CONTENTS

THE LOC-LINE® SYSTEM 4
CUSTOMIZED SOLUTIONS 5
1/4" SYSTEM 6
1/2" SYSTEM 10
3/4" SYSTEM 14
QUICK-SET SHIELD™ 15
2-1/2" SYSTEM 16
HIGH PRESSURE TURRET NOZZLES 18
A WORLD OF POSSIBILITIES 20
TECHNICAL INFORMATION 22

NEW! HIGH PRESSURE TURRET NOZZLES
See page 18 for details
LOC-LINE® is the original modular hose system. Four hose diameters and a multitude of nozzles, fittings and accessories allow for customized solutions suitable for a wide variety of industrial and commercial applications.

Loc-Line® was the answer to an age old problem specific to the machine tool industry: How to easily apply liquid coolant at the point of contact with the cutting tool and the target metal.

The design was simple and elegant. A ball and socket assembly with just enough friction to create a hose that offered unlimited positioning, full coolant flow, would not fatigue, stayed in position and could be customized to the job. Loc-Line was and still is the number one coolant delivery answer for machinists across the globe. Over the years, the adjustable hose concept has expanded way beyond its first task of coolant delivery.

Continued growth has seen the use of Loc-Line expanding into the electronic, scientific, graphic arts and woodworking industries. Almost any situation that requires precise yet adjustable directional flow of fluid, air, vacuum and third arm positioning will find Loc-Line to be the perfect solution. With four hose diameters; 1/4", 1/2", 3/4" and 2½" to accommodate many applications and environments, our customers have become as varied as our hose combinations.

- 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 won’t damage machine tool cutters if contact occurs.
- Loc-Line is electrically non-conductive. It’s ideal for use as an EDM flushing hose.
- Loc-Line 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 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.
HOW DO I GET MY NOZZLE TO RUN COOLANT PARALLEL TO MY WORK? Use our Swivel Nozzles with an adjustable spray head featuring a 40 degree range of motion over the flared base. The evenly spaced holes create an even distribution of coolant or air.

HOW DO I REDUCE DOWN FROM A LARGER SYSTEM? Use our Adapters to reduce down from 3/4” or 1/2” hose systems.

HOW CAN I ATTACH A NON LOC-LINE NOZZLE? Use our 1/4” Socket X 1/8 FNPT to thread in your specialty nozzle.

I NEED MORE PRESSURE; CAN I DO THAT WITH LOC-LINE? Use our Element Clamps to tighten any joints to increase your pressure, reduce dynamic motion and run longer lengths of hose.

HOW CAN I REDUCE THE NUMBER OF JOINTS? Use our Extended Elements or Extended Elbows. You can use them in conjunction with our Clamps for higher pressures.

MY HOSE DRAINS WHILE I CHANGE MY PALLET OR TOOL. HOW CAN I STOP THIS? Use our Check Valves to eliminate dripping while you change your pallet or tool.

HOW DO I PUT A CONNECTOR ON BOTH ENDS? Use a Double Socket to reverse the direction of the hose and add the second connector.

HOW CAN I MAKE QUICK TURNS? Use our 90 Degree Nozzles for a quick turn close to the cutter. 90 Nozzles can also be assembled directly on the NPT for tight spaces.

HOW DO I REGULATE FLOW? Use any of our Valves to regulate coolant or air.

MY COOLANT HEADS TO THE EDGES, HOW CAN I IMPROVE THE DISTRIBUTION? Use our Straight Flow Nozzles designed with a wider center and straight edges to create a uniform flow over the width of the nozzles.

HOW DO I SPREAD FLUID OR AIR OVER A WIDE AREA? Flare Nozzles are the answer, available in four widths to accommodate your application.

HOW CAN I CREATE MULTIPLE OUTPUT LINES FROM ONE SOURCE? Use a Y Fitting to create two or more lines from one. You can also use reducing Y’s to go from a large line to two smaller ones.

HOW DO I REPLACE MY FLARED COPPER TUBING? Use our Flare Nut Fittings. These are especially popular for air applications in printing.

HOW DO I CREATE QUICK TURNS? Use our 90 Degree Nozzles for a quick turn close to the cutter. 90 Nozzles can also be assembled directly on the NPT for tight spaces.

HOW DO I REPLACE MY FLARED COPPER TUBING? Use our Flare Nut Fittings. These are especially popular for air applications in printing.
### Kits

#### 1/4" Hose Kit
- **40413**
  - 2) 5¾" Long Segments
  - 1) 1/4" Round Nozzle
  - 1) 1/8" Round Nozzle
  - 1) 1/16" Round Nozzle
  - 1) 1/4" NPT Connector
  - 1) 1/8" NPT Connector
- *Assembled Length = 13"

#### 1/4" Flared Tubing Replacement Pack
- **40452**
  - 8) 5¾" Long Segments
  - 1) 1" Flare Nozzle
  - 4) 3/8" Flare Nut Adapters
  - 4) 1/8" Round Nozzles
  - 4) 1/4" Round Nozzles

#### Haas Lathe Adapter Kit
- **40475**
  - 4) Haas Short Adapters
  - 4) Haas 2" Adapters
  - 2) Flat 5-Hole Nozzles
  - 2) Flat Slot 60 Nozzles
  - 2) 1/8" 90º Nozzles
  - 2) 1/4" 90º Nozzles
  - 2) Straight Flow Nozzles
  - 4) Element Clamps w/ screws
  - 8) Elements
  - 1) 1/4" Assembly Pliers

#### 1/4" Extended Elbow Kit
- **40472**
  - 4) Extended Elbows
  - 4) Element Clamps w/ screws
  - 1) 1/8" NPT Connector
  - 1) 1/4" NPT Connector
  - 1) 1/16" Round Nozzle
  - 1) 1/8" Round Nozzle
  - 1) 1/4" Round Nozzle

#### 1/4" Mixed Element Kit
- **40473**
  - 2) Extended Elbows
  - 2) Extended Elements
  - 4) Element Clamps w/ screws
  - 1) 1/8" NPT Connector
  - 1) 1/4" NPT Connector
  - 1) 1/16" Round Nozzle
  - 1) 1/8" Round Nozzle
  - 1) 1/4" Round Nozzle

#### Pliers
- **1/4" Hose Assembly Pliers**
  - **78001**
    - 1) 1/4" Pliers
  - **78003**
    - 1) 1/4" Pliers
    - 1) 1/2" Pliers
- *1/4" Assembly piers will not assemble part numbers 41411 or 49431*

#### Hoses
- **1/4" Hose**
  - **41401**
    - 2) 5¾" Long Segments*
  - **49420** • BLK • G • W
    - (55) Segments*, Bulk 25-ft
  - **49419** • BLK • G • W
    - (1) 5 ft Coil
  - **49421** • BLK • G • W
    - (1) 50 ft Coil
- *1 Segment = 10 Elements*

### How to Order Black, Gray or White Loc-Line:
(Add suffix to part number when ordering, ie: 49421-BLK)  
- BLK Part can be ordered in Black, add suffix -BLK  
- G Part can be ordered in Gray, add suffix -G  
- W Part can be ordered in White, add suffix -W
### NOZZLES

#### 1/4” NOZZLE-RAMA PACK

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>41490</td>
<td>1/4” Nozzle-Rama Pack</td>
<td>16</td>
</tr>
</tbody>
</table>

- Includes 1 nozzle from each of these packages: 41402, 41403, 41404, 41407, 41470, 41471, 41472, 41473, 41481, 41482, 41483, 41484, 41485, 41486, 41487, 41488, 41489

#### 1/4” 90° NOZZLE KIT

- 1/16” 90º Nozzle (4)
- 1/8” 90º Nozzle (4)
- 1/4” 90º Nozzle (4)
- 1/4” 90º Spray Bar Nozzle (2)

#### 1/4” FLAT NOZZLE ASSORTMENT PACK

- Flat Slot 40 Nozzle (4)
- Flat Slot 60 Nozzle (4)
- Flat 5 Hole Nozzle (4)
- Flat 7 Hole Nozzle (4)

#### 1/16” ROUND NOZZLE

- Round Nozzles (50)

#### 1/8” ROUND NOZZLE

- Round Nozzles (50)

#### 1/4” ROUND NOZZLE

- Round Nozzles (50)

#### 1/4” FLARE NOZZLE

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>41407</td>
<td>(2) Flare Nozzles</td>
<td></td>
</tr>
<tr>
<td>49427</td>
<td>BLK</td>
<td>G</td>
</tr>
<tr>
<td>49427</td>
<td>G</td>
<td>BLK</td>
</tr>
<tr>
<td>49427</td>
<td>W</td>
<td>BLK</td>
</tr>
<tr>
<td>49427</td>
<td>BLK</td>
<td>W</td>
</tr>
<tr>
<td>49427</td>
<td>G</td>
<td>W</td>
</tr>
<tr>
<td>49427</td>
<td>W</td>
<td>G</td>
</tr>
</tbody>
</table>

#### 1” FLARE NOZZLE

- Flare Nozzles (20)

#### 1” STRAIGHT FLOW NOZZLE

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>41489</td>
<td>(2) Straight Flow Nozzles</td>
<td></td>
</tr>
<tr>
<td>49456</td>
<td>BLK</td>
<td>G</td>
</tr>
<tr>
<td>49456</td>
<td>G</td>
<td>BLK</td>
</tr>
<tr>
<td>49456</td>
<td>W</td>
<td>BLK</td>
</tr>
<tr>
<td>49456</td>
<td>BLK</td>
<td>W</td>
</tr>
<tr>
<td>49456</td>
<td>G</td>
<td>W</td>
</tr>
<tr>
<td>49456</td>
<td>W</td>
<td>G</td>
</tr>
</tbody>
</table>

#### 1/16” 90° NOZZLE

- 90º Nozzles (20)

#### 1/8” 90° NOZZLE

- 90º Nozzles (20)

#### 1/4” 90° NOZZLE

- 90º Nozzles (20)

#### 1/4” 90° SPRAY BAR NOZZLE

- 90º Spray Bar Nozzles (20)

#### 1/4” FLAT SLOT 40 NOZZLE

- Flat Slot Nozzles (20)

#### 1/4” FLAT SLOT 60 NOZZLE

- Flat Slot Nozzles (20)

#### 1/4” FLAT 5-HOLE NOZZLE

- 5-Hole Nozzles (20)

#### 1/4” FLAT 7-HOLE NOZZLE

- 7-Hole Nozzles (20)

#### 1/4” SIDE FLOW NOZZLE

- Side Flow Nozzles (20)

#### 1/4” SWIVEL NOZZLE 40

- Swivel Nozzles (20)

#### 1/4” SWIVEL NOZZLE 60

- Swivel Nozzles (20)

#### 1/4” SWIVEL NOZZLE 75

- Swivel Nozzles (20)

### VALVES

#### 1/4” MALE NPT VALVE

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>21192</td>
<td>Male NPT Valves</td>
<td>2</td>
</tr>
<tr>
<td>29452</td>
<td>BLK</td>
<td>G</td>
</tr>
<tr>
<td>29452</td>
<td>G</td>
<td>BLK</td>
</tr>
<tr>
<td>29452</td>
<td>W</td>
<td>BLK</td>
</tr>
<tr>
<td>29452</td>
<td>BLK</td>
<td>W</td>
</tr>
<tr>
<td>29452</td>
<td>G</td>
<td>W</td>
</tr>
<tr>
<td>29452</td>
<td>W</td>
<td>G</td>
</tr>
</tbody>
</table>

#### 1/4” FEMALE NPT VALVE

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>21193</td>
<td>Female NPT Valves</td>
<td>2</td>
</tr>
<tr>
<td>29453</td>
<td>BLK</td>
<td>G</td>
</tr>
<tr>
<td>29453</td>
<td>G</td>
<td>BLK</td>
</tr>
<tr>
<td>29453</td>
<td>W</td>
<td>BLK</td>
</tr>
<tr>
<td>29453</td>
<td>BLK</td>
<td>W</td>
</tr>
<tr>
<td>29453</td>
<td>G</td>
<td>W</td>
</tr>
<tr>
<td>29453</td>
<td>W</td>
<td>G</td>
</tr>
</tbody>
</table>

#### 1/4” IN-LINE VALVE

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>21194</td>
<td>In-Line Valves</td>
<td>2</td>
</tr>
<tr>
<td>29454</td>
<td>BLK</td>
<td>G</td>
</tr>
<tr>
<td>29454</td>
<td>G</td>
<td>BLK</td>
</tr>
<tr>
<td>29454</td>
<td>W</td>
<td>BLK</td>
</tr>
<tr>
<td>29454</td>
<td>BLK</td>
<td>W</td>
</tr>
<tr>
<td>29454</td>
<td>G</td>
<td>W</td>
</tr>
<tr>
<td>29454</td>
<td>W</td>
<td>G</td>
</tr>
</tbody>
</table>

#### IN-LINE CHECK VALVE

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>21191</td>
<td>Check Valves</td>
<td>2</td>
</tr>
<tr>
<td>29451</td>
<td>BLK</td>
<td>G</td>
</tr>
<tr>
<td>29451</td>
<td>G</td>
<td>BLK</td>
</tr>
<tr>
<td>29451</td>
<td>W</td>
<td>BLK</td>
</tr>
<tr>
<td>29451</td>
<td>BLK</td>
<td>W</td>
</tr>
<tr>
<td>29451</td>
<td>G</td>
<td>W</td>
</tr>
<tr>
<td>29451</td>
<td>W</td>
<td>G</td>
</tr>
</tbody>
</table>
CONNECTORS

1/8" NPT CONNECTOR
41405 ▼
(4) NPT Connectors
49425 ▼-BLK ▼-G ▼-W
(50) NPT Connectors

1/8" BSPT* CONNECTOR
41417 ▼
(4) BSPT Connectors
49437 ▼-BLK ▼-G
(50) BSPT Connectors
* British Standard Pipe Thread

1/4" NPT CONNECTOR
41406 ▼
(4) NPT Connectors
49426 ▼-BLK ▼-G ▼-W
(50) NPT Connectors

1/4" BSPT* CONNECTOR
41418 ▼
(4) BSPT Connectors
49438 ▼-BLK ▼-G
(50) BSPT Connectors
* British Standard Pipe Thread

3/8" SAE FLARE NUT ADAPTER
41412 ▼
(4) Flare Nut Adapters
49432 ▼-BLK ▼-G
(20) Flare Nut Adapters

1/4" SAE FLARE NUT ADAPTER
41414 ▼
(4) Flare Nut Adapters
49434 ▼-BLK ▼-G
(20) Flare Nut Adapters

15 MM "SHORT" LATHE ADAPTER
41492 ▼
(4) Lathe Adapters
49458 ▼-BLK ▼-G
(20) Lathe Adapters

15 MM x 2" LATHE ADAPTER
41493 ▼
(4) Lathe Adapters
49459 ▼-BLK ▼-G
(20) Lathe Adapters

ACCESSORIES

1/4" ELEMENT CLAMP
41477 ▼
(4) Element Clamps w/ screws
49446 ▼-BLK ▼-G
(20) Element Clamps w/ screws

1/4" Y FITTING
41408 ▼
(2) Y Fittings
49447 ▼-BLK ▼-G
(20) Y Fittings

1/4" DOUBLE SOCKET
41409 ▼
(4) Double Sockets
49439 ▼-BLK ▼-G
(20) Double Sockets

1/4" SOCKET X 1/8" FNPT
41411 ▼
(4) 1/4" Socket X 1/8" FNPT
49441 ▼-BLK ▼-G
(20) 1/4" Socket X 1/8" FNPT

1/4" ELBOW FITTING
41415 ▼
(2) Elbow Fittings
49435 ▼-BLK ▼-G
(20) Elbow Fittings

1/4" T FITTING
41416 ▼
(2) T Fittings
49446 ▼-BLK ▼-G
(20) T Fittings

1/4" END CAP
41480 ▼
(4) End Caps
49447 ▼-BLK ▼-G
(20) End Caps

HOW TO ORDER BLACK, GRAY OR WHITE LOC-LINE:
(Add suffix to part number when ordering, ie: 49421-BLK)
▼-BLK Part can be ordered in Black, add suffix -BLK
▼-G Part can be ordered in Gray, add suffix -G
▼-W Part can be ordered in White, add suffix -W
# MANIFOLDS

## MAGNETIC BASE MANIFOLD SUPER KIT
- 40480
  - (8) 5¾" Long Segments
  - (5) 1/4" MNPT Valves
  - (2) 1" Flare Nozzles
  - (2) 1/4" Round Nozzles
  - (2) 1/8" Round Nozzles
  - (2) 1/16" Round Nozzles
  - (1) Mag. Base Manifold
  - (3) 1/4" Plugs
  - (1) 1/4" Barb Fitting

## 1/4" MODULAR MANIFOLD
- 21199
  - (3) 1/4" T Fittings
  - (1) 1/4" Elbow Fitting
  - (1) 1/4" Manifold Bracket
  - (3) Mounting Screws

## 1/4" TOTAL FLOW CONTROL MANIFOLD
- 21198
  - (1) 1/4" Modular Manifold
  - (5) 1/4" In-Line Valves

## MAGNETIC BASE MANIFOLD KIT
- 40463
  - (2) 5¾" Long Segments
  - (1) 1/4" MNPT Valve
  - (1) 1" Flare Nozzle
  - (1) 1/4" Round Nozzle
  - (1) 1/8" Round Nozzle
  - (1) 1/16" Round Nozzle
  - (1) Mag. Base Manifold
  - (3) 1/4" Plugs
  - (1) 1/4" Barb Fitting

## 1/4" MODULAR MANIFOLD BRACKET
- 21195
  - (2) Brackets

## MAGNETIC BASE MANIFOLD
- 40400
  - (1) Magnetic Base Manifold
  - (3) 1/4" Plugs
  - (1) 1/4" Barb Fitting

# ACID RESISTANT

## 1/4" ACID RESISTANT HOSE KIT
- 45463
  - (2) 5¾" Long Segments
  - (1) 1/4" Nozzle
  - (1) 1/8" Nozzle
  - (1) 1/16" Nozzle
  - (1) 1/4" NPT Connector
  - (1) 1/8" NPT Connector

## 1/4" ACID RESISTANT HOSE
- 45401
  - (2) 5¾" Long Segments
- 46420
  - (55) Segments, Bulk 25-ft
- 46419
  - (1) 5 ft Coil
- 46421
  - (1) 50 ft Coil

## 1/4" ACID RESISTANT NOZZLE
- 45402
  - (4) Round Nozzles
- 46422
  - (50) Round Nozzles

## 1/8" ACID RESISTANT NOZZLE
- 45403
  - (4) Round Nozzles
- 46423
  - (50) Round Nozzles

## 1/4" ACID RESISTANT DOUBLE SOCKET
- 45409
  - (4) Double Sockets
- 46429
  - (20) Double Sockets

## 1/4" ACID RESISTANT Y FITTING
- 45408
  - (2) Y Fittings
- 46428
  - (20) Y Fittings

## 1/8" ACID RESISTANT NPT CONNECTOR
- 45405
  - (4) NPT Connectors
- 46425
  - (50) NPT Connectors

## 1/4" ACID RESISTANT NPT CONNECTOR
- 45406
  - (4) NPT Connectors
- 46426
  - (50) NPT Connectors

## 1/4" ACID RESISTANT FLARE NOZZLE
- 45407
  - (2) Flare Nozzles
- 46427
  - (20) Flare Nozzles

## 1/4" SOCKET X 1/8" FNPT ACID RESISTANT
- 45411
  - (4) 1/4" Socket X 1/8" FNPT
- 46431
  - (20) 1/4" Socket X 1/8" FNPT

## 1/4" ACID RESISTANT ELBOW FITTING
- 45415
  - (2) Elbow Fittings
- 46435
  - (20) Elbow Fittings

## 1/4" ACID RESISTANT T FITTING
- 45416
  - (2) T Fittings
- 46436
  - (20) T Fittings

## 1/4" ACID RESISTANT SWIVEL NOZZLE 40
- 45481
  - (2) Swivel Nozzles
- 46449
  - (20) Swivel Nozzles

## 1/4" ACID RESISTANT SWIVEL NOZZLE 60
- 45482
  - (2) Swivel Nozzles
- 46450
  - (20) Swivel Nozzles
### 1/2-INCH SYSTEM

#### KITS

**1/2" HOSE KIT**
- 50813
  - (2) 5½" Long Segments
  - (1) 1/4" Round Nozzle
  - (1) 3/8" Round Nozzle
  - (1) 1/2" Round Nozzle
  - (1) 3/8" NPT Connector
  - (1) 1/2" NPT Connector
  - Assembled Length = 13"

**1/2" EXTENDED ELBOWS WITH CLAMPS**
- 50874
  - (4) Extended Elbows
  - (4) Element Clamps w/ screws

**1/2" EXTENDED ELEMENT KIT**
- 50873
  - (1) 3/8" NPT Connector
  - (1) 1/2" NPT Connector
  - (1) 1/4" Round Nozzle
  - (1) 3/8" Round Nozzle
  - (1) 1/2" Round Nozzle
  - (2) Extended Elbows
  - (2) Extended Elements
  - (4) Element Clamps w/ screws

**1/2" EXTENDED ELEMENT KIT W/ CLAMPS**
- 51835
  - (4) 1/2" Extended Elements
  - (4) Element Clamps w/ screws

**1/2" CIRCLE FLOW NOZZLE KIT**
- 51837
  - (4) 1/2" Extended Elements
  - (4) Element Clamps w/ screws

**1/2" HOSE ASSEMBLY PLIERS**
- 78002
  - (1) 1/2" pliers
- 78003
  - (1) 1/4" pliers
  - (1) 1/2" pliers

**HOSES**

**1/2" HOSE**
- 51801
  - (2) 5½" Long Segments
- 59860
  - (59) Segments, Bulk 25 ft
- 59859
  - (1) 5 ft Coil
- 59861
  - (1) 50 ft Coil
  - 1 Segment = 6 Elements

**1/2" EXTENDED ELEMENT**
- 51833
  - (4) Extended Elements
- 59883
  - (20) Extended Elements

**1/2" EXTENDED ELBOW**
- 51896
  - (4) Extended Elbows
- 59899
  - (20) Extended Elbows

---

**HOW TO ORDER BLACK, GRAY OR WHITE LOC-LINE:**
(Add suffix to part number when ordering, ie: 49421-BLK)
- BLK Part can be ordered in Black, add suffix -BLK
- G Part can be ordered in Gray, add suffix -G
- W Part can be ordered in White, add suffix -W
## NOZZLES

### 1/2" NOZZLE-RAMA PACK
- **51849**
  - (16) Includes 1 nozzle from each of these packages: 51802, 51803, 51806, 51807, 51809, 51828, 51829, 51830, 51831, 51840, 51841, 51842, 51843, 51845, 51847, 51848,

### 1/2" 90° NOZZLE
- **51830**
  - (4) 90° Nozzles
- **59880** **BLK** **G**
  - (20) 90° Nozzles

### 1/2" 90° SPRAY BAR NOZZLE
- **51831**
  - (2) 90° Spray Bar Nozzles
- **59881** **BLK** **G**
  - (20) 90° Spray Bar Nozzles

### 1/2" FLAT NOZZLE ASSORTMENT
- **51844**
  - (1) Flat Slot 80 Nozzle
  - (1) Flat Slot 125 Nozzle
  - (1) Flat 5-Hole Nozzle
  - (1) Flat 7-Hole Nozzle

### 1/4" ROUND NOZZLE FOR 1/2"
- **51806**
  - (4) Round Nozzles
- **59866** **BLK** **G**
  - (50) Round Nozzles

### 3/8" ROUND NOZZLE
- **51802**
  - (4) Round Nozzles
- **59862** **BLK** **G**
  - (50) Round Nozzles

### 1/2" ROUND NOZZLE
- **51803**
  - (4) Round Nozzles
- **59863** **BLK** **G**
  - (50) Round Nozzles

### 1/4" 90° NOZZLE
- **51828**
  - (4) 90° Nozzles
- **59878** **BLK** **G**
  - (20) 90° Nozzles

### 3/8" 90° NOZZLE
- **51829**
  - (4) 90° Nozzles
- **59879** **BLK** **G**
  - (20) 90° Nozzles

### 1/2" FLAT SLOT 80 NOZZLE
- **51840**
  - (4) Flat Slot Nozzles
- **59890** **BLK** **G**
  - (20) Flat Slot Nozzles
  - • .080" Slot height

### 1/2" FLAT SLOT 125 NOZZLE
- **51841**
  - (4) Flat Slot Nozzles
- **59891** **BLK** **G**
  - (20) Flat Slot Nozzles
  - • .125" Slot height

### 1/2" FLAT 5-HOLE NOZZLE
- **51842**
  - (4) Flat 5-Hole Nozzles
- **59892** **BLK** **G**
  - (20) Flat 5-Hole Nozzles
  - • .125" Hole diameter

### 1/2" FLAT 7 HOLE NOZZLE
- **51843**
  - (4) Flat 7-Hole Nozzles
- **59893** **BLK** **G**
  - (20) Flat 7-Hole Nozzles
  - • .080" Hole diameter

### VALVES

### 1/2" MALE NPT VALVE
- **32092**
  - (2) Male NPT Valves
- **39852** **BLK** **G**
  - (10) Male NPT Valves

### 1/2" FEMALE NPT VALVE
- **32093**
  - (2) Female NPT Valves
- **39853** **BLK** **G**
  - (10) Female NPT Valves

### 1/2" IN-LINE VALVE
- **32094**
  - (2) In-Line Valves
- **39854** **BLK** **G**
  - (10) In-Line Valves

### 1/2" IN-LINE CHECK VALVE
- **32091**
  - (2) Check Valves
- **39851** **BLK** **G**
  - (10) Check Valves
## Connectors

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Part Number</th>
<th>Quantity</th>
<th>Description</th>
<th>Color Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot; NPT Connector</td>
<td>51804</td>
<td>(4)</td>
<td>NPT Connectors</td>
<td></td>
</tr>
<tr>
<td>3/8&quot; BSPT* Connector</td>
<td>51826</td>
<td>(4)</td>
<td>BSPT Connectors</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; NPT Connector</td>
<td>51805</td>
<td>(4)</td>
<td>NPT Connectors</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; BSPT* Connector</td>
<td>51827</td>
<td>(4)</td>
<td>BSPT Connectors</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; Element Clamp</td>
<td>51834</td>
<td>(4)</td>
<td>Element Clamps w/ screws</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; End Cap</td>
<td>51838</td>
<td>(4)</td>
<td>End Caps</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; Double Socket</td>
<td>51811</td>
<td>(4)</td>
<td>Double Sockets</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; Magnetic Base</td>
<td>51846</td>
<td>(1)</td>
<td>Magnetic Base</td>
<td></td>
</tr>
</tbody>
</table>

*British Standard Pipe Thread

### Accessory Types

**Accessories**

<table>
<thead>
<tr>
<th>Accessory Type</th>
<th>Part Number</th>
<th>Quantity</th>
<th>Description</th>
<th>Color Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot; Element Clamp</td>
<td>51834</td>
<td>(4)</td>
<td>Element Clamps w/ screws</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; End Cap</td>
<td>51838</td>
<td>(4)</td>
<td>End Caps</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; Double Socket</td>
<td>51811</td>
<td>(4)</td>
<td>Double Sockets</td>
<td></td>
</tr>
</tbody>
</table>

**Connectors**

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Part Number</th>
<th>Quantity</th>
<th>Description</th>
<th>Color Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot; NPT Connector</td>
<td>51804</td>
<td>(4)</td>
<td>NPT Connectors</td>
<td></td>
</tr>
<tr>
<td>3/8&quot; BSPT* Connector</td>
<td>51826</td>
<td>(4)</td>
<td>BSPT Connectors</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; NPT Connector</td>
<td>51805</td>
<td>(4)</td>
<td>NPT Connectors</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; BSPT* Connector</td>
<td>51827</td>
<td>(4)</td>
<td>BSPT Connectors</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; Element Clamp</td>
<td>51834</td>
<td>(4)</td>
<td>Element Clamps w/ screws</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; End Cap</td>
<td>51838</td>
<td>(4)</td>
<td>End Caps</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; Double Socket</td>
<td>51811</td>
<td>(4)</td>
<td>Double Sockets</td>
<td></td>
</tr>
<tr>
<td>1/2&quot; Magnetic Base</td>
<td>51846</td>
<td>(1)</td>
<td>Magnetic Base</td>
<td></td>
</tr>
</tbody>
</table>

*British Standard Pipe Thread

### How to Order Black, Gray or White Loc-Line:

Add suffix to part number when ordering, ie: 49421-BLK

- BLK Part can be ordered in Black, add suffix -BLK
- G Part can be ordered in Gray, add suffix -G
- W Part can be ordered in White, add suffix -W

**Manifolds**

<table>
<thead>
<tr>
<th>Manifold Type</th>
<th>Part Number</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot; Modular Manifold</td>
<td>32099</td>
<td>(3)</td>
<td>1/2&quot; T Fittings 1/2&quot; Elbow Fitting 1/2&quot; Manifold Bracket Mounting Screws</td>
</tr>
<tr>
<td>1/2&quot; Total Flow Control Manifold</td>
<td>32098</td>
<td>(1)</td>
<td>1/2&quot; Modular Manifold 1/2&quot; Elbow Fitting 1/2&quot; In-Line Valves</td>
</tr>
<tr>
<td>1/2&quot; Modular Manifold Bracket</td>
<td>32095</td>
<td>(2)</td>
<td>Brackets</td>
</tr>
</tbody>
</table>

1/2-INCH SYSTEM
### ACID RESISTANT

#### 1/2" ACID RESISTANT HOSE KIT
- **56863**
  - (2) 5½" Long Segments
  - (1) 1/4" Round Nozzle
  - (1) 3/8" Round Nozzle
  - (1) 1/2" Round Nozzle
  - (1) 3/8" NPT Connector
  - (1) 1/2" NPT Connector

#### 1/2" ACID RESISTANT HOSE
- **56801**
  - (2) 5½" Long Segments
- **57860**
  - (59) Segments, Bulk 25 ft
- **57859**
  - (1) 5 ft Coil
- **57861**
  - (1) 50 ft Coil

#### 1/4" ACID RESISTANT NOZZLE
- **56806**
  - (4) Round Nozzles
- **57866**
  - (50) Round Nozzles

#### 3/8" ACID RESISTANT NOZZLE
- **56802**
  - (4) Round Nozzles
- **57862**
  - (50) Round Nozzles

#### 1/2" ACID RESISTANT NOZZLE
- **56803**
  - (4) Round Nozzles
- **57863**
  - (50) Round Nozzles

#### 3/8" ACID RESISTANT NPT
- **56804**
  - (4) NPT Connectors
- **57864**
  - (50) NPT Connectors

#### 1/2" ACID RESISTANT NPT
- **56805**
  - (4) NPT Connectors
- **57865**
  - (50) NPT Connectors

#### 1 ¼" ACID RESISTANT FLARE NOZZLE
- **56807**
  - (2) Flare Nozzles
- **57867**
  - (20) Flare Nozzles

#### 1/2" ACID RESISTANT Y FITTING
- **56808**
  - (2) Y Fittings
- **57868**
  - (20) Y Fittings

#### 1/2" TO 1/4" ACID RESISTANT Y REDUCER
- **56822**
  - (2) Reducers
- **57870**
  - (20) Reducers

#### 1/2" TO 1/4" ACID RESISTANT ADAPTER
- **56821**
  - (2) Adapters
- **57869**
  - (20) Adapters

#### 1/2" ACID RESISTANT ELBOW FITTING
- **56824**
  - (2) Elbow Fittings
- **57874**
  - (20) Elbow Fittings

#### 1/2" ACID RESISTANT T FITTING
- **56825**
  - (2) T Fittings
- **57875**
  - (20) T Fittings

#### 1/2" DOUBLE SOCKET
- **56811**
  - (4) Double Sockets
- **57872**
  - (20) Double Sockets

---

- **Loc-Line® Acid Resistant Hose** is excellent for rinsing cycles in plating operations.
- **CAUTION:** Loc-Line® Acid Resistant Hose is not intended for conveying acids or high pressure applications.
## 3/4-INCH SYSTEM

### KITS

#### 3/4" HOSE KIT
- 60513
  - (2) 5¾" Long Segments
  - (1) 5/8" Round Nozzle
  - (1) 3/4" Round Nozzle
  - (1) 3/4" NPT Connector
  - • Assembled Length = 14"

### PLIERS

#### 3/4" HOSE ASSEMBLY PLIERS
- 78004
  - (1) 3/4" Pliers
  - • 3/4" Assembly Pliers will not assemble the 3/4" Y Fitting, the 3/4" Fixed Mount or the 3/4" Valves.

### HOSES

#### 3/4" HOSE
- 61501
  - (2) 5¾" Long Segments
- 69540
  - (54) Segments, Bulk 25 ft
  - (1) 5 ft Coil
- 69541
  - (1) 50 ft Coil
  - • 1 Segment = 6 Elements

### NOZZLES

#### 5/8" ROUND NOZZLE
- 61503
  - (4) Round Nozzles
- 69543
  - (50) Round Nozzles

#### 3/4" ROUND NOZZLE
- 61502
  - (4) Round Nozzles
- 69542
  - (50) Round Nozzles

#### 3" FLARE NOZZLE
- 61507
  - (2) Flare Nozzles
- 69547
  - (20) Flare Nozzles

### VALVES

#### 3/4" MALE NPT VALVE
- 61516
  - (2) NPT Valves
- 69556
  - (10) NPT Valves

#### 3/4" FEMALE NPT VALVE
- 61517
  - (2) Female NPT Valves
- 69557
  - (10) Female NPT Valves

#### 3/4" IN-LINE VALVE
- 61518
  - (2) In-Line Valves
- 69558
  - (10) In-Line Valves

### CONNECTORS

#### 3/4" NPT CONNECTOR
- 61505
  - (4) NPT Connectors
- 69545
  - (50) NPT Connectors

#### 3/4" BSPT* CONNECTOR
- 61509
  - (4) BSPT Connectors
- 69549
  - (50) BSPT Connectors
  - * British Standard Pipe Thread

#### 3/4" FIXED MOUNT
- 60533
  - (2) Fixed Mounts
- 69563
  - (20) Fixed Mounts
  - • Mounts with 1/4" bolt, not included

### ACCESSORIES

#### 3/4" ELEMENT CLAMP
- 61535
  - (4) Element Clamps w/ screws
- 69565
  - (20) Element Clamps w/ screws

#### 3/4" Y FITTING
- 61511
  - (2) Y Fittings
- 69551
  - (20) Y Fittings

#### 3/4" ELBOW FITTING
- 61515
  - (2) Elbow Fittings
- 69555
  - (20) Elbow Fittings

#### 3/4" TO 1/2" Y REDUCER
- 61512
  - (2) Y Reducers
- 69552
  - (20) Y Reducers

#### 3/4" TO 1/2" ADAPTER
- 61508
  - (2) Adapters
- 69548
  - (20) Adapters

#### 3/4" DOUBLE SOCKET
- 61514
  - (4) Double Sockets
- 69554
  - (20) Double Sockets
### KIT

<table>
<thead>
<tr>
<th>QUICK-SET SHIELD™ KIT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>60525</strong></td>
</tr>
<tr>
<td>(1) 6’x8’ Shield Kit</td>
</tr>
<tr>
<td><strong>60526</strong></td>
</tr>
<tr>
<td>(1) 7½’ x 10’ Shield Kit</td>
</tr>
<tr>
<td><strong>60527</strong></td>
</tr>
<tr>
<td>(1) 8½’ x 12’ Shield Kit</td>
</tr>
</tbody>
</table>

- All Quick-Set Shield Kits include a 14’ adjustable 3/4” Loc-Line® arm, magnetic base and fitting for fixed mounting.

### CONNECTOR

<table>
<thead>
<tr>
<th>3/4” FIXED MOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>60533</strong></td>
</tr>
<tr>
<td>(2) Fixed Mounts</td>
</tr>
</tbody>
</table>

### ACCESSORIES

#### SHIELD MOUNTING ELBOW

<table>
<thead>
<tr>
<th>60531</th>
<th>(2) Mounting Elbows</th>
</tr>
</thead>
<tbody>
<tr>
<td>69561</td>
<td>-BLK -G</td>
</tr>
<tr>
<td>(20)</td>
<td>Mounting Elbows</td>
</tr>
</tbody>
</table>

- Washer and screw included

#### REPLACEMENT SHIELD

<table>
<thead>
<tr>
<th>60528</th>
<th>(1) 6’ x 8’ Shield</th>
</tr>
</thead>
<tbody>
<tr>
<td>60529</td>
<td>(1) 7½’ x 10’ Shield</td>
</tr>
<tr>
<td>60530</td>
<td>(1) 8½’ x 12’ Shield</td>
</tr>
</tbody>
</table>

#### 3/4” MAGNETIC BASE

<table>
<thead>
<tr>
<th>60532</th>
<th>-BLK -G</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>Magnetic Base</td>
</tr>
</tbody>
</table>

- 60 lb. holding force

### HOW TO ORDER BLACK, GRAY OR WHITE LOC-LINE:

(Add suffix to part number when ordering, i.e.: 49421-BLK)
- **-BLK** Part can be ordered in Black, add suffix -BLK
- **-G** Part can be ordered in Gray, add suffix -G
- **-W** Part can be ordered in White, add suffix -W
### HOSES

#### 2½" HOSE

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>81201</td>
<td>(1) 12&quot; Segment*</td>
<td></td>
</tr>
<tr>
<td>81202</td>
<td>(2) 12&quot; Segments</td>
<td></td>
</tr>
<tr>
<td>89220</td>
<td>(20) 12&quot; Segments</td>
<td></td>
</tr>
</tbody>
</table>

*1 Segment = 9 Elements
• Hose Bending Radius = 5.75"

#### ANTI-STATIC

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>81301AS</td>
<td>(1) 12&quot; Anti-Static Segment*</td>
<td></td>
</tr>
<tr>
<td>81302AS</td>
<td>(2) 12&quot; Anti-Static Segments</td>
<td></td>
</tr>
<tr>
<td>89320AS</td>
<td>(20) 12&quot; Anti-Static Segments</td>
<td></td>
</tr>
</tbody>
</table>

*1 Segment = 9 Elements

### NOZZLES

#### 4½" ROUND NOZZLE

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>81203</td>
<td>(1) Round Nozzle</td>
<td></td>
</tr>
<tr>
<td>89223</td>
<td>(10) Round Nozzles</td>
<td></td>
</tr>
</tbody>
</table>

#### 6" x 3½" RECTANGULAR NOZZLE

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>81204</td>
<td>(1) Rectangular Nozzle</td>
<td></td>
</tr>
<tr>
<td>89224</td>
<td>(10) Rectangular Nozzles</td>
<td></td>
</tr>
</tbody>
</table>

#### TAPERED OVAL NOZZLE

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>81205</td>
<td>(1) Oval Nozzle</td>
<td></td>
</tr>
<tr>
<td>89225</td>
<td>(10) Oval Nozzles</td>
<td></td>
</tr>
</tbody>
</table>

### CONNECTORS

#### 3" PVC ADAPTER

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>81206</td>
<td>(1) PVC Adapter</td>
<td></td>
</tr>
<tr>
<td>89226</td>
<td>(10) PVC Adapters</td>
<td></td>
</tr>
</tbody>
</table>

#### 3" SHEET METAL DUCT ADAPTER

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>81207</td>
<td>(1) Sheet Metal Duct Adapter</td>
<td></td>
</tr>
<tr>
<td>89227</td>
<td>(10) Sheet Metal Duct Adapters</td>
<td></td>
</tr>
</tbody>
</table>

### KITS

#### VACUUM HOSE KIT FOR 2½" SHOP VACUUM

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>80813</td>
<td>(2) 12&quot; Vacuum Hose</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(1) Rectangular Nozzle</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(1) Tapered Nozzle</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(1) Shop Vacuum Hose Adapter</td>
<td></td>
</tr>
<tr>
<td></td>
<td>with Mounting Tab</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(1) Shop Vacuum Adapter</td>
<td></td>
</tr>
</tbody>
</table>

### ACCESSORIES

#### SHOP VACUUM HOSE ADAPTER WITH MOUNTING TAB

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>81209</td>
<td>(1) Shop Vacuum Adapter</td>
<td></td>
</tr>
<tr>
<td>89229</td>
<td>(10) Shop Vacuum Adapters</td>
<td></td>
</tr>
</tbody>
</table>

#### SHOP VACUUM ADAPTER

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>81210</td>
<td>(1) Shop Vacuum Adapter</td>
<td></td>
</tr>
<tr>
<td>89230</td>
<td>(10) Shop Vacuum Adapters</td>
<td></td>
</tr>
</tbody>
</table>

### ANTI-STATIC

#### 2½" HOSE

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>81303AS</td>
<td>(1) Anti-Static Round Nozzle</td>
<td></td>
</tr>
<tr>
<td>89323AS</td>
<td>(10) Anti-Static Round Nozzles</td>
<td></td>
</tr>
</tbody>
</table>

#### 6" x 3½" RECTANGULAR NOZZLE

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>81304AS</td>
<td>(1) Anti-Static Rectangular Nozzle</td>
<td></td>
</tr>
<tr>
<td>89324AS</td>
<td>(10) Anti-Static Rectangular Nozzles</td>
<td></td>
</tr>
</tbody>
</table>

#### TAPERED OVAL NOZZLE

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>81305AS</td>
<td>(1) Anti-Static Oval Nozzle</td>
<td></td>
</tr>
<tr>
<td>89325AS</td>
<td>(10) Anti-Static Oval Nozzles</td>
<td></td>
</tr>
</tbody>
</table>

#### 2½" SLIDE VALVE

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>81308AS</td>
<td>(1) Anti-Static Slide Valve</td>
<td></td>
</tr>
<tr>
<td>89328AS</td>
<td>(10) Anti-Static Slide Valves</td>
<td></td>
</tr>
</tbody>
</table>

#### 3" SHEET METAL DUCT ADAPTER

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>81307AS</td>
<td>(1) Anti-Static Metal Duct Adapter</td>
<td></td>
</tr>
<tr>
<td>89327AS</td>
<td>(10) Anti-Static Metal Duct Adapters</td>
<td></td>
</tr>
</tbody>
</table>
TYPICAL 2 1/2-INCH HOSE CONNECTIONS

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

1/8" FEMALE PIPE COUPLING

- 40656 (4) Female Pipe Couplings
- 41756 (20) Female Pipe Couplings

1/4" FEMALE PIPE COUPLING

- 40657 (4) Female Pipe Couplings
- 41757 (20) Female Pipe Couplings

3/8" FEMALE PIPE COUPLING

- 50660 (4) Female Pipe Couplings
- 51760 (20) Female Pipe Couplings

1/2" FEMALE PIPE COUPLING

- 50661 (4) Female Pipe Couplings
- 51761 (20) Female Pipe Couplings

1/4" TO 1/8" FEMALE PIPE REDUCER

- 40655 (4) Female Pipe Reducers
- 41755 (20) Female Pipe Reducers

3/8" TO 1/4" FEMALE PIPE REDUCER

- 50658 (4) Female Pipe Reducers
- 51758 (20) Female Pipe Reducers

1/2" TO 1/4" FEMALE PIPE REDUCER

- 50659 (4) Female Pipe Reducers
- 51759 (20) Female Pipe Reducers
The CT (Compact Turret) style nozzle is designed for tight spaces, from 0 to 1000 PSI.

**CT HPT NOZZLES**

High Pressure Turret (HPT) Nozzles expand the working pressure range to a maximum 1,000 PSI, allowing a higher level of machining while providing the same LOC-LINE® quality and ease of control you’ve come to expect. Maximum operating temperature is 115º F.

**1/8" NPT/BSPT THREAD CT STYLE NOZZLES**

**0.0" NOZZLE LENGTH**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>72010</td>
<td>(2) Nozzles, 0.062&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79010</td>
<td>g - BLK g - G</td>
</tr>
<tr>
<td>72014</td>
<td>(2) Nozzles, 0.086&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79014</td>
<td>g - BLK g - G</td>
</tr>
<tr>
<td>72018</td>
<td>(2) Nozzles, 0.117&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79018</td>
<td>g - BLK g - G</td>
</tr>
<tr>
<td>72022</td>
<td>(2) Nozzles, 0.160&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79022</td>
<td>g - BLK g - G</td>
</tr>
</tbody>
</table>

**0.25" NOZZLE LENGTH**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>72011</td>
<td>(2) Nozzles, 0.062&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79011</td>
<td>g - BLK g - G</td>
</tr>
<tr>
<td>72015</td>
<td>(2) Nozzles, 0.086&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79015</td>
<td>g - BLK g - G</td>
</tr>
<tr>
<td>72019</td>
<td>(2) Nozzles, 0.117&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79019</td>
<td>g - BLK g - G</td>
</tr>
<tr>
<td>72023</td>
<td>(2) Nozzles, 0.160&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79023</td>
<td>g - BLK g - G</td>
</tr>
</tbody>
</table>

**0.5" NOZZLE LENGTH**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>72012</td>
<td>(2) Nozzles, 0.062&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79012</td>
<td>g - BLK g - G</td>
</tr>
<tr>
<td>72016</td>
<td>(2) Nozzles, 0.086&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79016</td>
<td>g - BLK g - G</td>
</tr>
<tr>
<td>72020</td>
<td>(2) Nozzles, 0.117&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79020</td>
<td>g - BLK g - G</td>
</tr>
<tr>
<td>72024</td>
<td>(2) Nozzles, 0.160&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79024</td>
<td>g - BLK g - G</td>
</tr>
</tbody>
</table>

**1/4" NPT/BSPT THREAD CT STYLE NOZZLES**

**0.0" NOZZLE LENGTH**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>72060</td>
<td>(2) Nozzles, 0.062&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79060</td>
<td>g - BLK g - G</td>
</tr>
<tr>
<td>72064</td>
<td>(2) Nozzles, 0.086&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79064</td>
<td>g - BLK g - G</td>
</tr>
<tr>
<td>72068</td>
<td>(2) Nozzles, 0.117&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79068</td>
<td>g - BLK g - G</td>
</tr>
<tr>
<td>72072</td>
<td>(2) Nozzles, 0.160&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79072</td>
<td>g - BLK g - G</td>
</tr>
</tbody>
</table>

**0.25" NOZZLE LENGTH**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>72061</td>
<td>(2) Nozzles, 0.062&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79061</td>
<td>g - BLK g - G</td>
</tr>
<tr>
<td>72065</td>
<td>(2) Nozzles, 0.086&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79065</td>
<td>g - BLK g - G</td>
</tr>
<tr>
<td>72069</td>
<td>(2) Nozzles, 0.117&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79069</td>
<td>g - BLK g - G</td>
</tr>
<tr>
<td>72073</td>
<td>(2) Nozzles, 0.160&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79073</td>
<td>g - BLK g - G</td>
</tr>
</tbody>
</table>

**0.5" NOZZLE LENGTH**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>72062</td>
<td>(2) Nozzles, 0.062&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79062</td>
<td>g - BLK g - G</td>
</tr>
<tr>
<td>72066</td>
<td>(2) Nozzles, 0.086&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79066</td>
<td>g - BLK g - G</td>
</tr>
<tr>
<td>72070</td>
<td>(2) Nozzles, 0.117&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79070</td>
<td>g - BLK g - G</td>
</tr>
<tr>
<td>72074</td>
<td>(2) Nozzles, 0.160&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79074</td>
<td>g - BLK g - G</td>
</tr>
</tbody>
</table>

**1.25" NOZZLE LENGTH**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>72063</td>
<td>(2) Nozzles, 0.062&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79063</td>
<td>g - BLK g - G</td>
</tr>
<tr>
<td>72067</td>
<td>(2) Nozzles, 0.086&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79067</td>
<td>g - BLK g - G</td>
</tr>
<tr>
<td>72071</td>
<td>(2) Nozzles, 0.117&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79071</td>
<td>g - BLK g - G</td>
</tr>
<tr>
<td>72075</td>
<td>(2) Nozzles, 0.160&quot; ø (10) Nozzles</td>
</tr>
<tr>
<td>79075</td>
<td>g - BLK g - G</td>
</tr>
</tbody>
</table>

10 PC. PACKAGES ARE AVAILABLE IN BLACK AND GRAY. TO ORDER BLACK OR GRAY LOC-LINE:

- BLK Part can be ordered in Black. Add suffix to part number when ordering, ie: 49421-BLK
- G Part can be ordered in Gray. Add suffix to part number when ordering, ie: 49421-G

**TECH SPECS**

Four nozzle diameters available on both CT and XR nozzles.

Four nozzle lengths available on both CT and XR nozzles.

- 0.0" / 0.0mm
- 0.25" / 6.4mm
- 0.50" / 12.7mm
- 1.25" / 31.8mm

Four nozzle diameters:

- 0.062" / 1.6mm
- 0.086" / 2.2mm
- 0.117" / 3.0mm
- 0.160" / 4.1mm
The XR (Extended Rotation) style nozzle features a wide nozzle swing and the ability to aim coolant below the horizontal plane, from 0 to 1000 PSI.

### XR HPT NOZZLES

#### 1/8" NPT/BSPT THREAD XR STYLE NOZZLES

**0.0" NOZZLE LENGTH**
- 72040 - (2) Nozzles, 0.062" ø
- 79040 - BLK - G (10) Nozzles
- 72044 - (2) Nozzles, 0.086" ø
- 79044 - BLK - G (10) Nozzles
- 72048 - (2) Nozzles, 0.117" ø
- 79048 - BLK - G (10) Nozzles
- 72052 - (2) Nozzles, 0.160" ø
- 79052 - BLK - G (10) Nozzles

**0.5" NOZZLE LENGTH**
- 72042 - (2) Nozzles, 0.062" ø
- 79042 - BLK - G (10) Nozzles
- 72046 - (2) Nozzles, 0.086" ø
- 79046 - BLK - G (10) Nozzles
- 72050 - (2) Nozzles, 0.117" ø
- 79050 - BLK - G (10) Nozzles
- 72054 - (2) Nozzles, 0.160" ø
- 79054 - BLK - G (10) Nozzles

**0.25" NOZZLE LENGTH**
- 72041 - (2) Nozzles, 0.062" ø
- 79041 - BLK - G (10) Nozzles
- 72045 - (2) Nozzles, 0.086" ø
- 79045 - BLK - G (10) Nozzles
- 72049 - (2) Nozzles, 0.117" ø
- 79049 - BLK - G (10) Nozzles
- 72053 - (2) Nozzles, 0.160" ø
- 79053 - BLK - G (10) Nozzles

**0.5" NOZZLE LENGTH**
- 72082 - (2) Nozzles, 0.062" ø
- 79082 - BLK - G (10) Nozzles
- 72086 - (2) Nozzles, 0.086" ø
- 79086 - BLK - G (10) Nozzles
- 72090 - (2) Nozzles, 0.117" ø
- 79090 - BLK - G (10) Nozzles
- 72094 - (2) Nozzles, 0.160" ø
- 79094 - BLK - G (10) Nozzles

**1.25" NOZZLE LENGTH**
- 72083 - (2) Nozzles, 0.062" ø
- 79083 - BLK - G (10) Nozzles
- 72087 - (2) Nozzles, 0.086" ø
- 79087 - BLK - G (10) Nozzles
- 72091 - (2) Nozzles, 0.117" ø
- 79091 - BLK - G (10) Nozzles
- 72095 - (2) Nozzles, 0.160" ø
- 79095 - BLK - G (10) Nozzles

### 1/4" NPT/BSPT THREAD XR STYLE NOZZLES

**0.0" NOZZLE LENGTH**
- 72080 - (2) Nozzles, 0.062" ø
- 79080 - BLK - G (10) Nozzles
- 72084 - (2) Nozzles, 0.086" ø
- 79084 - BLK - G (10) Nozzles
- 72088 - (2) Nozzles, 0.117" ø
- 79088 - BLK - G (10) Nozzles
- 72092 - (2) Nozzles, 0.160" ø
- 79092 - BLK - G (10) Nozzles

**0.25" NOZZLE LENGTH**
- 72081 - (2) Nozzles, 0.062" ø
- 79081 - BLK - G (10) Nozzles
- 72085 - (2) Nozzles, 0.086" ø
- 79085 - BLK - G (10) Nozzles
- 72089 - (2) Nozzles, 0.117" ø
- 79089 - BLK - G (10) Nozzles
- 72093 - (2) Nozzles, 0.160" ø
- 79093 - BLK - G (10) Nozzles

**0.5" NOZZLE LENGTH**
- 72082 - (2) Nozzles, 0.062" ø
- 79082 - BLK - G (10) Nozzles
- 72086 - (2) Nozzles, 0.086" ø
- 79086 - BLK - G (10) Nozzles
- 72090 - (2) Nozzles, 0.117" ø
- 79090 - BLK - G (10) Nozzles
- 72094 - (2) Nozzles, 0.160" ø
- 79094 - BLK - G (10) Nozzles

**1.25" NOZZLE LENGTH**
- 72083 - (2) Nozzles, 0.062" ø
- 79083 - BLK - G (10) Nozzles
- 72087 - (2) Nozzles, 0.086" ø
- 79087 - BLK - G (10) Nozzles
- 72091 - (2) Nozzles, 0.117" ø
- 79091 - BLK - G (10) Nozzles
- 72095 - (2) Nozzles, 0.160" ø
- 79095 - BLK - G (10) Nozzles

### NOZZLE ADJUSTMENT LEVERS

**ADJUSTMENT LEVERS**
- 72000 - (2) Adjustment Levers
- 79000 - (10) Adjustment Levers

The XR (Extended Rotation) style nozzle features a wide nozzle swing and the ability to aim coolant below the horizontal plane, from 0 to 1000 PSI.
TECHNICAL INFORMATION

IDENTIFYING LOC-LINE SYSTEMS

1/4" SYSTEM
- 0.64"

1/2" SYSTEM
- 0.88"

3/4" SYSTEM
- 1.23"

MEASURING LOC-LINE

1/4" SYSTEM
- 0.94"
- 2.65"
- 4.94"
- 6 ELEMENTS

1/2" SYSTEM
- 1.23"
- 3.90"
- 5.450"
- 6 ELEMENTS

1/2" SYSTEM
- 7.80"
- 10.98"
- 6 ELEMENTS

MINIMUM HOSE BENDING DIAMETER

1/4" SYSTEM
- 2.500"
- MIN. DIA.

1/2" SYSTEM
- 3.500"
- MIN. DIA.

1/2" SYSTEM
- 5.250"
- MIN. DIA.

LOC-LINE VALVE SPECIFICATIONS

1/4" VALVES
- 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
- Body and stem material: Acetal Copolymer
- Stem seal: Nitrile (Buna N)
- 1/4-turn shut off

1/2" VALVES
- Full 1/2" inside diameter
- Maximum Working Pressures:
  1/2" Hose: 20 PSI
  1/2" In-Line Valve: 20 PSI
- 1/2" Male and Female NPT Valves: 100 PSI
- Body and stem material: Acetal Copolymer
- Stem seal: Nitrile (Buna N)
- 1/4-turn shut off

3/4" VALVES
- 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
**LINE PRESSURE AND FLOW RATES**

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>PRESSURE (PSI)</th>
<th>FLOW RATE (gal/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1/4&quot;</strong></td>
<td>Standard</td>
<td>30 – 50</td>
</tr>
<tr>
<td></td>
<td>w/ clamps</td>
<td>up to 110 PSI*</td>
</tr>
<tr>
<td><strong>1/2&quot;</strong></td>
<td>Standard</td>
<td>20 – 30 PSI</td>
</tr>
<tr>
<td></td>
<td>w/ clamps</td>
<td>up to 110 PSI*</td>
</tr>
<tr>
<td><strong>3/4&quot;</strong></td>
<td>Standard</td>
<td>10 – 20 PSI</td>
</tr>
</tbody>
</table>

*Assumes use of element clamps on all joints and fully tightened.

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

**ASSEMBLY PROCEDURES AND TIPS**


**Rod Assembly Method:** Place the various pieces you would like assembled together over an appropriately sized dowel rod that is clamped into a vise or other stable base. Push the pieces together until they snap.

If you’re having difficulty with an NPT Connector, rub the ball with your fingers. The oil on your hands will make it easier to assemble.

If you are assembling a large number of parts, the use of 409® All-Purpose Cleaner will act as a lubricant to make assembly easier.

**MATERIAL SPECIFICATIONS**

**COMMON COMPATIBILITY WITH LOC-LINE ACETAL PRODUCTS**

- BLUE
- ORANGE
- BLACK
- GREY
- WHITE

<table>
<thead>
<tr>
<th>Compatibility</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>Acetone</td>
</tr>
<tr>
<td>Alcohol, Ethyl</td>
<td>Acids (Less than 150° F)</td>
</tr>
<tr>
<td>Ammonium Hydroxide, Strong</td>
<td>Acids (Greater than 150° F)</td>
</tr>
<tr>
<td>Bases, Strong</td>
<td>Alcohols</td>
</tr>
<tr>
<td>Commercial Dish Detergents</td>
<td>Aromatic Solvents</td>
</tr>
<tr>
<td>Gasoline</td>
<td>Chlorinated Hydrocarbon</td>
</tr>
<tr>
<td>Greases</td>
<td>Bases, Strong</td>
</tr>
<tr>
<td>Hypochlorite Ion Solutions</td>
<td>Ethyl Acetate</td>
</tr>
<tr>
<td>Lacquer Solvents</td>
<td>Gasoline</td>
</tr>
<tr>
<td>Oils</td>
<td>Greases</td>
</tr>
<tr>
<td>Sodium Hydroxide</td>
<td>Hydrocarbons</td>
</tr>
<tr>
<td>Sodium Hypochlorite</td>
<td>Oils</td>
</tr>
</tbody>
</table>

**ACETAL TEMPERATURE DATA**

- BLUE
- ORANGE
- BLACK
- GREY
- WHITE

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

**TEMPERATURE DATA - HPT NOZZLE**

Maximum operating temperature: 115° F

**ACETAL ANTI-STATIC ELECTRICAL PROPERTIES**

- BLACK (1/2" System)

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

**COMMON COMPATIBILITY WITH LOC-LINE POLYESTER PRODUCTS**

- YELLOW ACID RESISTANT

<table>
<thead>
<tr>
<th>Compatibility</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>No Acids</td>
</tr>
<tr>
<td>Alcohol, Ethyl</td>
<td>Yes Acids (Less than 150° F)</td>
</tr>
<tr>
<td>Ammonium Hydroxide, Strong</td>
<td>No Acids (Greater than 150° F)</td>
</tr>
<tr>
<td>Bases, Strong</td>
<td>Yes Alcohols</td>
</tr>
<tr>
<td>Chlorinated Hydrocarbon</td>
<td>Yes Aromatic Solvents</td>
</tr>
<tr>
<td>Bases, Strong</td>
<td>Chlorinated Hydrocarbon</td>
</tr>
<tr>
<td>Ethyl Acetate</td>
<td>No Ethyl Acetate</td>
</tr>
<tr>
<td>Gasoline</td>
<td>Yes Gasoline</td>
</tr>
<tr>
<td>Greases</td>
<td>Yes Greases</td>
</tr>
<tr>
<td>Hydrocarbons</td>
<td>Yes Greases</td>
</tr>
<tr>
<td>Oils</td>
<td>Yes Hydrocarbons</td>
</tr>
<tr>
<td>Salt Solutions</td>
<td>Yes Oils</td>
</tr>
</tbody>
</table>

**TEMPERATURE DATA - POLYESTER**

- YELLOW ACID RESISTANT

Melting point: 475° F
Maximum operating temperature: 170° F

**REGULATORY INFORMATION**

**FDA** – Acetal Copolymer meets the requirements for food contact in accordance to the rules in 21CFR 177.2470. All color pigments are used at the recommended let-down ratio that meet 21CFR 178.3297.

**NSF** – Acetal Copolymer meets the Standards 14, 51 and 61 meet plumbing items in contact with potable water.

Loc-Line products are REACH compliant and RoHS compliant. Loc-Line products are free from Ozone depleting chemicals.

Lockwood Products, Inc. does not produce Loc-Line in a FDA certified facility. Nor does Lockwood Products, Inc. warrant any particular application.

**ADDITIONAL FLOW RATE INFORMATION AND GRAPHS**

Additional flow rate information and graphs can be viewed at www.loc-line.com

**LINE PRESSURE AND FLOW RATES**

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>PRESSURE (PSI)</th>
<th>FLOW RATE (gal/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1/4&quot;</strong></td>
<td>Standard</td>
<td>30 – 50</td>
</tr>
<tr>
<td></td>
<td>w/ clamps</td>
<td>up to 110 PSI*</td>
</tr>
<tr>
<td><strong>1/2&quot;</strong></td>
<td>Standard</td>
<td>20 – 30 PSI</td>
</tr>
<tr>
<td></td>
<td>w/ clamps</td>
<td>up to 110 PSI*</td>
</tr>
<tr>
<td><strong>3/4&quot;</strong></td>
<td>Standard</td>
<td>10 – 20 PSI</td>
</tr>
</tbody>
</table>

*Assumes use of element clamps on all joints and fully tightened.

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

**ASSEMBLY PROCEDURES AND TIPS**


**Rod Assembly Method:** Place the various pieces you would like assembled together over an appropriately sized dowel rod that is clamped into a vise or other stable base. Push the pieces together until they snap.

If you’re having difficulty with an NPT Connector, rub the ball with your fingers. The oil on your hands will make it easier to assemble.

If you are assembling a large number of parts, the use of 409® All-Purpose Cleaner will act as a lubricant to make assembly easier.

**MATERIAL SPECIFICATIONS**

**COMMON COMPATIBILITY WITH LOC-LINE ACETAL PRODUCTS**

- BLUE
- ORANGE
- BLACK
- GREY
- WHITE

<table>
<thead>
<tr>
<th>Compatibility</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>Acetone</td>
</tr>
<tr>
<td>No Acids</td>
<td>Acids (Less than 150° F)</td>
</tr>
<tr>
<td>Yes Alcohol, Ethyl</td>
<td>Yes Acids (Greater than 150° F)</td>
</tr>
<tr>
<td>No Ammonium Hydroxide, Strong</td>
<td>Yes Alcohols</td>
</tr>
<tr>
<td>No Bases, Strong</td>
<td>Yes Aromatic Solvents</td>
</tr>
<tr>
<td>Yes Commercial Dish Detergents</td>
<td>Chlorinated Hydrocarbon</td>
</tr>
<tr>
<td>Yes Gasoline</td>
<td>No Bases, Strong</td>
</tr>
<tr>
<td>Yes Greases</td>
<td>No Ethyl Acetate</td>
</tr>
<tr>
<td>No Hypochlorite Ion Solutions</td>
<td>Yes Gasoline</td>
</tr>
<tr>
<td>Yes Lacquer Solvents</td>
<td>Yes Greases</td>
</tr>
<tr>
<td>Yes Oils</td>
<td>Yes Hydrocarbons</td>
</tr>
<tr>
<td>No Sodium Hydroxide</td>
<td>Yes Oils</td>
</tr>
<tr>
<td>No Sodium Hypochlorite</td>
<td>Yes Salt Solutions</td>
</tr>
</tbody>
</table>

**ACETAL TEMPERATURE DATA**

- BLUE
- ORANGE
- BLACK
- GREY
- WHITE

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

**TEMPERATURE DATA - HPT NOZZLE**

Maximum operating temperature: 115° F

**ACETAL ANTI-STATIC ELECTRICAL PROPERTIES**

- BLACK (1/2" System)

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

**COMMON COMPATIBILITY WITH LOC-LINE POLYESTER PRODUCTS**

- YELLOW ACID RESISTANT

<table>
<thead>
<tr>
<th>Compatibility</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>No Acids</td>
</tr>
<tr>
<td>No Acids</td>
<td>Acids (Less than 150° F)</td>
</tr>
<tr>
<td>Yes Acids (Greater than 150° F)</td>
<td>No Acids (Greater than 150° F)</td>
</tr>
<tr>
<td>Yes Alcohols</td>
<td>Yes Alcohols</td>
</tr>
<tr>
<td>No Ammonium Hydroxide, Strong</td>
<td>No Aromatic Solvents</td>
</tr>
<tr>
<td>No Bases, Strong</td>
<td>Chlorinated Hydrocarbon</td>
</tr>
<tr>
<td>Yes Commercial Dish Detergents</td>
<td>No Bases, Strong</td>
</tr>
<tr>
<td>Yes Gasoline</td>
<td>No Ethyl Acetate</td>
</tr>
<tr>
<td>Yes Greases</td>
<td>Yes Gasoline</td>
</tr>
<tr>
<td>No Hypochlorite Ion Solutions</td>
<td>Yes Greases</td>
</tr>
<tr>
<td>Yes Lacquer Solvents</td>
<td>Yes Hydrocarbons</td>
</tr>
<tr>
<td>Yes Oils</td>
<td>Yes Oils</td>
</tr>
<tr>
<td>No Sodium Hydroxide</td>
<td>Yes Salt Solutions</td>
</tr>
</tbody>
</table>

**TEMPERATURE DATA - POLYESTER**

- YELLOW ACID RESISTANT

Melting point: 475° F
Maximum operating temperature: 170° F

**REGULATORY INFORMATION**

**FDA** – Acetal Copolymer meets the requirements for food contact in accordance to the rules in 21CFR 177.2470. All color pigments are used at the recommended let-down ratio that meet 21CFR 178.3297.

**NSF** – Acetal Copolymer meets the Standards 14, 51 and 61 meet plumbing items in contact with potable water.

Loc-Line products are REACH compliant and RoHS compliant. Loc-Line products are free from Ozone depleting chemicals.

Lockwood Products, Inc. does not produce Loc-Line in a FDA certified facility. Nor does Lockwood Products, Inc. warrant any particular application.

**ADDITIONAL FLOW RATE INFORMATION AND GRAPHS**

Additional flow rate information and graphs can be viewed at www.loc-line.com