

DIELECTRIC<sup>®</sup> 

SPX<sup>®</sup> 

# Broadcast Solutions



# Models 2400 / 3200

## Small Capacity Central Office Air Dryer

### QUIET OPERATION

New cabinet design allows for greatly reduced noise output. These dryers operate under 60db at 10 feet.

### FULL ALARM CAPABILITY

Five independent alarms including high humidity, high and low line pressure, excess run and power are available on the new small capacity C.O. dryers. Each of the five independent alarm circuits can be monitored individually or as a single C.O. alarm. Excepting Power alarm, each signaled by red alarm light on front panel. Common, NO and NC terminals are provided.

### COMPONENT PROTECTION

In the event of an overload or damaging voltage spike the compressor and/or control-circuit breaker will prevent damage both to the compressor and electronics.

### BUILT-IN HOUR METER

The hour meter on the front panel allows accurate tracking of compressor operation to facilitate effective routine maintenance.

### REPACKABLE DESICCANT TOWERS

The NS style heatless DRY-PAK® facilitates desiccant change out should the drying media become contaminated.



## FEATURES

- All major components are modular to facilitate maintenance and repair procedures.
- Electrical control panel utilizes solid state components; (purge timer, humidistat, and excessive operation timer).
- Oil-less 100 PSIG compressor allows two connection removal and offers thermal overload protection as well as an enlarged cooling fan for more efficient operation.
- DRY-PAK twin-tower heatless dryer. Efficient, internal check-ball valving, purge controlled by two-way solenoid valves.
- Humidity bypass automatically vents wet air to the atmosphere in the event of a humidity alarm.
- Adjustable system pressure allows for altitude compensation to assure peak efficiency at any elevation.
- Compressor isolation provides quiet, vibration free operation and extends service life.
- Large ASME dry air storage tank reduces compressor cycling for improved component life.



## SPECIFICATIONS

CHARACTERISTICS	MODEL 2400	MODEL 3200
Normal Capacity	2400 SCFD	3200 SCFD
Emergency	3500 SCFD	4100 SCFD
Capacity Weight	155 lbs.	175 lbs.
Electrical Options	115v, 60Hz, 1 ph. 110v, 50Hz, 1 ph. 230v, 60Hz, 1 ph. 220v, 50Hz, 1 ph.	115v, 60Hz, 1 ph. ----- 230v, 60Hz, 1 ph. 220v, 50Hz, 1 ph.
Air Compressor	3/4 hp.	1.0 hp.
Operating Current	115v - 11A 230v - 5.5A	115v - 13A 230v - 6.5A
Compressor Circuit Protection	115v - 15A C.B. 230v - 7.5A C.B. 115v - 1A C.B.	115v - 20A C.B. 230v - 10A C.B. 115v - 1A C.B.
Control Circuit Protection	230v - 0.5A C.B.	230v - 0.5A C.B.

IM3200: p/n 47144

## Specialists in Cable Pressurization

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# Models 1000TLS

## Air Dryer

The 1000TLS heatless compressor dehydrator is specifically designed as an economical pressurization system for coaxial transmission line and waveguide systems. Using a heatless self-regenerating drying system, the 1000TLS automatically regenerates the drying media and provides years of trouble free service. The unit is equipped with a visual humidity indicator and a low pressure alarm.

The 1000TLS provides up to 1000 SCFD of air at a -40° dew point with a selectable output pressure range of 2-15 PSIG and a 4.5 PSIG differential. The tankless design utilizes the volume of the coax or waveguide as the storage vessel and can be equipped with panel mounting brackets or a .4 cubic foot storage tank (optional).

The reliable 1/3 HP oilless compressor is available for application in 115V/50-60Hz as well as 230V/50-60Hz environments. This compressor requires minimal maintenance that can be performed on-site and will provide years of service.



## ORDERING INFORMATION

PART NO.	DESCRIPTION
94744	115V Model
95536	230V Model

## SPECIFICATIONS

CHARACTERISTICS	MODEL 1000TLS
Normal Capacity	850 SCFD (700 SCFD @ 50Hz)
Maximum Capacity	1000 SCFD (825 SCFD @ 50Hz)
Dew Point	-40°F (-40°C)
Operating Voltage	115V/60-50Hz, 230V/60-50Hz
Operating Amps	1.2 Amps (230V), 2.3 Amps (115V)
Circuit Protection (manual reset) Compressor	3 Amp (230V), 5 Amp (115V) 1/3 H.P.
Width	17.0 Inches
Height	12.0 Inches
Depth	8.0 Inches
Weight	36 lbs.
Air Outlet	1/4" NPT Fitting

# Models 600 / 850

## Series A -D – Special Application Air Dryer

Fully automatic, self-contained compressor dehydrators, Radiodetection's Models 600 and 850 provide a dry air source for a variety of small volume applications. These units are quiet and compact making them the ideal choice for your low volume dry air (less than 2% RH) requirements. The Models 600 and 850 air dryers are available in four alarm / output pressure configurations and in 115V / 240V, 60-50Hz to provide optimum capabilities for all applications. With an adjustable outlet pressure of 2 to 15 PSIG. (0.1 to 2.0 PSIG in the "D" series) standard units are available to fit most requirements.

These units are ideally suited for specialty pressurization requirements such as toll cable, repeater site, broad-cast transmission line, waveguide, and CEV (Controlled Environment Vault) pressurization. In addition, these units can be manufactured to either commercial or military specifications for applications in ground based and mobile radar systems.

Models 600 and 850 air dryers feature a reliable twin tower heatless air dryer and a long life compressor well suited for high altitude operation. Cabinet air flow via forced air ventilation as well as sophisticated vibration isolation optimize the service life of these units. In addition, special consideration has been given to accessibility and ease of maintenance to provide a versatile, full featured pressurization package.



### FEATURES

- Adjustable system pressure allows for altitude compensation to assure peak efficiency at any elevation.
- Compressor isolation provides quiet, vibration free operation and extends service life.
- Large ASME air storage tank reduces cycling for improved component life.
- Forced air ventilation allows cooler operation and improved efficiency.
- Self-regenerating twin tower drying system for years of trouble free operation.

## 600/850 OPTION DESIGNATIONS

Options are keyed to last letter of model designation

Letter:

- A** The output pressure regulator allows adjustment of the output pressure from 2 to 15 PSIG. This unit comes equipped with a color-change Humidity Indicator, an adjustable Low Output Pressure Alarm, Power Off Alarm, Power On indicator light, and Summary Alarm Terminal Board. Both "Closed in Alarm" and "Open in Alarm" conditions can be monitored from the alarm terminal board.
- B** The output pressure regulator allows adjustment of the output pressure from 2 to 15 PSIG. This unit is equipped with an Electronic Humidity Alarm factory preset to alarm at 2% RH (-20° dew point). Other standard features include an adjustable Low Output Pressure Alarm, and Power Off Alarm Power-On Indicator Light and a Summary Alarm Terminal Board. Both "Closed in Alarm" and "Open in Alarm" conditions can be monitored from the alarm terminal board.
- C** The output pressure regulator allows adjustment of the output pressure from 2 to 15 PSIG. This unit is equipped with an Electronic Humidity Alarm, factory preset to alarm at 2% RH (-20° dew point), and a Humidity Bypass with automatic reset. Other standard features include an adjustable Low Output Pressure Alarm, adjustable High Output Pressure Alarm, Excessive Operation Alarm, and Power Off Alarm. Front Panel indicator lights provide confirmation of alarm status and a segregated Alarm Terminal Board provides remote recognition of 5 separate alarm conditions or a single "Summary" alarm condition. Both "Closed in Alarm" and "Open in Alarm" conditions can be monitored from the alarm terminal board.
- D** A precision low pressure regulator allows adjustment of the output pressure from 0.1 to 2.0 PSIG. This model is equipped with an Electronic Humidity Alarm, factory preset to alarm at 2% RH (-20° dew point), and a Humidity Bypass with automatic reset. Other standard features include adjustable Low Output and High Output Pressure Alarms, Excessive Operation Alarm and Power Off Alarm. Front panel indicator lights provide verification of alarm status and a Segregated Alarm Terminal Board provides remote recognition of five separate alarm conditions or a single "Summary" alarm condition. Both "Closed in Alarm" and "Open in Alarm" conditions can be monitored from the alarm terminal board.

## SPECIFICATIONS

CHARACTERISTICS	MODEL 600	MODEL 850
Normal Capacity	600 S.C.F.D.	850 S.C.F.D.
Maximum Capacity	750 S.C.F.D.	1080 S.C.F.D.
Dew Point	-40°F (-40°C)	-40°F (-40°C)
Operating Voltage	115V/60-50Hz, 230V/60-50Hz	115V/60-50Hz, 230V/60-50Hz
Operating Amps	6.0 (115V), 3.0 (230V)	6.5 (115V), 3.2 (230V)
Circuit Protection (manual reset) Compressor	10 Amp (115V), 5 Amp (230V) 1/4 H.P.	10 Amp (115V), 5 Amp (230V) 1/4 H.P.
Width	17.5 Inches (44.5 cm)	17.5 Inches (44.5 cm)
Height	15.5 Inches (39.4 cm)	15.5 Inches (39.4 cm)
Depth	17.5 Inches (44.5 cm)	17.5 Inches (44.5 cm)
Weight	85 lbs. (38.6 kg)	85 lbs. (38.6 kg)
Air Outlet	3/8" O.D. Tube Fitting	3/8" O.D. Tube Fitting

## ORDERING INFORMATION

DRYER	NORMAL/EMERGENCY CAPACITY	SUPPLY REQUIREMENTS	PART NO.
600A (115V)	600/750SCFD (708/885liters/hour)	6A 115V/60-50Hz/1ph	39963
600A (230V)	600/750SCFD (708/885liters/hour)	3A 230V/60-50Hz/1ph	46208
600B (115V)	600/750SCFD (708/885liters/hour)	6A 115V/60-50Hz/1ph	40626
600B (230V)	600/750SCFD (708/885liters/hour)	3A 230V/60-50Hz/1ph	46209
600C (115V)	600/750SCFD (708/885liters/hour)	6A 115V/60-50Hz/1ph	40627
600C (230V)	600/750SCFD (708/885liters/hour)	3A 230V/60-50Hz/1ph	44399
600D (115V)	600/750SCFD (708/885liters/hour)	6A 115V/60-50Hz/1ph	40628
600D (230V)	850/1080SCFD (1003/1274liters/hour)	3A 230V/60-50Hz/1ph	46210
850A (115V)	850/1080SCFD (1003/1274liters/hour)	6.5A 115V/60-50Hz/1ph	41014
850A (230V)	850/1080SCFD (1003/1274liters/hour)	3.2A 230V/60-50Hz/1ph	46211
850B (115V)	850/1080SCFD (1003/1274liters/hour)	6.5A 115V/60-50Hz/1ph	41015
850B (230V)	850/1080SCFD (1003/1274liters/hour)	3.2A 230V/60-50Hz/1ph	46212
850C (115V)	850/1080SCFD (1003/1274liters/hour)	6.5A 115V/60-50Hz/1ph	41016
850C (230V)	850/1080SCFD (1003/1274liters/hour)	3.2A 230V/60-50Hz/1ph	46213
850D (115V)	850/1080SCFD (1003/1274liters/hour)	6.5A 115V/60-50Hz/1ph	41017
850D (230V)	850/1080SCFD (1003/1274liters/hour)	3.2A 230V/60-50Hz/1ph	46214

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# Models 300TLS

## Air Dryer

The 300TLS heatless compressor dehydrator is specifically designed as an economical pressurization system for coaxial transmission line and waveguide systems. Using a heatless self-regenerating drying system, the 300TLS automatically regenerates the drying media and provides years of trouble free service. The unit is equipped with a visual humidity indicator and a low pressure alarm.

The 300TLS provides up to 300 SCFD of air at a -40° dew point with a selectable output pressure range of 2-15 PSIG and a 4.5 PSIG differential. The tank-less design utilizes the volume of the coax or waveguide as the storage vessel and can be equipped with panel mounting brackets or a .4 cubic foot storage tank (optional).

The reliable 1/8 HP oil-less compressor is available for application in 115V/50-60Hz as well as 230V/50-60Hz environments. This compressor requires minimal maintenance that can be performed on-site and will provide years of service.



## SPECIFICATIONS

CHARACTERISTICS	MODEL 300TLS
Normal Capacity	200 SCFD (160 SCFD @ 50Hz)
Maximum Capacity	300 SCFD (240 SCFD @ 50Hz)
Dew Point	-40°F (-40°C)
Operating Voltage	115V/60-50Hz, 230V/60-50Hz
Operating Amps	1.0 Amps (230V), 2.0 Amps (115V)
Circuit Protection (manual reset) Compressor	1.25 Amp (230V), 5 Amp (115V) 1/8 H.P.
Width	17.0 Inches
Height	12.0 Inches
Depth	8.0 Inches
Weight	34 lbs.
Air Outlet	1/4" NPT Fitting

## ORDERING INFORMATION

PART NO.	DESCRIPTION
66788	115V Model
66789	230V Model



# Model 200

## Series A -D – Special Application Air Dryers

Dielectric's Model 200 series air dryers are fully self-contained compressor dehydrators capable of providing dry air for small volume demands. These compact free-standing units are small enough to be easily mounted in even the most out-of-the-way spaces, yet provide a normal output of up to 200 S.C.F.D.\* (234 liters/hr) and a maximum capacity of 300 S.C.F.D. (354 liters/hr). The Model 200 series is available in four alarm/output pressure configurations and in 115V/60-50Hz or 220V/50-60Hz to provide optimum capabilities for all applications. With an adjustable outlet pressure of 2 to 15 PSIG (0.14 to 1.03 bar) or 0.1 to 2.0 PSIG (0.007 to 0.14 bar) in the "D" series. Standard units are available to fit most requirements.

The Model 200 Series air dryers are ideally suited for all your specialty pressurization requirements including toll cable, microwave repeater sites, CEV (Controlled Environment Vault), broadcast transmission line and wave-guide pressurization. In addition, these units can be manufactured to military specifications for applications in ground based and mobile radar systems.

The Model 200 series air dryers utilize a reliable twin tower heatless drying system and a long life oil-less compressor well suited for operation even at high altitudes. In addition, special consideration has been given to accessibility and ease of maintenance to provide a versatile, full featured pressurization package.

\*S.C.F.D = Standard Cubic Feet per Day



### FEATURES

- Adjustable system pressure allows for altitude compensation to assure peak efficiency at any elevation.
- Built-in air storage tank provides 0.22 cubic foot (6.2 liters) of dry air storage to reduce cycling and extend component life.
- Self-regenerating twin tower heatless drying system for years of trouble free operation.
- Compact and efficient design makes this unit ideal for all small capacity dry air requirements.



## OPTION DESIGNATIONS

Options are keyed to last letter of model designation

### Letter:

- A** The output pressure regulator allows adjustment of the output pressure from 2 to 15 PSIG (0.14 to 1.03 bar). This unit comes equipped with a color-change Humidity Indicator, an adjustable Low Output Pressure Alarm, Power Off Alarm, Power On indicator light, and Summary Alarm Terminal Board. Both "Closed in Alarm" and "Open in Alarm" conditions can be monitored from the alarm terminal board.
- B** The output pressure regulator allows adjustment of the output pressure from 2 to 15 PSIG (0.14 to 1.03 bar). This unit is equipped with an Electronic Humidity Alarm factory preset to alarm at 2% RH -20°F (-28°C). Other standard features include an adjustable Low Output Pressure Alarm, and Power Off Alarm Power-On Indicator Light and a Summary Alarm Terminal Board. Both "Closed in Alarm" and "Open in Alarm" conditions can be monitored from the alarm terminal board.
- C** The output pressure regulator allows adjustment of the output pressure from 2 to 15 PSIG (0.14 to 1.03 bar). This unit is equipped with an Electronic Humidity Alarm, factory preset to alarm at 2% RH -20°F (-28°C) and a Humidity Bypass with automatic reset. Other standard features include an adjustable Low Output Pressure Alarm, adjustable High Output Pressure Alarm, Excessive Operation Alarm, and Power Off alarm. Front panel indicator lights provide confirmation of alarm status and a segregated Alarm Terminal Board provides for remote recognition of 5 separate alarm conditions or a single "Summary" alarm condition. Both "Closed in Alarm" and "Open in Alarm" conditions can be monitored from the alarm terminal board.
- D** A precision low pressure regulator allows adjustment of the output pressure from 0.1 to 2.0 PSIG (0.07 to 0.14 bar). This model is equipped with an Electronic humidity alarm, factory preset to alarm at 2% RH -20°F (-28°C) and a Humidity Bypass with automatic reset. Other standard features include adjustable Low Output and High Output Pressure Alarms, Excessive Operation Alarm, and Power Off Alarm. Front panel indicator lights provide verification of alarm status and a Segregated Alarm Terminal Board provides remote recognition of five separate alarm conditions or a single "Summary" alarm condition. Both "Closed in Alarm" and "Open in Alarm" conditions can be monitored from the alarm terminal board.

## SPECIFICATIONS

CHARACTERISTICS	MODEL 200, SERIES A - D
Normal Capacity	200 SCFD (234 Litres/hour)
Emergency Capacity	300 SCFD (354 Litres/hour)
Air Compressor	0.125 hp. (93W)
Electrical Options	115/110V, 60/50Hz, 1 ph. 230/220V, 60/50Hz, 1 ph.
Operating Current	115V - 2.0A 230V - 1.0A
Compressor Circuit Protection (manual reset)	115V - 5.0Amp 230V - 1.25Amp
Control Circuit Protection (5 x 20 mm fuse)	115V - 1/4 Amp 230V - 1/8 Amp
Height	16.5" (42cm)
Width	15.0" (38.1cm)
Depth	8.0" (20.3cm)
Weight	35 lbs. (15.9kg)

ELECTRICAL OPTIONS	MODEL 200A	MODEL 200B	MODEL 200C	MODEL 200D
115/110V, 60/50Hz, 1 ph.	46341	46343	46345	46347
230/220V, 60/50Hz, 1 ph.	46342	46344	45352	46294

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# Air System Manifolds

## 2-10 Port Outlet

The ASM Series Multi-Port Air System Manifold is an economical distribution system that is available in standard configurations from 2 to 10 outlet ports. These units are supplied with a check valve, ball valve shut-off and output pressure gauge but can be easily custom configured with pressure switches or transducers.

Manifolds are supplied standard with one 3/8" tubing inlet, a second inlet is available and supplied plugged, and outlet connections are terminated with 3/8" tubing connections. Additional materials supplied for installation include 100' of 3/8" plastic tubing, 24 tie wraps and 3/8" tubing x 1/8" male connector for each outlet.

These units are suggested for use with all small capacity dry air pressurization systems that will be feeding multiple applications.



### FEATURES

- Available as a kit – all parts included for installation
- Versatile mounting design – can be mounted to the air dryer, wall or shelf
- Durable aluminum design
- Custom configurations readily available

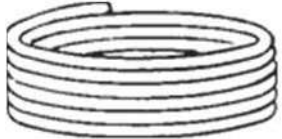
# Cable Pressurization Systems

## Fittings and tubing

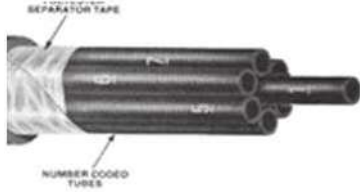
### Plastic PolyFlo Tubing

Single and Multi-Tube plastic Poly-Flo tubing offers significant savings in material cost, installation cost and reduced maintenance requirements. Poly-Flo tubing is light, flexible and easy to handle. In addition, plastic tubing is weather resistant as well as resistant to corrosion by chemicals and most solvents.


### Single Tube, Plastic

Dielectric Part Number	Tubing		Weight (lb/100ft.)	
	O.D.	Wall		
0016854003	3/8"	0.062"	2.5	
0016854005	1/2"	0.062"	3.9	


### Multi-Tube, Plastic

Dielectric Part Number	Number of Tubes	Tube I.D.	Weight (lb/100ft.)	
0017030008	10	3/8"	44.2	

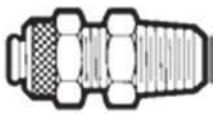
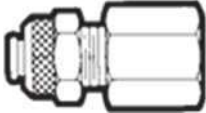

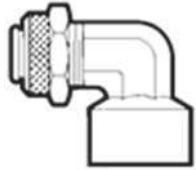
### Ball Valve Shut-offs

Dielectric Part Number	Pipe Thread NPT	
N41790A	3/8"	
0019529013	3/4"	

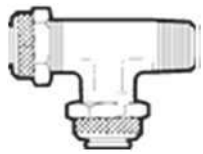

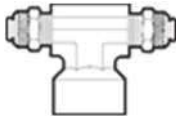





### Check Valves

Dielectric Part Number	Pipe Thread NPT	
41125	3/4"	

## Polyflo Fittings and Tubing for Cable Pressurization Systems

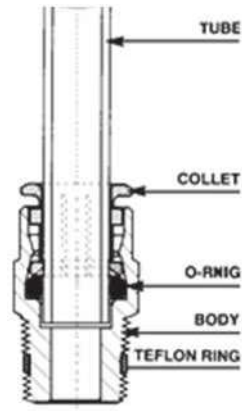
Dielectric Part Number	Tube O.D.	Pipe Size NPT	Description
N0016853003	$\frac{3}{8}$ "	$\frac{1}{8}$ "	 Male Connector
N0016853004	$\frac{3}{8}$ "	$\frac{1}{4}$ "	
N0016853005	$\frac{3}{8}$ "	$\frac{3}{8}$ "	
0018448005	$\frac{3}{8}$ "	$\frac{1}{8}$ "	 Female Connector
N0016853012	$\frac{3}{8}$ "	$\frac{1}{8}$ "	 Male Elbow
N0016853013	$\frac{3}{8}$ "	$\frac{1}{4}$ "	
N0016853014	$\frac{3}{8}$ "	$\frac{3}{8}$ "	
N0016853032	$\frac{3}{8}$ "	$\frac{1}{4}$ "	 Female Elbow

## Polyflo Fittings and Tubing for Cable Pressurization Systems

Dielectric Part Number	Tube O.D.	Pipe Size NPT	Description
N0016853041	$\frac{3}{8}$ "	$\frac{1}{4}$ "	 Male Run Tee
N0016853046	$\frac{3}{8}$ "	$\frac{1}{4}$ "	 Male Branch Tee
N0016853081	$\frac{3}{8}$ "	$\frac{1}{4}$ "	 Female Branch Tee
N0016853066	$\frac{3}{8}$ "	n/a	 Union Tee
N0016853072	$\frac{3}{8}$ "	n/a	 Straight Union
N0016853060	$\frac{3}{8}$ "	n/a	 Sleeve, Plastic
N0016853054	$\frac{3}{8}$ "	n/a	 Cap, Plastic
N0016853098	$\frac{3}{8}$ "	n/a	 Nut & Sleeve Assy




## Push-In Fittings and Tubing

Dielectric uses push-in fittings in the assembly of its air distribution panels as well as panel and rack assemblies. These fittings utilize the entire inside diameter of the tubing and minimize any pneumatic resistance that might otherwise be encountered at the fitting. In addition, push-in fittings allow the assembly and removal of the tube from the fitting without tools. Push-in fittings can be used anywhere that you might otherwise use a poly-flo fitting and may save up to 75% of the assembly time. Push-in fittings must be used with the tubing listed below and are not compatible with poly-flo tubing.






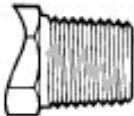





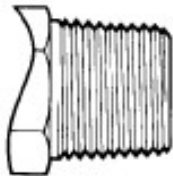
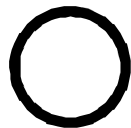
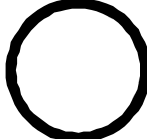
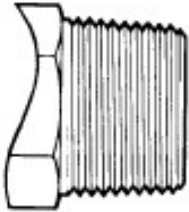
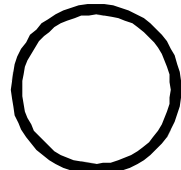
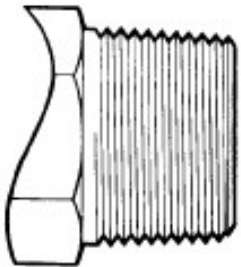
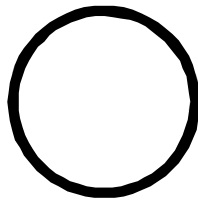


PUSH-IN FITTINGS

Description	Part Number
$\frac{3}{8}$ " Tube for Push-in Fittings	41037
$\frac{1}{2}$ " Tube for Push-in Fittings	41038

Dielectric Part No.	Tube O.D.	Pipe Size NPT	Description
N45006	$\frac{3}{8}$ "	$\frac{1}{4}$ "	 Male Connector
N45007	$\frac{3}{8}$ "	$\frac{3}{8}$ "	
N45008	$\frac{3}{8}$ "	$\frac{1}{2}$ "	
N45009	$\frac{1}{2}$ "	$\frac{3}{8}$ "	
N45012	$\frac{3}{8}$ "	$\frac{1}{4}$ "	 Male Elbow
N45013	$\frac{3}{8}$ "	$\frac{3}{8}$ "	
N45025	$\frac{3}{8}$ "	$\frac{1}{4}$ "	 Swivel Male Elbow
N45026	$\frac{3}{8}$ "	$\frac{3}{8}$ "	
N45046	$\frac{1}{2}$ "	$\frac{1}{4}$ "	
N45027	$\frac{1}{2}$ "	$\frac{3}{8}$ "	
N45053	$\frac{1}{2}$ "	$\frac{1}{2}$ "	

Thread and Tube Size Chart

NPT Thread		TUBING O.D. Size	
	1/16"		1/16"
	1/8"		1/8"
			3/16"
	1/4"		1/4"
			5/16"
	3/8"		3/8"
			1/2"
	1/2"		5/8"
			3/4"
	3/4"		7/8"
	1"		1"