1/4-INCH SYSTEM

KITS

1/4" HOSE KIT
40413
(2) 5/4" 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) 5/4" Long Segments
(1) 1/4" 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" 90° Nozzles
(2) 1/4" 90° Nozzles
(2) 1/8" Round Nozzles
(2) 1/4" Round Nozzles
(2) Straight Flow Nozzles
(4) Element Clamps w/ screws
(8) Elements
(1) 1/4" Assembly Pliers

15 MM LATHE ADAPTER KIT
40476
(4) 15 mm Short Adapters
(4) 15 mm x 2" Adapters
(2) Flat 5-Hole Nozzles
(2) Flat Slot 60 Nozzles
(2) 1/8" 90° Nozzles
(2) 1/4" 90° Nozzles
(2) 1/8" Round Nozzles
(2) 1/4" Round Nozzles
(2) Straight Flow Nozzles
(4) Element Clamps w/ screws
(8) Elements
(1) 1/4" Assembly Pliers

1/4" EXTENDED ELBOWS WITH CLAMPS
40474
(4) Extended Elbows
(4) Element Clamps w/ screws

1/4" EXTENDED ELEMENT KIT WITH CLAMPS
41475
(4) 1/4" Extended Elements
(4) 1/4" Element Clamps w/ screws

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 pliers will not assemble part numbers 41411 or 49431

HOSES

1/4" HOSE
41401
(2) 5/4" Long Segments*
49420 ▲-BLK ▲-G
(55) Segments*, Bulk 25 ft
49419 ▲-BLK ▲-G
(1) 5 ft Coil
49421 ▲-BLK ▲-G
(1) 50 ft Coil
*1 Segment = 10 Elements

1/4" EXTENDED ELEMENT
41476
(4) Extended Elements
49445 ▲-BLK ▲-G
(20) Extended Elements

1/4" EXTENDED ELBOW
41491
(4) Extended Elbows
49457 ▲-BLK ▲-G
(20) Extended Elbows

HOW TO ORDER BLACK OR GRAY LOC-LINE
▲-BLK ▲ part can be ordered in Black
Add suffix to part number when ordering, i.e. 49421-BLK
▲-G ▲ part can be ordered in Gray
Add suffix to part number when ordering, i.e. 49421-G

Overall Length = 17.56
CUSTOMIZED SOLUTIONS

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 DO I ADD HOSE SUPPORT MID-WAY IN THE COOLANT LINE? Use our T Fitting which features a mounting boss.

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 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.

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

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

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.

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.
**LINE PRESSURE AND FLOW RATES**

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>LINE PRESSURE</th>
<th>FLOW RATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>30 – 50 PS</td>
<td>250 gal/hr</td>
</tr>
<tr>
<td>Standard with clamps</td>
<td>up to 110 PSI*</td>
<td>*Assumes use of element clamps on all joints and fully tightened.</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>20 – 30 PSI</td>
<td>478 gal/hr</td>
</tr>
<tr>
<td>Standard with clamps</td>
<td>up to 110 PSI*</td>
<td>*Assumes use of element clamps on all joints and fully tightened.</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>10 – 20 PSI</td>
<td>1,140 gal/hr</td>
</tr>
</tbody>
</table>

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 405® 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**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>Yes</td>
</tr>
<tr>
<td>Acids</td>
<td>Yes</td>
</tr>
<tr>
<td>Alcohol, Ethanol</td>
<td>Yes</td>
</tr>
<tr>
<td>Ammonium Hydroxide, Strong Bases</td>
<td>Yes</td>
</tr>
<tr>
<td>Commercial Dish Detergents</td>
<td>Yes</td>
</tr>
<tr>
<td>Gasoline</td>
<td>Yes</td>
</tr>
<tr>
<td>Greases</td>
<td>Yes</td>
</tr>
<tr>
<td>Hypochlorite Iodine Solutions</td>
<td>Yes</td>
</tr>
<tr>
<td>Lacquer Solvents</td>
<td>Yes</td>
</tr>
<tr>
<td>Oils</td>
<td>Yes</td>
</tr>
<tr>
<td>Sodium Hydroxide</td>
<td>Yes</td>
</tr>
<tr>
<td>Sodium Hypochlorite</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### ACETAL TEMPERATURE DATA

- **Blue**
- **Orange**
- **Black**
- **Grey**

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

### ACETAL ANTI-STATIC ELECTRICAL PROPERTIES

- **Black (1/2" System)**

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

### COMMON COMPATIBILITY WITH LOC-LINE POLYESTER PRODUCTS

- **Yellow Acid Resistant**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>Yes</td>
</tr>
<tr>
<td>Acids, (Less than 150°F)</td>
<td>Yes</td>
</tr>
<tr>
<td>Acids, (Greater than 150°F)</td>
<td>Yes</td>
</tr>
<tr>
<td>Alcohols</td>
<td>Yes</td>
</tr>
<tr>
<td>Aromatic Solvents</td>
<td>Yes</td>
</tr>
<tr>
<td>Chlorinated Hydrocarbons</td>
<td>Yes</td>
</tr>
<tr>
<td>Bases, Strong</td>
<td>Yes</td>
</tr>
<tr>
<td>Ethyl Acetate</td>
<td>Yes</td>
</tr>
<tr>
<td>Gasoline</td>
<td>Yes</td>
</tr>
<tr>
<td>Greases</td>
<td>Yes</td>
</tr>
<tr>
<td>Hydrocarbons</td>
<td>Yes</td>
</tr>
<tr>
<td>Oils</td>
<td>Yes</td>
</tr>
<tr>
<td>Salt Solutions</td>
<td>Yes</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 178.3257

- **NSF**: Acetal Copolymer meets the Standards 14, 51 and 61 for 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.