

SPECIALTY QUICK COUPLINGS

Coupling Assortment Kits

- Lab Pak Kit – Delrin Acetal
- Chem Pak Kit – Polypropylene

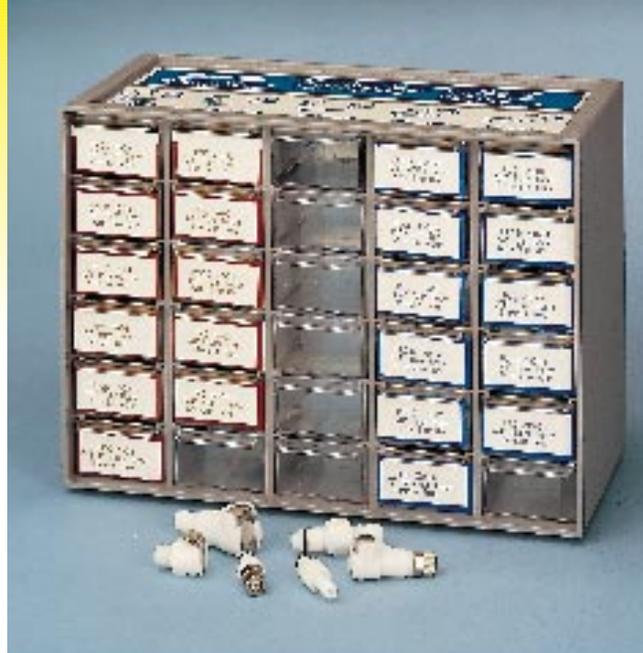
Multiple options for a variety of coupling situations

Prototyping and laboratory operations utilize many sizes of plastic tubing and a variety of coupling combinations.

A quick, convenient method of determining the best coupling for prototyping or lab work is to have an assortment of Quick Couplings in a variety of flow sizes and end connections.

OMEGA offers two kits: A handy assortment in Delrin acetal for general purpose use (the Lab Pak) or polypropylene couplings for greater chemical resistance (the Chem Pak). The Lab Pak and the Chem Pak are sold in attractive multi-drawer cabinets for easy identification and storage.

- Ideal for:**
- Test Labs
 - Model Shops
 - Design Labs
 - University Labs



Complete Kits

Order by Model Number

DESCRIPTION	MATERIAL	MODEL NUMBER	PRICE
Lab Pak	Delrin acetal	FT-LP-100	\$125.00
Lab Pak Plus	Delrin acetal	FT-LPP-200	240.00
Chem Pak	Polypropylene	FT-CP-100	165.96
Chem Pak Plus	Polypropylene	FT-CPP-200	241.74

Lab Pak and Lab Pak Plus.

Delrin acetal general purpose quick couplings for most applications. Fits 1/16" through 3/8" tubing.

Chem Pak and Chem Pak Plus. Polypropylene chemical resistance for applications exposed to acids and caustic environments. Excellent for chemical laboratories. Fits 1/16" through 3/8" tubing.

Lab Pak Kits Contain:

Delrin Acetal

DELRIN ACETAL MODEL NUMBER	LAB PAK	LAB PAK PLUS
FT-PMCD10-02	1	2
FT-PMCD10-04	1	2
FT-PMCD13-04	1	2
FT-PMC17-02	1	2
FT-PMCD17-02	2	2
FT-PMCD17-04		2
FT-PMCD17-01		2
FT-PMC20-04	2	4
FT-PMCD20-04		1
FT-PMC22-01		2
FT-PMC22-02		2
FT-PMC22-04	2	4
FT-PMCD22-02	1	1
FT-PMCD22-04	1	1
FT-PMC24-02	1	1
FT-PMC24-04	1	1
FT-PLC100-04		2
FT-PLCD100-04	1	2
FT-PLCD100-06	1	2
FT-PLCD130-06		1
FT-PLC170-04	2	4
FT-PLCD170-04	2	2
FT-PLCD170-06	2	2
FT-PLC200-06	2	4
FT-PLCD200-06		1
FT-PLC220-04	2	4
FT-PLCD220-04	1	1
FT-PLC220-06	2	4
FT-PLCD220-06	1	1
FT-PLC240-04	1	2

Chem Pak Kits Contain:

Polypropylene

POLYPROPYLENE MODEL NUMBER	CHEM PAK	CHEM PAK PLUS
FT-PMCD10-02-12	2	2
FT-PMCD10-04-12	2	2
FT-PMCD13-04-12	2	2
FT-PMCD17-02-12	1	1
FT-PMCD17-04-12	1	1
FT-PMC20-04-12	2	2
FT-PMCD22-04-12	1	1
FT-PMC22-02-12	4	4
FT-PMCD22-02-12	1	1
FT-PMCD22-04-12	1	1
FT-PMC22-04-12	2	2
FT-PLCD100-04-12	2	2
FT-PLCD100-06-12		1
FT-PLCD130-06-12		1
FT-PLCD170-04-12	2	2
FT-PLC200-06-12		2
FT-PLCD170-06-12		1
FT-PLCD200-06-12		1
FT-PLC220-04-12	2	4
FT-PLCD220-04-12	1	1
FT-PLC220-06-12		2
FT-PLCD220-06-12		1

SPECIALTY QUICK COUPLINGS

Shutoff Valves

Two-Way Thermoplastic Valves

OMEGA's unique shutoff valve provides quick, positive on-off control of flow through flexible plastic tubing. Its exclusive design assures maximum laminar flow through even the smallest tube sizes, and the small size of the valve itself makes it ideal for use in small spaces. When the valve is in the closed position, an orange band is clearly visible, eliminating possible operator error. OMEGA® shutoff valves can be used for either pressure or vacuum applications.

Applications:

- Pneumatic controls
- Air and gas sampling
- Flush valves
- Biomedical devices

Caution: Always install OMEGA® shutoff valves with flow entering the valve from the "body" side, as illustrated below (right to left).



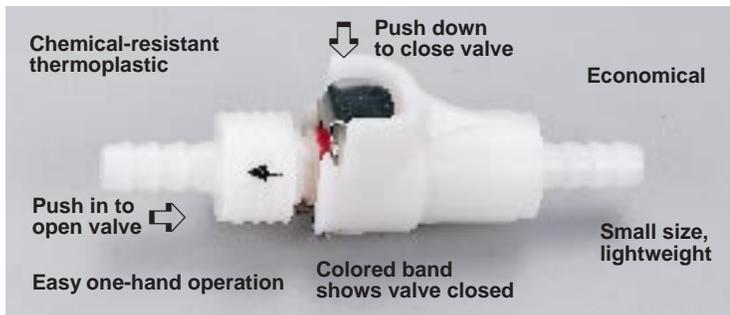
Specifications

Working Pressure: Vacuum to 120 psi, 8.3 Bar

Operating Temperature: -40° to 82°C, continuous
-40° to 180°F, continuous

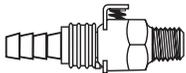
Materials: Bodies: Delrin acetal
Valve Spring: 316 Stainless steel
External Springs, Latch, Pin: Stainless steel
Seals: Buna-N; others available
Color: Natural white, others available

Tubing Size: 1/8" thru 3/8" ID
1/4" and 3/8" OD
6 x 4 mm and 10 x 6.4 mm (OD x ID)



PIPE THREAD

Ferruleless Fitting†, PTF x Pipe Thread Hose Barb x Pipe Thread

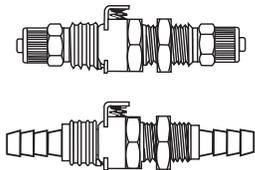


TUBING		NPT PIPE				TUBING		NPT PIPE			
OD	THREAD	FLOW	MODEL NUMBER	PRICE	LENGTH	ID	THREAD	FLOW	MODEL NUMBER	PRICE	LENGTH
1/4"	x 1/8"	1/8"	FT-MSO102-204	\$10.73	1.94"	1/8"	x 1/8"	1/8"	FT-MSO102-222	\$9.32	1.87"
1/4"	x 1/4"	1/8"	FT-MSO104-204	10.29	2.04"	1/4"	x 1/8"	1/8"	FT-MSO102-224	9.32	2.07"
1/4"	x 1/4"	1/4"	FT-LSO104-204	10.73	2.10"	1/8"	x 1/4"	1/8"	FT-MSO104-222	8.87	1.96"
3/8"	x 1/4"	1/4"	FT-LSO104-206	11.41	2.26"	1/4"	x 1/4"	1/8"	FT-MSO104-224	8.87	2.16"
						1/4"	x 1/4"	1/4"	FT-LSO104-224	9.44	2.23"
						3/8"	x 1/4"	1/4"	FT-LSO104-226	9.44	2.23"
						1/4"	x 3/8"	1/4"	FT-LSO106-224	9.44	2.23"
						3/8"	x 3/8"	1/4"	FT-LSO106-226	9.44	2.23"

PANEL MOUNT*

Ferruleless Fitting†, PTF Ends

Hose Barb Ends



TUBING		MM				TUBING		MM			
OD	OD x ID	FLOW	MODEL NUMBER	PRICE	LENGTH	ID	MM	FLOW	MODEL NUMBER	PRICE	LENGTH
1/4"	6 x 4	1/8"	FT-MSO124-204	\$13.18	2.66"	1/8" ID	3.2 ID	1/8"	FT-MSO162-222	\$11.96	2.52"
1/4"	6 x 4	1/4"	FT-LSO124-204	14.30	2.76"	1/4" ID	6.4 ID	1/8"	FT-MSO164-224	12.38	2.92"
3/8"	9.5 x 6	1/4"	FT-LSO126-206	15.08	3.02"	1/4" ID	6.4 ID	1/4"	FT-LSO164-224	11.96	3.05"
						3/8" ID	9.5 ID	1/4"	FT-LSO166-226	11.96	3.05"

PT-MSO Dimensions:
* Panel Opening = 1/2" Diameter
Maximum Panel Thickness = 1/2"
Minimum Panel Thickness = .050"
Panel Nuts = 5/8" Hex

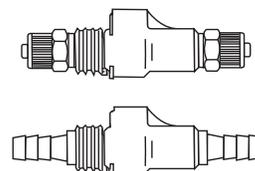
PT-LSO Dimensions:
* Panel Opening = 11/16" Diameter
Maximum Panel Thickness = 1/2"
Minimum Panel Thickness = .050"
Panel Nuts = 3/4" Hex

† PTF fittings are designed for semi-rigid tubing, i.e. polyethylene, nylon, etc. and polyurethane tubing.

IN LINE

Ferruleless Fitting†, PTF Ends

Hose Barb Ends



TUBING		MM				TUBING		MM			
OD	OD x ID	FLOW	MODEL NUMBER	PRICE	LENGTH	ID	MM	FLOW	MODEL NUMBER	PRICE	LENGTH
1/4"	6 x 4	1/8"	FT-MSO134-204	\$11.77	2.66"	1/8" ID	3.2 ID	1/8"	FT-MSO172-222	\$10.13	2.54"
1/4"	6 x 4	1/4"	FT-LSO134-204	14.81	2.78"	1/4" ID	6.4 ID	1/8"	FT-MSO174-224	10.13	2.94"
3/8"	9.5 x 6	1/4"	FT-LSO136-206	14.61	3.02"	1/4" ID	6.4 ID	1/4"	FT-LSO174-224	11.15	3.04"
						3/8" ID	9.5 ID	1/4"	FT-LSO176-226	11.15	3.04"

THERMOPLASTIC QUICK COUPLINGS

DELRIN®/CELCON® ACETAL

1/8" Flow, FT-PMC Series for 1/16 to 1/4" Tubing

Delrin®/Celcon® Acetal couplings offer the widest selection of configurations and are OMEGA's most popular coupling.

FT-PMC Series Features

- ✓ Multiple valving options
- ✓ Leak free O-Ring seal
- ✓ Small package size

Applications

- ✓ Water and air supply lines
- ✓ Mild chemical handling
- ✓ Ink lines
- ✓ Potable water
- ✓ Vacuum lines



FT-PMC10-02

\$5

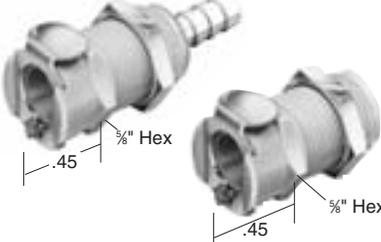
Basic Unit



Coupling Bodies 1/8" Flow

 MOST POPULAR MODELS HIGHLIGHTED

PIPE THREAD	MALE THREAD		STRAIGHT THRU MODEL NUMBER		PRICE	SHUTOFF MODEL NUMBER		PRICE	LENGTH
		1/8" NPT	1/4" NPT	FT-PMC10-02	FT-PMC10-04	\$5	FT-PMCD10-02	FT-PMCD10-04	\$7
	1/8" BSPT	1/4" BSPT	FT-PMC10-02BS	FT-PMC10-04BS	5	FT-PMCD10-02BS	FT-PMCD10-04BS	7	1.10"
					5			7	1.00"
					6			7	1.10"

PANEL MOUNT*	Ferrules Polytube Fitting†, PTF						
	TUBING SIZE OD x ID	METRIC EQ MM	STRAIGHT THRU MODEL NUMBER	PRICE	SHUTOFF MODEL NUMBER	PRICE	LENGTH
	—	4 x 2	FT-PMC12-M42	\$9	FT-PMCD12-M42	\$10	1.65"
	5/32" x 0.10"	4 x 2.5	FT-PMC12-025	9	FT-PMCD12-025	10	1.70"
	1/4" x 0.170"	6 x 4.3	FT-PMC12-04	9	FT-PMCD12-04	10	1.72"
	Hose Barb						
	1/16" ID	—	FT-PMC16-01	\$9	FT-PMCD16-01	\$11	1.40"
	1/8" ID	3.2 ID	FT-PMC16-02	8	FT-PMCD16-02	10	1.65"
	3/16" ID	4.8 ID	FT-PMC16-03	8	FT-PMCD16-03	10	1.85"
	1/4" ID	6.4 ID	FT-PMC16-04	9	FT-PMCD16-04	10	1.85"
	Female Thread						
	10-32 UNF	—	FT-PMC18-1032	\$11	FT-PMCD18-1032	\$13	1.25"

IN LINE, Streamline Design

	Ferrules Polytube Fitting†, PTF						
	TUBING SIZE OD x ID	METRIC EQ MM	STRAIGHT THRU MODEL NUMBER	PRICE	SHUTOFF MODEL NUMBER	PRICE	LENGTH
	—	4 x 2	FT-PMC13-M42	\$11	FT-PMCD13-M42	\$13	1.65"
	5/32 x 0.10"	4 x 2.5	FT-PMC13-025	9	FT-PMCD13-025	10	1.70"
	1/4 x 0.170"	6 x 4.3	FT-PMC13-04	6	FT-PMCD13-04	7	1.73"
	Hose Barb						
	1/16" ID	—	FT-PMC17-01	\$6	FT-PMCD17-01	\$8	1.41"
	1/8" ID	3.2 ID	FT-PMC17-02	5	FT-PMCD17-02	7	1.65"
	3/16" ID	4.8 ID	FT-PMC17-03	5	FT-PMCD17-03	7	1.85"
	1/4" ID	6.4 ID	FT-PMC17-04	5	FT-PMCD17-04	7	1.85"
	Female Thread						
	10-32 UNF		FT-PMC19-1032	\$8	FT-PMCD19-1032	\$9	1.25"

* Panel Opening = 1/2" Diameter
 Maximum Panel Thickness = 1/2"
 Minimum Panel Thickness = .050"
 Panel Nuts = 3/8" Hex

† PTF fittings are designed for semi-rigid tubing, i.e. polyethylene, nylon etc. and polyurethane tubing.

Delrin®/Celcon® and Chrome-Plated Brass coupling halves interchange.

Ordering Example: FT-PMC10-02, 1/8", NPT straight thru body FT-PMC24-02 insert, \$5 + 2 = \$7.

SPECIFICATIONS

Working Pressure: Vacuum to 120 psi, 8.3 bar

Operating Temperature: -40 to 82°C continuous (-40 to 180°F)

Materials:

Bodies and Valves:

Delrin®/Celcon® Acetal

Internal Spring: 316 Stainless Steel

External Springs, Pin, Latch:

Stainless Steel

Seals: Buna-N, others available

Color: Natural white

Tubing Sizes:

1/16" thru 1/4" ID

5/32, 1/4 and 3/8" OD

4 x 2 mm thru

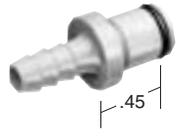
10 x 6.4 mm (OD x ID)



FPU500, \$125, shown smaller than actual size. See page T-13 for more information.

Coupling Inserts 1/8" Flow

MOST POPULAR MODELS HIGHLIGHTED

PIPE THREAD	MALE THREAD	STRAIGHT THRU MODEL NUMBER	PRICE	LENGTH	SHUTOFF MODEL NUMBER	PRICE	LENGTH	
	1/8" NPT	FT-PMC24-02	\$2	1.03"	FT-PMCD24-02	\$7	1.33"	
	1/4" NPT	FT-PMC24-04	2	1.13"	FT-PMCD24-04	7	1.30"	
	1/8" BSPT	FT-PMC24-02BS	2	1.03"	FT-PMCD24-02BS	7	1.33"	
	1/4" BSPT	FT-PMC24-04BS	5	1.13"	FT-PMCD24-04BS	7	1.30"	
PANEL MOUNT*	Ferrules Polytube Fitting†, PTF							
	TUBING SIZE OD x ID	METRIC EQ MM	STRAIGHT THRU MODEL NUMBER	PRICE	LENGTH	SHUTOFF MODEL NUMBER	PRICE	LENGTH
	1/4 x 170"	6 x 4.3	FT-PMC40-04	\$7	1.70"	FT-PMCD40-04	\$12	1.70"
	Hose Barb							
	1/16" ID	—	FT-PMC42-01	\$6	1.38"	FT-PMCD42-01	\$11	1.38"
	1/8" ID	3.2 ID	FT-PMC42-02	5	1.63"	FT-PMCD42-02	9	1.63"
	3/16" ID	4.8 ID	FT-PMC42-03	5	1.83"	FT-PMCD42-03	10	1.83"
	1/4" ID	6.4 ID	FT-PMC42-04	5	1.83"	FT-PMCD42-04	10	1.83"
STRAIGHTS	Ferrules Polytube Fitting†, PTF							
	TUBING SIZE OD x ID	METRIC EQ MM	STRAIGHT THRU MODEL NUMBER	PRICE	LENGTH	SHUTOFF MODEL NUMBER	PRICE	LENGTH
	—	4 x 2	FT-PMC20-M42	\$4	1.08"	FT-PMCD20-M42	\$7	1.53"
	5/32 x 0.10"	4 x 2.5	FT-PMC20-025	3	1.13"	FT-PMCD20-025	12	1.53"
	1/4 x 0.170"	6 x 4.3	FT-PMC20-04	3	1.15"	FT-PMCD20-04	6	1.45"
	3/8 x 0.250"	9.5 x 6	FT-PMC20-06	4	1.30"	FT-PMCD20-06	8	1.40"
	Hose Barb							
	1/16" ID	1.6 ID	FT-PMC22-01	\$2	0.80"	FT-PMCD22-01	\$7	1.35"
	1/8" ID	3.2 ID	FT-PMC22-02	2	1.05"	FT-PMCD22-02	7	1.55"
	3/16" ID	4.8 ID	FT-PMC22-03	2	1.25"	FT-PMCD22-03	7	1.75"
	1/4" ID	6.4 ID	FT-PMC22-04	2	1.25"	FT-PMCD22-04	7	1.58"
	Female Thread							
	10-32 UNF	—	FT-PMC28-1032	\$4	0.63"	FT-PMCD28-1032	\$9	1.19"
ELBOWS	Ferrules Polytube Fitting†, PTF							
	TUBING SIZE OD x ID	METRIC EQ MM	STRAIGHT THRU MODEL NUMBER	PRICE	LENGTH	SHUTOFF MODEL NUMBER	PRICE	LENGTH
	1/4 x 0.170"	6 x 4.3	FT-PMC21-04	\$6	1.17"	FT-PMCD21-04	\$10	1.20"
	5/32 x 0.100"	—	FT-PMC21-025	6	1.17"	—	—	—
	Hose Barb							
	1/8" ID	3.2 ID	FT-PMC23-02	\$5	0.85"	FT-PMCD23-02	\$9	1.09"
	1/4" ID	6.4 ID	FT-PMC23-04	5	1.00"	FT-PMCD23-04	9	1.09"

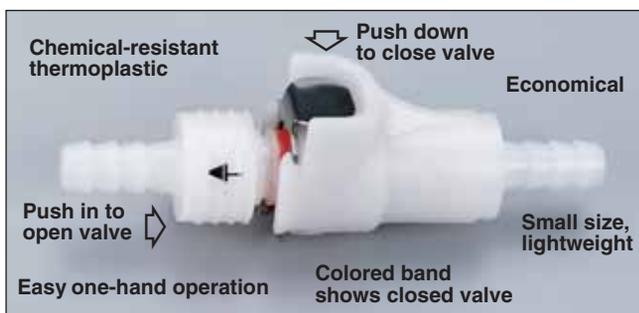
Delrin®/Celcon® and Chrome-Plated Brass coupling halves interchange.

SPECIALTY QUICK COUPLINGS SHUTOFF VALVES

Two-Way Thermoplastic Valves

OMEGA's unique Shutoff Valve provides quick, positive on-off control of flow through flexible plastic tubing. Its exclusive design assures maximum laminar flow through even the smallest tube sizes, and the small size of the valve itself makes it ideal for use in small spaces. When the valve is in the closed position, an orange band is clearly visible, eliminating operator error. OMEGA® Shutoff Valves can be used for either pressure or vacuum applications.

Caution: Always install OMEGA® Shutoff Valves with flow entering the valve from the "body" side, as illustrated below, right to left.



Applications: Pneumatic controls; Air and gas sampling; Flush valves; Biomedical devices



FT-MS/LS Series

\$887

Basic Unit

SPECIFICATIONS

Working Pressure: Vacuum to 120 psi (8.3 bar)

Operating Temperature: -40 to 82°C (-40°F to 180°F), continuous

Materials:

Bodies: Delrin Acetal

Valve Spring: 316 Stainless steel

External Springs, Latch, Pin: Stainless steel

Seals: Buna-N, others available

Color: Natural White, others available

Tubing Size: 1/8 thru 3/8" ID, 1/4 and 3/8" OD, 6 x 4 mm and 10 x 6.4 mm (OD x ID)

Pipe Thread

MOST POPULAR MODELS HIGHLIGHTED!

TUBING OD	Ferruleless Fitting† PTF x Pipe Thread					Hose Barb x Pipe Thread					
	NPT PIPE THREAD	FLOW	MODEL NUMBER	PRICE	LENGTH	TUBING ID	NPT PIPE THREAD	FLOW	MODEL NUMBER	PRICE	LENGTH
1/4"	1/8"	1/8"	FT-MSO102-204	\$10.73	1.94"	1/8"	1/8"	1/8"	FT-MSO102-222	\$9.32	1.87"
1/4"	1/4"	1/8"	FT-MSO104-204	10.29	2.04"	1/4"	1/8"	1/8"	FT-MSO102-224	9.32	2.07"
1/4"	1/4"	1/4"	FT-LSO104-204	10.73	2.10"	1/8"	1/4"	1/8"	FT-MSO104-222	8.87	1.96"
3/8"	1/4"	1/4"	FT-LSO104-206	11.41	2.26"	1/4"	1/4"	1/8"	FT-MSO104-224	8.87	2.16"
						1/4"	1/4"	1/4"	FT-LSO104-224	9.44	2.23"
						3/8"	1/4"	1/4"	FT-LSO104-226	9.44	2.23"
						1/4"	3/8"	1/4"	FT-LSO106-224	9.44	2.23"
						3/8"	3/8"	1/4"	FT-LSO106-226	9.44	2.23"

Panel Mount*

TUBING OD	Ferruleless Fitting† PTF Ends					Hose Barb Ends					
	OD x ID (mm)	FLOW	MODEL NUMBER	PRICE	LENGTH	TUBING MM	FLOW	MODEL NUMBER	PRICE	LENGTH	
1/4"	6 x 4	1/8"	FT-MSO124-204	\$13.18	2.66"	1/8" ID	3.2 ID	1/8"	FT-MSO162-222	\$11.96	2.52"
1/4"	6 x 4	1/4"	FT-LSO124-204	14.30	2.76"	1/4" ID	6.4 ID	1/8"	FT-MSO164-224	12.38	2.92"
3/8"	9.5 x 6	1/4"	FT-LSO126-206	15.08	3.02"	1/4" ID	6.4 ID	1/4"	FT-LSO164-224	11.96	3.05"
						3/8" ID	9.5 ID	1/4"	FT-LSO166-226	11.96	3.05"

In Line

TUBING OD	Ferruleless Fitting† PTF Ends					Hose Barb Ends					
	OD x ID (mm)	FLOW	MODEL NUMBER	PRICE	LENGTH	TUBING MM	FLOW	MODEL NUMBER	PRICE	LENGTH	
1/4"	6 x 4	1/8"	FT-MSO134-204	\$11.77	2.66"	1/8" ID	3.2 ID	1/8"	FT-MSO172-222	\$10.13	2.54"
1/4"	6 x 4	1/4"	FT-LSO134-204	14.81	2.78"	1/4" ID	6.4 ID	1/8"	FT-MSO174-224	10.13	2.94"
3/8"	9.5 x 6	1/4"	FT-LSO136-206	14.61	3.02"	1/4" ID	6.4 ID	1/4"	FT-LSO174-224	11.15	3.04"
						3/8" ID	9.5 ID	1/4"	FT-LSO176-226	11.15	3.04"

Ordering Example: FT-MSO162-222, panel mount hose barb ends for 1/4" OD tubing \$11.96

PT-MSO Dimensions: *Panel Opening = 1/2" Diameter. Maximum Panel Thickness = 1/2". Minimum Panel Thickness = 0.050". Panel Nuts = 5/8" Hex.

PT-LSO Dimensions: *Panel Opening = 1/16" Diameter. Maximum Panel Thickness = 1/2". Minimum Panel Thickness = 0.050". Panel Nuts = 3/4" Hex.

† PTF fittings are designed for semi-rigid tubing, i.e. polyethylene, nylon etc. and polyurethane tubing.

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Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters