Overview
The primary use of these hoses is to transfer water-based liquids. They are usually used in conjunction with pumps, especially in the construction industry.

Hoses in this Category

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<tr>
<th>Suction and Discharge Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Royalflex</td>
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<tr>
<td>Otter</td>
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<tr>
<td>9F Arrow-Flo</td>
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<tr>
<td>Spiraflex® Aggie PVC</td>
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<tr>
<td>Spiraflex® 1600</td>
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<td>Green Hornet™ XF</td>
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<tr>
<td>Plicord Con-Ag™</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Discharge Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Layflat Discharge</td>
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<tr>
<td>Mill Discharge</td>
</tr>
<tr>
<td>Spiraflex® Blue</td>
</tr>
<tr>
<td>Spiraflex® Red</td>
</tr>
<tr>
<td>Spiraflex® Black</td>
</tr>
</tbody>
</table>

Applications
- Transfer of water, liquid-diluted fertilizers and pesticides
- Pumping, suction and discharge of water and slurries
- Vacuum transfer of light powders and mild chemicals
- Industrial and agricultural
- Pneumatic conveying hose
- Open-end water discharge

Choosing a Hose
When choosing a hose it is important to look at all of the aspects of the application: size, temperature, application, material, pressure, ends and delivery. This is the reason there are multiple hoses in a category. Each hose has its own unique features and advantages that are described on the following pages. These features, along with working pressure, determine if the hose is acceptable to use in an application.

The information contained in this Product Information Report is to be used for recommendation purposes only. Please contact Lawson Engineering to discuss compatibility, pressures, temperatures, end fitting selection and assembly procedures.
### Industrial Hose Couplings

<table>
<thead>
<tr>
<th>Service</th>
<th>Cam and Groove</th>
<th>Interlocking Inserts</th>
<th>Steel Nipple</th>
<th>Combination Nipples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low and medium pressure water, petroleum and chemical transfer where fast connections are needed; also used for suction service</td>
<td>High pressure air and water service, steam, high pressure spray and LPG service</td>
<td>Medium to high pressure</td>
<td>Low or medium pressure suction and discharge of water, fluids and material handling</td>
<td></td>
</tr>
<tr>
<td>Size Range</td>
<td>1/2&quot; to 8&quot;</td>
<td>1/4&quot; to 6&quot;</td>
<td>1/4&quot; to 1&quot;</td>
<td>1/2&quot; to 12&quot;</td>
</tr>
<tr>
<td>Description</td>
<td>Aluminum, bronze, stainless steel, Monel®, malleable iron; washer seal with no threads</td>
<td>Plated malleable iron; insert and spud may be either steel or malleable iron; NPT male and female with ground joint or washer seal</td>
<td>Machined from cold drawn bar steel, heat-treated for toughness</td>
<td>Tubular steel, stainless, malleable iron, aluminum or brass with serrated shank; NPT male threads, grooved or beveled for welding</td>
</tr>
<tr>
<td>Attachment</td>
<td>Clamps, bands or crimp/swage ferrules</td>
<td>Interlocking clamps</td>
<td>Interlocking clamps</td>
<td>Clamps or bands</td>
</tr>
</tbody>
</table>

### Industrial Hose Couplings

<table>
<thead>
<tr>
<th>Service</th>
<th>Long Shank Inserts</th>
<th>Stainless Steel Hose Barb Fittings</th>
<th>Brass Hose Barb Fittings</th>
<th>Water Suction</th>
<th>Stainless Steel Short Shank Inserts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium pressure air, water, sanitary and liquids in suction or discharge service</td>
<td>Low or medium pressure air, water and fluids</td>
<td>Heavy-duty water discharge and suction service</td>
<td>Low pressure air and water service</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Size Range</td>
<td>3/8&quot; to 4&quot;</td>
<td>3/16&quot; to 1&quot;</td>
<td>1&quot; to 8&quot;</td>
<td>3/16&quot; to 1&quot;</td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>Machined steel or brass with serrated shank; NPT or NPSM male and female; thread seal to NPT and washer seal to NPSM female</td>
<td>Machined brass with serrated shank; NPT or NPTF male and rigid female, and NPSM swivel female; thread seal to NPT or NPTF female, and ball end or washer seal to NPSM female</td>
<td>Malleable iron, aluminum and/or brass</td>
<td>Cast brass with serrated shank; GHT, NPSM or NPT male and NPSH female; washer seal</td>
<td></td>
</tr>
<tr>
<td>Attachment</td>
<td>Clamps or bands</td>
<td>Clamps or bands</td>
<td>Clamps or bands</td>
<td>Clamps or bands</td>
<td></td>
</tr>
</tbody>
</table>
Industrial Hose: Suction and Discharge Hose

Industrial Hose Clamps and Ferrules

<table>
<thead>
<tr>
<th>Service</th>
<th>Interlocking Clamps</th>
<th>Double Bolt Clamp</th>
<th>Form Seal Clamp</th>
<th>Brass Hose Ferrules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size Range</td>
<td>9/16” to 7-3/16” hose O.D.</td>
<td>3-1/2” to 17-1/2” hose O.D.</td>
<td>3/4” to 6” hose O.D.</td>
<td>31/64” to 1-1/2” hose O.D.</td>
</tr>
<tr>
<td>Description</td>
<td>Malleable iron, plated</td>
<td>Cast malleable iron, plated and brass</td>
<td>Pre-formed flat stainless steel, high carbon steel</td>
<td>Made from various gauge brass tubing; stamped with Standard Industrial Part Number</td>
</tr>
<tr>
<td>Attachment</td>
<td>Clamps bolted into position</td>
<td>Applied over hose and bolted into position</td>
<td>Special locking band tool</td>
<td>Crimped on using either ribbed or plain die</td>
</tr>
</tbody>
</table>

Reminder

The following pages contain brief descriptions of the Industrial Hoses that Lawson offers. With each hose description there is a chart that lists the Couplings and Clamps/Ferrules that can be used to terminate the hose to make a custom assembly.

The final working pressure of a hose assembly is the lesser of the following: hose working pressure or the pressure listed on the chart. The final hose assembly should be marked accordingly. Also, next to the pressure in the charts there is a number in parenthesis (#) this number corresponds to the number of clamps necessary to make a hose connection.

The necessary steps required to make the hose assembly are listed in the charts under the Assembly Procedures Column.
Suction and Discharge Hose

H1196 Royalflex Hose (Good Quality)

Specifications
• Inner Tube Material: Thermoplastic vinyl nitrile
• Outer Cover: Thermoplastic vinyl nitrile MSHA approved
• Reinforcement: 100% polyester and helical wire
• Color: Blue
• Temperature Range: –20°F to +180°F (–29°C to +82°C)

Features/Advantages
• Thermoplastic Vinyl nitrile homogeneous tube
• Ribbed cover
• More turns of helical wire per inch
• High working pressures
• Lightweight
• Flexible

Applications
• Transfer of water, liquid diluted fertilizers and pesticides
• Pumping, suction, and discharge of water and slurries

Markets
• Agriculture
• Construction
• Mining
• Oil exploration/drilling
• Waste hauling

<table>
<thead>
<tr>
<th>Application</th>
<th>Couplings</th>
<th>Clamps and Ferrules</th>
<th>Assembly Procedure</th>
<th>Hose Size and Fitting</th>
<th>Maximum Recommended Working Pressure (PSI)*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1-1/2&quot;</td>
<td>2&quot;</td>
</tr>
<tr>
<td>Chemical (rubber-lined)</td>
<td>Long Shank</td>
<td>Form-Seal Clamps</td>
<td>2100 – 2101</td>
<td>150  (3)</td>
<td>125  (4)</td>
</tr>
<tr>
<td></td>
<td>Cam and Groove</td>
<td></td>
<td></td>
<td>250  (2)</td>
<td>250  (2)</td>
</tr>
<tr>
<td></td>
<td>Interlocking, Steel Nipple</td>
<td>Interlocking Clamps</td>
<td>2000 – 2004</td>
<td>600</td>
<td>600</td>
</tr>
<tr>
<td>Water</td>
<td>Combination Nipple</td>
<td>Form-Seal Clamps</td>
<td>2100 – 2101</td>
<td>125  (2)</td>
<td>75   (2)</td>
</tr>
<tr>
<td></td>
<td>Long Shank</td>
<td></td>
<td></td>
<td>150  (3)</td>
<td>125  (4)</td>
</tr>
<tr>
<td></td>
<td>Cam and Groove</td>
<td></td>
<td></td>
<td>250  (2)</td>
<td>250  (2)</td>
</tr>
<tr>
<td></td>
<td>Interlocking, Steel Nipple</td>
<td>Interlocking Clamps</td>
<td>2000 – 2002</td>
<td>600</td>
<td>600</td>
</tr>
</tbody>
</table>

*The number in parenthesis is the number of bands/clamps required.

**Assembly Procedure**

- Chemical (rubber-lined): Long Shank, Cam and Groove, Interlocking, Steel Nipple
- Water: Combination Nipple, Long Shank, Cam and Groove, Interlocking, Steel Nipple

**Hose Size and Fitting**

- Chemical (rubber-lined): Form-Seal Clamps, Interlocking Clamps
- Water: Form-Seal Clamps, Interlocking Clamps
- Contact Engineering
Suction and Discharge Hose (cont.)

H0364 Otter Hose (Better Quality)

Specifications
- Inner Tube Material: EPDM
- Outer Cover: EPDM
- Reinforcement: Fiber, 2- or 4-ply and helical wire
- Color: Black
- Temperature Range: −10°F to +180°F (−23°C to +82°C)

Features/Advantages
- Multipurpose hose
- Resistant to diluted liquid fertilizers
- Good oil resistance
- Economical
- Abrasion and weather resistant
- Full vacuum
- Longer lengths

Applications
- Transfer of water, diluted liquid fertilizers and pesticides
- Pumping, suction, and discharge of water and slurries
- Convey water
- Transfer and haul salt water (brine)

Markets
- Agriculture
- Construction
- Tank trucks
- Oil exploration/drilling
- Waste hauling

Coupling and Clamp Selection

<table>
<thead>
<tr>
<th>Application</th>
<th>Couplings</th>
<th>Clamps and Ferrules</th>
<th>Assembly Procedure</th>
<th>Hose Size and Fitting Maximum Recommended Working Pressure (PSI)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical (plastic-lined)</td>
<td>Combination Nipple</td>
<td>Form-Seal Clamps</td>
<td>2100 – 2101</td>
<td>1-1/4&quot; 1-1/2&quot; 2&quot; 2-1/2&quot; 3&quot; 4&quot; 5&quot; 6&quot;</td>
</tr>
<tr>
<td></td>
<td>Long Shank</td>
<td></td>
<td></td>
<td>150 (3) 150 (3) 125 (4) 100 (4) 75 (5) 75 (5)</td>
</tr>
<tr>
<td></td>
<td>Cam and Groove</td>
<td></td>
<td></td>
<td>250 (2) 250 (2) 250 (2) 150 (2) 125 (2) 100 (2)</td>
</tr>
<tr>
<td></td>
<td>Interlocking, Steel Nipple</td>
<td>Interlocking Clamps</td>
<td>2000 – 2004</td>
<td>600 600 600 450 450 250</td>
</tr>
<tr>
<td>Water</td>
<td>Water Suction, SS Short Shank Inserts</td>
<td>Form-Seal Clamps</td>
<td>2100 – 2101</td>
<td>75 (1) 75 (2) 75 (2) 50 (2) 50 (3) 50 (3)</td>
</tr>
<tr>
<td></td>
<td>Combination Nipple</td>
<td></td>
<td></td>
<td>150 (1) 125 (2) 75 (2) 75 (2) 50 (3) 50 (3)</td>
</tr>
<tr>
<td></td>
<td>Long Shank</td>
<td></td>
<td></td>
<td>300 (3) 150 (3) 125 (4) 100 (4) 75 (5) 75 (5)</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td>250 (2) 250 (2) 250 (2) 150 (2) 125 (2) 100 (2)</td>
</tr>
<tr>
<td></td>
<td>Interlocking, Steel Nipple</td>
<td>Interlocking Clamps</td>
<td>2000 – 2002</td>
<td>600 600 600 450 450 250</td>
</tr>
<tr>
<td></td>
<td>Water Suction, SS Short Shank Inserts</td>
<td>Double Bolt Clamp</td>
<td>2201</td>
<td>– 75 (1) 75 (1) 50 (1) 50 (2) 50 (2)</td>
</tr>
<tr>
<td></td>
<td>Combination Nipple</td>
<td></td>
<td></td>
<td>– 125 (1) 75 (1) 75 (1) 50 (2) 50 (2)</td>
</tr>
<tr>
<td></td>
<td>Long Shank</td>
<td></td>
<td></td>
<td>– 150 (3) 125 (3) 100 (3) 75 (3) 75 (3)</td>
</tr>
</tbody>
</table>

*The number in parenthesis is the number of bands/clamps required.
### Spiraflex® Aggie PVC (Good Quality)

**Specifications**
- Inner Tube Material: EPDM
- Outer Cover: EPDM
- Reinforcement: Fiber, 2- or 4-ply and helical wire
- Color: Black
- Temperature Range: \(-10^\circ F\) to \(+180^\circ F\) (-23°C to +82°C)

**Features/Advantages**
- Multipurpose hose
- Resistant to diluted liquid fertilizers
- Good oil resistance
- Economical
- Abrasion and weather resistant
- Full vacuum
- Longer lengths

**Applications**
- Transfer of water, diluted liquid fertilizers and pesticides
- Pumping, suction, and discharge of water and slurries
- Convey water
- Transfer and haul salt water (brine)

**Markets**
- Agriculture
- Construction
- Tank trucks
- Oil exploration/drilling

### Spiraflex® 1600 (Good Quality)

**Specifications**
- Inner Tube Material: Olive Green Pliovic™
- Outer Cover: Olive Green Pliovic™
- Reinforcement: Fiber, High-density white rigid Pliovic™ helix
- Color: Olive Green Pliovic™
- Temperature Range: \(0^\circ F\) to \(+158^\circ F\) (-9°C to +70°C)

**Features/Advantages**
- Full vacuum or discharge
- Good oil resistance
- Light weight
- Abrasion resistant
- Multipurpose hose

**Applications**
- Transfer of water, diluted liquid fertilizers and pesticides
- Pumping, suction, and discharge of water and slurries
- Convey water
- Transfer and haul salt water (brine)

**Markets**
- Agriculture
- Construction
- Pool and spa
- Oil exploration/drilling

### Coupling and Clamp Selection

<table>
<thead>
<tr>
<th>Application</th>
<th>Couplings</th>
<th>Clamps and Ferrules</th>
<th>Assembly Procedure</th>
<th>Maximum Recommended Working Pressure (PSI)*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>1/4&quot;</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>Chemical (plastic-lined)</td>
<td>Combination Nipple</td>
<td>Form-Seal Clamps</td>
<td>2100 – 2101</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>Long Shank</td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>Cam and Groove</td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Water</td>
<td>SS Hose Barb Fittings, Brass Garden Hose Fittings, Brass Air Hose Ferrules</td>
<td>Form-Seal Clamps</td>
<td>2304</td>
<td>200</td>
</tr>
<tr>
<td>Water Suction, SS Short Shank Inserts</td>
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<td></td>
<td>2304</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>Combination Nipple</td>
<td>Form-Seal Clamps</td>
<td>2100 – 2101</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>Long Shank</td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>Cam and Groove</td>
<td></td>
<td>–</td>
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</tr>
<tr>
<td>Interlocking, Steel Nipple</td>
<td>Interlocking Clamps</td>
<td></td>
<td>2000 – 2002 600 600 600</td>
<td>–</td>
</tr>
</tbody>
</table>

*The number in parenthesis is the number of bands/clamps required.*
### Suction and Discharge Hose (cont.)

**Green Hornet™ XF (Better Quality)**

**Specifications**
- Inner Tube Material: Black thermoplastic rubber, RMA Class B
- Outer Cover: Not applicable
- Reinforcement: Rigid, lime-green polyethylene helix
- Color: Black/green helix
- Temperature Range: \(-40^\circ F\) to \(+180^\circ F\) (\(-40^\circ C\) to \(+82^\circ C\))

**Features/Advantages**
- Lightweight
- Easy to handle
- Good oil resistance
- Economical
- Cold weather resistant
- Medium-duty

**Applications**
- Pumping, suction, and discharge of water and slurries
- Convey water
- Transfer of water-based liquid fertilizers

**Markets**
- Agriculture
- Construction
- Industrial
- Waste management
- Marine

**Plicord® Con-Ag™ (Best Quality)**

**Specifications**
- Inner Tube Material: Black Versigard® synthetic rubber
- Outer Cover: Black Versigard® synthetic rubber (wrapped finish) with yellow spiral stripe
- Reinforcement: Spiral-plied synthetic fabric with wire helix
- Color: Black
- Temperature Range: \(-40^\circ F\) to \(+180^\circ F\) (\(-40^\circ C\) to \(+82^\circ C\))

**Features/Advantages**
- Easy to handle
- Good oil resistance
- Economical
- Cold weather resistant
- Medium- to heavy-duty operations

**Applications**
- Transfer of water, diluted liquid fertilizers and pesticides
- Pumping, suction, and discharge of water and slurries
- Convey water
- Transfer and haul salt water (brine)

**Markets**
- Agriculture
- Construction
- Industrial
- Waste management
- Marine

### Coupling and Clamp Selection

| Application | Couplings | Clamps and Ferrules | Assembly Procedure | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" | 4" | 5" | 6" |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chemical (rubber-lined) | Combination Nipple | Form-Seal Clamps | 2100 – 2101 | – | – | 125 (1) | – | 125 (1) | 125 (1) | 125 (1) | 125 (2) | 75 (2) | 75 (2) | 50 (3) | 50 (3) | – | – |
| | Long Shank | – | – | 150 (2) | – | 150 (2) | 150 (2) | 150 (2) | 150 (3) | 150 (3) | 125 (4) | 100 (4) | 75 (5) | 75 (5) | – | – |
| | Cam and Groove | – | – | 150 (2) | – | 250 (2) | 250 (2) | 250 (2) | 250 (2) | 250 (3) | 150 (2) | 125 (2) | 100 (2) | – | – | – |
| Interlocking Inserts, Steel Nipples | Interlocking Clamps | 2000 – 2004 | – | 600 | 600 | 600 | 600 | 600 | 600 | 450 | 450 | 250 | – | – | – | – |
| Water | SS Hose Barb, Brass Hose Barb Fittings, Brass Garden Hose Fittings | Form-Seal Clamps | 2100 – 2101 | – | – | 150 (1) | 100 (1) | 100 (1) | 100 (1) | – | – | – | – | – | – | – | – |
| | Brass Air Hose Ferrules | 2304 | 200 | 150 | 150 | 100 | 100 | – | – | – | – | – | – | – | – | – |
| Water Suction, SS Short Shank Inserts | Combination Nipple | Form-Seal Clamps | 2100 – 2101 | – | – | 150 (1) | 100 (1) | 100 (1) | 100 (1) | 75 (1) | 75 (2) | 75 (2) | 50 (2) | 50 (3) | 50 (3) | 25 (3) | 25 (4) |
| | Long Shank | – | – | 250 (1) | 200 (1) | 200 (1) | 150 (1) | 150 (1) | 125 (2) | 75 (2) | 75 (2) | 50 (2) | 50 (3) | 50 (3) | 25 (3) | 25 (4) |
| | Cam and Groove | – | – | 300 (2) | 300 (2) | 300 (2) | 300 (2) | 250 (2) | 150 (3) | 125 (4) | 100 (4) | 75 (5) | 75 (5) | – | – | – |
| | Interlocking, Steel Nipple | 2000 – 2002 | 600 | 600 | 600 | – | 600 | 600 | – | 600 | 600 | 450 | 450 | 250 | – | 250 |

*The number in parenthesis is the number of bands/clamps required.*
Discharge Hose

Layflat Discharge Hose (Good Quality)

Specifications
- Inner Tube Material: PVC
- Outer Cover: PVC
- Reinforcement: Terylene yarn
- Color: Blue – Economy
  Red – Abrasion and Pressure
  Black/Dark Grey – Pressure
- Temperature Range: -5°F to +170°F (-20°C to +77°C)

Features/Advantages
- Light weight
- Easy to handle
- Excellent flexibility
- Economical
- Abrasion and weather resistant
- General purpose

Applications
- Open end water discharge
- Folds flat for easy storage
- Smooth skin for easy cleaning

Markets
- Agriculture
- Construction
- Industrial
- Mining

Coupling and Clamp Selection

<table>
<thead>
<tr>
<th>Application</th>
<th>Couplings</th>
<th>Clamps and Ferrules</th>
<th>Assembly Procedure</th>
<th>1-1/2&quot;</th>
<th>2&quot;</th>
<th>2-1/2&quot;</th>
<th>3&quot;</th>
<th>4&quot;</th>
<th>5&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>Water Suction</td>
<td>Form-Seal Clamps</td>
<td>2100 – 2101</td>
<td>75 (2)</td>
<td>75 (2)</td>
<td>50 (2)</td>
<td>50 (3)</td>
<td>50 (3)</td>
<td>25 (4)</td>
</tr>
<tr>
<td></td>
<td>Combination Nipple</td>
<td></td>
<td></td>
<td>125 (2)</td>
<td>75 (2)</td>
<td>75 (2)</td>
<td>50 (3)</td>
<td>50 (3)</td>
<td>25 (4)</td>
</tr>
<tr>
<td></td>
<td>Cam and Groove</td>
<td></td>
<td></td>
<td>250 (2)</td>
<td>250 (2)</td>
<td>150 (2)</td>
<td>125 (2)</td>
<td>100 (2)</td>
<td>75 (3)</td>
</tr>
<tr>
<td>Water</td>
<td>Water Suction</td>
<td>Double Bolt Clamp</td>
<td>2201</td>
<td>75 (1)</td>
<td>75 (1)</td>
<td>50 (1)</td>
<td>50 (2)</td>
<td>50 (2)</td>
<td>25 (3)</td>
</tr>
<tr>
<td></td>
<td>Combination Nipple</td>
<td></td>
<td></td>
<td>125 (1)</td>
<td>75 (1)</td>
<td>75 (1)</td>
<td>50 (2)</td>
<td>50 (2)</td>
<td>25 (3)</td>
</tr>
</tbody>
</table>

*The number in parenthesis is the number of bands/clamps required.

Mill Discharge Hose (Better Quality)

Specifications
- Inner Tube Material: SBR rubber
- Outer Cover: Polyester yarn
- Reinforcement: None
- Color: White
- Temperature Range: -25°F to +185°F (-32°C to +85°C)

Features/Advantages
- Handles higher pressures than PVC hose
- Easy to handle
- Excellent flexibility
- Economical
- Abrasion and weather resistant
- General purpose
- Light weight

Applications
- Open end water discharge
- Folds flat for easy storage
- Smooth skin for easy cleaning

Markets
- Agriculture
- Construction
- Industrial
- Mining
- Environmental clean-up
### Discharge Hose (cont.)

#### Spiraflex® Blue (Good Quality)

**Specifications**
- Inner Tube Material: Blue PVC compound
- Outer Cover: Blue PVC compound
- Reinforcement: Synthetic fabric
- Color: Blue
- Temperature Range: −10°F to +150°F (−23°C to +66°C)

**Features/Advantages**
- Light-duty water discharge
- Light weight – easy to maneuver
- Economical
- Good abrasion, age and water resistance

**Applications**
- Light-duty water discharge applications

**Markets**
- Agriculture
- Construction
- Forest industry
- Mining
- Marine

#### Spiraflex® Red (Better Quality)

**Specifications**
- Inner Tube Material: Black Pliovic®/nitrile rubber tube
- Outer Cover: Red Pliovic®, MSHA 2G-14C/16
- Reinforcement: Spiral synthetic yarn, one layer longitudinal
- Color: Red
- Temperature Range: −10°F to +150°F (−23°C to +66°C)

**Features/Advantages**
- Flame-resistant cover
- Limited chemical resistance
- Limited oil resistance
- Light weight – easy to maneuver

**Applications**
- Medium-duty water discharge applications

**Markets**
- Agriculture
- Construction
- Forest industry
- Mining
- Marine

#### Spiraflex® Black (Best Quality)

**Specifications**
- Inner Tube Material: Nitrile/PVC compound
- Outer Cover: Nitrile/PVC compound
- Reinforcement: Through-the-weave fabric reinforcement
- Color: Black
- Temperature Range: −36°F to +178°F (−37°C to +81°C)

**Features/Advantages**
- Light weight
- High working pressure
- Mildew resistant
- Abrasion and weather resistant
- Folds flat for easy storage
- Tube and cover are simultaneously extruded to obtain maximum bending

**Applications**
- Irrigation, wash down, coal preparation and utility plants, gas drilling, jetting and pump discharge, storage and sewer cleaning

**Markets**
- Railroads
- Construction
- Quarries/mines
- Oil and gas industries
- Ship building

### Coupling and Clamp Selection

<table>
<thead>
<tr>
<th>Application</th>
<th>Couplings</th>
<th>Clamps and Ferrules</th>
<th>Assembly Procedure</th>
<th>1/4&quot;</th>
<th>3/8&quot;</th>
<th>1/2&quot;</th>
<th>5/8&quot;</th>
<th>3/4&quot;</th>
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*The number in parenthesis is the number of bands/clamps required.*