USA Sealing’s selection of tubing and fittings provides a solution to any application requiring the movement of air, water, food, beverage, petroleum, or chemicals. We offer a deep selection of plastic and rubber tubing with lines developed specifically for high pressure, food processing, and high purity environments. We also offer a variety of metal and plastic tube, hose, and pipe fittings used to complete the connection on your line.
## Tubing

<table>
<thead>
<tr>
<th>Material</th>
<th>Usage</th>
<th>Grade</th>
<th>Reinforced</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVC</td>
<td>Multipurpose</td>
<td>3A</td>
<td></td>
</tr>
<tr>
<td>Silicone</td>
<td>High Temperature</td>
<td>3A</td>
<td></td>
</tr>
<tr>
<td>PTFE</td>
<td>High Temperature and Chemicals</td>
<td>3A</td>
<td></td>
</tr>
<tr>
<td>Polyurethane</td>
<td>Abrasion</td>
<td>NSF</td>
<td></td>
</tr>
<tr>
<td>Nylon</td>
<td>Air</td>
<td>NSF</td>
<td></td>
</tr>
<tr>
<td>Latex</td>
<td>Flexible</td>
<td>NSF</td>
<td></td>
</tr>
<tr>
<td>FEP</td>
<td>High Temperature and Chemicals</td>
<td>NSF</td>
<td></td>
</tr>
<tr>
<td>Viton</td>
<td>High Temperature and Chemicals</td>
<td>NSF</td>
<td></td>
</tr>
<tr>
<td>Buna-N</td>
<td>Oils</td>
<td>NSF</td>
<td></td>
</tr>
<tr>
<td>Neoprene</td>
<td>Refrigerants</td>
<td>NSF</td>
<td></td>
</tr>
<tr>
<td>EPDM</td>
<td>Water &amp; Steam</td>
<td>NSF</td>
<td></td>
</tr>
</tbody>
</table>

### Key

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3A</td>
<td>Certified for use with dairy, pharmaceutical, food and beverage</td>
</tr>
<tr>
<td>NSF</td>
<td>Certified for use with drinking water</td>
</tr>
<tr>
<td>Laboratory</td>
<td>High purity formulation that is free of phthalates and DEHP</td>
</tr>
<tr>
<td>Fuel and Lubricant</td>
<td>Resists swelling and hardening caused by petroleum-based fluids</td>
</tr>
<tr>
<td>DOT</td>
<td>Meets SAE J44 for use in air brake systems</td>
</tr>
<tr>
<td>Polyester Braid</td>
<td>withstands High Pressure</td>
</tr>
<tr>
<td>Stainless Steel Wire</td>
<td>withstands Vacuum Pressure</td>
</tr>
</tbody>
</table>
Push-to-Connect Tube Fittings

Tubing slides into fitting and is held in place by an internal gripping ring.

**Materials**

**FITTINGS AVAILABLE**
- Nylon
  for transfer of air
- Polybutylene
  for transfer of water and high humidity air

**THREADS**
- Nickel-Plated Brass
  for enhanced corrosion resistance
- PTFE Thread Sealant
  protects against leaks

**Key**

**SUBTYPE**
- Bulkhead
  used to pass connection through wall or panel
- Reducer
  connects tubing of different sizes

**THREAD TYPE**
- NPT Thread
- BSPT Thread

**TUBE SIZE**
- Inch
- Metric

---

**STRAIGHTS**

- **Union Straight**
  - SUBTYPE: B
  - THREAD TYPE: NPT
  - TUBE SIZE: 1/2 in

- **Male Straight**
  - THREAD TYPE: MPT
  - TUBE SIZE: 1/2 in

- **Female Straight**
  - THREAD TYPE: NPT
  - TUBE SIZE: 1/2 in

**CAPS & PLUGS**

- **Caps**
  - TUBE SIZE: 1/2 in

- **Plugs**
  - TUBE SIZE: 1/2 in

**ELBOWS**

- **Union Elbow**
  - SUBTYPE: B
  - THREAD TYPE: NPT
  - TUBE SIZE: 1/2 in

- **Male 90° Elbow**
  - THREAD TYPE: MPT
  - TUBE SIZE: 1/2 in

- **Male 45° Elbow**
  - THREAD TYPE: NPT
  - TUBE SIZE: 1/2 in

- **Female 90° Elbow**
  - THREAD TYPE: MPT
  - TUBE SIZE: 1/2 in

**WYES**

- **Union Wye**
  - THREAD TYPE: NPT
  - TUBE SIZE: 1/2 in

- **Male Wye**
  - THREAD TYPE: MPT
  - TUBE SIZE: 1/2 in

**TEES**

- **Union Tee**
  - SUBTYPE: B
  - THREAD TYPE: NPT
  - TUBE SIZE: 1/2 in

- **Male Branch Tee**
  - THREAD TYPE: MPT
  - TUBE SIZE: 1/2 in

- **Female Tee**
  - THREAD TYPE: NPT
  - TUBE SIZE: 1/2 in

- **Union Cross**
  - THREAD TYPE: MPT
  - TUBE SIZE: 1/2 in

**CROSSES**

**MANIFOLDS**

- **Manifold Union**
  - TUBE SIZE: 1/2 in
Quick Disconnect Tube Fittings

Couplings easily connect and disconnect for applications where frequent line access is required.

**SOCKETS**

- **Hose Barb Straight**
  - Sub-type: BH

- **Compression End Straight**
  - Sub-type: BH

- **Male NPT Straight**
  - Sub-type: BH

**PLUGS**

- **Hose Barb Straight**
  - Sub-type: BH

- **Compression End Straight**
  - Sub-type: BH

- **Male NPT Straight**
  - Sub-type: BH

- **Hose Barb Elbow**
  - Sub-type: BH

**Features**

- Acetal Body
  - Moisture resistant

- 316 Stainless Steel Latch
  - Corrosion resistant

- Auto Shut-Off
  - Valve stops flow when the coupling is separated

**Key**

- **Bulkhead**
  - Used to pass connection through wall or panel
Flared Tube Fittings
A sleeve bites into fluted tubing as you tighten the nut, which creates a seal that withstands extreme pressure.

STRAIGHTS

Male Straight
Female Straight

PLUGS & CAPS

Plug
Cap

ELBOWS

Male Elbow
Union Elbow

NUTS & SLEEVES

Nut
Sleeves

Material

<table>
<thead>
<tr>
<th>Material</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>304 Stainless Steel</td>
<td>Very good corrosion resistance</td>
</tr>
<tr>
<td>316 Stainless Steel</td>
<td>Excellent corrosion resistance</td>
</tr>
<tr>
<td>Brass</td>
<td>Good strength and corrosion resistance</td>
</tr>
</tbody>
</table>
Compression Tube Fittings

A single sleeve bites into tubing as you tighten the nut, which creates a strong seal.

Instrumentation Tube Fittings

A nut with two sleeves gives these fittings extra gripping power and allows them to withstand higher pressures.

<table>
<thead>
<tr>
<th>STRAIGHTS</th>
<th>ELBOWS</th>
<th>TEES</th>
<th>NUTS &amp; SLEEVES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male Straight</td>
<td>Male Elbow</td>
<td>Union Elbow</td>
<td>Male Branch Tee</td>
</tr>
<tr>
<td>Male Straight</td>
<td>Female Straight</td>
<td>Union Straight</td>
<td>Nut</td>
</tr>
<tr>
<td>Male Straight</td>
<td>Male Run Tee</td>
<td>Union Tee</td>
<td>Sleeves</td>
</tr>
<tr>
<td>Female Elbow</td>
<td>Union Elbow</td>
<td>Nut</td>
<td>Sleeves</td>
</tr>
<tr>
<td>Male Elbow</td>
<td>Female Elbow</td>
<td>Plugs &amp; Caps</td>
<td>Plug</td>
</tr>
</tbody>
</table>

**Material**
- 304 Stainless Steel: Very good corrosion resistance
- 316 Stainless Steel: Excellent corrosion resistance
- Brass: Good strength and corrosion resistance
- Zinc-Plated Steel: Excellent Strength
Sanitary Fittings

A highly polished interior makes these ultra-smooth and eliminates crevices where bacteria could grow.

TRI-CLAMP Allows for easy assembly and breakdown of process lines

Full line of gaskets available

BUTT WELD Permanently welded in place

Polished and Unpolished finish available

PROCESSING EQUIPMENT

Tri-Clamp and Butt Weld connections available

Material

<table>
<thead>
<tr>
<th>Material</th>
<th>304 Stainless Steel</th>
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<tbody>
<tr>
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<td>Excellent corrosion resistance</td>
</tr>
</tbody>
</table>

Ball Valves  Butterfly Valves  Sight Glass
Ultra-High Vacuum Fittings

Have a centering ring that allows these fittings to withstand ultra-high vacuum pressures.

**Material**

304 Stainless Steel
Very good corrosion resistance

---

**STRAIGHTS**

- Straight Connector
- Straight Reducer

**ELBOWS**

- 90° Elbows
- 45° Elbows

**CLAMPS**

- Clamps

**ADAPTERS**

- Male Adapters
- Female Adapters
- Butt Weld Adapters
- Barbed Hose Adapters
- Socket Connect Adapter

**HOSE**

- Flexible Hose
- Rigid Hose

**CENTERING RINGS**

- Centering Ring
- Centering Ring with Screen

**CAPS**

- Caps
Pipe Fittings & Nipples

Used in pipe systems to connect straight sections of pipe or tube, adapt to different sizes or shapes, and regulate flow.

### STRAIGHTS

**Coupling**
- **CLASS**: 150
- **MATERIALS**: 304, 316

**Reducing Coupling**
- **CLASS**: 150
- **MATERIALS**: 304, 316

**Half Coupling**
- **CLASS**: 150
- **MATERIALS**: 304, 316

**Reducing Hex Bushing**
- **CLASS**: 150
- **MATERIALS**: 304, 316

**Hex Nipple**
- **CLASS**: 150
- **MATERIALS**: 304, 316

**Reducing Hex Nipple**
- **CLASS**: 150
- **MATERIALS**: 304, 316

### TEES

**Tee**
- **CLASS**: 150
- **MATERIALS**: 304, 316

**Reducing Tee**
- **CLASS**: 150
- **MATERIALS**: 304, 316

**Elbow**
- **CLASS**: 150
- **MATERIALS**: 304, 316

**Reducing Elbow**
- **CLASS**: 150
- **MATERIALS**: 304, 316

**45° Elbow**
- **CLASS**: 150
- **MATERIALS**: 304, 316

**Street Elbow**
- **CLASS**: 150
- **MATERIALS**: 304, 316

**Locknut**
- **CLASS**: 150
- **MATERIALS**: 304, 316

### CAPS AND PLUGS

**Cap**
- **CLASS**: 150
- **MATERIALS**: 304, 316

**Hex Socket Plug**
- **CLASS**: 150
- **MATERIALS**: 304, 316

**Hex Head Plug**
- **CLASS**: 150
- **MATERIALS**: 304, 316

**Square Head Plug**
- **CLASS**: 150
- **MATERIALS**: 304, 316

**Close Nipple**
- **CLASS**: 150
- **MATERIALS**: 304, 316

### NIPPLES

**Nipple Threaded on Both Ends**
- **CLASS**: 80
- **MATERIALS**: 304, 316

**Nipple Threaded on One End**
- **CLASS**: 80
- **MATERIALS**: 304, 316

---

**Key**

- **CLASS**
  - Class 150 for use in low pressure pipeline
  - Class 3000 for use in high pressure pipeline

- **MATERIALS**
  - 304 Stainless Steel: very good corrosion resistance
  - 316 Stainless Steel: excellent corrosion resistance
  - Black-Coated Steel: excellent strength
  - Aluminium: lightweight and strong

- **SCHEDULE**
  - Schedule 40 for use in low pressure pipeline
  - Schedule 80 for use in high pressure pipeline

All male threads are available with a pre-applied PTFE thread sealant to protect against leaks and save time in the field.
Pipe Flanges

Used in pipe systems to provide increased support for strength, block off a pipeline, or allow for attachment of more items.

Available in the following pressure classes: 150, 300, 400, 600, 900, 1500 and 2500

Materials

- 304 Stainless Steel
  - very good corrosion resistance

- 316 Stainless Steel
  - excellent corrosion resistance

- Carbon Steel
  - good strength and durability

Slip On  Butt Weld  Socket Weld  Blind Cap

Lap Joint  Threaded  Ring Joint
Valves
Used in pipe systems to regulate, direct or control the flow of fluid.

<table>
<thead>
<tr>
<th>Standard Port Ball Valve</th>
<th>Full Port Ball Valve</th>
</tr>
</thead>
</table>
| **NO. OF PIECES** | **NO. OF PIECES**  
1 | 2, 3 |
| **PRESSURE** | **PRESSURE**  
1000 psi, 3000 psi | 1000 psi, 2000 psi |

**Key**

**MATERIALS**

- **304 Stainless Steel**
  - very good corrosion resistance
- **316 Stainless Steel**
  - excellent corrosion resistance
Instrumentation Pipe Fittings

Used in pipe systems that require extreme working pressures and tight tolerances.

**CAPS AND PLUGS**
- Cap
- Hex Socket Plug
- Hex Head Plug
- Female Cross

**STRAIGHTS**
- Hex Coupling
- Reducing Hex Coupling
- Close Nipple
- Hex Nipple
- Reducing Hex Nipple
- Adapter
- Reducing Adapter
- Reducing Hex Bushing

**ELBOWS**
- Female Elbow
- Male Elbow
- Street Elbow

**TEES**
- Female Tee
- Male Tee
- Branch Tee
- Run Tee

**CROSSES**
All male threads are available with a pre-applied PTFE thread sealant to protect against leaks and save time in the field.

**Key**

**MATERIALS**
- 316 Stainless Steel
  - excellent corrosion resistance
- Galvanized Steel
  - excellent strength
- Brass
  - good strength and corrosion resistance
Cam-and-Groove Hose Fittings

Meet A-A59326 / MIL-C-27487 Standards

**Fitting Type**

A  Female NPT x Male Adapter
B  Female Coupler x Male NPT
C  Female Coupler x Hose Shank
D  Female Coupler x Female NPT
E  Male Adapter x Hose Shank
F  Male Adapter x Male NPT
G  Female Coupler
H  Male Adapter