

# LOC-LINE<sup>®</sup>

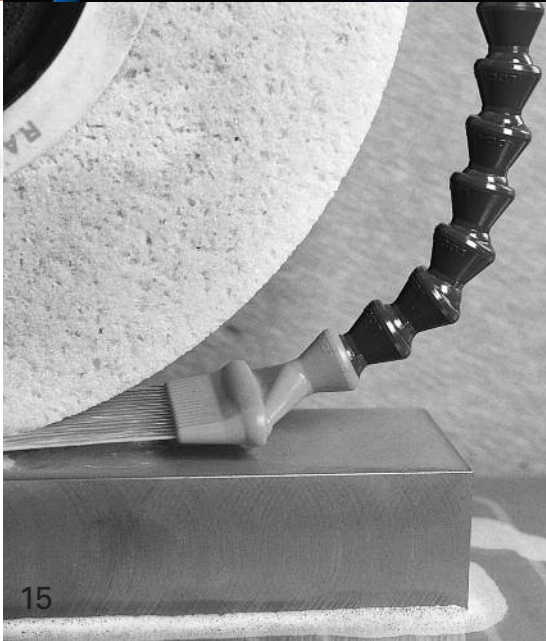
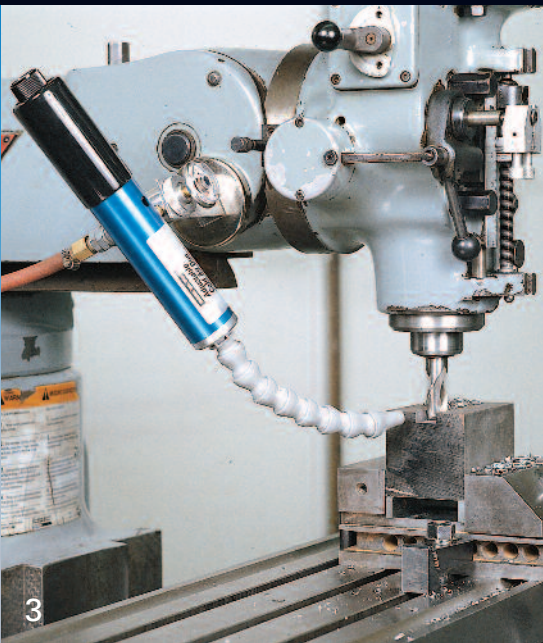
THE ORIGINAL MODULAR HOSE SYSTEM.



# LOC-LINE® FLEXES TO MANY TASKS

1. Paintless dent removal is made easier using Loc-Line® 3/4" hose and standard shield parts.
2. Loc-Line® in all sizes is used as armatures for dolls and stuffed animals.
3. Loc-Line® 1/2" System directs chilled air through a Vortec cold gun, one of the many air applications that use Loc-Line®.
4. The Flexible Shower Massage by Water Pik combines a patented Loc-Line® design with the Shower Massage to position the head to any height.
5. Fadal Engineering uses Loc-Line® in a traditional flood coolant application.
6. A Loc-Line® Flare Nozzle directs just the right amount of coolant to the cutter.
7. Trico uses Loc-Line® 1/4" System to enhance mist delivery for the Micro Drop® Dispenser.
8. Hass Automation and Loc-Line® combine for accurate aim coolant flow.
9. The Smart Washer® manufactured by ChemFree uses the Loc-Line® 1/2" System to direct environmentally safe fluids to clean parts in the tub.
10. Exair's Cold Gun and Loc-Line® cools the grinder and tool without using fluids.
11. Loc-Line® Vacuum Hose and a standard shop vacuum help keep workshops cleaner.
12. The Snake Light™ Flexible Flashlight by Black and Decker utilizes a patented Loc-Line® design that resists popping apart.
13. Growing coral in an aquarium requires turbulent water motion. Loc-Line® makes it possible to direct the flow where it is needed and around sensitive corals.
14. The BlueFin V900 underwater camera by Light & Motion uses Loc-Line® to hold and aim the lights.
15. Loc-Line® Swivel Nozzle distributes an even flow of coolant for a surface grinding operation.





# THE LOC-LINE<sup>®</sup> SYSTEM

**THE BASIC SHAPE OF THIS BALL AND SOCKET DESIGN IS THE KEY TO THE LOC-LINE<sup>®</sup> SYSTEM.**



**The tapered skirt design of Loc-Line<sup>®</sup> allows full articulation of the ball without cutting off any flow as do round skirt designs.**

**1/2" Hose**



0.98" O.D.

**1/4" Hose**



0.64" O.D.

**3/4" Hose**



1.23" O.D.

**2 1/2" Hose**



2.93" O.D.

- Loc-Line's unique ball and socket design is fully hand adjustable in both position and length.
- Bending doesn't decrease the inside diameter and it won't kink or fatigue like copper tubing.
- Unlike metal hoses, Loc-Line<sup>®</sup> won't damage machine tool cutters if contact occurs.
- Loc-Line<sup>®</sup> is electrically non-conductive. It is ideal for use as an EDM flushing hose.
- Loc-Line<sup>®</sup> has no internal positioning rod that can break or restrict fluid flow.
- Repeated positioning is easy and it will stay in position without any springback. Creep due to machine vibration is eliminated.

- Loc-Line<sup>®</sup> is manufactured in a premium grade acetal copolymer material which is chemically resistant to petroleum products, coolants, and most common chemicals. Selected parts are also available in an acid resistant polyester.
- Loc-Line<sup>®</sup> continues the original adjustable hose concept by offering four hose diameters, manifolds, valves, and a large choice of nozzles and fittings. Our Modular Vacuum Hose System continues to build on our original concept.
- Loc-Line<sup>®</sup> is designed for low pressure applications. Maximum pressures for the hose systems vary with the length of the hose, the diameter of the selected nozzle, and the bending angles. The following specifications are guidelines for all Loc-Line<sup>®</sup> coolant hose systems.

**FOUR HOSE DIAMETERS**

Loc-Line<sup>®</sup> is available in four different sizes with inside diameters measuring from 1/4" to 2 1/2".

## PURCHASE LOC-LINE® IN BULK PACKAGING.

### LINE PRESSURE & FLOW RATES:

<b>1/4" System</b>	30–50 PSI	250 Gal / Hour
<b>1/2" System</b>	20–30 PSI	478 Gal / Hour
<b>3/4" System</b>	10–20 PSI	1,140 Gal / Hour

### TEMPERATURE SPECIFICATIONS:

Melting point: 329° F  
Maximum operating temperature: 170° F

*Please note that all applications have variables and conditions that will affect the maximum hose pressures. Testing is always recommended whenever possible.*



### LOC-LINE® BULK PACKS

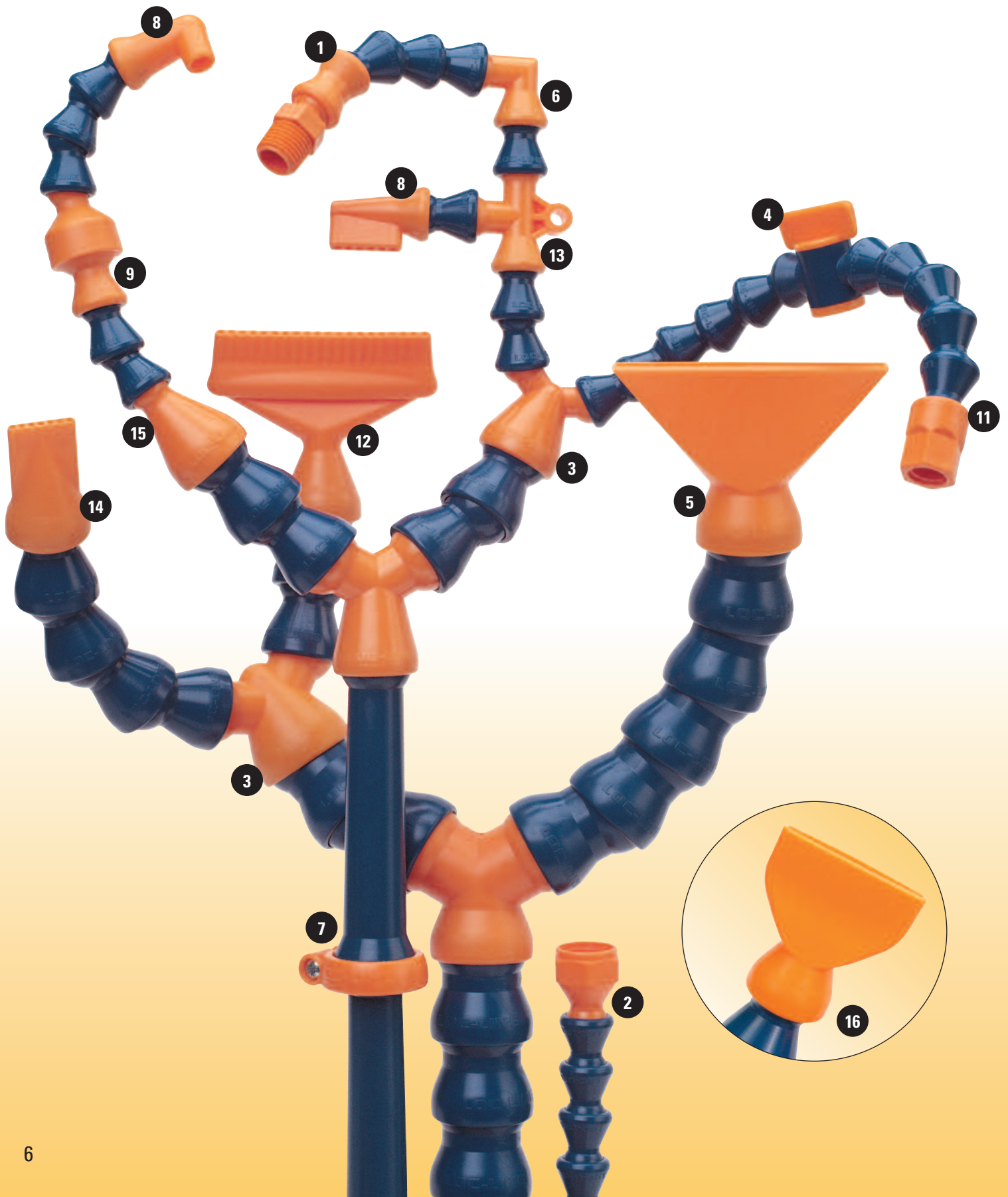
Loc-Line® is offered in bulk packaging to simplify your purchasing requirements. Whatever your demands, there is a package to fit your needs. Most bulk packed products, those with the second digit "9" part number (i.e. 49420), are available in black, gray and the original blue and orange.



### Common Compatability with Acetal Products Loc-Line® Blue & Orange Colors

	Yes	Acetone
No		Acids
	Yes	Alcohol, Ethyl
No		Ammonium Hydroxide, (Strong)
No		Bases, Strong
	Yes	Commercial Dish Detergents
	Yes	Gasoline
	Yes	Greases
No		Hypochlorite Ion Solutions
	Yes	Lacquer Solvents
	Yes	Oils
	Yes	Sodium Hydroxide
No		Sodium Hypochlorite

# CUSTOMIZED SOLUTIONS



## THE LOC-LINE® SYSTEM OFFERS ENDLESS COMBINATIONS FOR OUTSTANDING RESULTS.

### 1. DOUBLE SOCKETS

Allows user to put a Loc-Line® connector on both ends • Can be used to connect coolant fed tooling • Allows attachment of a non-Loc-Line® nozzle

### 2. FLARE NUT FITTINGS

Allows users to replace flared copper tube fittings and copper tube with Loc-Line® fittings and hose. Loc-Line® won't fatigue like copper. • A popular fitting for air applications in the printing industry •  $\frac{3}{8}$ " Flare nuts fit to  $\frac{5}{8}$ " - 18 threads •  $\frac{1}{4}$ " Flare nuts fit to  $\frac{3}{8}$ " - 20 threads

### 3. Y FITTINGS & REDUCERS

Multiple nozzles can be attached to one supply line • Reducing Y's connect a larger supply line to two smaller hose diameters

### 4. VALVES

Regulate coolant or air flow to your work area •  $\frac{1}{4}$  turn of handle opens or closes the valve • Light-weight and compact for in-line use • Body and stem material is acetal copolymer • Stem seals are nitrile (Buna N)

### 5. FLARE NOZZLES

Spreads coolant or air over a wide area without restricting the flow volume

### 6. ELBOW FITTINGS

Attaches directly to NPT fittings where tight turns are needed • Allows 90° hose turns

### 7. EXTENDED ELEMENTS & ELEMENT CLAMPS

Element Clamps tighten onto any standard Loc-Line® element in the same size system • Extended Elements with Clamps reduce dynamic motion at higher pressures • Extended Elements make it easier to run longer lengths of hose

### 8. 90 DEGREE NOZZLES

90 Degree Nozzles allow coolant flow close to the tool • 90 Degree Nozzles make tight turns behind the cutter • Reduce view obstructions in front of the tool • 90 Degree Nozzles fit directly on NPT connectors in short tight spaces • Spray Bar Nozzles distribute coolant over a wide area with even pressure

### 9. IN-LINE CHECK VALVES

Maintain fluid in the hose for the next cutting operation, thus reducing dry cutting • Helps eliminate fluid dripping from the hose after the pump is shut off • Designed for short cycles between pallet changes or tool changes.

### 10. CIRCLE FLOW NOZZLE KITS & SIDE FLOW NOZZLES

Allows the user to completely encircle the cutter • Side Flow Nozzles can be added or subtracted to accommodate different size cutters • Side Flow Nozzles can be arranged in a long straight manifold

### 11. $\frac{1}{4}$ " SOCKET X $\frac{1}{8}$ " FNPT

Allows users to screw on a specialty nozzle



### 12. SWIVEL NOZZLES

Adjustable spray head features 40° range of motion over flared base • Evenly spaced holes for even distribution of liquids or air • Offset head design directs air or fluid parallel to the cutting surface

### 13. T FITTINGS

Connects 2 hoses from one source in a 90° configuration • Adds an additional outlet to Modular Manifolds • Boss allows easy mounting for additional hose support

### 14. FLAT NOZZLES

Provides a thin flat pattern for precise directional control of air or fluids • Available with slots or holes

### 15. HOSE ADAPTERS






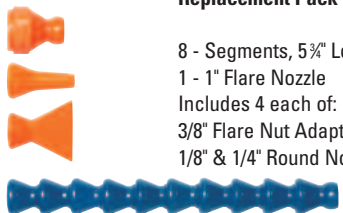









Allows larger ID hoses to be reduced to smaller ID systems. •  $\frac{3}{4}$ " to  $\frac{1}{2}$ " or  $\frac{1}{2}$ " to  $\frac{1}{4}$ "

### 16. STRAIGHT FLOW NOZZLES











Nozzles designed to optimize an even flow pattern over a wide area while reducing build-up at the nozzle edges.

# 1/4" SYSTEM

## 1/4" INSIDE DIAMETER

Part No.	Description	Part No.	Description	Part No.	Description
<b>40413</b>	<b>1/4" Hose Kit 13" Length with Fittings</b>  2 - Segments, 5 3/4" Long 1/4", 1/8", 1/16" Nozzles 1/4" & 1/8" NPT Connectors		<b>1/4" Segment Pack</b>  <b>41401</b> 2 - Segments, 5 3/4" Long <b>49420</b> Bulk 25 ft., 55 Segments <b>49421</b> 1/4" 50 Foot Coil • 1 Segment = 10 Elements		<b>1/8" NPT Connector</b>  <b>41405</b> pack of 4 <b>49425</b> pack of 50
<b>40452</b>	<b>1/4" Flared Tubing Replacement Pack</b>  8 - Segments, 5 3/4" Long 1 - 1" Flare Nozzle Includes 4 each of: 3/8" Flare Nut Adapters 1/8" & 1/4" Round Nozzles	 ← 3.69" →	<b>1/4" Extended Element</b>  <b>41476</b> pack of 4 <b>49445</b> pack of 20		<b>1/8" BSPT* Connector</b>  <b>41417</b> pack of 4 <b>49437</b> pack of 50 * British Standard Pipe Thread
			<b>1/4" Element Clamp</b>  <b>41477</b> pack of 4 (w/ screws) <b>49446</b> pack of 20 (w/ screws)		<b>1/4" NPT Connector</b>  <b>41406</b> pack of 4 <b>49426</b> pack of 50
			<b>1/16" Round Nozzle</b>  <b>41402</b> pack of 4 <b>49422</b> pack of 50		<b>1/4" BSPT* Connector</b>  <b>41418</b> pack of 4 <b>49438</b> pack of 50 * British Standard Pipe Thread
			<b>1/8" Round Nozzle</b>  <b>41403</b> pack of 4 <b>49423</b> pack of 50		<b>1/4" Y Fitting</b>  <b>41408</b> pack of 2 <b>49428</b> pack of 20
			<b>1/4" Round Nozzle</b>  <b>41404</b> pack of 4 <b>49424</b> pack of 50		<b>1/4" Double Socket</b>  <b>41409</b> pack of 4 <b>49429</b> pack of 20
			<b>1/16" 90° Nozzle</b>  <b>41470</b> pack of 4 <b>49439</b> pack of 20		<b>1/4" Socket to 1/8" FNPT</b>  <b>41411</b> pack of 4 <b>49431</b> pack of 20
<b>41474</b>	<b>1/4" 90° Nozzle Kit</b>  1 Each: 1/16", 1/8", 1/4" & 1/4" Spray Bar Nozzles		<b>1/8" 90° Nozzle</b>  <b>41471</b> pack of 4 <b>49440</b> pack of 20		<b>3/8" SAE Flare Nut Adapter</b>  <b>41412</b> pack of 4 <b>49432</b> pack of 20 • 5/8 - 18 Thread
 ← 3.69" →	<b>41475</b> <b>1/4" Extended Element Kit with Element Clamps</b>  Includes 4 each of: 1/4" Extended Elements 1/4" Element Clamps		<b>1/4" 90° Nozzle</b>  <b>41472</b> pack of 4 <b>49441</b> pack of 20		<b>1/4" SAE Flare Nut Adapter</b>  <b>41414</b> pack of 4 <b>49434</b> pack of 20 • 7/16 - 20 Thread
<b>41479</b>	<b>1/4" Circle Flow Nozzle Kit</b>  Assembled with 15 Side Flow Nozzles 1/4" & 1 End Cap 1/4" • Overall Length = 17.56"		<b>1/4" 90° Spray Bar Nozzle</b>  <b>41473</b> pack of 2 <b>49442</b> pack of 20		<b>1/4" Elbow Fitting</b>  <b>41415</b> pack of 2 <b>49435</b> pack of 20
			<b>1" Flare Nozzle</b>  <b>41407</b> pack of 2 <b>49427</b> pack of 20		



Part No.	Description
 <b>41416</b> <b>49436</b>	<b>1/4" T Fitting</b> pack of 2 pack of 20
 <b>41478</b> <b>49443</b>	<b>1/4" Side Flow Nozzle</b> pack of 4 pack of 20
 <b>41480</b> <b>49447</b>	<b>1/4" End Cap</b> pack of 4 pack of 20
 <b>41481</b> <b>49449</b>	<b>1/4" Swivel Nozzle 40</b> pack of 2 pack of 20 • .040" Hole diameter
 <b>41482</b> <b>49450</b>	<b>1/4" Swivel Nozzle 60</b> pack of 2 pack of 20 • .060" Hole diameter
 <b>41488</b> <b>49455</b>	<b>2/4" Swivel Nozzle 75</b> pack of 2 pack of 20 • .075" Hole diameter
 <b>41489</b> <b>49456</b>	<b>1" Straight Flow Nozzle</b> pack of 2 pack of 20
 <b>21192</b> <b>29452</b>	<b>1/4" Male NPT Valve*</b> pack of 2 pack of 10
 <b>21193</b> <b>29453</b>	<b>1/4" Female NPT Valve*</b> pack of 2 pack of 10
 <b>21194</b> <b>29454</b>	<b>1/4" In-Line Valve*</b> pack of 2 pack of 10

Part No.	Description
 <b>21191</b> <b>29451</b>	<b>In-Line Check Valve</b> pack of 2 pack of 10
 <b>41483</b> <b>49451</b>	<b>1/4" Flat Slot 40 Nozzle</b> pack of 4 pack of 20 • .040" Slot height
 <b>41484</b> <b>49452</b>	<b>1/4" Flat Slot 60 Nozzle</b> pack of 4 pack of 20 • .060" Slot height
 <b>41485</b> <b>49453</b>	<b>1/4" Flat 5 Hole Nozzle</b> pack of 4 pack of 20 • .060" Hole diameter
 <b>41486</b> <b>49454</b>	<b>1/4" Flat 7 Hole Nozzle</b> pack of 4 pack of 20 • .040" Hole diameter

Part No.	Description
 <b>41487</b>	<b>1/4" Flat Nozzle Assortment Pack</b>  Includes one each of: Flat Slot 40 Nozzle Flat Slot 60 Nozzle Flat 5 Hole Nozzle Flat 7 Hole Nozzle
 <b>41490</b>	<b>1/4" Nozzle-Rama Pack</b>  One of each nozzle for 1/4" hose system. (16 nozzles)
 <b>78001</b> <b>78003</b>	<b>1/4" Hose Assembly Pliers</b>  one 1/4" pliers 1/4" & 1/2" Pliers Set • 1/4" Assembly Pliers will not assemble part numbers 41411 and 49431.

**\* 1/4" Valve Specifications**

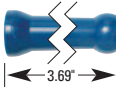




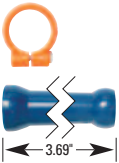



















- Full 1/4" inside diameter
- Maximum Working Pressures:  
1/4" Hose: 30 PSI  
1/4" In-Line Valve: 30 PSI  
1/4" Male and Female NPT Valves: 100 PSI  
(1/4" Hose limits most applications to 30 PSI)
- Body and stem material: Acetal Copolymer  
Stem seal: Nitrile (Buna N)
- 1/4 turn shut off

**ASSEMBLY TIP:**  
Assembly can be made easier by first rubbing the Loc-Line ball with your fingers and then using the pliers.

**DIMENSIONAL INFORMATION FOR THE 1/4" SYSTEM ON PAGE 17**

# 1/2" SYSTEM

## 1/2" INSIDE DIAMETER

Part No.	Description	Part No.	Description	Part No.	Description
<b>50813</b>	<b>1/2" Hose Kit</b> 13" Length with Fittings: 2 - Segments, 5 1/2" Long 1/4", 3/8", 1/2" Nozzles 3/8" & 1/2" NPT Connectors	 <b>51833</b> <b>59883</b>	<b>1/2" Extended Element</b> pack of 4 pack of 20	 <b>51804</b> <b>59864</b>	<b>3/8" NPT Connector</b> pack of 4 pack of 50
	<b>51832</b> <b>1/2" 90° Nozzle Kit</b> 1 Each: 1/4", 3/8", 1/2" & Spray Bar Nozzles	 <b>51834</b> <b>59884</b>	<b>1/2" Element Clamp</b> pack of 4 (w/ screws) pack of 20 (w/ screws)	 <b>51826</b> <b>59876</b>	<b>3/8" BSPT* Connector</b> pack of 4 pack of 50 * British Standard Pipe Thread
	<b>51835</b> <b>1/2" Extended Element Kit with Element Clamps</b> Includes 4 each of: 1/2" Extended Elements 1/2" Element Clamps	 <b>51806</b> <b>59866</b>	<b>1/4" Round Nozzle for 1/2"</b> pack of 4 pack of 50	 <b>51805</b> <b>59865</b>	<b>1/2" NPT Connector</b> pack of 4 pack of 50
	<b>51837</b> <b>1/2" Circle Flow Nozzle Kit</b> Assembled with 15 Side Flow Nozzles 1/2" & 1 End Cap 1/2" • Overall Length = 24.375"	 <b>51802</b> <b>59862</b>	<b>3/8" Round Nozzle</b> pack of 4 pack of 50	 <b>51827</b> <b>59877</b>	<b>1/2" BSPT* Connector</b> pack of 4 pack of 50 * British Standard Pipe Thread
	<b>1/2" Segment Pack</b> <b>51801</b> 2 - Segments, 5 1/2" Long <b>59860</b> Bulk 25 ft., 59 Segm'ts <b>59861</b> 1/2" 50 Foot Coil • 1 Segment = 6 Elements	 <b>51803</b> <b>59863</b>	<b>1/2" Round Nozzle</b> pack of 4 pack of 50	 <b>51808</b> <b>59868</b>	<b>1/2" Y Fitting</b> pack of 2 pack of 20
		 <b>51828</b> <b>59878</b>	<b>1/4" 90° Nozzle</b> pack of 4 pack of 20	 <b>51822</b> <b>59870</b>	<b>1/2" to 1/4" Y Reducer</b> pack of 2 pack of 20
		 <b>51829</b> <b>59879</b>	<b>3/8" 90° Nozzle</b> pack of 4 pack of 20	 <b>51821</b> <b>59869</b>	<b>1/2" to 1/4" Adapter</b> pack of 2 pack of 20
		 <b>51830</b> <b>59880</b>	<b>1/2" 90° Nozzle</b> pack of 4 pack of 20	 <b>51811</b> <b>59872</b>	<b>1/2" Double Socket</b> pack of 4 pack of 20
		 <b>51831</b> <b>59881</b>	<b>1/2" 90° Spray Bar Nozzle</b> pack of 2 pack of 20	 <b>51823</b> <b>59873</b>	<b>3/8" SAE Flare Nut Adapter</b> pack of 4 pack of 20 • 5/8 - 18 Thread
		 <b>51807</b> <b>59867</b>	<b>1" Flare Nozzle</b> pack of 2 pack of 20	 <b>51824</b> <b>59874</b>	<b>1/2" Elbow Fitting</b> pack of 2 pack of 20
		 <b>51809</b> <b>59871</b>	<b>2" Flare Nozzle</b> pack of 2 pack of 20		

Part No.	Description
	<b>1/2" T Fitting</b> 51825 pack of 2 59875 pack of 20
	<b>1/2" Side Flow Nozzle</b> 51836 pack of 4 59889 pack of 20
	<b>1/2" End Cap</b> 51838 pack of 4 59885 pack of 20
	<b>2 1/2" Swivel Nozzle 75 for 1/2"</b> 51845 pack of 2 59895 pack of 20 • .075" Hole diameter
	<b>1/2" In-Line Check Valve</b> 32091 pack of 2 39851 pack of 10
	<b>1/4" Straight Flow Nozzle</b> 51847 pack of 2 59897 pack of 20
	<b>1 1/8" Straight Flow Nozzle</b> 51848 pack of 2 59898 pack of 20
	<b>1/2" Nozzle-Rama Pack</b> 51849 One of each nozzle for 1/2" hose system. (16 nozzles)

Part No.	Description
	<b>1/2" Male NPT Valve*</b> 32092 pack of 2 39852 pack of 10
	<b>1/2" Female NPT Valve*</b> 32093 pack of 2 39853 pack of 10
	<b>1/2" In-Line Valve*</b> 32094 pack of 2 39854 pack of 10
<p><b>* 1/2" Valve Specifications</b></p> <ul style="list-style-type: none"> <li>• Full 1/2" inside diameter</li> <li>• Maximum Working Pressures: 1/2" Hose: 20 PSI 1/2" In-Line Valve: 20 PSI 1/2" Male and Female NPT Valves: 100 PSI (1/2" Hose limits most applications to 20 PSI)</li> <li>• Body and stem material: Acetal Copolymer</li> <li>• Stem seal: Nitrile (Buna N)</li> <li>• 1/4 turn shut off</li> </ul>	
	<b>1/2" Hose Assembly Pliers</b> 78002 one 1/2" pliers 78003 1/4" & 1/2" pliers set
<p><b>ASSEMBLY TIP:</b> Assembly can be made easier by first rubbing the Loc-Line ball with your fingers and then using the pliers.</p>	

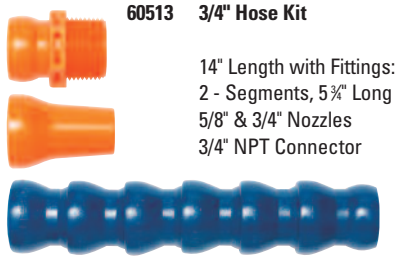
Part No.	Description
	<b>1/2" Flat Slot 80 Nozzle</b> 51840 pack of 4 59890 pack of 20 • .080" Slot height
	<b>1/2" Flat Slot 125 Nozzle</b> 51841 pack of 4 59891 pack of 20 • .125" Slot height
	<b>1/2" Flat 5 Hole Nozzle</b> 51842 pack of 4 59892 pack of 20 • .125" Hole diameter
	<b>1/2" Flat 7 Hole Nozzle</b> 51843 pack of 4 59893 pack of 20 • .080" Hole diameter
	<b>1/2" Flat Nozzle Assortment</b> 51844 Includes one each of: Flat Slot 80 Nozzle Flat Slot 125 Nozzle Flat 5 Hole Nozzle Flat 7 Hole Nozzle
	<b>1/2" Fixed Mount</b> 51895 pack of 2 59896 pack of 20 • Mounts with 1/4" bolt, not included.
	<b>1/2" Magnetic Base</b> 51846 pack of 1 • 60# holding force

**DIMENSIONAL INFORMATION FOR THE 1/2" SYSTEM ON PAGE 18**

# 3/4" SYSTEM & SHIELDS

3/4" INSIDE DIAMETER

Part No. Description



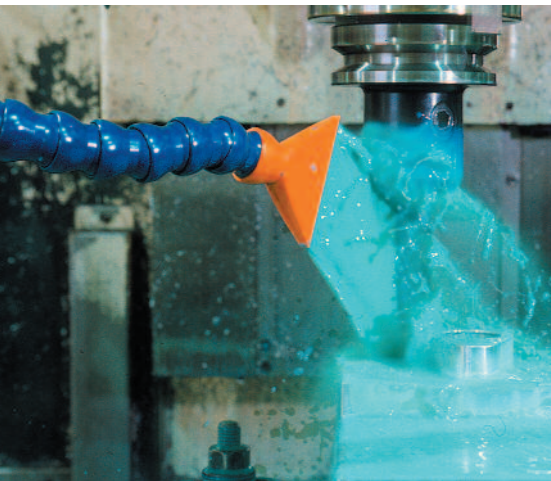
**60513 3/4" Hose Kit**

14" Length with Fittings:  
2 - Segments, 5 3/4" Long  
5/8" & 3/4" Nozzles  
3/4" NPT Connector

**3/4" Segment Pack**



**61501** 2 - Segments, 5 3/4" Long  
**69540** Bulk 25 ft., 54 Segm'ts  
**69541** 3/4" 50 Foot Coil  
• 1 Segment = 6 Elements



**5/8" Round Nozzle**



**61503** pack of 4  
**69543** pack of 50

**3/4" Round Nozzle**



**61502** pack of 4  
**69542** pack of 50

**3" Flare Nozzle**



**61507** pack of 2  
**69547** pack of 20

**\* 3/4" Valve Specifications**

- Full 3/4" inside diameter
- Maximum Working Pressures:  
3/4" Hose: 10 PSI  
3/4" In-Line Valve: 10 PSI  
3/4" Male and Female NPT Valves: 50 PSI  
(3/4" Hose limits most applications to 10 PSI)
- Body and stem material: Acetal Copolymer  
Stem seal: Nitrile (Buna N)
- 1/4 turn shut off

Part No. Description



**3/4" NPT Connector**

**61505** pack of 4  
**69545** pack of 50



**3/4" BSPT\* Connector**

**61509** pack of 4  
**69549** pack of 50  
\* British Standard Pipe Thread



**3/4" Y Fitting**

**61511** pack of 2  
**69551** pack of 20



**3/4" to 1/2" Y Reducer**

**61512** pack of 2  
**69552** pack of 20



**3/4" to 1/2" Adapter**

**61508** pack of 2  
**69548** pack of 20



**3/4" Double Socket**

**61514** pack of 4  
**69554** pack of 20



**3/4" Elbow**

**61515** pack of 2  
**69555** pack of 20



**3/4" Male NPT Valve\***

**61516** pack of 2  
**69556** pack of 10



**3/4" Female NPT Valve\***

**61517** pack of 2  
**69557** pack of 10



**3/4" In-line Valve\***

**61518** pack of 2  
**69558** pack of 10

Part No. Description

## SHIELDS AND ACCESSORIES

Provides protection from flying chips and splashing fluids • Shield rotates 360 degrees  
• Two mounting options include a movable magnetic base or a direct mount • 1/8" thick polycarbonate • Filled magnetic base prevents chip entrapment



**Loc-Set Shield™ Kit**

6" Shield Kit  
8" Shield Kit  
10" Shield Kit  
12" Shield Kit

Shield Kits include:  
• Loc-Line® hose  
• Loc-Line® arm, magnetic base and fitting for fixed mounting.

**Replacement Shield**

**60528** 6"x8" Shield  
**60529** 7 1/2"x10" Shield  
**60530** 8 1/2"x12" Shield

**Shield Mounting Elbow**



**60531** pack of 2  
• Washer and screw included.

**3/4" Magnetic Base**



**60532** pack of one  
• 60# holding force

**3/4" Fixed Mount**



**60533** pack of 2  
• Mounts with 1/4" bolt, not included.



**3/4" Hose Assembly Pliers**

**78004** pack of one  
• 3/4" Assembly Pliers will not assemble the 3/4" Y Fitting, the 3/4" Fixed Mount or the 3/4" Valves.

**ASSEMBLY TIP:**

Assembly can be made easier by first rubbing the Loc-Line ball with your fingers and then using the pliers.

# MODULAR MANIFOLDS

Part No. Description

Part No. Description

Part No. Description

## MODULAR MANIFOLDS & TOTAL FLOW CONTROL MANIFOLDS

Distribute coolant from one inlet to multiple outlets • Number of outlets can be changed simply by popping T fittings in or out of the assembly • Adding valves to a Modular Manifold creates the Total Flow Control Manifold • Regulate the flow from each line independently • Shut off any unnecessary lines

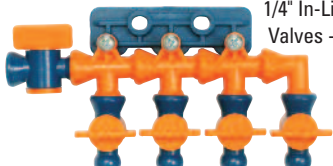
### 21199 1/4" Modular Manifold

1/4" T Fittings - 3 pcs  
1/4" Elbow Fitting - 1 pc  
1/4" Man. Bracket - 1 pc  
Mounting Screws - 3 pcs



### 21198 1/4" Total Flow Control Manifold

1/4" Mod. Manifold - 1 pc  
1/4" In-Line Valves - 5 pcs



### 1/4" Modular Manifold Brackets

21195 pack of 2

### 1/4" Elbow Fitting



41415 pack of 2  
49435 pack of 20

### 1/4" T Fitting



41416 pack of 2  
49436 pack of 20

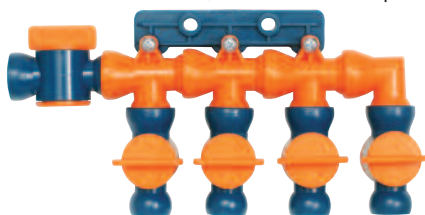
### 32099 1/2" Modular Manifold

1/2" T Fittings - 3 pcs  
1/2" Elbow Fitting - 1 pc  
1/2" Man. Bracket - 1 pc  
Mounting Screws - 3 pcs



### 32098 1/2" Total Flow Control Manifold

1/2" Modular Manifold - 1 pc  
1/2" In-Line Valves - 5 pcs



### 1/2" Modular Manifold Bracket

32095 pack of 2



### 1/2" Elbow Fitting

51824 pack of 2  
59874 pack of 20



### 1/2" T Fitting

51825 pack of 2  
59875 pack of 20

## MAGNETIC BASE MANIFOLD

Magnetic Manifold allows distribution of coolant through 4 separate openings from one source • Magnet can mount on spindle or worktable for convenient access to the work piece • 1/4" ports accept any 1/4" standard fitting.

### 40480 Magnetic Base Manifold Super Kit



1/4" Segments - 8 pcs  
1/4" MNPT Valves - 5 pcs  
1" Flare Nozzle - 2 pcs  
1/4" Round Nozzle - 2 pcs  
1/8" Round Nozzle - 2 pcs  
1/16" Round Nozzle - 2 pcs  
Mag. Base Manifold - 1 pc  
1/4" Plug - 2 pcs  
1/4" Barb Fitting - 1 pc

### 40463 Magnetic Base Manifold Kit



1/4" Segments - 2 pcs  
1/4" MNPT Valves - 1 pc  
1" Flare Nozzle - 1 pc  
1/4" Round Nozzle - 1 pc  
1/8" Round Nozzle - 1 pc  
1/16" Round Nozzle - 1 pc  
Mag. Base Manifold - 1 pc  
1/4" Plug - 3 pcs  
1/4" Barb Fitting - 1 pc

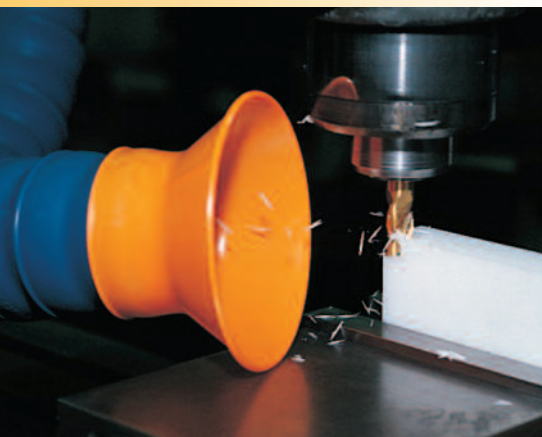
### 40400 Magnetic Base Manifold



1/4" Plug - 3 pcs

**DIMENSIONAL INFORMATION FOR THE 3/4" SYSTEM AND MANIFOLDS ON PAGE 19**

# VACUUM HOSE



The LOC-LINE® 2½" Vacuum Hose is designed to be added to an existing central vacuum system to extract smoke, dust, fumes and particles at the source. It is easy to position within a work area and can be mounted to 3" thin walled PVC drain pipe, 3" sheet metal duct, or a portable shop vacuum.

## VACUUM HOSE APPLICATIONS

- Soldering
- Wet Grinding
- Machining applications; especially mist, graphite and particles
- Chemical odors and fumes (except acids)
- Woodworking

## VACUUM HOSE FEATURES

Create a custom vacuum hose by changing the length or the nozzle. Pop together the appropriate number of elements and choose the nozzle best suited for your application.

- Hand adjustable in 360°.
- Simple to reposition. It is self-supporting up to 3 feet so it stays where you put it.
- Durable, will not fray and is resistant to crushing.
- Made of premium grade acetal copolymer and is resistant to most chemicals.
- Tight turns are easy with a bending radius of 5.75".
- Anti-static hose is perfect for applications that require rapid dissipation of static build-up.

## TEMPERATURE SPECIFICATIONS

- Melting point: 329°F
- Maximum operating temperature: 170°F

## ANTI-STATIC HOSE ELECTRICAL PROPERTIES

- Surface Resistivity: 1.000E3 Ohm
- Volume Resistivity: <6.000E2 Ohm-cm

## CAUTION

*LOC-LINE® Vacuum Hose is made from an acetal copolymer. This material is not fire retardant and would pose a fire hazard if the material is subjected to an application where high temperatures or flames exist.*

*The Anti-Static Hose must be used within a completely grounded system.*



**NEW BLACK "ANTI-STATIC" VACUUM HOSE DISSIPATES STATIC BUILD-UP.**

Part No. Description

**Vacuum Segment Packs**

- 81201** 9 elements 2.5" ID
- 81301AS** anti-static, 9 elm'ts (1 foot segment)
- 81202** 18 elements 2.5" ID
- 81302AS** anti-static, 18 elm'ts (2 - one foot segments)
- 89220** 180 elements 2.5" ID
- 89320AS** anti-static, 180 elm'ts (20 - one foot segments)



**4.5" Round Nozzle**

- 81203** pack of 1
- 81303AS** anti-static, pack of 1
- 89223** pack of 10
- 89323AS** anti-static, pack of 10



**6"x3.5" Rectangular Nozzle**

- 81204** pack of 1
- 81304AS** anti-static, pack of 1
- 89224** pack of 10
- 89324AS** anti-static, pack of 10



**Tapered Oval Nozzle**

- 81205** pack of 1
- 81305AS** anti-static, pack of 1
- 89225** pack of 10
- 89325AS** anti-static, pack of 10



**3" PVC Adapter**

- 81206** pack of 1
- 89226** pack of 10
- \* Not available in "anti-static"



**3" Sheet Metal Duct Adapter**

- 81207** pack of 1
- 81307AS** anti-static, pack of 1
- 89227** pack of 10
- 89327AS** anti-static, pack of 10



**2.5" Slide Valve**

- 81208** pack of 1
- 81308AS** anti-static, pack of 1
- 89228** pack of 10
- 89328AS** anti-static, pack of 10



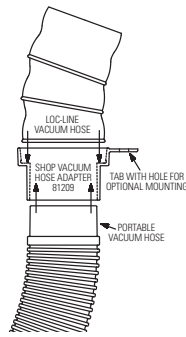
**Shop Vacuum Hose Adapter with mounting tab**

- 81209** pack of 1
- 89229** pack of 10

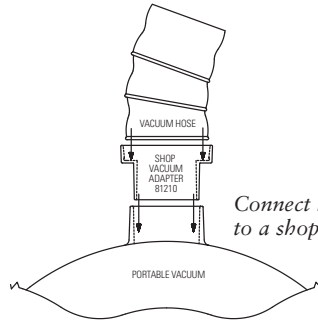


**Shop Vacuum Adapter**

- 81210** pack of 1
- 89230** pack of 10



Connect hose directly to a standard shop vacuum hose

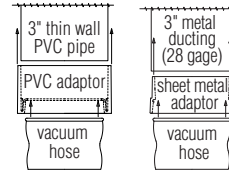


Connect hose directly to a shop vacuum

**MOVE YOUR DUST COLLECTION TO THE SOURCE**



Hose connects to 3" metal duct or PVC pipe using Loc-Line adapters



VACUUM SEGMENT 81201	RECTANGULAR NOZZLE 81204	SLIDE VALVE 81208
TAPERED OVAL NOZZLE 81205	ROUND NOZZLE 81203	SHOP VACUUM ADAPTER 81210
PVC ADAPTER 81206	SHEET METAL DUCT ADAPTER 81207	SHOP VACUUM HOSE ADAPTER WITH MOUNTING TAB 81209
<p>ALL SIZES ARE APPROXIMATE</p>	<p>ALL SIZES ARE APPROXIMATE</p>	

# ACID RESISTANT HOSE & TEFEN FITTINGS

**Part No. Description**

**1/4" ACID RESISTANT HOSE**

- 45463 1/4" Acid Resistant Hose Kit
- 45401 1/4" Acid Resistant Segm't Pack, (2 Segments, 5 3/4" Long)
- 46420 1/4" Acid Resistant Segm'ts, Bulk 25 ft.
- 46421 1/4" 50 Foot Acid Resistant Coil
- 45402 1/16" Acid Resistant Nozzles, pack of 4
- 46422 1/16" Acid Resistant Nozzles, pack of 50
- 45403 1/8" Acid Resistant Nozzles, pack of 4
- 46423 1/8" Acid Resistant Nozzles, pack of 50
- 45404 1/4" Acid Resistant Nozzles, pack of 4
- 46424 1/4" Acid Resistant Nozzles, pack of 50
- 45407 1" Acid Resistant Flares, pack of 2
- 46427 1" Acid Resistant Flares, pack of 20
- 45405 1/8" Acid Resistant NPTs, pack of 4
- 46425 1/8" Acid Resistant NPTs, pack of 50
- 45406 1/4" Acid Resistant NPTs, pack of 4
- 46426 1/4" Acid Resistant NPTs, pack of 50
- 45408 1/4" Acid Resistant Y Fittings, pack of 2
- 46428 1/4" Acid Resistant Y Fittings, pack of 20
- 45409 1/4" Acid Resistant Double Socket, pack of 4
- 46429 1/4" Acid Resistant Double Socket, pack of 20
- 45411 1/4" Socket to 1/8" FNPT Acid Resistant, pack of 4
- 46431 1/4" Socket to 1/8" FNPT Acid Resistant, pack of 20
- 45415 1/4" Acid Resistant Elbows, pack of 2
- 46435 1/4" Acid Resistant Elbows, pack of 20
- 45416 1/4" Acid Resistant T Fittings, pack of 2
- 46436 1/4" Acid Resistant T Fittings, pack of 20
- 45481 1/4" Acid Resistant Swivel Nozzle 40, pack of 2
- 46449 1/4" Acid Resistant Swivel Nozzle 40, pack of 20
- 45482 1/4" Acid Resistant Swivel Nozzle 60, pack of 2
- 46450 1/4" Acid Resistant Swivel Nozzle 60, pack of 20

**Part No. Description**


**1/2" ACID RESISTANT HOSE**

- 56863 1/2" Acid Resistant Hose Kit
- 56801 1/2" Acid Resistant Segment Pack, (2 Segments, 5 1/2" Long)
- 57860 1/2" Acid Resistant Segm'ts, Bulk 25 ft.
- 57861 1/2" 50 Foot Acid Resistant Coil
- 56806 1/4" Acid Resistant Nozzles, pack of 4
- 57866 1/4" Acid Resistant Nozzles, pack of 50
- 56802 3/8" Acid Resistant Nozzles, pack of 4
- 57862 3/8" Acid Resistant Nozzles, pack of 50
- 56803 1/2" Acid Resistant Nozzles, pack of 4
- 57863 1/2" Acid Resistant Nozzles, pack of 50
- 56804 3/8" Acid Resistant NPTs, pack of 4
- 57864 3/8" Acid Resistant NPTs, pack of 50
- 56805 1/2" Acid Resistant NPTs, pack of 4
- 57865 1/2" Acid Resistant NPTs, pack of 50
- 56807 1 1/4" Acid Resistant Flare Nozzles, pack of 2
- 57867 1 1/4" Acid Resistant Flare Nozzles, pack of 20
- 56808 1/2" Acid Resistant Y Fittings, pack of 2
- 57868 1/2" Acid Resistant Y Fittings, pack of 20
- 56821 1/2" to 1/4" Acid Resistant Adapter, pack of 2
- 57869 1/2" to 1/4" Acid Resistant Adapter, pack of 20
- 56822 1/2" to 1/4" Acid Resistant Y Reducer, pack of 2
- 57870 1/2" to 1/4" Acid Resistant Y Reducer, pack of 20
- 56824 1/2" Acid Resistant Elbows, pack of 2
- 57874 1/2" Acid Resistant Elbows, pack of 20
- 56825 1/2" Acid Resistant T Fittings, pack of 2
- 57875 1/2" Acid Resistant T Fittings, pack of 20

- Loc-Line® Acid Resistant Hose is excellent for rinsing cycles in plating operations.
  - Acid environments won't corrode the Loc-Line® Acid Resistant Hose because of its polyester composition.
- CAUTION:** Loc-Line® Acid Resistant Hose is not intended for conveying acids or high pressure applications.

**Part No. Description**

**TEFEN™ THREADED COUPLINGS & REDUCERS**

 These items change male fittings to female threads. Tefen™ products are made in Israel.

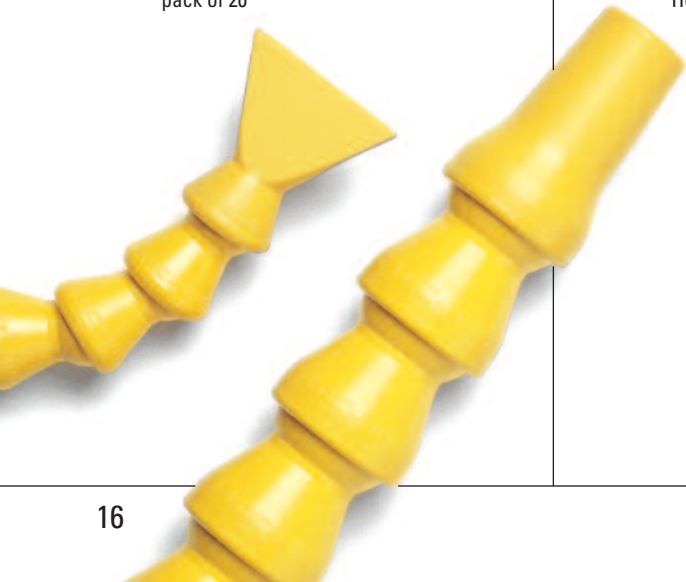
- 40656 1/8" Female Pipe Couplings, pack of 4
- 41756 1/8" Female Pipe Couplings, pack of 20
- 40657 1/4" Female Pipe Couplings, pack of 4
- 41757 1/4" Female Pipe Couplings, pack of 20
- 50660 3/8" Female Pipe Couplings, pack of 4
- 51760 3/8" Female Pipe Couplings, pack of 20
- 50661 1/2" Female Pipe Couplings, pack of 4
- 51761 1/2" Female Pipe Couplings, pack of 20



- 40655 1/4" to 1/8" Female Pipe Reducers, pack of 4
- 41755 1/4" to 1/8" Female Pipe Reducers, pack of 20
- 50658 3/8" to 1/4" Female Pipe Reducers, pack of 4
- 51758 3/8" to 1/4" Female Pipe Reducers, pack of 20
- 50659 1/2" to 1/4" Female Pipe Reducers, pack of 4
- 51759 1/2" to 1/4" Female Pipe Reducers, pack of 20

**Common Compatibility with Polyester Products  
Acid Resistant Loc-Line® Yellow Color**

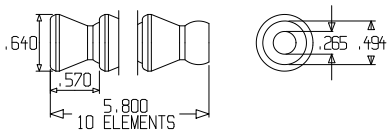

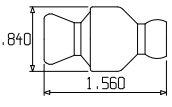
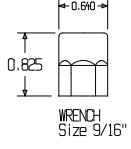
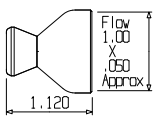
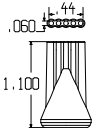
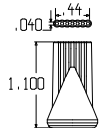
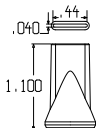
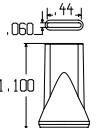
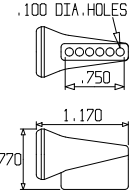
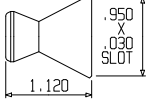
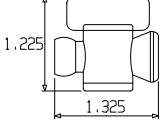
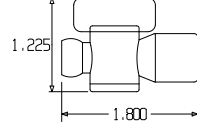
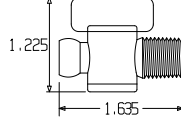
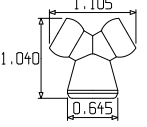
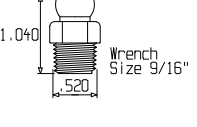
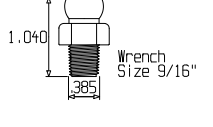
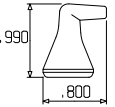
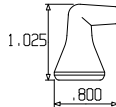
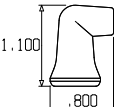
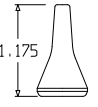
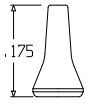
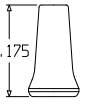
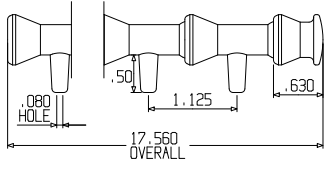
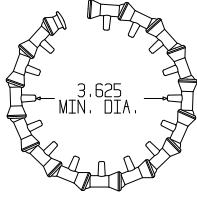
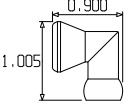
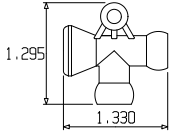

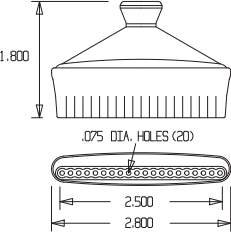
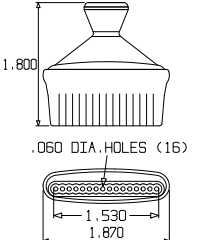
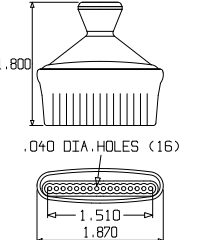
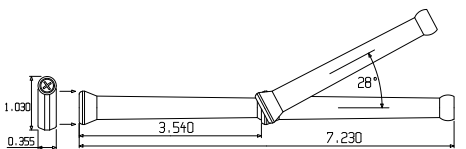
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	Yes	Acids, (Less than 150° F)
No		Acids, (Greater than 150° F)
	Yes	Alcohols
	Yes	Aromatic Solvents
No		Chlorinated Hydrocarbon
No		Bases, Strong
No		Ethyl Acetate
	Yes	Gasoline
	Yes	Greases
	Yes	Hydrocarbons
	Yes	Oils
	Yes	Salt Solutions
No		Water (Greater than 150° F)





# SPECIFICATIONS

# 1/4" SYSTEM

<b>1/4" SEGMENT</b> 41401 		<b>1/4" HOSE</b> MINIMUM DIAMETER 		<b>1/4" IN-LINE CHECK VALVE</b> 21191 		<b>1/4" SOCKET TO 1/8" FNPT</b> 41411 		<b>1" STRAIGHT FLOW NOZZLE</b> 41489 			
<b>1/4" FLAT 5 HOLE NOZZLE</b> 41485 	<b>1/4" FLAT 7 HOLE NOZZLE</b> 41486 	<b>1/4" FLAT SLOT 40 NOZZLE</b> 41483 	<b>1/4" FLAT SLOT 60 NOZZLE</b> 41484 	<b>1/4" 90° SPRAY BAR NOZZLE</b> 41473 		<b>1" FLARE NOZZLE</b> 41407 					
<b>1/4" IN-LINE VALVES</b> 21194 		<b>1/4" FEMALE NPT VALVE</b> 21193 		<b>1/4" MALE NPT VALVE</b> 21192 		<b>1/4" Y FITTING</b> 41408 		<b>1/4" NPT CONNECTOR</b> 41406 		<b>1/8" NPT CONNECTOR</b> 41405 	
<b>1/16" 90° NOZZLE</b> 41470 		<b>1/8" 90° NOZZLE</b> 41471 		<b>1/4" 90° NOZZLE</b> 41472 		<b>1/16" ROUND NOZZLE</b> 41402 		<b>1/8" ROUND NOZZLE</b> 41403 		<b>1/4" ROUND NOZZLE</b> 41404 	
<b>1/4" CIRCLE FLOW ASSEMBLY</b> 41479 				<b>1/4" CIRCLE FLOW ASSEMBLY</b> 41479 		<b>1/4" ELBOW FITTING</b> 41415 		<b>1/4" T FITTING</b> 41416 		<b>1/4" DOUBLE SOCKET</b> 41409 	
<b>SWIVEL NOZZLE 75</b> 41488 				<b>SWIVEL NOZZLE 60</b> 41482 		<b>SWIVEL NOZZLE 40</b> 41481 		<b>1/4" EXTENDED ELEMENT &amp; CLAMP</b> 41476 & 41477 			

# 1/2" SYSTEM

## SPECIFICATIONS

<b>1/2" SEGMENT 51801</b> 		<b>1/2" HOSE MINIMUM BENDING DIAMETER</b> 		<b>1/2" MALE VALVE 32092</b> 		<b>1/2" FEMALE VALVE 32093</b> 		<b>1/2" IN-LINE VALVE 32094</b> 			
<b>1/2" FLAT SLOT 80 NOZZLE 51840</b> 	<b>1/2" FLAT SLOT 125 NOZZLE 51841</b> 	<b>1/2" FLAT 5 HOLE NOZZLE 51842</b> 	<b>1/2" FLAT 7 HOLE NOZZLE 51843</b> 	<b>1/4" ROUND NOZZLE 51806</b> 		<b>1/4" 90° NOZZLE 51828</b> 					
<b>1/2" DOUBLE SOCKET 51811</b> 		<b>1/2" NPT CONNECTOR 51805</b> 	<b>3/8" NPT CONNECTOR 51804</b> 	<b>1/2" TO 1/4" Y REDUCER 51822</b> 		<b>3/8" ROUND NOZZLE 51802</b> 		<b>3/8" 90° NOZZLE 51829</b> 			
<b>1 1/4" FLARE NOZZLE 51807</b> 		<b>2 1/2" FLARE NOZZLE 51809</b> 		<b>1 1/4" STRAIGHT FLOW NOZZLE 51847</b> 		<b>1 1/4" STRAIGHT FLOW NOZZLE 51848</b> 		<b>1/2" ROUND NOZZLE 51803</b> 		<b>1/2" 90° NOZZLE 51830</b> 	
<b>1/2" CIRCLE FLOW ASSEMBLY 51837</b> 		<b>1/2" ELBOW FITTING 51824</b> 		<b>1/2" T FITTING 51825</b> 		<b>1/2" to 1/4" ADAPTER 51821</b> 		<b>1/2" IN-LINE CHECK VALVE 32091</b> 			
<b>1/2" Y FITTING 51808</b> 		<b>1/2" EXTENDED ELEMENT &amp; CLAMP 51833 &amp; 51834</b> 		<b>1/2" FIXED MOUNT 51895</b> 		<b>2 1/2" SWIVEL NOZZLE 75 51845</b> 		<b>1/2" 90° SPRAY BAR NOZZLE 51831</b> 			

# SPECIFICATIONS

# 3/4" SYSTEM & MANIFOLDS

<b>3/4" SEGMENT 61501</b> 		<b>3/4" HOSE MINIMUM BENDING DIAMETER</b> 	<b>3/4" Y FITTING 61511</b> 	<b>3/4" ELBOW 61515</b> 	<b>3/4" FIXED MOUNT 60533</b> 
<b>3/4" ROUND NOZZLE 61502</b> 	<b>5/8" ROUND NOZZLE 61503</b> 	<b>3/4" DOUBLE SOCKET 61514</b> 	<b>3/4" TO 1/2" Y REDUCER 61512</b> 	<b>1/2" CIRCLE FLOW NOZZLE KIT 51837</b> 	
<b>3/4" NPT CONNECTOR 61505</b> 	<b>3/4" BSPT CONNECTOR 61509</b> 	<b>3/4" to 1/2" ADAPTER 61508</b> 	<b>3" FLARE NOZZLE 61507</b> 	<b>MAGNETIC BASE MANIFOLD 40400</b> 	
<b>3/4" MALE NPT VALVE 61516</b> 	<b>TOTAL FLOW CONTROL MANIFOLD 21198 &amp; 32098</b> <p>TOTAL FLOW CONTROL MANIFOLD DIMENSIONS  A = 1/4" SYSTEM  B = 1/2" SYSTEM</p>				
<b>3/4" FEMALE NPT VALVE 61517</b> 	<b>MODULAR MANIFOLD BRACKET 21195 &amp; 32095</b> <p>DIMENSIONS  A = 1/4" MANIFOLD  B = 1/2" MANIFOLD</p>				
<b>3/4" IN-LINE VALVE 61518</b> 					

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**LOCKWOOD PRODUCTS, INC.**

originated the modular hose concept. The Loc-Line® system is available in four different hose diameters along with a multitude of nozzles, fittings, and accessories suitable to many industrial and commercial applications.



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