKT 10)	V-001
Nebulizer Pressure Hose Clips (PKT 10)	SNP-1
Sample tubing 0.25mm ID x 1.27mm OD x 700mm long, for 0.05 and 0.1ml/min OpalMist and PolyCon (PKT 10)	70-808-0360

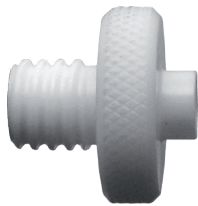
FITTINGS & CONNECTORS FOR SPRAY CHAMBERS

O-Rings & Seals

Helix Seal (PKT 4)	70-100-0237
Helix Locking Screw	70-100-0152
Nebulizer Spacer	21-100-0246
O-ring set for Large Adaptor (Tracey, Twister)	70-808-0501
O-ring set for Small Adaptor (Cinnabar, Twinnabar)	21-808-0818
Teflon coated Viton O-Rings for spray chamber, nebulizer seal (PKT 10)	VT-009
Teflon coated Viton O-Rings for spray chamber, 12mm small adaptor seal (PKT 5)	VT-9/1.5
Teflon coated Viton O-Rings for spray chamber, 16mm large adaptor seal (PKT 10)	VT-10/2
Silicon o-rings for spray chamber, nebulizer seal (PKT 10)	S-009



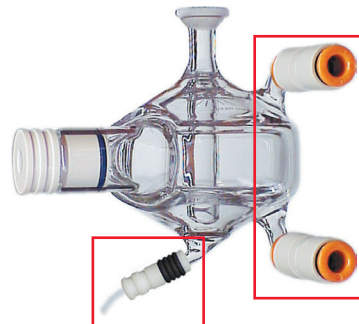
Helix Seal



Helix Locking Screw

Clips & Connectors

Metal Ball Joint Clip (to connect spray chamber and torch)	JC-13
Nickel Joint Clip B14 (to connect spray chamber and drain adaptors)	KCM-14
Nickel Joint Clip KCM29 (to connect spray chamber and drain adaptors)	KCM-29
EzyLok Connector for Jacketed Spray Chamber Coolant Arm Tubing (PKT 4)	QSM-1/4-4
UniFit Connector with sample tube, 0.75mm ID x 1/16" OD x 700mm long (PKT 3)	UFT-16-75
UniFit Connector with sample tube, 0.75mm ID x 1.3mm OD x 700mm long (PKT 3)	UFT-075
UniFit Connector with sample tube, 0.86mm ID x 2mm OD x 480mm long (PKT 3)	UFT-2-86



UniFit

Suitable for use with 1/4" Nylon, Teflon, Polyamide or Polyurethane tubing.



JC-13

CONNECTORS FOR TORCHES

GazFit Connectors

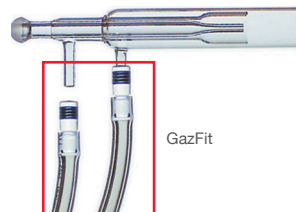
GazFit Connectors (PKT 2), for 8mm OD arm	GAZ-08
GazFit Connectors (PKT 4), for 6mm OD torch side arms	GAZ-06
GazFit Connectors (PKT 4), 2 for 6mm OD torch side arms, 2 for 4mm OD torch side arms	GAZ-0604
GazFit Connectors (PKT 4), for 5mm OD torch side arms	GAZ-05
GazFit Connectors (PKT 4), for 4mm OD torch side arms	GAZ-04

GazFit connectors are only suitable for torches with tolerances of no more than +/- 0.15mm on the diameter of the side arms.

All Glass Expansion torches meet this specification.

O-Rings

Viton O-Rings for demountable torch ball joint connectors (PKT 10)	70-V-011
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GazFit

Standard Peristaltic Pump Tubing

PVC PERISTALTIC PUMP TUBING

All tubes made from Tygon R3603/R3607 or equivalent. Supplied in packs of 12 tubes.

Special Properties:

Inexpensive all-round tubing for general laboratory applications.

Advantages:

Resistant to almost all inorganic materials.

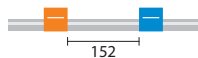
Does not age.

Low gas permeability.

Smooth inner surface.

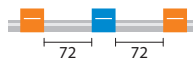
Limitations:

Potential leaching of plasticizers.



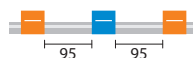
PVC, 2 Bridged, 152mm (152mm between tags)

Tag Colours	ID (mm)	P/N
	0.13	0.13-OBLK
	0.19	0.19-OR
	0.25	0.25-OB
	0.38	0.38-OG
	0.44	0.44-GY
	0.51	0.51-OY
	0.57	0.57-WY
	0.64	0.64-OW
	0.76	0.76-BLK
	0.89	0.89-ORG
	0.95	0.95-WBLK
	1.02	1.02-WHT
	1.09	1.09-WR
	1.14	1.14-RED
	1.22	1.22-RGRY
	1.30	1.30-GRY
	1.42	1.42-YLW
	1.52	1.52-YB
	1.65	1.65-BLU
	1.75	1.75-BG
	1.85	1.85-GRN
	2.06	2.06-PUR
	2.29	2.29-PBLK
	2.54	2.54-PO
	2.79	2.79-PW
	3.17	3.17-BLKW



PVC, 3 Bridged, 72mm (72mm between tags)

Tag Colours	ID (mm)	P/N
	0.13	0.13-OBLK3B
	0.19	0.19-OR3B
	0.25	0.25-OB3B
	0.38	0.38-OG3B
	0.44	0.44-GY3B
	0.51	0.51-OY3B
	0.57	0.57-WY3B
	0.64	0.64-OW3B
	0.76	0.76-BLK3B
	0.89	0.89-ORG3B
	0.95	0.95-WBLK3B
	1.02	1.02-WHT3B
	1.09	1.09-WR3B
	1.14	1.14-RED3B
	1.22	1.22-RGRY3B
	1.30	1.30-GRY3B
	1.42	1.42-YLW3B
	1.52	1.52-YB3B
	1.65	1.65-BLU3B
	1.85	1.85-GRN3B
	2.06	2.06-PUR3B
	2.29	2.29-PBLK3B
	2.54	2.54-PO3B
	2.79	2.79-PW3B
	3.17	3.17-BLKW3B



PVC, 3 Bridged, 95mm (95mm between tags)

Tag Colours	ID (mm)	P/N
	0.25	0.25-OB3B-95
	0.38	0.38-OG3B-95
	0.51	0.51-OY3B-95
	0.76	0.76-BLK3B-95
	0.89	0.89-ORG3B-95
	1.02	1.02-WHT3B-95
	1.30	1.30-GRY3B-95
	1.52	1.52-YB3B-95
	1.85	1.85-GRN3B-95
	2.79	2.79-PW3B-95

SOLVA PERISTALTIC PUMP TUBING

All tubes made from Tygon 4040 or equivalent. Supplied in packs of 12 tubes.

Special Properties:

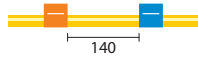
Special tubing for hydrocarbons, petroleum products and distillates.

Advantages:

Specially formulated to transport hydrocarbons, petroleum products and distillates. Ideal for gasoline, kerosene, heating oils, cutting liquids and coolants based on glycols. Low gas permeability.

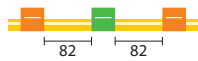
Limitations:

Not recommended for strong acids and alkalis, foodstuffs, beverages and medicines. Potential leaching of plasticizers.



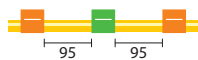
Solva, 2 Bridged, 140mm (140mm between tags)

Tag Colours	ID (mm)	P/N
	0.25	0.25-OB-SF
	0.38	0.38-OG-SF
	0.51	0.51-OY-SF
	0.64	0.64-OW-SF
	0.76	0.76-BLK-SF
	0.89	0.89-ORG-SF
	1.02	1.02-WHT-SF
	1.14	1.14-RED-SF
	1.30	1.30-GRY-SF
	1.42	1.42-YLW-SF
	1.52	1.52-YB-SF
	1.65	1.65-BLU-SF
	1.85	1.85-GRN-SF
	2.06	2.06-PUR-SF
	2.29	2.29-PBLK-SF
	2.54	2.54-PO-SF
	2.79	2.79-PW-SF



Solva, 3 Bridged, 82mm (82mm between tags)

Tag Colours	ID (mm)	P/N
	0.38	0.38-OG3B-SF
	0.76	0.76-BLK3B-SF
	0.89	0.89-ORG3B-SF
	1.14	1.14-RED3B-SF
	1.30	1.30-GRY3B-SF



Solva, 3 Bridged, 95mm (95mm between tags)

Tag Colours	ID (mm)	P/N
	0.38	0.38-OG3B-95-SF
	0.51	0.51-OY3B-95-SF
	0.76	0.76-BLK3B-95-SF
	0.89	0.89-ORG3B-95-SF
	1.02	1.02-WHT3B-95-SF
	1.52	1.52-YB3B-95-SF

VITON® PERISTALTIC PUMP TUBING

All tubes made from Fluran HC F-5500-A or equivalent.

Special Properties:

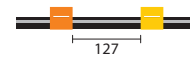
Special tubing for concentrated acids and corrosive solvents.

Advantages:

High chemical resistance. Low gas permeability. Wide temperature range.

Limitations:

Limited service life.



Viton®, 2 Bridged, 127mm (127mm between tags)

Tag Colours	ID (mm)	P/N
	0.51	VS0.51-OY
	0.64	VS0.64-OW
	0.76	VS0.76-BLK
	0.89	VS0.89-ORG
	1.02	VS1.02-WHT
	1.14	VS1.14-RED
	1.30	VS1.30-GRY
	1.42	VS1.42-YLW
	1.52	VS1.52-YB
	1.65	VS1.65-BLU
	1.85	VS1.85-GRN
	2.06	VS2.06-PUR
	2.29	VS2.29-PBLK
	2.54	VS2.54-PO
	2.79	VS2.79-PW

Supplied in packs of 12 tubes

Viton® Tubing, Continuous

ID (mm)	Wall (mm)	P/N
1.00	1.00	V-1
1.50	0.75	V-1.5
2.00	1.00	V-2
3.00	1.00	V-3

Supplied in rolls

Standard Peristaltic Pump Tubing

TYGON® MH PERISTALTIC PUMP TUBING

All tubes made from Tygon MHSL 2001.

Special Properties:

Environmental-friendly tubing especially designed for solvents.

Suitable for MIBK.

Advantages:

High chemical resistance.

Low gas permeability.







Wide temperature range.

Limitations:

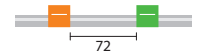
Limited service life.









Tygon® MH Tubing, 2 Bridged, 152mm (152mm between tags)

Tag Colours	ID (mm)	P/N
 orange/green	0.38	0.38-ORG-MH
 orange/white	0.64	0.64-OW-MH
 white/white	1.02	1.02-WHT-MH
 yellow/blue	1.52	1.52-YB-MH
 purple/purple	2.06	2.06-PUR-MH
 purple/white	2.79	2.79-PW-MH

Supplied in packs of 6 tubes



Tygon® MH Tubing, 2 Bridged, 72mm (72mm between tags)

Tag Colours	ID (mm)	P/N
 orange/green	0.38	0.38-ORG-MH3
 orange/white	0.64	0.64-OW-MH3
 white/white	1.02	1.02-WHT-MH3
 yellow/blue	1.52	1.52-YB-MH3
 purple/purple	2.06	2.06-PUR-MH3
 purple/white	2.79	2.79-PW-MH3

Supplied in packs of 6 tubes

Tygon® MH Tubing, Continuous

ID (mm)	P/N
0.38	0.38-ORGM
0.64	0.64-OWM
1.02	1.02-WHTM
1.52	1.52-YBM
2.06	2.06-PURM
2.79	2.79-PWM

Supplied in rolls of 10 metres

Contour Flared-end Peristaltic Pump Tubing

It can be quite difficult to insert the sample tubing into the peristaltic pump tubes. This is particularly so for pump tubing with a small ID. To facilitate this connection, Glass Expansion supplies Contour flared-end pump tubing. The flared end of this pump tubing allows the larger capillary tubing to be inserted into the smaller pump tubing.

Any of the pump tubing that we normally supply can be supplied with flared end. Simply add “-F” to the end of the part number (eg. 0.38-OG-F). The flared-end tubing is supplied in packs of 6.

CONTOUR FLARED END PVC PERISTALTIC PUMP TUBING

All tubes made from Tygon R3603/R3607 or equivalent. Supplied in packs of 6 tubes.

Special Properties:

Inexpensive all-round tubing for general laboratory applications.

Advantages:

Transparent.
Resistant to almost all inorganic materials.
Does not age.
Low gas permeability.
Smooth inner surface.

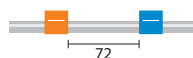
Limitations:

Potential leaching of plasticizers.



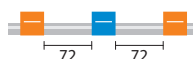
PVC, 2 Bridged, 152mm (152mm between tags)

Tag Colours	ID (mm)	P/N
orange/black	0.13	0.13-OBLK-F
orange/red	0.19	0.19-OR-F
orange/blue	0.25	0.25-OB-F
orange/green	0.38	0.38-OG-F
green/yellow	0.44	0.44-GY-F
orange/yellow	0.51	0.51-OY-F
white/yellow	0.57	0.57-WY-F
orange/white	0.64	0.64-OW-F
black/black	0.76	0.76-BLK-F
orange/orange	0.89	0.89-ORG-F
white/black	0.95	0.95-WBLK-F
white/white	1.02	1.02-WHT-F
white/red	1.09	1.09-WR-F
red/red	1.14	1.14-RED-F
red/grey	1.22	1.22-RGRY-F
grey/grey	1.30	1.30-GRY-F
yellow/yellow	1.42	1.42-YLW-F
yellow/blue	1.52	1.52-YB-F
blue/blue	1.65	1.65-BLU-F
blue/green	1.75	1.75-BG-F
green/green	1.85	1.85-GRN-F
purple/purple	2.06	2.06-PUR-F
purple/black	2.29	2.29-PBLK-F
purple/orange	2.54	2.54-PO-F
purple/white	2.79	2.79-PW-F
black/white	3.17	3.17-BLKW-F



PVC, 2 Bridged, 72mm (72mm between tags)

Tag Colours	ID (mm)	P/N
orange/red	0.19	0.19-OR-F-S
orange/blue	0.25	0.25-OB-F-S
black/black	0.76	0.76-BLK-F-S
orange/orange	0.89	0.89-ORG-F-S

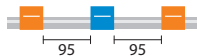


PVC, 3 Bridged, 72mm (72mm between tags)

Tag Colours	ID (mm)	P/N
orange/black	0.13	0.13-OBLK3B-F
orange/red	0.19	0.19-OR3B-F
orange/blue	0.25	0.25-OB3B-F
orange/green	0.38	0.38-OG3B-F
green/yellow	0.44	0.44-GY3B-F
orange/yellow	0.51	0.51-OY3B-F
white/yellow	0.57	0.57-WY3B-F
orange/white	0.64	0.64-OW3B-F
black/black	0.76	0.76-BLK3B-F
orange/orange	0.89	0.89-ORG3B-F
white/black	0.95	0.95-WBLK3B-F
white/white	1.02	1.02-WHT3B-F
white/red	1.09	1.09-WR3B-F
red/red	1.14	1.14-RED3B-F
red/grey	1.22	1.22-RGRY3B-F
grey/grey	1.30	1.30-GRY3B-F
yellow/yellow	1.42	1.42-YLW3B-F
yellow/blue	1.52	1.52-YB3B-F
blue/blue	1.65	1.65-BLU3B-F
green/green	1.85	1.85-GRN3B-F
purple/purple	2.06	2.06-PUR3B-F
purple/black	2.29	2.29-PBLK3B-F
purple/orange	2.54	2.54-PO3B-F
purple/white	2.79	2.79-PW3B-F
black/white	3.17	3.17-BLKW3B-F

Contour Flared end Peristaltic Pump Tubing

CONTOUR FLARED END PVC PERISTALTIC PUMP TUBING (CONT.)



PVC, 3 Bridged, 95mm (95mm between tags)

Tag Colours	ID (mm)	P/N
	0.25	0.25-OB3B-95-F
	0.38	0.38-OG3B-95-F
	0.51	0.51-OY3B-95-F
	0.76	0.76-BLK3B-95-F
	0.89	0.89-ORG3B-95-F
	1.02	1.02-WHT3B-95-F
	1.30	1.30-GRY3B-95-F
	1.52	1.52-YB3B-95-F
	1.85	1.85-GRN3B-95-F
	2.79	2.79-PW3B-95-F

CONTOUR FLARED END SOLVA PERISTALTIC PUMP TUBING

All tubes made from Tygon 4040 or equivalent. Supplied in packs of 6 tubes.

Special Properties:

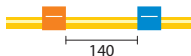
Special tubing for hydrocarbons, petroleum products and distillates.

Advantages:

Specially formulated to transport hydrocarbons, petroleum products and distillates. Ideal for gasoline, kerosene, heating oils, cutting liquids and coolants based on glycols. Low gas permeability.

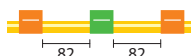
Limitations:

Not recommended for strong acids and alkalies, foodstuffs, beverages and medicines. Potential leaching of plasticizers.



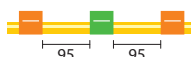
Solva, 2 Bridged, 140mm (140mm between tags)

Tag Colours	ID (mm)	P/N
	0.25	0.25-OB-SF-F
	0.38	0.38-OG-SF-F
	0.51	0.51-OY-SF-F
	0.64	0.64-OW-SF-F
	0.76	0.76-BLK-SF-F
	0.89	0.89-ORG-SF-F
	1.02	1.02-WHT-SF-F
	1.14	1.14-RED-SF-F
	1.30	1.30-GRY-SF-F
	1.42	1.42-YLW-SF-F
	1.52	1.52-YB-SF-F
	1.65	1.65-BLU-SF-F
	1.85	1.85-GRN-SF-F
	2.06	2.06-PUR-SF-F
	2.29	2.29-PBLK-SF-F
	2.54	2.54-PO-SF-F
	2.79	2.79-PW-SF-F



Solva, 3 Bridged, 82mm (82mm between tags)

Tag Colours	ID (mm)	P/N
	0.38	0.38-OG3B-SF-F
	0.76	0.76-BLK3B-SF-F
	0.89	0.89-ORG3B-SF-F
	1.14	1.14-RED3B-SF-F
	1.30	1.30-GRY3B-SF-F



Solva, 3 Bridged, 95mm (95mm between tags)

Tag Colours	ID (mm)	P/N
	0.38	0.38-OG3B-95-SF-F
	0.51	0.51-OY3B-95-SF-F
	0.76	0.76-BLK3B-95-SF-F
	0.89	0.89-ORG3B-95-SF-F
	1.02	1.02-WHT3B-95-SF-F
	1.52	1.52-YB3B-95-SF-F

Contour Flared end Peristaltic Pump Tubing

CONTOUR FLARED END VITON® PERISTALTIC PUMP TUBING

All tubes made from Fluran HC F-5500-A or equivalent.

Special Properties:

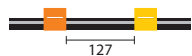
Special tubing for concentrated acids and corrosive solvents.

Advantages:

High chemical resistance.
Low gas permeability.
Wide temperature range.

Limitations:

Limited service life.



Viton®, 2 Bridged, 127mm (127mm between tags)

Tag Colours	ID (mm)	P/N
orange/yellow	0.51	VS0.51-OY-F
orange/white	0.64	VS0.64-OW-F
black/black	0.76	VS0.76-BLK-F
orange/orange	0.89	VS0.89-ORG-F
white/white	1.02	VS1.02-WHT-F
red/red	1.14	VS1.14-RED-F
grey/grey	1.30	VS1.30-GRY-F
yellow/yellow	1.42	VS1.42-YLW-F
yellow/blue	1.52	VS1.52-YB-F
blue/blue	1.65	VS1.65-BLU-F
green/green	1.85	VS1.85-GRN-F
purple/purple	2.06	VS2.06-PUR-F
purple/black	2.29	VS2.29-PBLK-F
purple/orange	2.54	VS2.54-PO-F
purple/white	2.79	VS2.79-PW-F

Supplied in packs of 6 tubes

CONTOUR FLARED END TYGON® MH PERISTALTIC PUMP TUBING

All tubes made from Tygon MHSL 2001.

Special Properties:

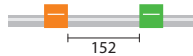
Environmental-friendly tubing especially designed for solvents.
Suitable for MIBK.

Advantages:

High chemical resistance.
Low gas permeability.
Wide temperature range.

Limitations:

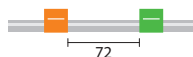
Limited service life.



Tygon® MH Tubing, 2 Bridged, 152mm (152mm between tags)

Tag Colours	ID (mm)	P/N
orange/green	0.38	0.38-ORG-MH-F
orange/white	0.64	0.64-OW-MH-F
white/white	1.02	1.02-WHT-MH-F
yellow/blue	1.52	1.52-YB-MH-F
purple/purple	2.06	2.06-PUR-MH-F
purple/white	2.79	2.79-PW-MH-F

Supplied in packs of 6 tubes



Tygon® MH Tubing, 2 Bridged, 72mm (72mm between tags)

Tag Colours	ID (mm)	P/N
orange/green	0.38	0.38-ORG-MH3-F
orange/white	0.64	0.64-OW-MH3-F
white/white	1.02	1.02-WHT-MH3-F
yellow/blue	1.52	1.52-YB-MH3-F
purple/purple	2.06	2.06-PUR-MH3-F
purple/white	2.79	2.79-PW-MH3-F

Supplied in packs of 6 tubes