These actual-size drawings are provided for your convenience and ordering accuracy when specifying sanitary fittings.
- 0.984" O.D. is the same for 1/2" and 3/4" I.D. styles
- 1.984" O.D. is the same for 1" and 1-1/2" I.D. styles
- Varying O.D. for the 2", 2-1/2" and 3" I.D. styles
- Mini Clamp provided as standard - True I.D. sizes available

Sizing Information

Sanitary Clamp Fitting

Ace Sanitary, Inc., formerly a division of the Ace Manufacturing Company was formed in 2004 to develop new business relationships. Initial product offerings were the Flex-Rite™ Sanitary Hose Line and Seal-Rite™ Hose Fittings. These products are now the core of our expanded product line. We work hard to know your business, assist you in problem solving, provide you with quality products and over 100 years of experience.

Visit acesanitary.com for new additions and most up-to-date product information

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Limited Warranty

With the provisions of the "cautionary statement" above.

Identify both working (product being transferred) and cleaning temperatures

Identify both working and cleaning (maximum) pressures to assure proper hose selection

Identify all fluids being transferred (product & cleaning) to choose chemically-compatible materials

Identify the connection type and alignment needed

Identify any special packaging or delivery needs for hose shipment

STAMPED

This acronym that will assist you in specifying the correct hose and fitting.

S = Size
Identify the I.D. (inside diameter) of the hose

T = Temperature
Identify both working (product being transferred) and cleaning temperatures

A = Application
Identify how the hose assembly will be used: equipment type and environmental conditions

M = Media
Identify all fluids being transferred (product & cleaning) to choose chemically-compatible materials

P = Pressure
Identify both working & cleaning (maximum) pressures to assure proper hose selection

E = End Style
Identify the connection type and alignment needed

D = Delivery
Identify any special packaging or delivery needs for hose shipment

Cautionary Statement

All products are in the nature of commodities and they are sold by published specifications and not for particular purposes, uses or applications. Purchaser shall first determine their suitability for the intended purposes, uses or applications and shall either conduct its own engineering studies or tests, or retain qualified engineers, consultants or testing laboratories and consult with them before determining the proper use, suitability or propriety of the merchandise or products for the intended purposes, uses or applications. Purchaser shall follow all instructions contained in sellers catalogs, brochures, technical bulleting and other documents regarding the product. Purchasers or users of the products should frequently and consistently undertake inspections and protective measures with respect to the use and application of products, which should include the examination of tube and cover, conditions of the hose or tubing and the identification, repair or replacement of sections showing cracking, blistering, separations, internal and external abrasions, leaking or slipped couplings or connections and make proper proof tests.

Limited Warranty

The merchantable or products sold or distributed by seller are warranted to its customers to be free from defects in material and workmanship at the time of shipment by us, subject to the following provisions. Unless otherwise specified, all warranty claims shall be made within six (6) months after product ship date by seller - see packing slip for details. Seller’s liability hereunder is limited to the purchase price of any products proving defective, or at seller’s option, to the replacement of such products upon which its authorized return to seller. This warranty is in lieu of and excludes all other warranties, expressed, implied, statutory, or otherwise created under applicable law including, but not limited to, the warranty of merchantability and the warranty of fitness for a particular purpose. In no event shall seller or manufacturer of the product be liable for special, incidental, or consequential damages, including loss of profits, whether or not caused by or resulting from the negligence of seller and/or the manufacturer of the product, unless specifically provided herein. In addition, this warranty shall not apply to any products or portions thereof which have been subjected to abuse, misuse, improper installation, maintenance or operation, electrical failure or abnormal conditions, and to products which have been tampered with, altered, modified, repaired, reworked by anyone not approved by seller, or used in any manner inconsistent with the provisions of the “cautionary statement” above.

Detailed information on both these products can be found on page 16 and 17.

*The 3-A 62-02 standard applies only to assemblies of 3/4" diameter and larger.
R Series Rubber Hose

**RDC Discharge**

This lightweight discharge hose provides extra flexibility and smooth handling. (Meets 3-A* standards, USDA requirements and is FDA compliant). Designed to be chemically resistant to mild caustic solutions. This discharge hose is well suited for overhead CIP wash units and capable of handling pressures up to 250 PSI.

**RES High Temperature Suction & Discharge**

This premium quality hose withstands rough handling and high temperatures and harsher chemical environments. A suction and discharge hose that will not impart taste or odor to products being transferred. (Meets 3-A* standards, USDA requirements and is FDA compliant). Typical use includes: Non-Oily, Milk, Dairy, Food and Beverage, Chemical, Pharmaceutical and CIP Applications. It's designed with a mono-filament helix to ensure flexibility and smooth handling. (Meets 3-A* standards, USDA requirements and is FDA compliant). Designed to be chemically resistant to harsh conditions and will not impart taste or odor to food products. Bacteria resistant construction delivers taste and odor free flow. Sanitary liquid food stuffs. Bacteria resistant construction delivers taste and odor free /flow.

**RCR Crush Resistant**

Consistent flow is maintained by this crush resistant hose whether kinked, twisted or run over. It's designed with a monofilament helix to spring back to its original shape. (Meets 3-A* standards, USDA requirements and is FDA compliant). Excellent for high traffic areas, the RCR delivers generous flow rates for wine, beer and other sanitary liquid food stuffs. Bacteria resistant construction delivers taste and odor free flow.

**RCR-C Crush Resistant - Grounded**

RCR-C is designed with the same rugged construction as our standard crush resistant hose. We’ve added a layer of protection for those applications where static discharge is a concern. (Meets 3-A* standards, USDA requirements and is FDA compliant). This versatile hose has two multi-strand, copper wires to provide positive grounding and peace of mind.

---

**Equipment**

**Washdown, Crimpers**

**Washdown Station**

The Ace Sanitary Washdown Station delivers a high temperature wash down using a proprietary mixing valve that combines steam and water for a constant stream at the operator’s set temperature.

The intuitive safety shutoff feature essentially eliminates the “hose full of steam” problem of the past, decreasing hazardous conditions.

With a single moving part, the thermal actuator within the mixing valve cartridge, the Ace Sanitary Washdown Station ensures long, uninterrupted use and silent operation, even in high mineral content water conditions.

The HCX (Hot/Cold Water) Mixing Station combines simplicity and cost effectiveness with the reliability and safety inherent in all washdown stations by Ace Sanitary.

For quickest response, send ALL requests for quotes and purchase orders to: sales@acesanitary.com

---

**Flex-Crimp™**

Flex-Crimp™ brand of crimpers is a powerful machine capable of crimping a variety of sanitary, hydraulic, composite and industrial hoses. All Flex-Crimp models come standard with a quick change tool for quick and easy die changes. The touch screen crimp controller takes the guess work out of crimping with easy machine calculations.

The Flex-Crimp system continuously crimps to within .005” everytime. The Flex-Crimp line of products offers the most consistent crimp in the market today and comes with a one year manufacturer’s warranty.

The CC60 crimp with a 7.5 HP pump for 265 tons of crimping force and has the capacity to crimp up to 4” industrial hose.

The C338 crimp with 240 ton crimping force has the capacity to crimp 1 1/4” multi spiral hydraulic hose and 2” industrial hose.
**Test Benches**

This test bench assures that your assembly has been joined correctly. The programmable PLC Controller gives the operator the ability to pre-program and repeat a test sequence. (optional save to USB)

**Cutoff Saws**

These rugged, dependable saws offer features not found on other saws. Choose the one with the capabilities and features which meet your individual requirements.

**Molded Label Machines**

Equipment to make permanent labels on silicone or silicone covered hose. Label can contain part number, date, serial number or custom information as needed.

**Part Marking**

The nMLF fiber laser system packs a powerful punch and gives users maximum application flexibility. Front mounted controls make operation simple. A USB connection to a laptop or desktop PC is all that is required to start programming. Quickly mark text, barcodes, serial and date codes, graphics and more.

**R-Series Rubber Hose**

**RSD Suction & Discharge**

**GRAY**

**Versatility** makes this hose our most popular choice for product transfer and CIP applications. (Meets 3-A standards, USDA requirements and is FDA compliant). Rated for full suction and discharge use up to 150 PSI. The specially compounded tube is engineered to handle high temperatures, will not impart taste or odor and is highly resistant to common CIP solutions. A dual wire helix makes the RSD extremely flexible and easy to handle.

**RSD Suction & Discharge**

**BLUE**

Product Description same as RSD Gray

**RSD Suction & Discharge**

**RED**

Product Description same as RSD Gray

**RCT Comestible Transfer**

Excellent choice for edible oils, and personal care products as well as most dairy applications. (Meets 3-A standards, USDA requirements and is FDA compliant). Rated for full transfer use up to 150 PSI. Nitrile hose is engineered to handle high temperatures and maintain product color, taste and aroma. A dual wire helix makes the RCT extremely flexible and easy to handle.

For quickest response, send ALL requests for quotes and purchase orders to: sales@acesanitary.com

---

**RSD** Suction & Discharge

**GRAY**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>I.D.</th>
<th>O.D.</th>
<th>WORKING PRESSURE</th>
<th>MIN. BEND RADIUS</th>
<th>WEIGHT</th>
<th>VAC.</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSD050</td>
<td>1/2&quot;</td>
<td>1.00&quot;</td>
<td>150 PSI</td>
<td>2.0&quot;</td>
<td>.32 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RSD075</td>
<td>3/4&quot;</td>
<td>1.25&quot;</td>
<td>150 PSI</td>
<td>2.0&quot;</td>
<td>.57 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RSD100</td>
<td>1&quot;</td>
<td>1.50&quot;</td>
<td>150 PSI</td>
<td>3.0&quot;</td>
<td>.91 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RSD150</td>
<td>1 1/2&quot;</td>
<td>2.06&quot;</td>
<td>150 PSI</td>
<td>4.0&quot;</td>
<td>1.03 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RSD200</td>
<td>2&quot;</td>
<td>2.57&quot;</td>
<td>150 PSI</td>
<td>4.5&quot;</td>
<td>1.32 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RSD250</td>
<td>2 1/2&quot;</td>
<td>3.12&quot;</td>
<td>150 PSI</td>
<td>5.5&quot;</td>
<td>1.84 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RSD300</td>
<td>3&quot;</td>
<td>3.74&quot;</td>
<td>150 PSI</td>
<td>7.0&quot;</td>
<td>2.55 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RSD400</td>
<td>4&quot;</td>
<td>4.77&quot;</td>
<td>150 PSI</td>
<td>10.0&quot;</td>
<td>5.51 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
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<tr>
<td>RSD600</td>
<td>6&quot;</td>
<td>6.75&quot;</td>
<td>150 PSI</td>
<td>22.0&quot;</td>
<td>5.42 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
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**COLORS AVAILABLE** Consult Factory

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<thead>
<tr>
<th>TUBE</th>
<th>COVER</th>
<th>RECOMMENDED CLEANING</th>
</tr>
</thead>
<tbody>
<tr>
<td>White, FDA, 3-A*</td>
<td>White Nitrile w/white stripe</td>
<td>CIP , COP</td>
</tr>
</tbody>
</table>

**Reinforcement** Special tube synthetic fabrics with dual wire helix

**RSD** Suction & Discharge

**BLUE**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>I.D.</th>
<th>O.D.</th>
<th>WORKING PRESSURE</th>
<th>MIN. BEND RADIUS</th>
<th>WEIGHT</th>
<th>VAC.</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSDR150</td>
<td>1 1/2&quot;</td>
<td>2.06&quot;</td>
<td>150 PSI</td>
<td>4.0&quot;</td>
<td>1.03 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RSDR200</td>
<td>2&quot;</td>
<td>2.57&quot;</td>
<td>150 PSI</td>
<td>4.5&quot;</td>
<td>1.32 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RSDR250</td>
<td>2 1/2&quot;</td>
<td>3.12&quot;</td>
<td>150 PSI</td>
<td>5.5&quot;</td>
<td>1.84 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RSDR300</td>
<td>3&quot;</td>
<td>3.74&quot;</td>
<td>150 PSI</td>
<td>7.0&quot;</td>
<td>2.55 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
</tbody>
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**COLORS AVAILABLE** Consult Factory

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<tr>
<th>TUBE</th>
<th>COVER</th>
<th>RECOMMENDED CLEANING</th>
</tr>
</thead>
<tbody>
<tr>
<td>White, FDA, 3-A*</td>
<td>White Nitrile w/white stripe</td>
<td>CIP , COP</td>
</tr>
</tbody>
</table>

**Reinforcement** Special tube synthetic fabrics with dual wire helix

**RSD** Suction & Discharge

**RED**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>I.D.</th>
<th>O.D.</th>
<th>WORKING PRESSURE</th>
<th>MIN. BEND RADIUS</th>
<th>WEIGHT</th>
<th>VAC.</th>
<th>LENGTH</th>
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<tbody>
<tr>
<td>RSDR150</td>
<td>1 1/2&quot;</td>
<td>2.06&quot;</td>
<td>150 PSI</td>
<td>4.0&quot;</td>
<td>1.03 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RSDR200</td>
<td>2&quot;</td>
<td>2.57&quot;</td>
<td>150 PSI</td>
<td>4.5&quot;</td>
<td>1.32 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RSDR250</td>
<td>2 1/2&quot;</td>
<td>3.12&quot;</td>
<td>150 PSI</td>
<td>5.5&quot;</td>
<td>1.84 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RSDR300</td>
<td>3&quot;</td>
<td>3.74&quot;</td>
<td>150 PSI</td>
<td>7.0&quot;</td>
<td>2.55 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
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<tr>
<th>TUBE</th>
<th>COVER</th>
<th>RECOMMENDED CLEANING</th>
</tr>
</thead>
<tbody>
<tr>
<td>White, FDA, 3-A*</td>
<td>White Nitrile w/white stripe</td>
<td>CIP , COP</td>
</tr>
</tbody>
</table>

**Reinforcement** Special tube synthetic fabrics with dual wire helix

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<th>RECOMMENDED CLEANING</th>
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<td>White Nitrile w/white stripe</td>
<td>CIP , COP</td>
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</tbody>
</table>

**Reinforcement** Special tube synthetic fabrics with dual wire helix

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**All R-Series hose products meet/satisfy USDA Class III requirements, FDA CFR Title 21, 177.2600, 3-A 18-03**

*The 3-A 62-02, standard applies only to assemblies of 3/4” diameter and larger.

**WARNING** Working pressure ratings for all Flex-Rite® brand hoses are based on 70° F (ambient temperature). Working pressure and vacuum ratings will decrease as temperatures increase. For “R” series applications that exceed 200° F contact manufacturer for suggestions.
A heavy-duty discharge hose with suction capability is ideal for the highly demanding service of transferring liquid products in breweries, wineries and dairies. (Meets 3-A* standards, USDA requirements and is FDA compliant). Bounce back design resists damage from kinking or flattening in high traffic areas.

RWD Washdown

This premium washdown hose is designed for cleanup duties in non-oily applications, dairies, creameries, breweries, food, beverage, meat and poultry processing plants. This premium quality hose is capable of handling hot water up to 300° F. (Meets 3-A* standards, USDA requirements and is FDA compliant). A chemically resistant hose, with a wrapped cover construction designed to provide excellent resistance to cuts and abrasion while providing handling stability.

RWS-L Wine & Spirits - Lite

RWS-L is a lightweight, extremely flexible hose. The exterior polymer blend with corrugations that are wide and smooth ensure low friction and ease of movement. This suction and discharge hose is designed for extra flex. Wear resistance is achieved by its “ARC” abrasion resistant cover. RWS-L delivers taste and odor free flow and easy clean up. (Meets 3-A* standards, USDA requirements and is FDA compliant)

RWS Wine & Spirits

Exterior polymer blend with wide/smooth corrugations ensures low friction and ease of movement. This suction & discharge hose is designed for extra flex and wear resistance. (Meets 3-A* standards, USDA requirements and is FDA compliant). Delivers taste and odor free flow and easy clean up.

RBT Beverage Transfer

RBT is capable of handling hot water up to 300° hose is capable of handling hot water up to 300° poultry processing plants. This premium quality creameries, breweries, food, beverage, meat and to provide excellent resistance to cuts and

RBT - Series Rubber Hose

<table>
<thead>
<tr>
<th>Model</th>
<th>I.D.</th>
<th>O.D.</th>
<th>Working Pressure</th>
<th>Min. Bend Radius</th>
<th>Weight Per Ft.</th>
<th>Vac. in HG.</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>RBT100</td>
<td>1&quot;</td>
<td>1.69&quot;</td>
<td>250 PSI</td>
<td>4.0&quot;</td>
<td>.81 lbs.</td>
<td>20&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RBT150</td>
<td>1 1/2&quot;</td>
<td>2.23&quot;</td>
<td>250 PSI</td>
<td>5.5&quot;</td>
<td>1.20 lbs.</td>
<td>20&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RBT200</td>
<td>2&quot;</td>
<td>2.92&quot;</td>
<td>250 PSI</td>
<td>6.5&quot;</td>
<td>1.86 lbs.</td>
<td>20&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RBT300</td>
<td>3&quot;</td>
<td>4.09&quot;</td>
<td>250 PSI</td>
<td>10.0&quot;</td>
<td>3.57 lbs.</td>
<td>20&quot;</td>
<td>100'</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Tubing</th>
<th>Color</th>
<th>FDA, 3-A*, EPDM</th>
<th>RECOMMENDATION</th>
<th>Temp. Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>FDA, 3-A*, EPDM</td>
<td>High strength synthetic cord with steel wire helix</td>
<td>-40 to 275° F</td>
<td></td>
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</tbody>
</table>

See page 14 for additional washdown options.

RWS - Series Rubber Hose

<table>
<thead>
<tr>
<th>Model</th>
<th>I.D.</th>
<th>O.D.</th>
<th>Working Pressure</th>
<th>Min. Bend Radius</th>
<th>Weight Per Ft.</th>
<th>Vac. in HG.</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>RWD075</td>
<td>3/4&quot;</td>
<td>1.35&quot;</td>
<td>300 PSI</td>
<td>-</td>
<td>.41 lbs.</td>
<td>-</td>
<td>200'</td>
</tr>
<tr>
<td>RWD150</td>
<td>1&quot;</td>
<td>1.93&quot;</td>
<td>115 PSI</td>
<td>3.0&quot;</td>
<td>.65 lbs.</td>
<td>27&quot;</td>
<td>130'</td>
</tr>
<tr>
<td>RWD200</td>
<td>1 1/2&quot;</td>
<td>2.44&quot;</td>
<td>115 PSI</td>
<td>4.0&quot;</td>
<td>.85 lbs.</td>
<td>27&quot;</td>
<td>130'</td>
</tr>
<tr>
<td>RWD250</td>
<td>2&quot;</td>
<td>2.97&quot;</td>
<td>115 PSI</td>
<td>5.0&quot;</td>
<td>1.15 lbs.</td>
<td>27&quot;</td>
<td>130'</td>
</tr>
<tr>
<td>RWD300</td>
<td>3&quot;</td>
<td>3.46&quot;</td>
<td>115 PSI</td>
<td>6.0&quot;</td>
<td>1.37 lbs.</td>
<td>27&quot;</td>
<td>130'</td>
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</table>

<table>
<thead>
<tr>
<th>Tubing</th>
<th>Color</th>
<th>FDA, 3-A*, EPDM</th>
<th>RECOMMENDATION</th>
<th>Temp. Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>FDA, 3-A*, EPDM</td>
<td>High strength synthetic cord with steel wire helix</td>
<td>-40 to 225° F</td>
<td></td>
</tr>
</tbody>
</table>

Traceability Solution…

For Silicone or Silicone covered hoses.

- Permanently Attached, No Product Contact
- Completely Sealed, Easy to Read Text
- Auto claveable, CIP & SIP Comptable
- Label Contains Custom Information as Needed
- Quick Turn-around with Customized Text Available

Stainless Steel Fabrications and Customs Designs Include:

- Container & Utensils
- Work Tables
- Custom Furniture
- Accessories

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- Accessories

**For quickest response, send ALL requests for quotes and purchase orders to: sales@acesanitary.com**
**Accessories**

**Seal-Rite™ Guage Reducer**

For available sizes: Please contact the factory.

The Seal-Rite Guage Reducer provides easy and quick transition for a variety of applications. These reducers are machined from 316L Stainless Steel and are permanently marked with heat number. They are electropolished in compliance with the highest sanitary standards. These reducers provide solutions when standard concentric reducers aren’t conducive for tight, confined areas.

**Seal-Rite™ Hose Support**

For available sizes: Please contact the factory.

The Seal-Rite Hose Support provides additional protection for your transfer hoses. In environments where abnormal cover wear can occur, you can lift up and extend the life of your hose. The two halves easily attach with two recessed locking screws. The lightweight design, wide outer edges and even wider collar provides stability which eliminates kinking. Our supports are ideal for use in receiving bays to eliminate damming or pooling water.

**Seal-Rite™ Fitting Bumper**

For available sizes: Please contact the factory.

The Seal-Rite Fitting Bumper provides additional protection for your fittings and elbows. The bumper elevates the fitting while absorbing the occasional mishap.

**Hose Sling**

Hose Sling is a polyurethane saddle designed to suspend hoses. Each model comes complete with its own UV treated sling which is fastened in a choker position. Designed to accommodate the OEM’s minimum bending radius to protect hose from kinking and prolong the life of the hose.

**Vue-Gard Protective Shield**

These "See-Through" shields withstand temperatures up to 300°F and pressure to 1000 PSI. Special fabrication for flow indicators, pressure vessels, heat exchangers and various instruments used in process industries.

**FRH  Raised Helix**

This hose is an excellent choice for receiving bays. Its exterior corrugations provide for tight bending and easy handling. Designed for adverse conditions or cleanup as water will not pool with use of the FRH. Versatile and flexible, this hose is ideal for discharge and usage up to 150 PSI while not imparting taste or odor.

**FDF  Dry Food Transfer**

This suction and discharge hose, with its anti-static tube and conductive cover is excellent for wet or dry abrasive materials, like sugar or powdered milk. It’s designed to be extremely flexible and suited for extreme environments.

**FPE  UHMW-PE SSD**

An economical alternative for fluoropolymer lined hose. With a low friction cover it’s a significant addition to our chemical hose line. It handles the majority of common industrial chemicals in pressure, gravity and suction applications. FPE is crush and kink resistant and durable for challenging applications.

**FGS  Deep Corrugations**

Designed to handle a wide variety of liquid products, including oily edibles. The white nitrite tube will not impart taste or odor to the liquids be transferred. This hose is rated for vacuum as well as a constant 150 psi working pressure on all sizes. The distinct, deep corrugations permit a tighter bend radius.

Visit acesanitary.com for new additions and most up-to-date product information.
TCP Poly Braided Convoluted

Better abrasion resistance than metal braids, easy to flex and has a tighter bend radii than smooth bore. Kink resistant with open-pitched, seamless, helical convolutions that provide for easy cleaning and transport of pharmaceuticals, chemicals, food and beverages.

TCB Steel Braided Convoluted

Kink resistant hose that is easy to flex and has a tighter bend radii than smooth bore. Open-pitched, seamless, helical convolutions provide for easy cleaning and transport of pharmaceuticals, chemical, food and beverages.

TSC-C Carbon Filled - Anti-Static

While similar to the TSC, the TSC-C has a carbon filled tube for safety purposes. This hose is recommended for steam applications or volatile media transfer where static build up or volatile media transfer where static build up is a concern.

TSC Silicone Covered Smooth Bore

This silicone covered, PTFE lined tube (tubing: smooth bore with exterior convolutions) provides excellent flexibility. Exceptional for high purity use in Pharmaceutical, Biotech and Foods industry. This hose will not impart taste or odor to products being transferred and provides cleaning ease both inside and out. TSC is excellent for use in hot or low velocity steam transfer applications.

T-Bend Radii (fluoropolymer hose and all rubber hose)

• The radius of a bent section of hose measured to the innermost surface of the curved portion (R1)

R1

• The radius of a bent section of hose measured to the hose centerline (R2)

R2

Minimum Bend Radius

• The smallest radius at which a hose can be used

Force to Bend

• The amount of stress required to induce bending around a specific radius - a measure of stiffness

Maximum Rated Working Pressure

• The maximum pressure hoses should be subjected to in a continuous basis

Maximum Rated Test Pressure

• The maximum rated pressure is multiplied by 150%

Nominal Rated Burst Pressure

• The average pressure at which the core of braid will rupture at ambient temperature

Resistance / Temperature Correction

• Hose pressure capabilities decrease as the temperature increases. Consult factory to determine pressure rating at elevated temperatures

Hydraulic Shock...

Due To Instantaneous Pressure Increase

Maximum Possible Liquid Pressure Increase Developed in 1”, 1-1/2”, 2” and 2-1/2” OD Tubing Lines Assuming Instantaneous Flow Stoppage.

DEFINITIONS

Industry Recognized Terms

Hose pressure capabilities decrease as the temperature increases. Consult factory to determine pressure rating at elevated temperatures

Bend Radius (fluoropolymer hose and all rubber hose)

• The radius of a bent section of hose measured to the innermost surface of the curved portion (R1)

R1

• The radius of a bent section of hose measured to the hose centerline (R2)

R2

Minimum Bend Radius

• The smallest radius at which a hose can be used

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R1

• The radius of a bent section of hose measured to the hose centerline (R2)

R2

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Hydraulic Shock...

Due To Instantaneous Pressure Increase

Maximum Possible Liquid Pressure Increase Developed in 1”, 1-1/2”, 2” and 2-1/2” OD Tubing Lines Assuming Instantaneous Flow Stoppage.
General Hose

Installation Information

Chemical Charts are located on our website

Prior to Installation
inspect hose completely for signs of obvious damage. Possible damage may include cuts to cover, kinking, broken braids and crushing. This damage can reduce hose life and pressure rating.

Do Not Use any damaged hose.

Hose should be application specific. Review materials, pressures, chemical compatibility, temperature and environment to ensure proper selection of hose.

• Failure of hose will occur when hose is bent (Fig. 1) beyond minimum bend radius. Bend radii are given for individual products and sizes. The bend radius values must be observed (measure to inside radius of fluoropolymer-lined hose and the centerline for stainless steel metal hose) for hoses to be installed properly. Occasionally, vacuum and pressure ratings are based on not to exceed 2% minimum bend radius. The manufacturer should be contacted for specific hose rating and data.

• Restrict hose movement to a single plane (Fig. 2) to minimize resultant twisting or torque. Within the bending plane is where flexing should occur. Stress fatigue increases with excessive bending of hose.

• Axial or twisting motion (Fig. 3) should be eliminated. The likelihood of leakage or failure increases for hoses that are twisted (torqued) during assembly. Floating /flanges or swivel-type /f_ittings (i.e., JIC) can eliminate stress fatigue increases with excessive bending of hose.

• Avoid stretching or compressing the hose (Fig. 4) along its longitudinal axis with in-line installation.

Motion Calculations

Axial Motion: Motion that occurs when a hose is compressed along its longitudinal axis. Axial motion is only applicable in very short lengths of annular hose only. Fluoropolymer lined hose should not be subjected to axial motion.

Offset Motion: Motion that occurs when one end of the hose is deflected in a plane perpendicular to it’s longitudinal axis with the ends remaining parallel. In offset applications where motion is repeated, the offset should never exceed 25% of the minimum bend radius. To calculate the required live length to achieve a desired offset, use the following calculations:

\[ LL = \sqrt{2YR + Y^2} \]

\[ LL = \text{Hose live length, inches} \]
\[ R = \text{Min. Bend Radius, inches} \]
\[ Y = \text{Offset, inches} \]
\[ OAL = LL + \text{Fittings Length} + (2x \text{nominal hose diameter}) \]

Note: Where offset motion “Y” occurs on both sides of hose centerline, the hose live length should be based on total travel, or 2Y. The modified calculation will be:

\[ LL = \sqrt{2YR + (2Y)^2} \]
S-Series Silicone Hose

All “S-Series” products meet or exceed USP Class VI & FDA Criteria. Manufactured from high purity, platinum cured resin and fully traceable. Extractable & Leachable documentation available upon request.

**SXW** X-tremely Flexible, Wire Reinforced

SXW with low force-to-bend characteristics is an X-tremely flexible suction and delivery hose. Our phthalate-free tube is ideal for pharmaceutical, cosmetic and food products transfer. (Meets 3A*, USDA, FDA and USP Class VI standards).

This High Purity Silicone hose is manufactured to the longest length in the industry (130 feet). Striking a balance between flexibility and strength, SXW is reinforced with 316L stainless steel wire.

**SXD** Fabric Reinforced Discharge

SXD like the SXW, is extremely easy to handle. Reinforced with four fabric layers ensures a balance between strength and lightness. Specially designed for bulk transfer, high-pressure, and light vacuum process applications. (Meets 3A*, high-pressure, bulk transfer)

**SSD** Single Braid Discharge

A polyester braid reinforced silicone hose, processed with pharmaceutical grade elastomer, designed for mid-range pressures. Manufactured using reinforced polyester braid. Resists weathering and temperature extremes. (Meets 3A*, USDA, FDA and USP Class VI standards).

---

### Assembly Part Number

<table>
<thead>
<tr>
<th>Hose</th>
<th>I.D. Size</th>
<th>Style / Size 1st End</th>
<th>Style / Size 2nd End</th>
<th>Assembly Length (INCHES)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SXD25</td>
<td>1/4&quot;</td>
<td>.52</td>
<td>140 PSI</td>
<td>1.0&quot;</td>
</tr>
<tr>
<td>SSD37</td>
<td>3/8&quot;</td>
<td>.66</td>
<td>135 PSI</td>
<td>1.5&quot;</td>
</tr>
<tr>
<td>SSD50</td>
<td>1/2&quot;</td>
<td>.80</td>
<td>100 PSI</td>
<td>3.0&quot;</td>
</tr>
<tr>
<td>SSD62</td>
<td>5/16&quot;</td>
<td>.97</td>
<td>100 PSI</td>
<td>3.5&quot;</td>
</tr>
<tr>
<td>SSD75</td>
<td>3/4&quot;</td>
<td>1.10</td>
<td>90 PSI</td>
<td>4.0&quot;</td>
</tr>
<tr>
<td>SSD100</td>
<td>1&quot;</td>
<td>1.36</td>
<td>60 PSI</td>
<td>6.0&quot;</td>
</tr>
<tr>
<td>SXW250</td>
<td>2 1/2&quot;</td>
<td>3.09</td>
<td>85 PSI</td>
<td>7.0&quot;</td>
</tr>
<tr>
<td>SXW200</td>
<td>2&quot;</td>
<td>2.52</td>
<td>110 PSI</td>
<td>5.5&quot;</td>
</tr>
<tr>
<td>SXW150</td>
<td>1 1/2&quot;</td>
<td>2.00</td>
<td>125 PSI</td>
<td>4.5&quot;</td>
</tr>
<tr>
<td>SXW100</td>
<td>1&quot;</td>
<td>1.42</td>
<td>150 PSI</td>
<td>2.5&quot;</td>
</tr>
<tr>
<td>SXW125</td>
<td>1 1/4&quot;</td>
<td>1.69</td>
<td>137 PSI</td>
<td>3.5&quot;</td>
</tr>
<tr>
<td>SXW150</td>
<td>1 1/2&quot;</td>
<td>2.00</td>
<td>125 PSI</td>
<td>4.5&quot;</td>
</tr>
<tr>
<td>SXW200</td>
<td>2&quot;</td>
<td>2.52</td>
<td>110 PSI</td>
<td>5.5&quot;</td>
</tr>
<tr>
<td>SXW250</td>
<td>2 1/2&quot;</td>
<td>3.09</td>
<td>85 PSI</td>
<td>7.0&quot;</td>
</tr>
<tr>
<td>SXW300</td>
<td>3&quot;</td>
<td>3.58</td>
<td>70 PSI</td>
<td>9.0&quot;</td>
</tr>
<tr>
<td>SXW400</td>
<td>4&quot;</td>
<td>4.61</td>
<td>50 PSI</td>
<td>14.5&quot;</td>
</tr>
</tbody>
</table>

---

### Overall length tolerances for assemblies are:

- 1/4" on assemblies to 24"
- 1/2" on assemblies to 25" to 60"
- 1% on assemblies over 60"

---

**For quickest response, send ALL request for quotes and purchase orders to:**
sales@acesanitary.com
SDB  Double Braided Discharge

This high-pressure, silicone, double braided, non-metallic hose can be autoclaved, irradiated or sterilized by ethylene oxide gas. (Meets 3A*, USDA, FDA and USP Class VI standards). Designed to resist weathering and temperature extremes.

SHF/SMW  Wire Reinforced

A **highly flexible** hose that is especially easy to handle. A silicone hose reinforced with stainless steel wire. Designed for bulk transfer, high pressure, and vacuum process applications. (Meets 3A*, USDA, FDA and USP Class VI standards). Manufactured in a clean room environment and contains medical-grade platinum-cured silicone throughout. Ideal for proportioning and load cells.

SMD  Multi-ply Discharge

A 4-ply, fabric reinforced hose designed for higher pressure applications. The inner diameter is a continuous extruded bore to ensure maximum smoothness and purity. (Meets 3A*, USDA, FDA and USP Class VI standards).

SCT  Non-reinforced Tubing (see page 12)

**Traceability Solution...**
for Silicone or Silicone covered hoses.
- Permanently Attached, No Product Contact
- Completely Sealed, Easy to Read Text
- Autoclavable, CIP & SIP Compatible
- Label Contains Custom Information as Needed
- Quick Turn-around with Customized Text Available

**SML**  Molded Labels

Additional color/font combinations available

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*The 3-A 62-02 standard applies only to assemblies of 3/4" diameter and larger.

**WARNING:** Working pressure ratings for all Flex-Rite™ Products are based on 70°F (ambient temperature)
Working pressure and vacuum ratings will decrease as temperatures increase. For "S" series applications that exceed 250°F contact manufacturer for suggestions.
APT is ideal for pharmaceutical, biological, food and beverage applications and provides superior performance in peristaltic pumps. Extruded from virgin, medical grade TPR to precise dimensional tolerances and provides an excellent alternative to silicone tubing. APT is lot & batch traceable and can handle multiple autoclave cycles.

AST is also WELDABLE, designed and formulated to meet the critical demands of the medical, pharmaceutical, research, biotech and diagnostics industries. Our unique production method keeps the tubing round after autoclaving to insure better flow control in pumps and ease of welding.

SCT is a low-volatile grade, platinum-cured silicone tubing. Produced in an ISO Class 7 Clean Room specifically for use in critical biotech, pharmaceutical, cosmetic, medical and food applications. Works well as peristaltic pump tubing.

APF is a Phthalate (DEHP) FREE vinyl tubing. Designed to be softer for use with laboratory equipment and vacuum lines. It also addresses the concerns of REACH compliance and meets USP Class VI testing.

ACT combines the outstanding characteristics of a chemically inert, USP Class VI certified clear liner of low density polyethylene (LDPE) with a high purity ethylene vinyl acetate (EVA) cover to produce flexible transparent tubing with very good burst strength.

ADL tubing material is plasticizer-free, meaning it contains no DEHP or other phthalates which are known to cause environmental and health issues. Also, no animal derived lubricants in the manufacturing process, as these can potentially cause contamination of finished milk. Unlike traditional dairy tubing, ADL has superior tear resistance and does not shed carbon.

**Table:**

<table>
<thead>
<tr>
<th>Model</th>
<th>I.D.</th>
<th>O.D.</th>
<th>Wall</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>APT750X1000</td>
<td>3/4&quot;</td>
<td>1&quot;</td>
<td>3/32&quot;</td>
<td>50'</td>
</tr>
<tr>
<td>APT500X750</td>
<td>1/2&quot;</td>
<td>3/4&quot;</td>
<td>1/8&quot;</td>
<td>50'</td>
</tr>
<tr>
<td>APT375X625</td>
<td>3/8&quot;</td>
<td>5/8&quot;</td>
<td>1/8&quot;</td>
<td>50'</td>
</tr>
<tr>
<td>APT250X500</td>
<td>1/4&quot;</td>
<td>1/2&quot;</td>
<td>1/8&quot;</td>
<td>50'</td>
</tr>
</tbody>
</table>

**ReUseable Assembly Part Number (Example):**

- S: APT 025 = 1/4"  
- 304 SS: APF 037 = 3/8"  
- DL: ADL 050 = 1/2"  
- B: Blue Polymer 062 = 5/8"  
- Colors: SWD 100 = 1"  
- Available (MIN REQS): SMW, SMX, SMY, PPC, PHC, SCT, SPT, PWT, PCT

**Assembly Types:**

- **Reusable Sanitary Fitting:** Easy to assemble 3 pc reusable fittings with full traceability designed specifically for most Flex-Rite A, S & P-Series hoses.
- **Field Attachable:** Lightweight, versatile, works with most hose types and wall thickness. Patent Pending and 3-A® Approved.
- **For use with Biotech, High Purple Water, Pharmaceutical, Food & Beverage, Personal Care, Electronics and Potable Water."
Molded Ends

Single pin polysulfone clamps are lightweight and molded to provide even closing pressure. These clamps are highly recommended over standard steel versions for molded hose ends.

Molded Assembly Part Number

<table>
<thead>
<tr>
<th>M / APT</th>
<th>050</th>
<th>TC050</th>
<th>TC050</th>
<th>OAL</th>
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</thead>
<tbody>
<tr>
<td>Hose/Tube</td>
<td>(ID. Size)</td>
<td>Style/Size 1st End</td>
<td>Style/Size 2nd End</td>
<td>Length</td>
</tr>
<tr>
<td>ACT</td>
<td>025</td>
<td>TC</td>
<td>TC</td>
<td></td>
</tr>
<tr>
<td>APF</td>
<td>037</td>
<td>MT*</td>
<td>MT*</td>
<td></td>
</tr>
<tr>
<td>APT</td>
<td>050</td>
<td>FT*</td>
<td>FT*</td>
<td></td>
</tr>
<tr>
<td>AST</td>
<td>075</td>
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<td>PCT</td>
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<td>BS*</td>
<td>BS*</td>
<td></td>
</tr>
<tr>
<td>PWT</td>
<td></td>
<td>CM*</td>
<td>CM*</td>
<td></td>
</tr>
</tbody>
</table>

Backup Cup

Suction/Transport Hose

A hose reinforced with white helix rod coil compliant with 3A, USDA, USP, Class VI, FDA, NSF & RoHS standards. Provides excellent low temperature flexibility, ideal for use in milk hauling.

PHH Suction/Transport Hose

A clear hose reinforced with white helix rod coil compliant with 3A, USDA, USP, Class VI, FDA, NSF & RoHS standards. Provides excellent low temperature flexibility, ideal for use in milk hauling.

PWT Wire Reinforced Tubing

A heavy-duty hose with steel wire helix rod reinforcement, suitable for milk handling and food processing. It is compliant with 3A, USDA, USP, Class VI, FDA, NSF & RoHS standards and provides high suction even in extreme conditions.

PBW Suction/Transfer Hose

PBW combines polyester braids with steel wire helix of the PBT & PWT hoses to provide the benefits of both. It is compliant with 3A, USDA, USP, Class VI, FDA, NSF & RoHS standards.

PBW Suction/Transfer Hose

A clear hose reinforced with white helix rod coil compliant with 3A, USDA, USP, Class VI, FDA, NSF & RoHS standards. Provides excellent low temperature flexibility, ideal for use in milk hauling.

PHC Suction/Transport Hose

A clear hose reinforced with white helix rod coil compliant with 3A, USDA, USP, Class VI, FDA, NSF & RoHS standards. Provides excellent low temperature flexibility, ideal for use in milk hauling.

P-Series Hose are Pthalhate (DEHP) FREE

P-Series hoes are Pthalhate (DEHP) FREE

<table>
<thead>
<tr>
<th>Model</th>
<th>I.D.</th>
<th>O.D.</th>
<th>Working Pressure</th>
<th>Min. Bend Radius</th>
<th>Weight per ft.</th>
<th>Vac. in Hg.</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC100</td>
<td>1&quot;</td>
<td>1.38&quot;</td>
<td>100 PSI</td>
<td>3.00&quot;</td>
<td>.24 lbs</td>
<td>29&quot;</td>
<td>100&quot;</td>
</tr>
<tr>
<td>PHC150</td>
<td>1 1/2&quot;</td>
<td>1.80&quot;</td>
<td>85 PSI</td>
<td>6.00&quot;</td>
<td>.50 lbs</td>
<td>29&quot;</td>
<td>100&quot;</td>
</tr>
<tr>
<td>PHC200</td>
<td>2&quot;</td>
<td>2.36&quot;</td>
<td>85 PSI</td>
<td>8.00&quot;</td>
<td>.71 lbs</td>
<td>29&quot;</td>
<td>100&quot;</td>
</tr>
<tr>
<td>PHC250</td>
<td>2 1/2&quot;</td>
<td>2.88&quot;</td>
<td>65 PSI</td>
<td>10.00&quot;</td>
<td>.94 lbs</td>
<td>29&quot;</td>
<td>100&quot;</td>
</tr>
<tr>
<td>PHC300</td>
<td>3&quot;</td>
<td>3.42&quot;</td>
<td>55 PSI</td>
<td>11.00&quot;</td>
<td>1.14 lbs</td>
<td>29&quot;</td>
<td>100&quot;</td>
</tr>
</tbody>
</table>

**Note:** PHH & PHC available with reusable fittings only

Documentation:

1. The PVC compound is approved and conforms with the criteria in 3-A Sanitary Standards for Multiple-Use Plastic Materials, number 20.
2. The PVC hose has been found chemically acceptable for use in designing, processing, transporting or storage areas in direct contact with meat or poultry food product prepared under Federal Inspection.
3. The PVC compound complies with the criteria in 3-A Sanitary Standards for Multiple-Use Plastic Materials, number 20.
4. The PVC compound cannot be used in direct contact with meat or poultry food products prepared under Federal Inspection.
5. The hose meets all requirements of 3-A Sanitary Standards for Multiple-Use Plastic Materials, number 20.
6. The hose is certified under NSF/ANSI standard 51: Food Equipment Materials. The inner surface PVC material is also certified by 3-A Sanitary Standards for Multiple-Use Plastic Materials, number 20.
7. The hose is certified under NSF/ANSI standard 61: Drinking Water System.
I-Series Industrial Hose

Designed for cleanup duties in dairies, creameries, breweries, food, beverage, meat and poultry processing plants. This is an economical, high quality hose capable of handling hot water up to 200° F. The extruded construction provides for excellent handling and flexibility. Abrasion resistant, non-marking cover maintains its sanitary appearance.

**Steam Hose**

A rugged, abrasive and blister resistand hose for cleaning pumps, valves, tubing and equipment suitable for steam. Stands up to the harshest of environments with a specially formulated tube and cover that will not harden or crack during normal service. The steel braid reinforcement provides for safe use with steam pressures up to 250 PSI at 430° F.

**Selection and use of steam hoses**

- Make sure steam hose is identified as a steam hose. It should be identified, stating working pressure and temperature rating.
- Make sure working pressure and temperature is not exceeded.
- Do not allow hose to remain under pressure when not in use.
- Avoid excess bending or flexing of hose near the coupling. Straight line operation is preferred. If bends are necessary as part of operation, spring guards may help.

**Maintenance Procedures**

- Periodic inspection of hose should include looking for cover blisters and lumps.
- Check for kinked areas that could damage hose.
- Drain hose after each use to avoid tube damage before hose is put back in operation, to avoid ‘pop corning’ of the tube.
- Do not store hose over hooks.
- Steam hose lying on metal racks or installed around steel piping will dry out the hose, causing and cover cracking.

**Steam Hose Chart**

Steam Hose Chart

<table>
<thead>
<tr>
<th>Gauge Pressure Saturated Steam (PSI)</th>
<th>Temp. of Saturated Steam (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>239</td>
</tr>
<tr>
<td>25</td>
<td>257</td>
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<tr>
<td>50</td>
<td>298</td>
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<tr>
<td>75</td>
<td>320</td>
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<td>100</td>
<td>338</td>
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<tr>
<td>125</td>
<td>353</td>
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<td>150</td>
<td>366</td>
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<td>175</td>
<td>377</td>
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<td>200</td>
<td>385</td>
</tr>
<tr>
<td>225</td>
<td>400</td>
</tr>
<tr>
<td>250</td>
<td>413</td>
</tr>
</tbody>
</table>

For quickest response, send ALL request for quotes and purchase orders to: sales@acesanitary.com

Steam Hose Safety Facts

Working with steam can be very hazardous. Safety precautions should be observed when handling to minimize or eliminate personal injury or property damage.

**Washdown**

RMH Rubber Molded Hose

Application: Customizable, flexible flow panel jumper that flexes due to expansion / contraction and ground movement. This flexibility allows for easy connection every time, which minimizes operator time connecting to the panel.

- **Tube:** White FDA, 3-A Chlorobutyl (Other compounds available: Silicone, EPDM, Nitrile, Viton)
- **Reinforcement:** Spiral plied synthetic fabric w/ wire helix
- **Cover:** EPDM (Other compounds available: Silicone, Chlorobutyl, Nitrile, Viton)

**Recommended Cleaning:** CIP, COP

- **Sizes:** 3/4" thru 6" ID
- **End Connections:** Refer to Ace Sanitary catalog or website: acesanitary.com

**Options:** Cover colors, compounds, reinforcement, sample valves, proximity switches. Other options available upon request, consult factory.

**Specialty Molded & Jacketed Hose**

**Electrically Heated Hose Assemblies**

EHH is custom manufactured for a variety of applications to keep product flowing. Compared to single conductor heating elements, the EHH provides optimal heat transfer to a large (95%) surface area. Individual strand conductors are fixed in place and insulated with flexible, high-temperature fiber. The “Overlap” layer of silicone rubber secures the conductors and provides a flexible cushion.

**Applications:**

- Gel Cap Production Packaging Industry
- Photographic Development Solutions
- Hot Oil Transfer
- Cosmetic Transfer
- Candy Manufacturing
- Chemical Transfer Testing
- Pharmaceutical Slimes
- Hot Fill
- Food Transfer (FDA approved)

**Ace’s proprietary Seal-Rite fittings are available in a wide range of end styles.**

To order RMH or EHH contact the factory to discuss your specific application.
I-Series Industrial Hose

IWD Washdown

Designed for cleanup duties in dairies, creameries, breweries, food, beverage, meat and poultry processing plants. This is an economical, high quality hose capable of handling hot water up to 200° F. The extruded construction provides for excellent handling and flexibility. Abrasion resistant, non-marking cover maintains its sanitary appearance.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>I.D.</th>
<th>O.D.</th>
<th>PRESSURE</th>
<th>WEIGHT</th>
<th>PRESSURE</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>IWD075</td>
<td>3/4”</td>
<td>1.17”</td>
<td>300 PSI</td>
<td>.40 lbs</td>
<td>1.25”</td>
<td>250 PSI</td>
</tr>
</tbody>
</table>

**TEMP. RANGE**
-20 to 200° F

**COVER**
White EPDM

**TUBE**
Black Chlorobutyl

**REINFORCEMENT**
Two synthetic textile spiral cords

**FOR CLEANUP DUTIES IN DAIRIES, CREAMERIES, BREWRIES, FOOD, BEVERAGE, MEAT AND Poultry**

Steam Hose Safety Facts

Working with steam can be very hazardous. Safety precautions should be observed when handling to minimize or eliminate personal injury or property damage.

**Selection and Use of Steam Hoses**

- Make sure steam hose is identified as a steam hose. It should be identified, stating working pressure and temperature rating.
- Make sure working pressure and temperature is not exceeded.
- Do not allow hose to remain under pressure when not in use.
- Avoid excess bending or flexing of hose near the coupling. Straight line operation is preferred. If bends are necessary as part of operation, spring guards may help.

**Maintenance Procedures**

- Periodic inspection of hose should include looking for cracks or damage.
- Drain hose after each use to avoid tube damage.
- Do not store hose over hooks.
- Steam hose lying on metal racks or installed around steel piping will dry out the hose, causing and cover cracking.

Steam Hose Chart

**Steam Hose Chart**

**Steam Hose Chart**

**Steam Hose Chart**

**Steam Hose Chart**

For quickest response, send ALL request for quotes and purchase orders to: sales@acesanitary.com

RMH Rubber Molded Hose

Application: Customizable, flexible flow panel jumper that flexes due to expansion / contraction and ground movement. This flexibility allows for easy connection every time, which minimizes operator time connecting to the panel.

**Tube:** White FDA, 3-A Chlorobutyl
(Other compounds available: Silicone, EPDM, Nitric, Viton)

**Reinforcement:** Spiral plied synthetic fabric w/wire helix

**Cover:** EPDM
(Other compounds available: Silicone, Chlorobutyl, Nitric, Viton)

**Temp. Range:** -40 to 225° F

**Working Pressure:** 200 PSI

**Recommended Cleaning:** CIP, COP

**Sizes:** 3/4” thru 6” I.D.

**End Connections:** Refer to Ace Sanitary catalog or website: acesanitary.com

**Options:** Cover colors, compounds, reinforcement, sample valves, proximity switches. Other options available upon request, consult factory.

For fastest response, send ALL requests to sales@acesanitary.com

WJ Water Jacketed Hose

(Other compounds available: Silicone, EPDM, Nitrile, Viton)

**Temp. Range:** -40 to 225˚ F

**Cover Colors, Compounds, Reinforcement, Options:**

- Food Transfer (FDA approved)
- Hot Fill
- Chemical Transfer Testing
- Candy Manufacturing
- Hot Oil Transfer
- Photographic Development Solutions
- Gel Cap Production Packaging Industry
- Photographic Development Solutions
- Hot Oil Transfer
- Cosmetic Transfer
- Candy Manufacturing
- Chemical Transfer Testing
- Pharmaceutical Slimes
- Hot Fill
- Food Transfer (FDA approved)

CIP Insulated Hose

To order RMH or EHH contact the factory to discuss your specific application.
Molded Assembly Part Number (Example)

<table>
<thead>
<tr>
<th>M</th>
<th>APT</th>
<th>O50</th>
<th>TC050</th>
<th>TC050</th>
<th>OAL</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACT</td>
<td>025</td>
<td>TC</td>
<td>TC</td>
<td>TC</td>
<td></td>
</tr>
<tr>
<td>APF</td>
<td>037</td>
<td>MT*</td>
<td>MT*</td>
<td>MT*</td>
<td></td>
</tr>
<tr>
<td>APT</td>
<td>050</td>
<td>FT*</td>
<td>FT*</td>
<td>FT*</td>
<td></td>
</tr>
<tr>
<td>AST</td>
<td>075</td>
<td>IM*</td>
<td>IM*</td>
<td>IM*</td>
<td></td>
</tr>
<tr>
<td>PBT</td>
<td>100</td>
<td>IF*</td>
<td>IF*</td>
<td>IF*</td>
<td></td>
</tr>
<tr>
<td>PCT</td>
<td>150</td>
<td>BS*</td>
<td>BS*</td>
<td>BS*</td>
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</tr>
<tr>
<td>PWT</td>
<td>CM*</td>
<td>CM*</td>
<td>CM*</td>
<td>CM*</td>
<td></td>
</tr>
</tbody>
</table>

Backup Cup

Molded Ends

Single pin polyurethane clamps are lightweight and molded to provide even closing pressure. These clamps are highly recommended over standard steel version for molded hose ends.

SSD

Backup Cup

SCT

Poly Backup Cup

SSD

SS Backup Cup

A clear hose, reinforced with white helix rod is compliant with 3A, USDA and FDA⁴ standards. It provides extremely low temperature flexibility, ideal for use in milk handling.

PHT

Suction/Transport Hose

A clear hose, reinforced with white helix rod is compliant with 3A, USDA and FDA⁴ standards. It provides extremely low temperature flexibility, ideal for use in milk handling.

PPH

Suction/Transport Hose

A clear hose, reinforced with white helix rod is compliant with 3A, USDA and FDA⁴ standards. It provides extremely low temperature flexibility, ideal for use in milk handling.

PBT

Braid Reinforced Tubing

Flexible clear tubing with multiple polyester braids gives dependable reinforcement for all suitable applications and is compliant with 3A, USDA, Class VI, FDA⁴ & NSF⁵ standards.

PWT

Wire Reinforced Tubing

A heavy-duty hose with steel wire helix rod reinforcement, suitable for milk handling and food processing. It is compliant with 3A, USDA, Class VI, FDA⁴ & NSF⁵ standards and provides high suction even in higher temperatures.

PBW

Suction/Transfer Hose

PBW combines polyester braids with steel wire of the PBT & PWT hose to provide benefits of both. It is compliant with 3A, USDA, FDA⁴ & NSF⁵ standards.

PHH

Suction/Transport Hose

A clear hose, reinforced with white helix rod is compliant with 3A, USDA and FDA⁴ standards. It provides extremely low temperature flexibility, ideal for use in milk handling.

PCH

Suction/Transport Hose

A clear hose, reinforced with white helix rod is compliant with 3A, USDA and FDA⁴ standards. It provides extremely low temperature flexibility, ideal for use in milk handling.

PCT

Clear Non-reinforced Tubing

FDA PVC transparent tubing is a clear extrusion that is compliant with 3A, USDA, Class VI, FDA⁴ & NSF⁵ standards.

PVC Hose

P-Series hose fittings are Pphthalate (DEHP) FREE

<table>
<thead>
<tr>
<th>MODEL</th>
<th>I.D.</th>
<th>O.D.</th>
<th>PRESSURE</th>
<th>MIN. BEND</th>
<th>WEIGHT</th>
<th>VAC.</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCT050</td>
<td>1/2&quot;</td>
<td>.75&quot;</td>
<td>45 PSI</td>
<td>-</td>
<td>-13 lbs</td>
<td>-100&quot;</td>
<td>-</td>
</tr>
<tr>
<td>PCT075</td>
<td>3/4&quot;</td>
<td>1.12&quot;</td>
<td>40 PSI</td>
<td>-</td>
<td>-16 lbs</td>
<td>-100&quot;</td>
<td>-</td>
</tr>
<tr>
<td>PCT100</td>
<td>1&quot;</td>
<td>1.37&quot;</td>
<td>35 PSI</td>
<td>-</td>
<td>-18 lbs</td>
<td>-100&quot;</td>
<td>-</td>
</tr>
<tr>
<td>PCT150</td>
<td>1 1/2&quot;</td>
<td>1.87&quot;</td>
<td>35 PSI</td>
<td>-</td>
<td>-18 lbs</td>
<td>-100&quot;</td>
<td>-</td>
</tr>
<tr>
<td>PCT200</td>
<td>2&quot;</td>
<td>2.50&quot;</td>
<td>35 PSI</td>
<td>-</td>
<td>-18 lbs</td>
<td>-100&quot;</td>
<td>-</td>
</tr>
<tr>
<td>PBT050</td>
<td>1/2&quot;</td>
<td>.81&quot;</td>
<td>200 PSI</td>
<td>-</td>
<td>-13 lbs</td>
<td>-100&quot;</td>
<td>-</td>
</tr>
<tr>
<td>PBT075</td>
<td>3/4&quot;</td>
<td>1.12&quot;</td>
<td>150 PSI</td>
<td>-</td>
<td>-11 lbs</td>
<td>-100&quot;</td>
<td>-</td>
</tr>
<tr>
<td>PBT100</td>
<td>1&quot;</td>
<td>1.37&quot;</td>
<td>125 PSI</td>
<td>-</td>
<td>-10 lbs</td>
<td>-100&quot;</td>
<td>-</td>
</tr>
<tr>
<td>PBT150</td>
<td>1 1/2&quot;</td>
<td>1.94&quot;</td>
<td>100 PSI</td>
<td>-</td>
<td>-8 lbs</td>
<td>-100&quot;</td>
<td>-</td>
</tr>
<tr>
<td>PBT200</td>
<td>2&quot;</td>
<td>2.49&quot;</td>
<td>75 PSI</td>
<td>-</td>
<td>-5 lbs</td>
<td>-90&quot;</td>
<td>-</td>
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</table>

<table>
<thead>
<tr>
<th>TUBE</th>
<th>FDA</th>
<th>USDA</th>
<th>Class</th>
<th>NSF</th>
<th>Pipe</th>
</tr>
</thead>
<tbody>
<tr>
<td>TUBE</td>
<td>2 1/2&quot;, O.D. &gt; 15, PVC</td>
<td>淺</td>
<td>浅</td>
<td>深</td>
<td>浅</td>
</tr>
</tbody>
</table>

**WARNING:** For “N” series applications that exceed 150°F contact manufacturer for suggestions (ambient temperature). Working pressure and vacuum ratings will decrease as temperatures increase. For “P” series applications that exceed 100°F contact manufacturer for suggestions (ambient temperature).

**PHH** & **PHC** available with reusable fittings only.
**APT**

- **Pump Tubing**
- **Sealable Tubing**
- **Non-reinforced Tubing**
- **Phthalate Free**
- **Co-extruded Tubing**
- **Dairy Line**

APT is ideal for pharmaceutical, biological, food and beverage applications and provides superior performance in peristaltic pumps. Extruded from virgin, medical grade TPR to provide excellent alternative to silicone tubing. APT has lot & batch traceable and can handle multiple autoclave cycles.

**AST**

- **Sealable Tubing**
- **Non-reinforced Tubing**
- **Phthalate Free**

AST is also WELDABLE, designed and formulated to meet the critical demands of the medical, pharmaceutical, research, biotech and diagnostics industries. Our unique production method keeps the tubing round after autoclaving to ensure better flow control in pumps and ease of welding.

**SCT**

- **Phthalate Free**
- **Non-reinforced Tubing**
- **Sealable Tubing**
- **Co-extruded Tubing**
- **Dairy Line**

SCT is a low-volatile grade, platinum-cured silicone tubing. Produced in an ISO Class 7 Clean Room specifically for use in critical biotech, pharmaceutical, cosmetic, biomedical and food applications. Works well as peristaltic pump tubing.

**APF**

- **Phthalate Free**
- **Non-reinforced Tubing**
- **Co-extruded Tubing**
- **Dairy Line**

APF is a Phthalate (DEHP) FREE vinyl tubing. Designed to be softer for use with laboratory equipment and vacuum lines. It also addresses the concerns of REACH compliance and meets USP Class VI testing.

**ACT**

- **Co-extruded Tubing**
- **Dairy Line**

ACT combines the outstanding characteristics of a chemically inert, USP Class VI certified clear liner of low density polyethylene (LDPE) with a high purity ethylene vinyl acetate (EVA) cover to produce flexible transparent tubing with very good burst strength.

**ADL**

- **Dairy Line**

ADL tubing material is plasticizer-free, meaning it contains no DEHP or other phthalates which are known to cause environmental and health issues. Also, no animal derived lubricants in the manufacturing process, as these can potentially cause contamination of finished milk. Unlike traditional dairy tubing, ADL has superior tear resistance and does not shred carbon.

---

### Assembly Types

**Reusable Sanitary Fitting**

- **Field Attachable**
  
  Easy to assemble 3 pc reusable fittings with full traceability designed specifically for most Flex-Rite A, B & P-Series hose.

  Lightweight, versatile, works with most hose types and wall thickness. Patent Pending and 3 A® Approved.

  Suitable for use with Biotech, High Purity Water, Pharmaceutical, Food & Beverage, Personal Care, Electronics and Potable Water.

---

### ReUsable Assembly Part Number (Example)

<table>
<thead>
<tr>
<th>Re / S</th>
<th>SSD</th>
<th>TC</th>
<th>TC100</th>
<th>TC100</th>
<th>144 - XX</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>S</strong></td>
<td><strong>APT</strong></td>
<td>025</td>
<td>1/4&quot;</td>
<td>TC = Sanitary Clamp (stepup available)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>304 SS</td>
<td><strong>APF</strong></td>
<td>037</td>
<td>3/8&quot;</td>
<td>TE = Butt Weld - Tube</td>
</tr>
<tr>
<td><strong>B</strong></td>
<td><strong>ADL</strong></td>
<td>050</td>
<td>1/2&quot;</td>
<td>Other Styles Available (consult factory)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>SCT</strong></td>
<td><strong>B</strong></td>
<td>062</td>
<td>5/8&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>SSD</strong></td>
<td>075</td>
<td>3/4&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>SDB</strong></td>
<td>100</td>
<td>1&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Colors</strong></td>
<td><strong>SMW</strong></td>
<td>150</td>
<td>1-1/2&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Available</strong></td>
<td><strong>SMD</strong></td>
<td>SWD</td>
<td>200</td>
<td>2&quot;</td>
</tr>
</tbody>
</table>

**CONSULT FACTORY FOR ADDITIONAL CHOICES**

For quickest response, send ALL request for quotes and purchase orders to: sales@acesanitary.com

---

**Overall length tolerances for assemblies are:**

- 1/4" on assemblies to 24"
- 1/2" on assemblies to 25" to 60"
- 1% on assemblies over 60"
Hose Length Measurements

Ace Sanitary hose assemblies are generally measured from end to end. The exceptions to this practice are illustrated at left. JIC Female Swivel, Female Cam & Swivel, and Sanitary Bevel Seat fittings are measured lengthwise from the sealing surface of the fitting.

The following illustrations show how to measure the overall length (OAL) of Ace Sanitary hose assemblies, including 45° and 90° elbow fittings. Examples are shown with clamp style sanitary fittings.

Length Tolerance

Up to 24" OAL assemblies: 1/4" (.250")
Over 24" up to 60": 1/2" (.500")
Over 60": 1%
S-Series Silicone Hose

**SXW** X-tremely Flexible, Wire Reinforced

SXW with low force-to-bend characteristics is an X-tremely flexible suction and delivery hose. Our phthalates free tubes are ideal for pharmaceutical, cosmetic and food products transfer. (Meets 3A*, USDA, FDA and USP Class VI standards). Short and light vacuum process applications. (Meets 3A*, USDA, FDA and USP Class VI standards).

This High Purity Silicone hose is manufactured to the longest length in the industry (130 feet). Striking a balance between /f_lexibility and strength, SXW is reinforced with 316L stainless steel wire.

**SXD** Fabric Reinforced Discharge

SXD like the SXW, is extremely easy to handle. Reinforced with four fabric layers ensures a balance between strength and lightness. Specially designed for bulk transfer, high-pressure, and light vacuum process applications. (Meets 3A*, USDA, FDA and USP Class VI standards). Short lengths are ideal for proportioning and load cells.

**SSD** Single Braid Discharge

A polyester braid reinforced silicone hose, processed from high purity, platinum cured resin and fully traceable. Extractable & Leachable documentation available upon request.

For quickest response, send ALL request for quotes and purchase orders to: sales@acesanitary.com

---

**Assembly Part Number**

**RSD**

<table>
<thead>
<tr>
<th>Hose</th>
<th>I.D. Size</th>
<th>Type of Hose</th>
</tr>
</thead>
<tbody>
<tr>
<td>RDC</td>
<td>025 = 1/4&quot;</td>
<td>TC = SanitaryClamp</td>
</tr>
<tr>
<td>RBT</td>
<td>037 = 3/8&quot;</td>
<td>TE = Butt Weld - Tube</td>
</tr>
<tr>
<td>RES</td>
<td>050 = 1/2&quot;</td>
<td>BS = Bevel Seat - Plain w/nut</td>
</tr>
<tr>
<td>RWD</td>
<td>062 = 5/8&quot;</td>
<td>BM = Bevel Seat - Threaded</td>
</tr>
<tr>
<td>RSD</td>
<td>075 = 3/4&quot;</td>
<td>IF = I-Line - Female</td>
</tr>
<tr>
<td>RCT</td>
<td>100 = 1&quot;</td>
<td>IM = I-Line - Male</td>
</tr>
<tr>
<td>RCR</td>
<td>150 = 1-1/2&quot;</td>
<td>JM = John Perry - Threaded</td>
</tr>
<tr>
<td>RWS</td>
<td>200 = 2&quot;</td>
<td>JF = John Perry - Plain w/nut</td>
</tr>
<tr>
<td>SMW</td>
<td>250 = 2-1/2&quot;</td>
<td>OM = Q-Line</td>
</tr>
<tr>
<td>SMD</td>
<td>300 = 3&quot;</td>
<td>CF = Cam - Female</td>
</tr>
<tr>
<td>SSD</td>
<td>400 = 4&quot;</td>
<td>CM = Cam - Male</td>
</tr>
<tr>
<td>SDB</td>
<td>600 = 6&quot;</td>
<td>MT = Male - NPT Pipe Thread</td>
</tr>
<tr>
<td>SHF</td>
<td>800 = 8&quot;</td>
<td>FT = Female - NPT Pipe Thread</td>
</tr>
<tr>
<td>TRS</td>
<td>1000 = 10&quot;</td>
<td>AF = Flange End</td>
</tr>
<tr>
<td>TSB</td>
<td>1500 = 15&quot;</td>
<td>FF = FSM - Flat Face Plain w/nut</td>
</tr>
<tr>
<td>TCB</td>
<td>2000 = 20&quot;</td>
<td>FM = FSM - Flat Face Threaded</td>
</tr>
<tr>
<td>TCP</td>
<td>3000 = 30&quot;</td>
<td>RF = RJT - Plain w/nut</td>
</tr>
<tr>
<td>TSC</td>
<td>4000 = 40&quot;</td>
<td>RM = RJT - Threaded</td>
</tr>
<tr>
<td>TPC</td>
<td>6000 = 60&quot;</td>
<td>SF = SMS - Plain w/nut</td>
</tr>
<tr>
<td>PBT</td>
<td>8000 = 80&quot;</td>
<td>SM = SMS - Threaded</td>
</tr>
<tr>
<td>PWT</td>
<td>10000 = 100&quot;</td>
<td>DF = DIN - Plain w/nut</td>
</tr>
<tr>
<td>PBW</td>
<td>15000 = 150&quot;</td>
<td>DN = DIN - Threaded</td>
</tr>
</tbody>
</table>

**END STYLE**

Consult factory for additional choices.

For quickest response, send ALL request for quotes and purchase orders to: sales@acesanitary.com

---

**Overall length tolerances for assemblies are:**
- 1/4" on assemblies to 24"
- 1/2" on assemblies to 25" to 60"
- 1% on assemblies over 60"
Chemical Charts are located on our website

Prior to Installation

inspect hose completely for signs of obvious damage. Possible damage may include cuts to cover, kinking, broken braids and crushing. This damage can reduce hose life and pressure rating.

Do Not Use any damaged hose.

Hose should be application specific. Review materials, pressures, chemical compatibility, temperature and environment to ensure proper selection of hose.

- Failure of hose will occur when hose is bent (Fig. 1) beyond minimum bend radius. Bend radii are given for individual products and sizes. The bend radius values must be observed (measure to inside radius of fluoropolymer-lined hose and the centerline for stainless steel metal hose) for hoses to be installed properly. Occasionally, vacuum and pressure ratings are based on not to exceed 2% minimum bend radius. The manufacturer should be contacted for specific hose rating and data.

- Restrict hose movement to a single plane (Fig. 2) to minimize resultant twisting or torque. Within the bending plane is where flexing should occur. Stress fatigue increases with excessive bending of hose.

- Axial or twisting movement (Fig. 3) should be eliminated. The likelihood of leakage or failure increases for hoses that are twisted (torqued) during assembly. Floating flanges or swivel-type fittings (i.e., JIC) can eliminate twisting or torque. Within the bending plane is where flexing should occur. Stress fatigue increases with excessive bending of hose.

- Avoid stretching or compressing the hose (Fig. 4) along its longitudinal axis with in-line installation.

Motion Calculations

Axial Motion: Motion that occurs when a hose is compressed along its longitudinal axis. Axial motion is only applicable in very short lengths of annular hose only. Fluoropolymer lined hose should not be subjected to axial motion.

Offset Motion: Motion that occurs when one end of the hose is deflected in a plane perpendicular to it’s longitudinal axis with the ends remaining parallel. In offset applications where motion is repeated, the offset should never exceed 25% of the minimum bend radius. To calculate the required live length to achieve a desired offset, use the following calculations:

\[
LL = \sqrt{Y^2 + (2Y)^2}
\]

where:

- \( LL \) = live length to achieve a desired offset, use the following calculations:
- \( Ton \) = 0.94 lbs. 28" 32"
- \( Ton \) = 1.18 lbs. 30" 32"
- \( Ton \) = 1.48 lbs. 35" 32"
- \( Ton \) = 1.79 lbs. 40" 32"
- \( Ton \) = 2.24 lbs. 50" 32"
- \( Ton \) = 2.44 lbs. 60" 32"
- \( Ton \) = 2.71 lbs. 80" 32"
- \( Ton \) = 3.58 lbs. 100" 32"

Note: Where offset motion “Y” occurs on both sides of hose centerline, the hose live length should be based on total travel, or 2Y. The modified calculation will be:

\[
LL = \sqrt{(2Y)^2 + (2Y)^2}
\]
T-Series  Fluoropolymer Lined Hose

All “T-Series” hose meet USP Class VI & FDA Criteria - ALL liners are extra thick to provide better flow life and less permeation. Anti-static tube option available.

TCB  Silicone Covered Smooth Bore

This silicone covered, PTFE lined tube (tubing: smooth bore with exterior coverings) provides exceptional flexibility. Exceptional for High-Fouyty use in Pharmaceutical, BioTech and Foodstuffs industries. This hose will not impart taste or odor to products being transferred and provides cleaning ease both inside and out. TCB is excellent for use in hot or low velocity steam transfer applications.

TSC-C  Carbon Filled - Anti-Static

While similar to the TSC, the TSC-C has a carbon filled tube for safety purposes. This hose is recommended for steam applications and for chemical, food and beverages.

TSB  Braided Smooth Bore

Excellent for fixed applications where minimal Abuse, handling or flexing exist. Available for “flared through” applications.

TCB  Steel Braided Convoluted

Kink resistant hose that is easy to flex and has a tighter bend radius than smooth bore. Open-pitched, seamless, helical convolutions provide for easy cleaning and transport of pharmaceuticals, chemical, food and beverages.

TCP  Poly Braided Convoluted

Better abrasion resistance than metal braids, easy to flex and has a tighter bend radius than smooth bore. Kink resistant with open-pitched, seamless, helical convolutions that provide for easy cleaning and transport of pharmaceuticals, chemicals, food and beverages.

Definitions Industry Recognized Terms

Bend Radius (fluoropolymer hose and all rubber hose)
- The radius of a bent section of hose measured to the innermost surface of the curved portion (R1)
- The radius of a bent section of hose measured to the hole centerline (R2)
Minimum Bend Radius
- The smallest radius at which a hose can be used

Force to Bend
- The amount of stress required to induce bending around a specific radius - a measure of stiffness

Maximum Rated Working Pressure
- The maximum pressure hoses should be subjected to on a continuous basis

Maximum Rated Test Pressure
- The maximum rated pressure is multiplied by 150%

Nominal Rated Burst Pressure
- The average pressure at which the core of braid will ruptured at ambient temperature

Pressure / Temperature Correction
- Hose pressure capabilities decrease as the temperature increases. Consult factory to determine pressure rating at elevated temperatures

Flexibility / Bend Radius
Flexible and minimum bend radius are important factors in hose design and selection of it is known that the hose will be subjected to sharp curvatures in normal use. When bend at too sharp an angle, hose may kink or flatten in the cross-section. The reinforcement may also be unduly stressed or distorted and the hose life thereby shortened.

Temperature Correction
- Adequate flexibility means the hose should be able to conform to the smallest anticipated bend radius without over stress. The minimum bend radius is generally specified for each hose in this catalog. This is the radius to which the hose can be bent in service without damage or appreciably shortening its life. The radius is measured to the inside of the curvature.

Hydraulic Shock...

Due To Instantaneous Pressure Increase

Formula to determine minimum hose length given bend radius and degree of bend required:

L = \frac{A}{2} + \frac{B}{2}

L = Minimum length of hose to make bend (bend must be made exactly along this portion of hose)
A = Angle of bend
B = Given bend radius of hose

Example: To make a 60° bend at the hose's rated minimum bend radius of 15 cm

L = \frac{60}{2} × \frac{3.14}{2} × 15 \leq 16 cm

Thus, the bend must be made over approximately 16 cm of hose length. The bend radius used must be equal to or greater than the rated minimum bend radius. Bending the hose to a smaller bend radius than minimum may kink the hose and result in damage and early failure.

TCB400 4" 5.22" 100 PSI 16.0" ~ 29.0" 29" 50’

TCB300 3" 4.05" 80 PSI 13.8" 2.96 lbs. 29" 50’

TCB200 2" 3.25" 60 PSI 10.5" 2.41 lbs. 29" 50’

TCB150 1 1/2" 2.03" 45 PSI 7.0" 1.86 lbs. 29" 50’

TCB100 1" 1.35" 110 PSI 4.0" 0.51 lbs. 29" 50’

TCP075 3/4" .86" 1425 PSI 6.5" 0.16 lbs. 30" 50’

TCP050 1/2" .75" 700 PSI 3.0" 0.19 lbs. 29" 50’

TCP025 1/4" .46" 45 PSI 1.5" 0.32 lbs. 29" 50’

TCP  Poly Braided Convoluted

Better abrasion resistance than metal braids, easy to flex and has a tighter bend radius than smooth bore. Kink resistant with open-pitched, seamless, helical convolutions that provide for easy cleaning and transport of pharmaceuticals, chemicals, food and beverages.
**Seal-Rite Guage Reducer**

For available sizes:
Please contact the factory.

The Seal-Rite Guage Reducer provides easy and quick transition for a variety of applications. These reducers are machined from 316L Stainless Steel and are permanently marked with heat number. They are electropolished in compliance with the highest sanitary standards. These reducers provide solutions when standard concentric reducers aren’t conducive for tight, confined areas.

**Seal-Rite Hose Support**

For available sizes:
Please contact the factory.

The Seal-Rite Hose Support provides additional protection for your transfer hoses. In environments where abnormal cover wear can occur, you can lift up and extend the life of your hose. The two halves easily attach with two recessed locking screws. The lightweight design, wide outer edges and even wider collar provides stability which eliminates kinking. Our supports are ideal for use in receiving bays to eliminate damming or pooling water.

**Seal-Rite Fitting Bumper**

For available sizes:
Please contact the factory.

BUMPER should be installed during assembly.

Protection of your investment during assembly.

**Hose Sling**

Hose Sling is a polyurethane saddle designed to suspend hoses. Each model comes complete with its own UV treated sling which is fastened in a choker position. Designed to accommodate the OEM’s minimum bending radius to protect hose from kinking and prolong the life of the hose.

**Vue-Gard Protective Shield**

These “See-Through” shields withstand temperatures up to 300°F and pressure to 1000 PSI.

Special fabrication for flow indicators, pressure vessels, heat exchangers and various instruments used in process industries.

**F-Series Food Grade**

These FDA grade hoses are not suitable for 3-A applications.

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>FRH200</td>
<td>2”</td>
<td>2.59”</td>
<td>150 PSI</td>
<td>-</td>
<td>1.23 lbs</td>
<td>29”</td>
<td>100’</td>
</tr>
<tr>
<td>FRH300</td>
<td>3”</td>
<td>3.58”</td>
<td>150 PSI</td>
<td>-</td>
<td>1.76 lbs</td>
<td>29”</td>
<td>100’</td>
</tr>
</tbody>
</table>

**FRH Raised Helix**

This hose is an excellent choice for receiving bays. Its exterior corrugations provide for tight bending and easy handling. Designed for adverse conditions or cleanup as water will not pool with use of the FRH. Versatile and flexible, this hose is ideal for discharge and use up to 150 PSI while not imparting taste or odor.

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>FDF200</td>
<td>2”</td>
<td>2.64”</td>
<td>150 PSI</td>
<td>12”</td>
<td>1.89 lbs</td>
<td>27”</td>
<td>130’</td>
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<tr>
<td>FDF300</td>
<td>3”</td>
<td>3.66”</td>
<td>150 PSI</td>
<td>18”</td>
<td>3.15 lbs</td>
<td>27”</td>
<td>130’</td>
</tr>
<tr>
<td>FDF400</td>
<td>4”</td>
<td>4.72”</td>
<td>150 PSI</td>
<td>24”</td>
<td>4.52 lbs</td>
<td>27”</td>
<td>130’</td>
</tr>
</tbody>
</table>

**FDF Dry Food Transfer**

This suction and discharge hose, with its anti-static tube and conductive cover is excellent for wet or dry abrasive materials, like sugar or powdered milk. It’s designed to be extremely flexible and suited for extreme environments.

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FPE200</td>
<td>2”</td>
<td>2.52”</td>
<td>150 PSI</td>
<td>7.87”</td>
<td>1.21 lbs</td>
<td>28”</td>
<td>130’</td>
</tr>
<tr>
<td>FPE150</td>
<td>1-1/2”</td>
<td>2.00”</td>
<td>150 PSI</td>
<td>5.92”</td>
<td>.76 lbs</td>
<td>28”</td>
<td>130’</td>
</tr>
<tr>
<td>FPE100</td>
<td>1”</td>
<td>1.46”</td>
<td>150 PSI</td>
<td>3.94”</td>
<td>.54 lbs</td>
<td>28”</td>
<td>130’</td>
</tr>
</tbody>
</table>

**FPE UHMW-PE SSD**

An economical alternative for fluoropolymer lined hose. With a low friction cover it’s a significant addition to our chemical hose line. It handles the majority of common industrial chemicals in pressure, gravity and suction applications. FPE is crush and kink resistant and durable for challenging applications.

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>FPE150</td>
<td>1-1/2”</td>
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<td>.76 lbs</td>
<td>28”</td>
<td>130’</td>
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<td>.54 lbs</td>
<td>28”</td>
<td>130’</td>
</tr>
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<td>FPE200</td>
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<td>2.52”</td>
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<td>7.87”</td>
<td>1.21 lbs</td>
<td>28”</td>
<td>130’</td>
</tr>
</tbody>
</table>

**FGS Deep Corrugations**

Designed to handle a wide variety of liquid products, including oily edibles. The white nitrite tube will not impart taste or odor to the liquids be transferred. This hose is rated for vacuum as well as a constant 150 psi working pressure on all sizes. The distinct, deep corrugations permit a tighter bend radius.

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>FGS150</td>
<td>1-1/8”</td>
<td>2.19”</td>
<td>150 PSI</td>
<td>3.0”</td>
<td>1.20 lbs</td>
<td>28”</td>
<td>100’</td>
</tr>
<tr>
<td>FGS200</td>
<td>2”</td>
<td>2.69”</td>
<td>150 PSI</td>
<td>4.0”</td>
<td>1.60 lbs</td>
<td>28”</td>
<td>100’</td>
</tr>
<tr>
<td>FGS250</td>
<td>2-1/8”</td>
<td>3.22”</td>
<td>150 PSI</td>
<td>5.0”</td>
<td>2.00 lbs</td>
<td>28”</td>
<td>100’</td>
</tr>
<tr>
<td>FGS300</td>
<td>3”</td>
<td>3.72”</td>
<td>150 PSI</td>
<td>6.0”</td>
<td>2.30 lbs</td>
<td>28”</td>
<td>100’</td>
</tr>
<tr>
<td>FGS400</td>
<td>4”</td>
<td>4.80”</td>
<td>150 PSI</td>
<td>8.0”</td>
<td>3.40 lbs</td>
<td>28”</td>
<td>100’</td>
</tr>
</tbody>
</table>

Visit acesanitary.com for new additions and most up-to-date product information.
The document contains information about RBT and RWD hoses. RBT hoses are capable of handling hot water up to poultry processing plants. This premium quality hose has a wrapped cover construction designed to reduce abrasion while providing handling stability. RWD hoses are designed for Beverage Transfer, Wine & Spirits, and Washdown applications. They are built to resist kinking and flattening in high traffic areas. The document also includes information about RWS-L hoses, which are lightweight, extremely flexible hoses for high-friction and low-friction environments. The accessories section includes information about stainless steel fabrications and custom designs, which can be ordered through email: sales@acesanitary.com.
Test Benches
This test bench assures that your assembly has been joined correctly. The programmable PLC Controller gives the operator the ability to pre-program and repeat a test sequence. (optional save to USB)

Cutoff Saws
These rugged, dependable saws offer features not found on other saws. Choose the one that meets your individual requirements.

Molded Label Machines
Equipment to make permanent labels on silicone or silicone covered hose. Label can contain part number, date, serial number or custom information as needed.

Part Marking
The NiML™ fiber laser system packs a powerful punch and gives users maximum application flexibility. Front mounted controls make operation simple. A USB connection to a laptop or desktop PC is all that is required to start programming. Quickly mark text, barcodes, serial and date codes graphics and more.

Product Description same as RSD Gray

<table>
<thead>
<tr>
<th>MODEL</th>
<th>I.D.</th>
<th>O.D.</th>
<th>WORKING PRESSURE</th>
<th>MIN. BEND RADIUS</th>
<th>WEIGHT PER FT.</th>
<th>VAC. IN HG.</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSD50</td>
<td>1/2&quot;</td>
<td>1.00&quot;</td>
<td>150 PSI</td>
<td>2.0&quot;</td>
<td>.32 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RSD75</td>
<td>3/4&quot;</td>
<td>1.25&quot;</td>
<td>150 PSI</td>
<td>2.0&quot;</td>
<td>.57 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RSD100</td>
<td>1&quot;</td>
<td>1.50&quot;</td>
<td>150 PSI</td>
<td>3.0&quot;</td>
<td>.91 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RSD150</td>
<td>1 1/2&quot;</td>
<td>2.06&quot;</td>
<td>150 PSI</td>
<td>4.0&quot;</td>
<td>1.03 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RSD200</td>
<td>2&quot;</td>
<td>2.57&quot;</td>
<td>150 PSI</td>
<td>4.5&quot;</td>
<td>1.32 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RSD250</td>
<td>2 1/2&quot;</td>
<td>3.12&quot;</td>
<td>150 PSI</td>
<td>5.5&quot;</td>
<td>1.84 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RSD300</td>
<td>3&quot;</td>
<td>3.74&quot;</td>
<td>150 PSI</td>
<td>7.0&quot;</td>
<td>2.55 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
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<tr>
<td>RSD400</td>
<td>4&quot;</td>
<td>4.77&quot;</td>
<td>150 PSI</td>
<td>10.0&quot;</td>
<td>5.51 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RSD600</td>
<td>6&quot;</td>
<td>6.75&quot;</td>
<td>150 PSI</td>
<td>22.0&quot;</td>
<td>5.42 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
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<tr>
<td>RSD075</td>
<td>3/4&quot;</td>
<td>1.25&quot;</td>
<td>150 PSI</td>
<td>2.0&quot;</td>
<td>.32 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
</tr>
<tr>
<td>RSD100</td>
<td>1&quot;</td>
<td>1.50&quot;</td>
<td>150 PSI</td>
<td>3.0&quot;</td>
<td>.57 lbs.</td>
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<td>RSD250</td>
<td>2 1/2&quot;</td>
<td>3.12&quot;</td>
<td>150 PSI</td>
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<tr>
<td>RSD300</td>
<td>3&quot;</td>
<td>3.74&quot;</td>
<td>150 PSI</td>
<td>7.0&quot;</td>
<td>2.55 lbs.</td>
<td>29&quot;</td>
<td>100'</td>
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</table>

RSD Suction & Discharge GRAY
Versatility makes this hose our most popular choice for product transfer and CIP applications. (Meets 3-A* standards, USDA requirements and is FDA compliant). Rated for full suction and discharge use up to 150 PSI. The specially compounded tube is engineered to handle high temperatures, will not impart taste or odor and is highly resistant to common CIP solutions. A dual wire helix makes the RSD extremely flexible and easy to handle.

For quickest response, send ALL requests for quotes and purchase orders to: sales@acesanitary.com

RSD Suction & Discharge BLUE
Product Description same as RSD Gray

RSD Suction & Discharge RED
Product Description same as RSD Gray

R C T Continuous Transfer
Excellent choice for edible oils, and personal care products as well as most dairy applications. (Meets 3-A* standards, USDA requirements and is FDA compliant). Rated for full transfer use up to 150 PSI, Nitrite hose is engineered to handle high temperatures and maintain product color, taste and aroma. A dual wire helix makes the RCT extremely flexible and easy to handle.

For quickest response, send ALL requests for quotes and purchase orders to: sales@acesanitary.com

All R-series hose products meet/comply: USDA Class III requirements, FDA CFR Title 21.1772600, 3-A 18-03
*The 3-A 62-02, standard applies only to assemblies of 3/4" diameter and larger.
WARNING: Working pressure ratings for all Flex-Rite™ brand hoses are based on 70°F (ambient temperature). Working pressure and vacuum ratings will decrease as temperatures increase. For “R” series applications that exceed 200°F contact manufacturer for suggestions.
This lightweight discharge hose provides extra flexibility and smooth handling. (Meets 3-A* standards, USDA requirements and is FDA compliant). Designed to be chemically resistant to mild caustic solutions. This discharge hose is well suited for overhead CIP wash units and capable of handling pressures up to 250 PSI.

Consistent flow is maintained by this crush resistant hose whether kinked, twisted or run over. It’s designed with a monofilament helix to spring back to its original shape. (Meets 3-A* standards, USDA requirements and is FDA compliant). Excellent for high traffic areas, the RCR delivers generous flow rates for wine, beer and other sanitary liquid food stuffs. Bacteria resistant construction delivers taste and odor free flow.

RCR-C Crush Resistant - Grounded

RCR-C is designed with the same rugged construction as our standard crush resistant hose. We’ve added a layer of protection for those applications where static discharge is a concern. (Meets 3-A* standards, USDA requirements and is FDA compliant). This versatile hose has two multi-strand, copper wires to provide positive grounding and peace of mind.

RDC Discharge

This premium quality hose withstands rough handling and high temperatures and harsher chemical environments. A suction and discharge hose that will not impart taste or odor to products being transferred. (Meets 3-A* standards, USDA requirements and is FDA compliant). Typical use includes: Non-Oily, Milk, Dairy, Food and Beverage, Chemical, Pharmaceutical and CIP Applications.

RES High Temperature Suction & Discharge

The CC60 crimp with a 7.5 HP pump for 265 tons of clamping force and has the capacity to crimp up to 4” industrial hose.
STAMPED

This acronym that will assist you in specifying the correct hose and fitting.

S = Size
Identify the I.D. (inside diameter) of the hose

T = Temperature
Identify both working (product being transferred) and cleaning temperatures

A = Application
Identify how the hose assembly will be used: equipment type and environmental conditions

M = Media
Identify all fluids being transferred (product & cleaning) to choose chemically-compatible materials

P = Pressure
Identify both working & cleaning (maximum) pressures to assure proper hose selection

E = End Style
Identify the connection type and alignment needed

D = Delivery
Identify any special packaging or delivery needs for hose shipment

Cautionary Statement

All products are in the nature of commodities and they are sold by published specifications and not for particular purposes, uses or applications. Purchaser shall first determine their suitability for the intended purposes, uses or applications and shall either conduct its own engineering studies or tests, or retain qualified engineers, consultants or testing laboratories and consult with them before determining the proper use, suitability or propriety of the merchandise or products for the intended purposes, uses or applications.

Purchaser shall follow all instructions contained in sellers catalogs, brochures, technical bulleting and other documents regarding the product. Purchasers or users of the products should frequently and consistently undertake inspections and protective measures with respect to the use and application of products, which should include the examination of tube and cover, conditions of the hose or tubing and the identification, repair or replacement of sections showing cracking, blistering, separations, internal and external abrasions, leaking or slipped couplings or connections and make proper proof tests.

Limited Warranty

The merchandise or products sold or distributed by seller are warranted to its customers to be free from defects in material and workmanship at the time of shipment by us, subject to the following provisions. Unless otherwise specified, all warranty claims shall be made within 6(6) months after product ship date by seller - see packing slip for details. Seller’s liability hereunder is limited to the purchase price of any products proving defective, or at seller’s option, to the replacement of such products upon which its authorized return to seller. This warranty is in lieu of and excludes all other warranties, expressed, implied, statutory, or otherwise created under applicable law including, but not limited to, the warranty of merchantability and the warranty of fitness for a particular purpose. In no event shall seller or manufacturer of the product be liable for special, incidental, or consequential damages, including loss of profits, whether or not caused by or resulting from the negligence of seller and/or the manufacturer of the product, unless specifically provided herein. In addition, this warranty shall not apply to any products or portions thereof which have been subjected to abuse, misuse, improper installation, maintenance or operation, electrical failure or abnormal conditions, and to products which have been tampered with, altered, modified, repaired, reworked by anyone not approved by seller, or used in any manner inconsistent with the provisions of the “cautionary statement” above.

Radial Crimp

Seal-Rite™ radial crimp couplers are the purest unitized assemblies available today. Our external crimp design provides a 360° fixed seal at the coupler stem to hose junction point that eliminates the possibility of product wicking between the hose and coupler. Unlike internal expansion which can deform metal and yield die impressions, radial crimp technology will not interfere with the internal surface of the coupling stem. A full flow smooth bore transition is created after fabrication that eliminates ledges or crevices that can collect bacteria.

TwistLOC™ components become a single unit that resist separation under severe applications. Internal surface finishes of 15 Ra or better. Each coupling stem is manufactured from 316L grade stainless steel and laser etched with a material traceability number which is our commitment to quality. Seal-Rite radial crimped couplers are available for attachment on Flex-Rite™ hoses. A wide range of end styles, sizes 1/4” through 6” are available.

Detailed information on both these products can be found on page 16 and 17.

*The 3-A 62-02 standard applies only to assemblies of 3/4” diameter and larger
These actual-size drawings are provided for your convenience and ordering accuracy when specifying sanitary fittings.

- 0.984” O.D. is the same for 1/2“, 3/4“ I.D. styles
- 1.984“ O.D. is the same for 1“ and 1-1/2“ I.D. styles
- Varying O.D. for the 2“, 2-1/2“ and 3“ I.D. styles
- Mini Clamp provided as standard - True I.D. sizes available