Our trained Quality Assurance Personnel follow a rigid inspection program to ensure that our fittings meet or surpass the strictest requirements of SAE.

We design our products to the strictest requirements of SAE, and improve our designs as we solve problems or reflect the latest changes in SAE design. We can also design custom fittings to fit your needs.

Our precision instruments are calibrated at regularly scheduled intervals. Records and instrument serial numbers are kept on file to guarantee the accuracy of every inspection.

“Quality Symbol 1991
Guaranteed
P”

Only a CMM can verify that an OFS groove is manufactured to exact SAE J1453 specifications. We use a state-of-the-art CMM to measure the latest OFS “dovetail” and standard OFS groove designs.

“How can an OFS fitting leak?”
The Answer: Grooves that are too small or too large don’t apply the correct pressure on the O-ring to seal properly.

Qualilty Symbol
Quality Assurance Points

Coordinate Measuring Machine - CMM

Male O-Ring Face Seal Groove Diameters: The CMM is the only way to identify and discard out of spec OFS grooves that will not give the correct Fill & Squeeze (1) for the O-ring to seal properly.

Internal Flares like Female JIC and Female JIC Swivel: The CMM enables us to identify and discard parts that have incorrect sealing angles.

Female O-Ring Boss Counter Bore Angles: The CMM identifies and discards the angles that will not give the proper Fill & Squeeze (1) of the O-ring for a proper seal.

Optical Comparator

The QUADRA-CHEK 2000 is used to identify and discard out of spec JIC nose diameters and 37° angles.

Male JIC Nose Diameters: We discard small diameters that will distort the sealing surface and prevent a proper seal.

Male JIC 37° Angles: We reject the sealing angles that won’t seal properly.

Fixed Pitch Glastonbury Southern Gage Thread Gauges

Third-Party Calibration on a regular, computer-scheduled basis.

Long-Form Certifications for each newly purchased gauge & recalibration.

No-Go Gauges: No-Go gauges enable us to identify parts that have insufficient thread material. Insufficient threaded parts cannot reliably handle the PSI ratings set forth by SAE.

Go Gauges: Go gauges enable us to inspect and eliminate parts that would be difficult to install properly.

L1 / L2 Gauges: These gauges allow us to examine and discard male pipe threads that can bottom out and cause a spiral leak path.

6-Step Gauges: The 6-Step guage facilitates inspecting and discarding parts that have flat threads that will not seal.

Calipers: Calipers assist in inspecting & discarding incorrect male O-ring diameters that can allow an improper Fill & Squeeze (1) or percentage of rubber in the hole.

Pressure Test Stand • Rockwell Hardness Tester • Profilometer

Profilometer - Electronically Measures Surface Finish or Smoothness
Male and Female JIC Flare, Female OFS Flat-Face, Female O-Ring Boss, and 30° chamfers.

Rockwell Hardness Tester
Tests the hardness of the steel to ensure tensile strength, which is needed to keep the connection tight.

Pressure Test Stand
Verifies burst pressure ratings.

To Guarantee the Accuracy of each inspection, all gauges and equipment are regularly calibrated to the strictest of ISO 9001:2008 specifications.

Our Quality Assurance Lab gauges and tests the parts both before and after they are plated. This ensures uniformity in the plating process. Finally, our shipping department carefully packages your order, to avoid thread damage in transit.

Should a problem arise, we will put in place a Preventive Action to resolve the problem. Our Quality Manager will solve it quickly, even if that means flying out to you or your customer. We won’t just tell you to ship the parts back and try another batch.

Your Quality Connection

(1) Parker O-Ring Handbook OR05700A, Pages 3-8 & 3-9
Pressure Connections has been in business since 1981 and is a certified ISO 9001:2008 Registered firm. We are dedicated to long-term customer relationships through Our Business Philosophy, Our Vision, and Our Mission.

**Mission**
To ship every order every day with quality parts and quality packaging; right parts, on time, every time.

**Vision**
To provide our customers with the highest value from excellent service, superior quality, and a competitive price.

We Support Urban Ministry
You support responsible urban ministries with every purchase from Pressure Connections, including Urban Concern, and Youth for Christ - City Life Center. Check them out on the web at www.urbanconcern.org and www.coyfc.org.

**1-Year Warranty**
PCC warrants to the customer that the equipment and parts (excluding wear parts) will be free from defects in material and workmanship under normal use and service for a period of three hundred sixty-five (365) days after delivery to customer, or 2,000 hours of normal use. Any warranty claims not submitted in writing by customer to PCC within the applicable warranty period and within thirty (30) days of discovery of defect will be deemed waived. The obligation of PCC shall be limited to the repair or replacement ex works facility designated by PCC (excluding shipping costs, to be paid by customer), of the equipment or such parts which PCC determines were defective in material or workmanship under normal storage, use and service. This warranty applies only to new equipment and parts and expressly excludes wear parts. This warranty shall not apply to items manufactured by others attached to or incorporated in the equipment and/or parts, or to which the equipment and/or parts are attached or incorporated, and customer’s recourse for defects in such equipment and/or parts of others shall be exclusively against the manufacturer of the equipment and/or parts under the terms of the PCC’s warranty. This limited warranty does not apply to failures or defects of the equipment components, and/or parts (including wear parts) due to ordinary wear and tear, neglect (including but not limited to improper maintenance and storage), accident, improper installation or operation, or modification not authorized in writing by PCC (including but not limited to use of unauthorized parts or attachments). Any alteration or modification of the equipment or parts, or attaching of any parts or equipment not manufactured by PCC or not intended to be attached to the equipment or parts, or maintenance, use or operation of the equipment or parts contrary to PCC’s or the manufacturer’s instructions, shall at PCC’s election void this warranty. This limited warranty shall extend only to the customer and is not assignable. The exclusive remedy of customer under this warranty or otherwise in connection with the equipment and for parts, shall be repair or replacement of the equipment and/or parts in accordance with this paragraph, PCC’s sole and absolute discretion.

**Quality Assurance Department**
We will provide a Certificate of Conformance upon request. We are confident that our Quality Assurance program and personnel will be able to satisfy any quality concerns you or your customers may have.

Furthermore, we have established a Performance Team to handle written customer evaluations of our overall performance. This team is ready to respond to customer quality and service issues.

**Certified ISO 9000**
We are a certified ISO 9001:2008 Registered firm. Our Quality Assurance program is able to provide high quality fittings and service according to ISO 9000 principles. All of the documentation needed to satisfy your quality system requirements is on hand. At your request we will provide a Corrective Action Report and Evaluation. We also have Initial Sample Inspection, In-Process, and Final Inspection Reports.

We strive to provide you with the best value. Our Business Philosophy and personal convictions drive our commitment to excellence. We guarantee that you will be completely satisfied with the quality of our product(s). With an industry low PPM, our products are leak-free guaranteed and our excellent service makes us easy to do business with.
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Bite-To-Wire Technology

Coll-O-Crimp® is a registered trademark of Eaton-Weatherhead
Teflon® is a registered trademark of DuPont
User Responsibility Warning

The User is Solely Responsible for the Proper Selection and Matching Hose and Fitting Components.

Matching Hose and Fittings (Proper Selection):
Assembling a Pressure Connections Corp. (PCC) Fitting on PCC Hose that is not specifically verified by PCC to match that hose is strictly prohibited and voids your warranty. Furthermore, assembling PCC Fittings on another manufacturers hose, or assembling a PCC hose with another manufacturers fitting is strictly prohibited. Do NOT Re-Crimp Any Hose Fitting, or any part thereof (nipple, insert, stem), that has already been crimped. Even the stem-insert-nipple is greatly altered during just one crimping process.

Examine the Hose and Fittings:
The hose must be examined for cleanliness and be free of obstructions, blisters, cover looseness, kinks, cracks, cuts or any other visible defects. The fitting must be examined for burrs on the sealing surfaces, nicks, corrosion, or other imperfections. Do NOT use any component that displays any signs of nonconformance.

Proper Crimp Procedures:
Only crimp a PCC hose or fitting with an approved crimp machine and die set(s) in accordance with PCC published instructions. Conversely, do NOT crimp another manufacturers fittings with a PCC crimp machine or die(s). Also, be sure you have the latest crimp specifications before crimping the fitting.

Functional Test:
Operate the system at maximum operating pressure and check for possible malfunctions and leaks. Personnel must avoid potential hazardous areas while testing and using the system.

Conditions That Require an Immediate Shut-Down/Replacement of the Hose Assembly:
• Damaged, Cracked, Cut or Abraded Cover -Any Reinforcement Exposed
• Cracked, Damaged, or Badly Corroded Fittings
• Fitting Slippage on the Hose -Working Loose
• Any Leaks, Either in the Hose or the Fitting
• Hard, Stiff, Heat Cracked, or Charred Hose
• Kinked, Crushed, Flattened or Twisted Hose
• Blistered, Soft, Degraded, or Loose Cover

Conditions Require an Immediate Shut-Down/Repair (Tighten, Repair, Replace) of the Hose Assembly:
• System Fluid Level, Fluid Contamination, Fluid Type, Air Entrapment
• Anything That Causes Excessive Heat Buildup
• Worn Clamps, Guards, Shields, etc.
• Leaking Port Conditions
• Excess Dirt Buildup

Hose assemblies fail if they are not replaced at proper time intervals. Hose assemblies and o-ring seals used on hose fittings and adapters will eventually age, harden, wear, and deteriorate under normal thermal cycling and compression set. Hose assemblies and o-ring seals should be inspected and replaced at specific replacement intervals.

PLEASE READ:
Extreme Caution must be exercised when working with fluids under pressure as they can be dangerous and potentially lethal. These failures are the result of some form of misapplication, abuse, wear, or a failure to perform proper maintenance. High-pressure fluids inside escape in a stream which may or may not be immediately detectable. Under no circumstances should the user ever attempt to locate a leak by feeling with their hands. High-pressure fluids can and will penetrate the skin causing severe tissue damage and possibly loss of limb, or even loss of life. Even seemingly minor hydraulic fluid injection injuries must be treated immediately by a physician with knowledge of the tissue damaging properties of hydraulic fluid.
1. Provide For Length Change.
In straight hose installations, allow enough slack in the hose line to provide for changes in length that will occur when pressure is applied. This change in length can be from +2% to −4%.

2. Avoid Twisting and Orient Properly.
Do not twist hose during installation. This can be determined by the printed layline on the hose. Pressure applied to a twisted hose can cause hose failure or loosening of connections.

3. Avoid Mechanical Strain.
Use elbows and adapters in the installation to relieve strain on the assembly and to provide easier and neater installations that are accessible for inspection and maintenance.

4. Use Proper Bend Radius.
Keep the bend radius of the hose as large as possible to avoid collapsing of the hose and restriction of flow. Follow catalog specs on minimum bend radii.

5. Use Proper Bend Radius (continued).
Minimum bend radius is measured on the inside bend of the hose. To determine minimum bend, divide the total distance between ends (B length) by 2. For example, B = 6, minimum bend radius = 3.

6. Avoid Improper Hose Movement.
Make sure relative motion of the machine components produces bending rather than twisting of the hose. Hose should be routed so that the flex is in the same plane as the equipment movement.

7. Secure For Protection.
Install hose runs to avoid rubbing or abrasion. Use hose clamps to support long runs of hose or to keep hose away from moving parts. It is important that the clamps not allow the hose to move. This movement will cause abrasion and premature hose failure.

8. Protect From Hazardous Environment.
Keep hose away from hot parts. High ambient temperature will shorten hose life. If you can not route it away from the heatsource, insulate it.
Using Digital Calipers

Digital Vernier Caliper Use & Testing

The display is turned on with the on/off button. The external jaws should then be brought together until they touch and the zero button should be pressed. The vernier caliper can then be used to measure distances. Always go through this procedure when turning on the display for the first time.

Measuring External & Internal Distances

The material to be measured is placed between the external jaws and they are carefully brought together. The locking screw is tightened so that the jaws do not move apart. The digital display can then be read.

The distance can be read by in metric and imperial by pressing the inch/mm button. The jaws must be flush against the shell, between the ridges in the middle of the shell.
Hose Assembly Preparation

Fig A.

- (Fig A). **MEASURE hose** to appropriate length – mark hose with paint pen if necessary and cut.

Fig B.

- (Fig B). **CLEAN hose internally**. Pressure Connections offers a projectile hose cleaning system if you do not have one, see Page 42.

Fig C.

- (Fig C). **DETERMINE fitting insertion depth**, align the end of the hose with the middle of the bevel on the crimp shell. Mark the hose along the edge of the end of the crimp shell.

Fig D.

- (Fig D). **ASSEMBLE each fitting** onto the hose using minimal lubrication (hydraulic oil or mild dish detergent is recommended). Hose will “bottom out” into the fitting and you will feel the end of the hose hit the hose stop inside the fitting. The use of a dead blow hammer may be necessary for larger size fittings.

Fig E.

- (Fig E). **DO NOT mix and match**. Ensure that the manufacturer of the fittings match the manufacturer of the hose. Please review the **User Responsibility Warning** on Page 6.

**WARNING:**

Industrial crimpers are designed to crimp steel hose fittings and can cause personal injury or death. Please eliminate distraction and anything that can hinder your ability to focus on the crimping operation.

Use protective eyewear when using power tools for hose assembly operation (cutting, cleaning, skiving, crimping, etc.) and stay focused to what you are doing at all times. These machines should not be operated while under the influence of alcohol and/or drugs. Remove loose articles of clothing and jewelry.
**Crimp Specs**

All Fittings Are Non-Skive With a Tolerance of +/- .005" (+/- .127mm)

### 1SN - DIN EN 853 1SN

<table>
<thead>
<tr>
<th>Fitting Type</th>
<th>Crimp Type</th>
<th>Crimp Spec Diameter</th>
<th>-04 (1/4)</th>
<th>-06 (3/8)</th>
<th>-08 (1/2)</th>
<th>-10 (5/8)</th>
<th>-12 (3/4)</th>
<th>-16 (1&quot;)</th>
<th>-20 (1-1/4)</th>
<th>-24 (1-1/2)</th>
<th>-32 (2&quot;)</th>
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<tr>
<td>C2 Series</td>
<td>Flat/ * Bubble</td>
<td>in</td>
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<td>0.799</td>
<td>0.925</td>
<td>See</td>
<td>1.210</td>
<td>1.556*</td>
<td>1.980</td>
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<td></td>
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<td>R17-G</td>
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<td>23.5</td>
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<td>30.7</td>
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<td>Die Set</td>
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<td>K2 Series</td>
<td>Flat</td>
<td>in</td>
<td>See</td>
<td>0.799</td>
<td>0.925</td>
<td>See</td>
<td>1.210</td>
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<td></td>
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<td>mm</td>
<td>R17-G</td>
<td>20.3</td>
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<td>R16-2SC</td>
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* Bubble Crimp is Mandatory on all 1" (–16) size C2 series fittings, but we recommend Bubble Crimp for all sizes of the C2 Series.
All Fittings Are Non-Skive With a Tolerance of +/-.005” (+/- .127mm)

1SN-HT - 1SN High-Temperature

<table>
<thead>
<tr>
<th>Fitting Type</th>
<th>Crimp Type</th>
<th>Crimp Spec Diameter</th>
<th>-03 (3/16)</th>
<th>-04 (1/4)</th>
<th>-05 (5/16)</th>
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<td>in mm</td>
<td>Die Set</td>
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<tr>
<td>K2 Series Flat</td>
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All Fittings Are Non-Skive With a Tolerance of +/- .005” (+/- .127mm)

### 1SC-XDP - 1SC XtremeDuty Premium

<table>
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<th>Crimp Type</th>
<th>Crimp Spec Diameter</th>
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All Fittings Are Non-Skive With a Tolerance of +/-.005” (+/-.127mm)

**R17-G (and ARMOR) - WorkHorse Hose®**

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<td>mm</td>
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<td>R16-2SC</td>
<td>R16-2SC</td>
<td>R16-2SC</td>
<td>40.6</td>
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* Bubble Crimp is Mandatory on all 1” (–16) size C2 series fittings, but we recommend Bubble Crimp for all sizes of the C2 Series.
**Crimp Specs**

All Fittings Are Non-Skive With a Tolerance of +/- .005" (+/- .127mm)

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**R16-2SC (and ARMOR) - 6-IN-1 Hose®**

<table>
<thead>
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<th>Fitting Type</th>
<th>Crimp Type</th>
<th>Crimp Spec Diameter</th>
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* Bubble Crimp is Mandatory on all 1" (–16) size C2 series fittings, but we recommend Bubble Crimp for all sizes of the C2 Series.
All Fittings Are Non-Skive With a Tolerance of +/- .005" (+/- .127mm)

### 2SN-XD (and SHIELD) - 2SN XtremeDuty

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* Bubble Crimp is Mandatory on all 1" (–16) size C2 series fittings, but we recommend Bubble Crimp for all sizes of the C2 Series.
All Fittings Are Non-Skive With a Tolerance of +/- .005" (+/- .127mm)

# 2SN-LT - 2SN Low Temp

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* Bubble Crimp is Mandatory on all 1" (-16) size C2 series fittings, but we recommend Bubble Crimp for all sizes of the C2 Series.
All Fittings Are Non-Skive With a Tolerance of +/- .005" (+/- .127mm)

### 2SN - DIN EN 853 2SN

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* Bubble Crimp is Mandatory on all 1“ (-16) size C2 series fittings, but we recommend Bubble Crimp for all sizes of the C2 Series.
Crimp Specs

All Fittings Are Non-Skive With a Tolerance of +/- .005" (+/- .127mm)

**R2AT - Smooth Cover**

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* Bubble Crimp is Mandatory on all 1" (-16) size C2 series fittings, but we recommend Bubble Crimp for all sizes of the C2 Series.
All Fittings Are Non-Skive With a Tolerance of +/- .005" (+/- .127mm)

### 3K-FLEX-ARMOR - 3,000 PSI

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* Bubble Crimp is Mandatory on all 1" (–16) size C2 series fittings, but we recommend Bubble Crimp for all sizes of the C2 Series.
All Fittings Are Non-Skive With a Tolerance of +/-.005” (+/-.127mm)

**R12-XDP - R12 XtremeDuty Premium**

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Crimp Specs

All Fittings Are Non-Skive With a Tolerance of +/- .005” (+/- .127mm)

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*Pressure Connections Corp.*
All Fittings Are Non-Skive With a Tolerance of +/- .005" (+/- .127mm)

**R13TC - R13 TOPCAT**

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**R15TC - R15 TOPCAT**

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# Crimp Specs

All Fittings Are Non-Skive With a Tolerance of +/- .005” (+/- .127mm)

## 4SH-XDP - 4SH XtremeDuty Premium

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**Crimp Spec Reference**

All Fittings Are Non-Skive With a Tolerance of +/- .005” (+/- .127mm)

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### Crimp Specs

All Fittings Are Non-Skive With a Tolerance of +/-.005" (+/-.127mm)

#### 5K-FLEX-ARMOR - 5,000 PSI

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**Crimp Specs**

All Fittings Are Non-Skive With a Tolerance of +/- .005" (+/- .127mm)

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**PJH - PressureJACK Hose**

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* Bubble Crimp is Mandatory on all 1" (-16) size C2 series fittings, but we recommend Bubble Crimp for all sizes of the C2 Series.
All Fittings Are Non-Skive With a Tolerance of +/- .005" (+/- .127mm)

**PJ - PressureJET Hose (Black, Blue, Gray)**

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Crimp Specs

All Fittings Are Non-Skive With a Tolerance of +/- .005” (+/- .127mm)

**PJ-XD - PressureJET XtremeDuty**

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* Bubble Crimp is Mandatory on all 1” (-16) size C2 series fittings, but we recommend Bubble Crimp for all sizes of the C2 Series.*
All Fittings Are Non-Skive With a Tolerance of +/- .005" (+/- .127mm)

**R4-G - SAE 100R4 Suction / Return Line**

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* Bubble Crimp is Mandatory on all 1" (~16) size C2 series fittings, but we recommend Bubble Crimp for all sizes of the C2 Series.
**Crimp Specs**

All Fittings Are Non-Skive With a Tolerance of +/- .005” (+/- .127mm)

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**R14 - SAE 100R14 Teflon®**

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<td>.16 (.7/8)</td>
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<table>
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<tr>
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<td>Die Set</td>
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</tr>
<tr>
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<td>27.3</td>
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</tbody>
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* R14 Steel in the 1” Size (-16) Uses R5 Series Fittings.
### R5 - SAE 100R5

<table>
<thead>
<tr>
<th>Fitting Type</th>
<th>Crimp Type</th>
<th>Crimp Spec Diameter</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>.04 (3/16)</td>
<td>.05 (1/4)</td>
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<tr>
<td>R5 Series</td>
<td>Bubble</td>
<td>in</td>
<td>0.525</td>
</tr>
<tr>
<td></td>
<td></td>
<td>mm</td>
<td>13.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Die Set</strong></td>
<td></td>
</tr>
<tr>
<td>R5 Series</td>
<td>Flat</td>
<td>in</td>
<td>0.565</td>
</tr>
<tr>
<td></td>
<td></td>
<td>mm</td>
<td>14.4</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Die Set</strong></td>
<td></td>
</tr>
</tbody>
</table>

All Fittings Are Non-Skive With a Tolerance of +/- .005” (+/- .127mm)

### R5-HT-BLU - SAE 100R5 High Temperature

<table>
<thead>
<tr>
<th>Fitting Type</th>
<th>Crimp Type</th>
<th>Crimp Spec Diameter</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>.04 (3/16)</td>
<td>.05 (1/4)</td>
</tr>
<tr>
<td>R5 Series</td>
<td>Bubble</td>
<td>in</td>
<td>0.525</td>
</tr>
<tr>
<td></td>
<td></td>
<td>mm</td>
<td>13.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Die Set</strong></td>
<td></td>
</tr>
<tr>
<td>R5 Series</td>
<td>Flat</td>
<td>in</td>
<td>0.565</td>
</tr>
<tr>
<td></td>
<td></td>
<td>mm</td>
<td>14.4</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Die Set</strong></td>
<td></td>
</tr>
</tbody>
</table>
# Crimp Specs

All Fittings Are Non-Skive With a Tolerance of +/- .005” (+/- .127mm)

## LUB - Grease Hose

<table>
<thead>
<tr>
<th>Fitting Type</th>
<th>Crimp Type</th>
<th>Crimp Spec Diameter</th>
<th>-02 (1/8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>R7 Series</td>
<td>Bubble</td>
<td>in</td>
<td>0.368</td>
</tr>
<tr>
<td></td>
<td></td>
<td>mm</td>
<td>9.3</td>
</tr>
</tbody>
</table>

## R7 - SAE 100R7 (Black)

<table>
<thead>
<tr>
<th>Fitting Type</th>
<th>Crimp Type</th>
<th>Crimp Spec Diameter</th>
<th>-04 (1/4)</th>
<th>-06 (3/8)</th>
<th>-08 (1/2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T2 Series</td>
<td>Bubble</td>
<td>in</td>
<td>0.570</td>
<td>0.725</td>
<td>0.890</td>
</tr>
<tr>
<td></td>
<td></td>
<td>mm</td>
<td>14.5</td>
<td>18.4</td>
<td>22.6</td>
</tr>
</tbody>
</table>

## R7-NC - SAE 100R7 Non-Conductive (Orange)

<table>
<thead>
<tr>
<th>Fitting Type</th>
<th>Crimp Type</th>
<th>Crimp Spec Diameter</th>
<th>-04 (1/4)</th>
<th>-06 (3/8)</th>
<th>-08 (1/2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T2 Series</td>
<td>Bubble</td>
<td>in</td>
<td>0.570</td>
<td>0.725</td>
<td>0.890</td>
</tr>
<tr>
<td></td>
<td></td>
<td>mm</td>
<td>14.5</td>
<td>18.4</td>
<td>22.6</td>
</tr>
</tbody>
</table>
Features:
- Protects against abrasion and deterioration
- Provides limited burst, containment, and pinhole protection
- Works great for bundling hoses, cables, etc.
- Fits any application
- Meets ISO 6945 abrasion standards
- Available in multiple widths up to 5.76” nominal I.D.
- Extreme durability and flexibility
- Available in light and heavyweight versions
- MSHA flame resistance approval

Compatible with:
Gasoline, oil, mineral and vegetable oil, alcohols, dilute bases, dilute acids, benzene, acetone, ether, carbon tetrachloride, chlorine based solvent.

Properties and Specifications:
- Abrasion: Meets or exceeds ISO 6945 abrasion standard
- Flammability: MSHA approved for mine usage
- Color: Black (standard)
- Melting Point: +419°F to 430°F
- Material: Nylon 6
- Dimensional Stability: Resistant to sunlight, atmospheric agents & aging
- Toxicity: Non-toxic

A = Inside width
B = Round I.D. (A x 2 / 3.14)

Spring Guards and Bend Restrictors are also available on request
Looking to Save Money on Waste & Labor, All While Getting Top Notch Hose Assemblies?

Let Us Make Your Assemblies!
Contact your Pressure Connections Sales Rep for more details.
How To Order a Hose Assembly

Date Required

Overall Length (inches)

Hose Selection

Hose Size

Fitting #1 Type

Fitting #2 Type

Fitting 1 Size

Fitting 2 Size

Measuring the Overall Length of a Hose Assembly

Unless otherwise specified by the customer, the assembly’s overall length is measured from the extreme end of one fitting to the extreme end of the other (except for O-Ring Face Seal fittings which are measured from the sealing face). When elbow fittings are used, the measurement is taken from the centerline of the sealing surface of the elbow end. See examples below.
### Hose Assembly Order Worksheet

**Customer Information**

**Company:**

**Contact:**

**Address:**

**Phone:**

**Fax:**

**E-mail:**

**P.O. No.:**

**Term:**

---

### Size (Hose)

<table>
<thead>
<tr>
<th>In.</th>
<th>O.D.</th>
<th>Overall Length (End to End) - Centerline on Elbows</th>
<th>Tolerance</th>
</tr>
</thead>
</table>

- mm to inch = divide by 25.4 (100mm = 3.94in) (100/25.4 = 3.94)

---

### Temperature

<table>
<thead>
<tr>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
</table>

°F

<table>
<thead>
<tr>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
</table>

°F

*C to °F = (9/5 x degrees C - 32)*

---

### Application

**Type of Hose (1SN, 2SN, R4)**

**Hose Cover (Standard, Armor, Shield)**

**Color of Hose**

**Type of Use (Environment, Bend Radius)**

**Important** – The pressure rating is a main factor for selecting the hose type. Know the PSI before selecting the hose. Refer to the PCC Hose Catalog for hose information.

---

### Material / Media

**Internal Media**

**Fluid Conveyed**

**External Environment**

---

### Pressure

**Max Working Pressure**

| PSI | PSI |

**Spikes**

---

### Ends

<table>
<thead>
<tr>
<th>End Fittings (Part No.)</th>
<th>Hose End Size</th>
<th>Fitting End Size</th>
<th>Thread Callout Codes</th>
<th>Orientation Angle (if 2 elbows)</th>
<th>Special Fitting Options</th>
</tr>
</thead>
</table>

Refer to the PCC Hose Catalog for hose fitting part numbers, thread callout codes, orientation angles, etc.

---

### Delivery

- **Quantity Required:**
- **Date Required:**
- **Customer Part No.:**
- **Kit No.:**
- **Packspec:**
- **Pick Up Date:**
- **Testing Required:**
- **Certificate Required:**
- **Ship Via:**
- **Type:**

Be sure to note any other Special Requirements: hose guards, sleeves, special markings, etc.
**Crimpers**

**Hose Shop Setup & Training**
Whether you’re setting up a new crimper or revising your current work station, our team is ready to assist you in keeping your hose shop running smoothly. We are ready to provide technical assistance, demonstrations, and answer any of your questions regarding (cutting, crimping, cleaning, skiving etc.) manufacturing top quality hose assemblies.

**Automatic Crimping Technology (ACT™)**
The **CC4-50 & CC60** model production crimpers feature Automatic Crimping Technology (ACT™) are designed for the production shop where speed, accuracy, and repeatability are critical. ACT™ controllers are fully programmable with the ability to sense the crimping effort required to make accurate crimps over a long run of repeated crimps.

A wide range of die sets are available for each crimper and the ACT™ controller remembers not only the crimp settings but the die set as well. All crimpers come standard with a Quick-Change Tool for quick and easy die changes, which is even easier with the optional Crimper-Die Storage Stand.

**Crimper Rebate Program**
Customers who purchase a crimper through Pressure Connections Corp. and intend to make PCC their hose and hose product supplier are eligible for our crimper rebate program. The 4.0% rebate is based on new hose products purchased from Pressure Connections Corp. over the 18 month period following the crimp machine purchase. Up to the full amount of the crimper price will be rebated at the completion at the completion of the 18 months following the order date of the crimper purchase.

---

**D165**

Crimps up to:
- 1-⅜” 2 Wire
- 1-⅜” 4 Wire
- 1” 6 Wire
- 1 HP 110 Volt ValPower® pump
- Built in retraction stop for faster crimping
- Available fitting stop for faster repetitive crimps.
- Metric, Standard and “DC” micrometers available.
- Automatic shut off for precise, repetitive crimps.
- Complete range of dies and accessories available.

---

**D205-206**

Crimps up to:
- 1-¾” 2 Wire
- 1-¾” 4 Wire
- 2” 6 Wire (double angle die required)
- 2 HP 220V single phase ValPower® pump
- Easily removable pusher and split dies make bent tube and special fittings easy to get into the crimper.
- Work light is standard on all D205 and D206 crimpers.
- Automatic low voltage shut off assures precise crimps every time.
Crimpers

**CC30**

- **Crimps up to:**
  - 2" 2 Wire
  - 1-½" 4 Wire
  - 1-¼" 6 Wire
- 11,000 psi ValPower® pump produces maximum force in a small package
- An economy horizontal crimper with a 125mm (4.9 inch) throat opening.
- 155 Ton Crimping force available
- Large oil reservoir keeps components cool during repetitive crimping cycles

**CC38**

- **Crimps up to:**
  - 2" 2 Wire
  - 1-½" 4 Wire
  - 1-¼" 6 Wire
- 240 tons of crimping force
- 120mm (4.72 in.) throat opening
- All crimpers come standard with a quick change tool for quick and easy die changes.
- Wide range of dies sets available
- Programmable ACT™ controllers have the ability to sense the crimping “effort” make accurate crimps every time.

**CC4-50**

- **Crimps up to:**
  - 2-½" 2 Wire
  - 2-½" 4 Wire
  - 2-½" 6 Wire
- 340 tons of crimping force
- 160mm (6.3 in.) throat opening
- All crimpers come standard with a quick change tool for quick and easy die changes.
- Wide range of dies sets available
- Programmable ACT™ controllers have the ability to sense the crimping “effort” make accurate crimps every time.

**CC60**

- **Crimps up to:**
  - 2" 2 Wire
  - 2" 4 Wire
  - 2" 6 Wire
- 265 tons of crimping force
- 182mm (7.2 in.) throat opening
- All crimpers come standard with a quick change tool for quick and easy die changes.
- Wide range of dies sets available
- Programmable ACT™ controllers have the ability to sense the crimping “effort” make accurate crimps every time.
Hose Cleaning & Cutting Equipment

Ultra-Clean Hose/Tube Cleaning System

- Ideal for production hose tube shops, mobile hose fabricators and job site applications due to its simplistic design, size and portability.
- Launcher is supplied with a Full Flow Quick Release Coupling and 360° Rotary Plug for proper air flow and non-fatigue operator use.
- Safety Release Bar that locks the faceplate into a closed position for firing projectiles.
- Capable of cleaning 1/8” through 2” hose, tube or pipe.

The Ultra-Clean system offers a fast, less invasive way to clean contaminated hydraulic lines by shooting a projectile through the hose or tube assembly with a pneumatic launcher. The projectile strips out the internal contamination removing dirt, gunk, and oil.

The ergonomic design of the launcher and the supplied 360° rotary plug makes this launcher easy to handle and reduces operator fatigue without sacrificing proper air-flow. Made from machined aluminum with an anodized hard-coat finish, the launcher is designed to withstand everyday use for an extended period of time.

The Techmaflex Hose Cutting System

Increase your shop’s productivity with the high volume Techmaflex Hose Cutting System. Its powerful heavy duty design is made to handle difficult cuts and hydraulic bending. It features a large disc, brake motor, and electronic soft start.

- Production Counter
- Capacity: 3” 6SP
- 9 KW Motor
- Ø520 mm Scalloped Cutting Disc
- Max Hose OD: 125 mm
- 3000 rpm Rotational Speed
- Voltage: 400V 3PH - 230V 3PH
- Dimensions: 982 X 1041 X 1310 mm (350kg)

Ideal for job site applications due to its simplistic design, size and portability.
PRESSURE CONNECTIONS CORP. TERMS OF SALE

The following Terms of Sale ("Terms and Conditions") are a part of the sales contract ("Contract") between Pressure Connections Corp. (PCC) and Customer for the sale of Equipment and/or Parts and the provision of any ancillary services (collectively "Equipment" and/or "Parts") described on the face side of this document. The terms of this Contract are in addition to or contrary to any other agreement, written or oral, to the sale of any Equipment and/or Parts (whether or not Customer signs the acknowledgment on the face hereof) will be Customer's agreement to the Contract and these Terms and Conditions, to the exclusion of any prior, additional or different terms or conditions.

1. Prices and Terms of Payment
(a) An unconditionally confirmed statement to this effect, PCC's price quotes are subject to Customer acceptance within thirty (30) days, and may be withdrawn or canceled by PCC at any time after such date or before receipt of written notice of acceptance. Orders will be billed at prices in effect at time of shipment unless otherwise so stated in the Contract.
(b) This Contract is subject to final approval (including credit approval) and acceptance by PCC's home office. Approval is conditioned on PCC's acceptance of the terms and conditions, to the exclusion of any prior, additional or different terms or conditions.
(c) PCC prices do not include (and Customer shall pay when due) federal, state or local sales, use, excise, or other similar taxes, duties, or charges, any of which Customer shall pay to the appropriate taxing authority. PCC will not be obligated to refund any such taxes, duties, or charges.
(d) Customer shall make all payments, without any setoff or deduction, on the terms of 5% 10, Net 30 Days, interest on any delinquent balance at a rate of the lesser of 1 1/2% for each 30 day period of delinquency or the maximum rate permitted by law. Customer shall pay all attorneys fees, court costs, and all other costs incurred by PCC in collecting past due accounts, including interest on such amounts at the rate of ten percent (10%) per annum.
(e) In the event Purchaser cancels the order, all amounts previously paid by Purchaser shall be retained by Seller as liquidated damages.

2. Delivery
(f) Shipping dates are estimates only. PCC will use commercially reasonable efforts to ship by the dates specified. Customer is not liable to Customer for any delay in delivery of Equipment and/or Parts (including any resulting incidental or consequential damages). Shipping dates shall in any event be extended up to 90 days by reason of force majeure, acts of God, fires, strikes, transportation delays, delays of PCC's vendors, or any other cause beyond PCC's reasonable control. If shipment or delivery of Equipment and/or Parts is delayed by or at the request of Customer, payment will become due in full thirty (30) days from the date such Equipment and/or Parts is ready for shipment. In such event, Customer shall pay on demand storage charges and other incidental expenses incurred by PCC as a result of the delay in addition to any interest on late payment. Shipment from stock is subject to availability.

(g) Unless otherwise stated in the Contract, the Equipment and/or Parts will be delivered to Customer Ex Works PCC's designated point of shipment, and Customer shall make all arrangements (including transportation, handling, and storage) related to the transportation of the Equipment and/or Parts after delivery.
(h) Instructions for any special shipping, packing, or handling services must be given by Customer in writing at the time of placing the order. Customer will pay all costs for such services.

3. Cancellation
Customer may cancel the Contract prior to delivery only upon written approval by PCC and upon payment of the following charges unless the Contract specifies otherwise:
(a) For Equipment and/or Parts to be fabricated by PCC or its subcontractors, specialty, custom, or made to order Equipment and/or Parts, Customer shall pay to PCC on demand all direct and indirect costs (including without limitation engineering, product development, and allocable overhead and administrative costs) incurred by PCC or such subcontractor in performing under the Contract, as determined by PCC, prior to written notice of cancellation, plus profit in an amount equal to twenty percent (20%) of all such direct and indirect costs; provided that the liability of Customer shall not exceed the purchase price for the Equipment and/or Parts provided in this Contract.
(b) For stock item, PCC's loss of profit as reasonably determined by PCC.
(c) Any deposits or progress payments made by Customer on Equipment and/or Parts to be delivered by PCC and applied to such cancellation charges. Customer acknowledges that any cancellation charge imposed by Customer hereunder are not a penalty but are a reasonable approximation of the economic loss to PCC resulting from cancellation.

4. Proprietary Information
All specifications, drawings, designs, manufacturing data and all other data furnished by or belonging to PCC; and any related or ancillary Equipment and Parts, and all documents which PCC may deem necessary or desirable to perfect such security interest in any public office. Until full and irrevocable payment for the Equipment and/or Parts, Customer shall maintain replacement value insurance covering such Equipment and/or Parts against loss or damage from any cause with PCC named as insured or co-insured to the extent of the unpaid purchase price.

5. Security Interest and Insurance
As security for payment of all amounts due PCC under this Contract, Customer hereby grants to PCC a security interest in the Equipment and/or Parts and all proceeds or products thereof and replacements or substitutions therefor, and PCC shall have all the rights of a secured party under the Uniform Commercial Code in effect from time to time in the State of Ohio or any other applicable jurisdiction or any successor law or laws of like effect. Customer shall sign, and/or hereby authorizes PCC to prepare and file all financing statements and other documents in which PCC may have a security interest in the Equipment and/or Parts against loss or damage from any cause with PCC named as insured or co-insured to the extent of the unpaid purchase price.

6. Governmental Requirements; Industry Standards
PCC does not represent or warrant that the equipment and/or parts comply or will comply with any applicable laws or regulations or that it will not result in any harm to persons or property. Customer is responsible for complying with all safety, certification, and governmental requirements.

7. Limited Warranty / Exclusive Remedy
PCC warrants to the customer that the equipment and parts (excluding wear parts) will be free from defects in material and workmanship under normal use and service for a period of three hundred sixty five (365) days after delivery to customer, or 2,000 hours of normal use. Any warranty claims not submitted in writing by customer to PCC within the applicable warranty period and within thirty (30) days of discovery of defect will be deemed waived. The obligation of PCC shall be limited to the repair or replacement ex works facility designated by PCC (excluding shipping costs, to be paid by customer), of the equipment or such parts which PCC determined were defective in material or workmanship under normal storage, use and service. This warranty applies only to new equipment and parts and expressly excludes wear parts. This warranty shall not apply to items manufactured by others attached to or incorporated in the equipment and/or parts, or to which the equipment and/or parts are attached or incorporated, and customer's recourse for defects in such equipment and/or parts of others shall be exclusively against the manufacturer of the equipment and/or parts under the terms of the PCC's warranty. If this lumber does not apply to an automated or power driven equipment and/or parts (including wear parts) due to ordinary wear and tear, neglect (including but not limited to improper maintenance and storage), accident, improper installation or operation, or modification not authorized in writing by PCC (including but not limited to use of the equipment for which the equipment and/or parts were not designed), any alteration or modification of the equipment or parts, or attaching of any parts or equipment not manufactured by PCC or not intended to be attached to the equipment or parts, or maintenance, use or operation of the equipment and/or parts contrary to PCC's manufacturer's list of instructions, shall all void this warranty. This limited warranty shall extend only to the customer and is not assignable. The exclusive remedy of Customer under this warranty or otherwise in connection with the equipment and for parts, shall be repair or replacement of the equipment and/or parts in accordance with this paragraph, PCC's sole and absolute discretion.

8. Limitation of Liability
PCC's liability (and the exclusive remedy of customer) under this warranty for any alleged defect or other claim arising from the Equipment and/or Parts (including results of operation of the equipment and/or parts, and whether resulting from defects, failures, or errors in design, materials or workmanship, or otherwise) is limited as provided in paragraph 7 above. PCC shall not be liable to Customer for any direct, indirect, or consequential damages in connection with the equipment and/or parts or otherwise in connection with this Contract, including but not limited to damages resulting from delays; loss of use of property; results of interruption of service; loss of profit; or any other indirect or incidental damages, costs or damages to other property arising in connection with the equipment and/or parts.

9. Exclusion of Express / Implied Warranties
Except as provided in paragraph 7 above, PCC disclaims and all express and implied warranties in any way relating to the equipment and/or parts, including without limitation any implied warranties of merchantability or fitness for a particular purpose.

10. Dispute Resolution / Arbitration Procedure
(a) Except as provided herein, all disputes relating to this Contract or to the Equipment and/or Parts in any way ("Dispute") shall be resolved by arbitration in accordance with the Commercial Arbitration Rules of the American Arbitration Association ("AAA") and the procedures set forth below. Any Dispute entered into an award rendered by the arbitrator, arbitration may be entered in any court having jurisdiction. The parties also agree that the AAA Optional Rules for Emergency Measures of Protection shall apply to the proceedings. The arbitration shall be held in Columbus, Ohio. The arbitrator shall be selected from a list of approved arbitrators maintained by the Association of Equipment Manufacturers ("AEM") or its successor. If the AAA is unable to furnish a list of potential arbitrators, the parties agree that the arbitrator shall be selected from a list of arbitrators from or with the AEM or its successor. The parties agree that the arbitration shall be conducted on an expedited basis and the arbitrator shall grant such relief as the arbitrator deems appropriate, including, but not limited to, injunctive relief. The arbitrator shall give the parties at least five (5) days notice of the names of the persons from whom the arbitrator shall be selected. Any award shall be final and binding on the parties. An award shall include in the award the costs and attorneys' fees incurred by the prevailing party in the arbitration.
(b) Notwithstanding the above, the arbitration provisions in Paragraph 10(a) above shall not apply, at PCC's sole option (including in circumstances in which Customer has already served a demand for arbitration upon PCC, to any one or more claims or actions against PCC in connection with (i) collection of any amounts due PCC by Customer for the Equipment and/or Parts otherwise under this Contract, (ii) entry of judgment of PCC for any security interest in the Equipment and/or Parts and the proceeds thereof under this Contract or otherwise under applicable law, or (iii) exercise of PCC for any and all remedies available to it in law or in equity in connection with actions described in (i) and (ii) above, including without limitation foreclosure and repossession. Any actions described in this Paragraph 10(b) are referred to as "Excluded Actions." PCC may at PCC's option maintain any such Excluded Actions in any state or federal court in the State of Ohio described in Paragraph 12 or in any other court having jurisdiction over Customer, and the parties hereby irrevocably consent to the jurisdiction of such courts over any such Excluded Actions and agree that any such courts are a proper venue for any such Excluded Actions.

11. Entire Agreement
The Contract is the entire agreement of the parties relating to the Equipment and/or Parts and supersedes all prior oral or written discussions, correspondence or agreements (whether written or oral). The contract may not be amended nor any terms added, deleted, or changed except in writing signed by the parties and expressly stated to be an amendment. The Contract shall inure to the benefit of and be binding upon the parties and their respective successors and assigns. Any execution by PCC of a document submitted by Customer in connection with Equipment and/or Parts shall not constitute acceptance of PCC by any such additional or conflicting terms, or any modification of this Contract, but only acknowledgment of such document.

12. Governing Law; Jurisdiction
This Contract shall be interpreted in accordance with and its performance shall be governed by the laws of the State of Ohio without regard to conflict of laws principles. The parties hereby agree that the state courts located in the State of Ohio or the United States District Court for the Southern District of Ohio, Eastern Division, shall have exclusive jurisdiction over any action or suit between the parties (including any action to compel arbitration or to enforce an arbitration award) in connection with this Contract or the Equipment and/or Parts, and the parties hereby irrevocably consent to the jurisdiction of such courts in connection with such action or suit, and agree that any such courts are a proper venue for any such action or suit. Notwithstanding the above, any Excluded Actions may be maintained by PCC in any state or federal court having jurisdiction over Customer or such Excluded Actions.
What Does ISO 9000 Certified Mean?

“The Quality Assurance standard (ISO 9001:2008) lays down the requirements that a quality system should meet, but does not dictate how they should be achieved.” - Institute of Quality Assurance (IQA)

In other words, achievement will vary from one company to another. Pressure Connections has laid down the strictest requirements for us to meet and achieve the highest quality for our customers. This supports our Business Philosophy, Vision, and Mission.

(Ref. www.pressureconnections.com - See About Us)

What does ISO 9000 Require?

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Pressure Connections Standard</th>
<th>ISO 9000 Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. How Many Trained Quality Assurance Personnel are required?</td>
<td>7 Full Time</td>
<td>1 Part Time</td>
</tr>
<tr>
<td>2. How many dollars in Thread Gauges are required?</td>
<td>$300,000</td>
<td>$0</td>
</tr>
<tr>
<td>3. Is a Coordinate Measuring Machine (CMM) required?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>4. Is a Comparator required?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>5. Is a Rockwell Hardness Tester required?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>6. Is a Profilometer (Surface Finish Tester) required?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>7. Is a Pressure Test Stand required?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>8. Do O-Rings need to be installed with O-Ring Mandrels?</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

ISO 9001:2008 Audit:

“Pressure Connections is a really exceptional example of ISO 9001 at work. In regards to quality management, you guys have that one thousand and ten percent.”

James Mitchell
ISO Auditor, Quality Assurance Systems Inc

Quality Assurance Department

We will provide a Certificate of Conformance upon request. We are confident that our Quality Assurance program and personnel will be able to satisfy any quality concerns you or your customers may have. Furthermore, we have established a Performance Team to handle written customer evaluations of our overall performance. This team is ready to respond to customer quality and service issues.

Every employee strives to provide you with the best all-around value. Our Conduct Code and personal convictions drive our commitment to excellence. We guarantee that you will be completely satisfied with the quality of our product or we’ll issue a Return Goods Authorization form for a full refund. Our goal is to make it easy to do business with us.

At Pressure Connections, ISO 9000 is more than just a certificate. It is a quality system applied to our daily practices enabling us to continually improve our processes.

We are an ISO 9000 (9001:2008) registered firm. We will provide you with the documentation needed to satisfy your quality system requirements. At your request, we will provide a Corrective Action Report and Evaluation (C.A.R.E). We also have Initial Sample Inspection, In-Process and Final Inspection Reports.
Product Lines

Hose & Fittings
Steel Adapters
Brass Fittings
QD Couplings

316 Stainless
Live Swivels
Push-To-Connects & DOT Fittings
Metric & BSP

Valves
Pneumatics
GagePorts / Test Points
Custom Kits
We are a certified ISO 9001:2008 Registered firm. Our Quality Assurance program is able to provide high quality fittings and service according to ISO 9000 principles. All of the documentation needed to satisfy your quality system requirements is on hand. At your request we will provide a Corrective Action Report and Evaluation. We also have Initial Sample Inspection, In-Process, and Final Inspection Reports.

For Use in Your Hose Shop
Includes: Updated Specs, Instructions, & More