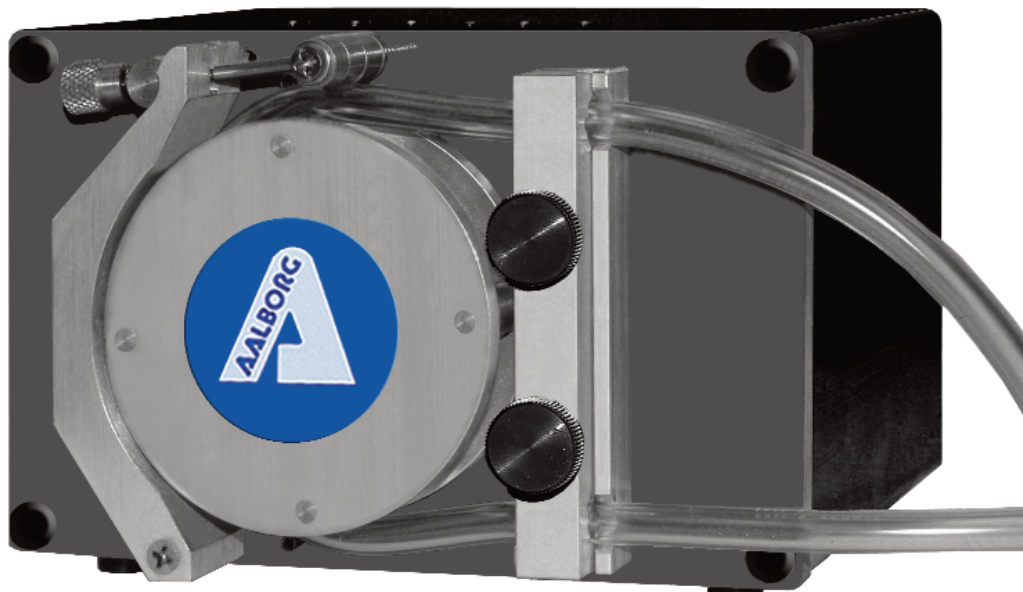


# AALBORG



# pumps

**TUBING PUMP FIXED RPM**

Peristaltic Pump  
designed for liquids  
of low to high  
viscosities.

Laboratory, processing  
and OEM applications.

**MAXIMUM LIFT HEAD:** 900" H<sub>2</sub>O (34 psig).  
**MAXIMUM SUCTION HEAD:** 275" H<sub>2</sub>O (21" Hg vacuum).

**DIMENSIONS:**  
6 1/2" WIDE X 6 3/4" DEEP X 4 1/8" HIGH

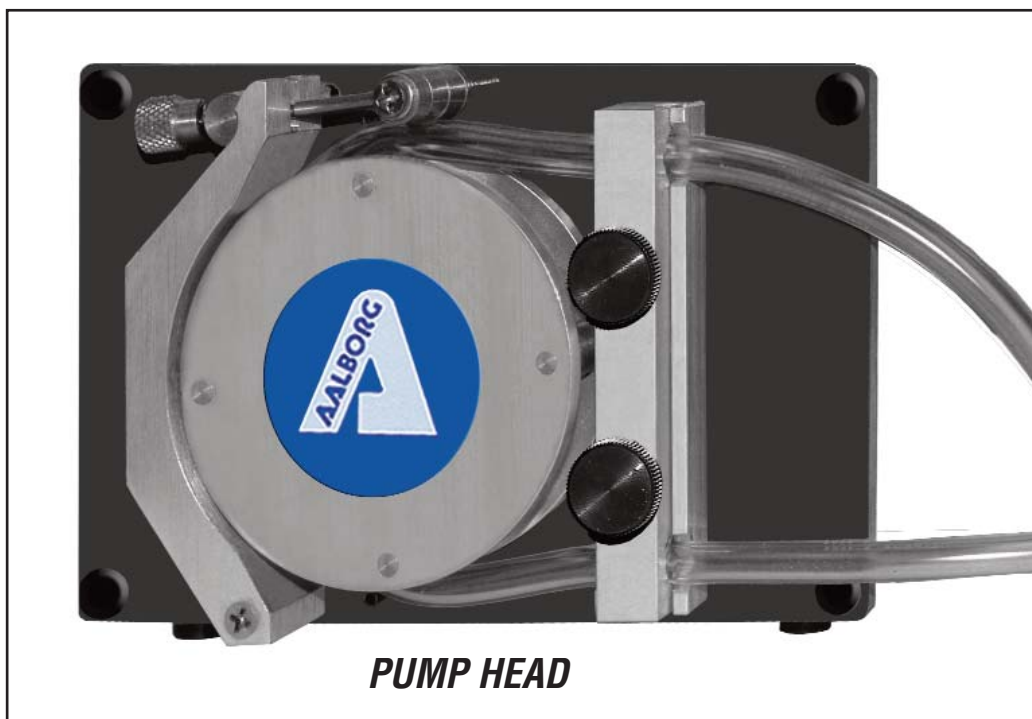
### design features

- ✓ Economical.
- ✓ Adjustable Occlusion Wall.
- ✓ Stainless Steel Rollers and Shafts.
- ✓ Compact Design, Small Foot Print.
- ✓ Can Be Mounted In Any Direction.
- ✓ Long Tubing Life.
- ✓ Four rollers. To minimize pulsing, ten rollers optional.

TYPICAL FLOW RATES WITH TYGON LAB TUBINGS [ml/min]						
INSIDE DIA"	4 ROLLERS PUMP HEAD RPM					
	3	10	20	30	40	50
1/8"	8	14	30	45	60	74
3/16"	17	38	69	99	130	160
1/4"	20	57	110	162	215	267
5/16"	32	82	160	230	303	377

MODEL NO.	DESCRIPTION
TPUFX120-03	Fixed RPM Pump 120VAC 3 RPM
TPUFX120-10	Fixed RPM Pump 120VAC 10 RPM
TPUFX120-20	Fixed RPM Pump 120VAC 20 RPM
TPUFX120-30	Fixed RPM Pump 120VAC 30 RPM
TPUFX120-40	Fixed RPM Pump 120VAC 40 RPM
TPUFX120-50	Fixed RPM Pump 120VAC 50 RPM
TPUFX240-03	Fixed RPM Pump 240VAC 3 RPM
TPUFX240-10	Fixed RPM Pump 240VAC 10 RPM
TPUFX240-20	Fixed RPM Pump 240VAC 20 RPM
TPUFX240-30	Fixed RPM Pump 240VAC 30 RPM
TPUFX240-40	Fixed RPM Pump 240VAC 40 RPM
TPUFX240-50	Fixed RPM Pump 240VAC 50 RPM

\*\* The selection of materials of construction is the responsibility of the customer. The company accepts no liability.



Simplicity of pump head design permits users to connect their own motor drives (optional see table below). Flow rates are determined by size and material of tubing.

### PRINCIPLE OF OPERATION

Flexible tubing is squeezed by rotating rollers against a crescent shaped rigid wall. Liquid is primed into the inlet of the tubing by suction created by the rolling action and dispensing or transfer pumping of liquid commences.

**MAXIMUM LIFT HEAD:** 900" H<sub>2</sub>O (34 psig).  
**MAXIMUM SUCTION HEAD:** 275" H<sub>2</sub>O (21" Hg vacuum).

### DIMENSIONS:

6 1/2" WIDE X 1 5/8" DEEP X 4 1/8" HIGH

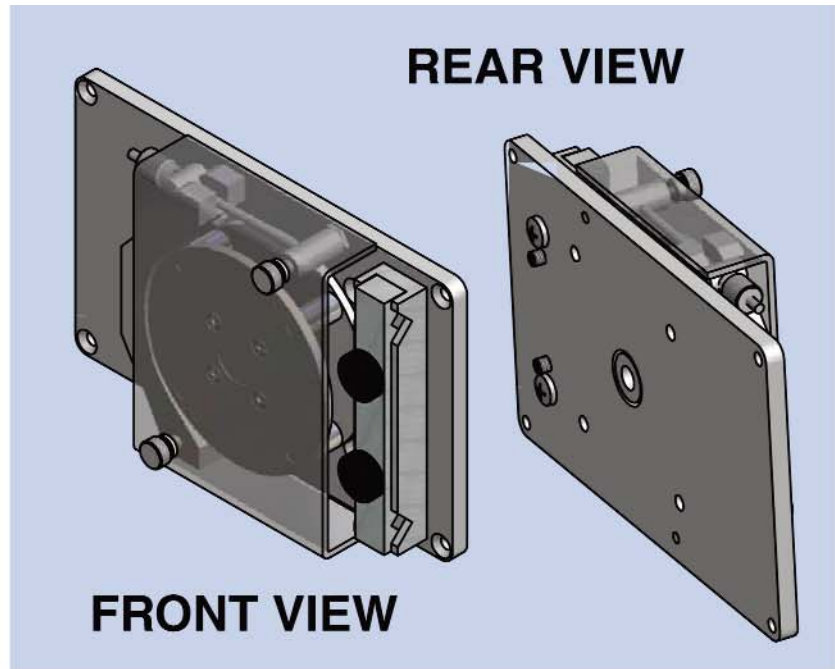
#### ORDERING INFORMATION FOR TUBING PUMP HEAD ACCESSORIES

MODEL NO.	DESCRIPTION
TPU1	Pump head 4 Rollers for 1/16" wall tubing. Supplied with 18" long 1/4 inside Diameter Silicone Tubing.
TPU2	Pump head 10 Rollers for 1/16" wall tubing. Supplied with 18" long 1/4 inside Diameter Silicone Tubing.
MTRFX120-3	Optional Gear Motor 120 VAC, 3 RPM, fixed speed.
MTRFX240-3	Optional Gear Motor 240 VAC, 3 RPM, fixed speed.
MTRFX120-10	Optional Gear Motor 120 VAC, 10 RPM, fixed speed.
MTRFX240-10	Optional Gear Motor 240 VAC, 10 RPM, fixed speed.
MTRFX120-20	Optional Gear Motor 120 VAC, 20 RPM, fixed speed.
MTRFX240-20	Optional Gear Motor 240 VAC, 20 RPM, fixed speed.
MTRFX120-30	Optional Gear Motor 120 VAC, 30 RPM, fixed speed.
MTRFX240-30	Optional Gear Motor 240 VAC, 30 RPM, fixed speed.
MTRFX120-40	Optional Gear Motor 120 VAC, 40 RPM, fixed speed.
MTRFX240-40	Optional Gear Motor 240 VAC, 40 RPM, fixed speed.
MTRFX120-50	Optional Gear Motor 120 VAC, 50 RPM, fixed speed.
MTRFX240-50	Optional Gear Motor 240 VAC, 50 RPM, fixed speed.
MTRAD-60	Optional 12 VDC adjustable speed motor 60 RPM.
MTRAD-300	Optional 12 VDC adjustable speed motor 300 RPM.

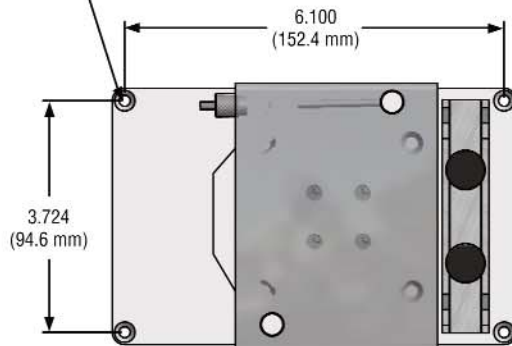
#### TYPICAL FLOW RATES WITH TYGON LAB TUBINGS [ml/ min]

INSIDE DIA"	4 ROLLERS PUMP HEAD RPM					
	3	10	20	30	40	50
1/8"	8	14	30	45	60	74
3/16"	17	38	69	99	130	160
1/4"	20	57	110	162	215	267
5/16"	32	82	160	230	303	377

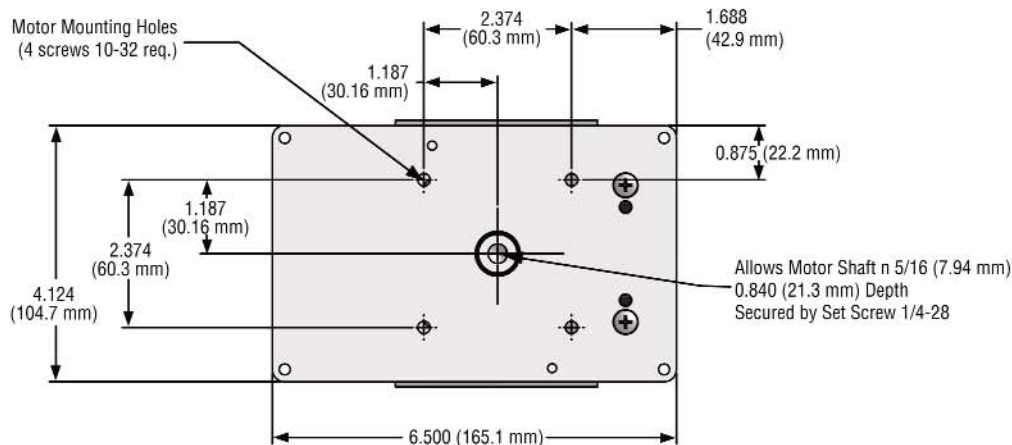
# TUBING PUMP HEAD DIMENSIONAL DRAWING



Front Plate Mounting Holes  
(4 screws 8-32 req.)



Motor Mounting Holes  
(4 screws 10-32 req.)







### design features

- ✓ Economical, Compact design, Small Footprint.
- ✓ Adjustable Occlusion.
- ✓ Maintenance free brushless DC motors.
- ✓ Directionally reversible flow.
- ✓ Priming function.
- ✓ Four rollers are standard.
- ✓ Pumping speeds are electronically adjustable from 0 to 60 RPMs.

## TUBING PUMPS VARIABLE SPEEDS WITH PRIME FUNCTION

### SPECIFICATIONS

**TUBING INSIDE DIAMETERS:** 1/8", 3/16", 1/4" or 5/16".

**TUBING WALL:** 1/16".

**RECOMMENDED TUBING MATERIALS:**

PHARMED® VERSILIC® Silicone, TYGON® Sanitary, NORPRENE®, TYGON® Long Flex.

### \*\*MATERIALS OF CONSTRUCTION

Anodized Aluminum, Stainless Steel Rollers and Shafts.

Motor control panel includes Power indication LED, REVERSE flow switch, SPEED regulation knob, BREAK switch and push button for PRIME function.

**Pump head is designed for 1/8", 3/16", 1/4", and 5/16" inside diameter flexible tubing, 1/16" walls.**

Recommended Tubing Materials: TYGON® 3603, Peroxide treated Silicone, Platinum treated Silicone, Pharmed®, NORPRENE®, HYPALON®.

**Precision rollers are stainless steel.**

Tubing occlusion is adjustable for increased pressure or longer tubing life.

MODEL NO.	DESCRIPTION
TPUAD-NA	Adjustable Speed Pump North America
TPUAD-EU	Adjustable Speed Pump Europe
TPUAD-AU	Adjustable Speed Pump Australia
TPUAD-UK	Adjustable Speed Pump United Kingdom

**MAXIMUM LIFT HEAD:** 900" H<sub>2</sub>O (34 psig).

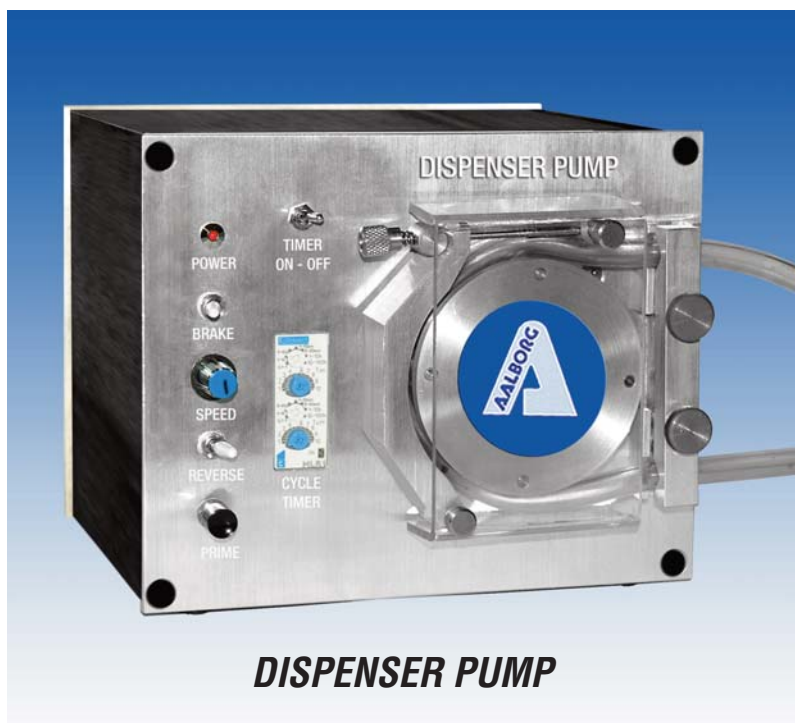
**MAXIMUM SUCTION HEAD:** 275" H<sub>2</sub>O (21" Hg vacuum).

**DIMENSIONS:** 6 1/2" WIDE X 6 3/4" DEEP X 4 1/8" HIGH

### TYPICAL FLOW RATES WITH TYGON LAB TUBINGS [mL/ min]

INSIDE DIA"	4 ROLLERS PUMP HEAD RPM					
	3	10	20	30	40	50
1/8"	8	14	30	45	60	74
3/16"	17	38	69	99	130	160
1/4"	20	57	110	162	215	267
5/16"	32	82	160	230	303	377

*\*\* The selection of materials of construction is the responsibility of the customer. The company accepts no liability.*

**DISPENSER PUMP**

### design features

- ✓ Adjustable occlusion.
- ✓ Maintenance free brushless DC motors.
- ✓ Directionally reversible flow.
- ✓ Priming function.
- ✓ Four rollers are standard.
- ✓ Pumping speeds are electronically adjustable from 10 to 60 RPMs.

**MAXIMUM LIFT HEAD:** 900" H<sub>2</sub>O (34 psig).  
**MAXIMUM SUCTION HEAD:** 275" H<sub>2</sub>O (21" Hg vacuum).

Dispenser pumps are similar to Adjustable Speed models, except a programmable timer device is added to the controls. This permits dispensing over a selected time period by two different ways. A single volume of liquid is dispensed every time it is activated. Alternately, via a "D" connector at the rear of the pump, remote input dispensing functions are available.

Also available with individually programmable ON-OFF cycle timing.

**Timers have seven ranges:**

0.1-1 Seconds
1-10 Seconds
6-60 Seconds
1-10 minutes
6-60 minutes
1-10 hours
10-100 hours

MODEL NO.	DESCRIPTION
TPUDP-NA	Dispensing Pump NA
TPUDP-EU	Dispensing Pump EA
TPUDP-AU	Dispensing Pump AU
TPUDP-UK	Dispensing Pump UK

**DIMENSIONS:**  
 7-3/4" WIDE X 8" DEEP X 6 1/8" HIGH.

TYPICAL FLOW RATES WITH TYGON LAB TUBINGS [ml/ min]						
INSIDE DIA"	4 ROLLERS PUMP HEAD RPM					
	3	10	20	30	40	50
1/8"	8	14	30	45	60	74
3/16"	17	38	69	99	130	160
1/4"	20	57	110	162	215	267
5/16"	32	82	160	230	303	377

### SPECIFICATIONS

**TUBING INSIDE DIAMETERS:** 1/8", 3/16", 1/4" or 5/16".

**TUBING WALL:** 1/16".

#### RECOMMENDED TUBING MATERIALS:

PHARMED® VERSILIC® Silicone, TYGON® Sanitary, NORPRENE®, TYGON® Long Flex.

### \*\*MATERIALS OF CONSTRUCTION

Anodized Aluminum, Stainless Steel Rollers and Shafts.

## ORDERING INFORMATION FOR PUMP TUBING

MODEL NO.	DESCRIPTION
<b>TB1LA2</b>	Tubing Tygon® R-3603 Lab grade 1/8" ID X 1/16" wall, 50 feet
<b>TB1LA3</b>	Tubing Tygon® R-3603 Lab grade 3/16" ID X 1/16" wall, 50 feet
<b>TB1LA4</b>	Tubing Tygon® R-3603 Lab grade 1/4" ID X 1/16" wall, 2 x 25 feet coils (50 feet)
<b>TB1LA5</b>	Tubing Tygon® R-3603 Lab grade 5/16" ID X 1/16" wall, 50 feet
<b>TB1LF2</b>	Tubing Long Flex Life (LFL) 1/8" ID X 1/16" wall, 50 feet
<b>TB1LF3</b>	Tubing Long Flex Life (LFL) 3/16" ID X 1/16" wall, 50 feet
<b>TB1LF4</b>	Tubing Long Flex Life (LFL) 1/4" ID X 1/16" wall, 50 feet
<b>TB1LF5</b>	Tubing Long Flex Life (LFL) 5/16" ID X 1/16" wall, 50 feet
<b>TB1N02</b>	Tubing Norprene® Food Grade (FDA, 3A, NSF) 1/8" ID X 1/16" wall, 50 feet
<b>TB1N03</b>	Tubing Norprene® Food Grade (FDA, 3A, NSF) 3/16" ID X 1/16" wall, 50 feet
<b>TB1N04</b>	Tubing Norprene® Food Grade (FDA, 3A, NSF) 1/4" ID X 1/16" wall, 50 feet
<b>TB1N05</b>	Tubing Norprene® Food Grade (FDA, 3A, NSF) 5/16" ID X 1/16" wall, 50 feet
<b>TB1NI2</b>	Tubing Norprene® Industrial Grade (FDA, 3A, NSF) 1/8" ID X 1/16" wall, 50 feet
<b>TB1NI3</b>	Tubing Norprene® Industrial Grade (FDA, 3A, NSF) 3/16" ID X 1/16" wall, 50 feet
<b>TB1NI4</b>	Tubing Norprene® Industrial Grade (FDA, 3A, NSF) 1/4" ID X 1/16" wall, 50 feet
<b>TB1NI5</b>	Tubing Norprene® Industrial Grade (FDA, 3A, NSF) 5/16" ID X 1/16" wall, 50 feet
<b>TB1PH2</b>	Tubing PHARMED® 1/8" ID X 1/16" wall, 25 feet
<b>TB1PH3</b>	Tubing PHARMED® 3/16" ID X 1/16" wall, 25 feet
<b>TB1PH4</b>	Tubing PHARMED® 1/4" ID X 1/16" wall, 25 feet
<b>TB1PH5</b>	Tubing PHARMED® 5/16" ID X 1/16" wall, 25 feet
<b>TB1SI2</b>	Tubing Silicone (SPX-50), peroxide cured 1/8" ID X 1/16" wall, 50 feet
<b>TB1SI3</b>	Tubing Silicone (SPX-50), peroxide cured 3/16" ID X 1/16" wall, 50 feet
<b>TB1SI4</b>	Tubing Silicone (SPX-50), peroxide cured 1/4" ID X 1/16" wall, 50 feet
<b>TB1SI5</b>	Tubing Silicone (SPX-50), peroxide cured 5/16" ID X 1/16" wall, 50 feet
<b>TB1SA2</b>	Tubing Silicone (3350), sanitary 1/8" ID X 1/16" wall, 50 feet
<b>TB1SA3</b>	Tubing Silicone (3350), sanitary 3/16" ID X 1/16" wall, 50 feet
<b>TB1SA4</b>	Tubing Silicone (3350), sanitary 1/4" ID X 1/16" wall, 50 feet
<b>TB1SA5</b>	Tubing Silicone (3350), sanitary 5/16" ID X 1/16" wall, 50 feet
<b>TB1TY2</b>	Tubing Silicone (XL-60), Long Life Pump Tubing, Tygoprene™ 1/8" ID X 1/16" wall, 50 feet
<b>TB1TY3</b>	Tubing Silicone (XL-60), Long Life Pump Tubing, Tygoprene™ 3/16" ID X 1/16" wall, 50 feet
<b>TB1TY4</b>	Tubing Silicone (XL-60), Long Life Pump Tubing, Tygoprene™ 1/4" ID X 1/16" wall, 50 feet
<b>TB1TY5</b>	Tubing Silicone (XL-60), Long Life Pump Tubing, Tygoprene™ 5/16" ID X 1/16" wall, 50 feet
<b>TB1FR2</b>	Tubing Fluran® (F-5500-A), Severe Environment Tubing 1/8" ID X 1/16" wall, 50 feet
<b>TB1FR3</b>	Tubing Fluran® (F-5500-A), Severe Environment Tubing 3/16" ID X 1/16" wall, 50 feet
<b>TB1FR4</b>	Tubing Fluran® (F-5500-A), Severe Environment Tubing 1/4" ID X 1/16" wall, 50 feet
<b>TB1FR5</b>	Tubing Fluran® (F-5500-A), Severe Environment Tubing 5/16" ID X 1/16" wall, 50 feet
<b>TB1FL2</b>	Tubing Tygon® F4040-A Fuel and Lubricant Appl. 1/8" ID X 1/16" wall, 50 feet
<b>TB1FL3</b>	Tubing Tygon® F4040-A Fuel and Lubricant Appl. 3/16" ID X 1/16" wall, 50 feet
<b>TB1FL4</b>	Tubing Tygon® F4040-A Fuel and Lubricant Appl. 1/4" ID X 1/16" wall, 50 feet
<b>TB1FL5</b>	Tubing Tygon® F4040-A Fuel and Lubricant Appl. 5/16" ID X 1/16" wall, 50 feet