

# COUPLINGS PRODUCTS CATALOG



BUCHANAN RUBBER LTD.

# Table of Contents

## Categorized Listing

|   |   |
|---|---|
| <p><b>COUPLINGS</b> <span style="float: right;"><b>1</b></span></p> <p><b>CRIMPLOK SYSTEM</b> <span style="float: right;"><b>1</b></span></p> <p style="padding-left: 20px;">CRIMPLOK AIR COUPLINGS <span style="float: right;">1</span></p> <p style="padding-left: 40px;">CRIMPLOK CRIMP UNIVERSAL FITTINGS <span style="float: right;">1</span></p> <p><b>HIGH PRESSURE GROUND JOINT</b> <span style="float: right;"><b>1</b></span></p> <p style="padding-left: 20px;">HIGH PRESSURE FEMALE STEM <span style="float: right;">1</span></p> <p style="padding-left: 20px;">HIGH PRESSURE MALE STEM <span style="float: right;">1</span></p> <p><b>CRIMPLOK CAM AND GROOVE COUPLINGS</b> <span style="float: right;"><b>1</b></span></p> <p style="padding-left: 20px;">CRIMPLOK ALUMINUM CAM AND GROOVE COUPLINGS <span style="float: right;">1</span></p> <p style="padding-left: 20px;">CRIMPLOK STAINLESS CAM AND GROOVE COUPLINGS <span style="float: right;">1</span></p> <p style="padding-left: 20px;">CRIMPLOK ALUMINUM CRIMP QUICK LOCKING Q5 <span style="float: right;">1</span></p> <p style="padding-left: 20px;">CRIMPLOK STAINLESS CAM AND GROOVE COUPLINGS WITH Q2 HANDLES <span style="float: right;">1</span></p> <p style="padding-left: 20px;">CRIMPLOK STAINLESS CRIMP QUICK LOCKING Q5 <span style="float: right;">1</span></p> <p><b>CRIMPLOK COMBINATION NIPPLES</b> <span style="float: right;"><b>2</b></span></p> <p style="padding-left: 20px;">CRIMPLOK COMBINATION NIPPLES W REL VALVE UNPLATED <span style="float: right;">2</span></p> <p style="padding-left: 20px;">CRIMPLOK CRIMP COMBINATION NIPPLES PLATED STEEL <span style="float: right;">2</span></p> <p style="padding-left: 20px;">CRIMPLOK CRIMP COMBINATION NIPPLES STAINLESS <span style="float: right;">2</span></p> <p style="padding-left: 20px;">CRIMPLOK COMBINATION NIPPLE PLATED LONG NPT <span style="float: right;">2</span></p> <p><b>CRIMPLOK COMPOSITE CAM AND GROOVE NIPPLES AND</b> <span style="float: right;"><b>2</b></span></p> <p style="padding-left: 20px;">CRIMPLOK CRIMP COMPOSITE COMBINATION NIPPLES PLATED STEEL <span style="float: right;">2</span></p> <p style="padding-left: 20px;">CRIMPLOK CRIMP COMPOSITE COMBINATION NIPPLES STAINLESS <span style="float: right;">2</span></p> <p style="padding-left: 20px;">CRIMPLOK CRIMP COMPOSITE VICTAULIC COMBINATION NIPPLES STAINLESS <span style="float: right;">2</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR CHEMICAL COMPOSITE HOSE <span style="float: right;">2</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR PETROLEUM COMPOSITE HOSE <span style="float: right;">2</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STAINLESS 304 FOR COMPOSITE HOSE <span style="float: right;">2</span></p> <p style="padding-left: 40px;">PART C ALUMINUM FOR COMPOSITE HOSE <span style="float: right;">3</span></p> <p style="padding-left: 40px;">PART E SHANK ALUMINUM CAMLOCK FOR COMPOSITE HOSE <span style="float: right;">3</span></p> <p style="padding-left: 20px;">CRIMPLOK NITRILE GASKETS FOR COMPOSITE HOSE <span style="float: right;">3</span></p> <p style="padding-left: 20px;">CRIMPLOK VITON GASKETS FOR COMPOSITE HOSE <span style="float: right;">3</span></p> <p><b>CRIMPLOK COMBINATION NIPPLES</b> <span style="float: right;"><b>3</b></span></p> <p style="padding-left: 20px;">CRIMPLOK HD COMBINATION NIPPLE PLATED <span style="float: right;">3</span></p> <p style="padding-left: 20px;">CRIMPLOK HD COMBINATION NIPPLE UNPLATED <span style="float: right;">3</span></p> <p style="padding-left: 20px;">CRIMPLOK HD COMBINATION NIPPLE VICTAULIC PLATED <span style="float: right;">3</span></p> <p style="padding-left: 20px;">CRIMPLOK HD COMBINATION NIPPLE VICTAULIC UNPLATED <span style="float: right;">3</span></p> <p style="padding-left: 20px;">CRIMPLOK CRIMP VICTAULIC COMBINATION NIPPLES PLATED STEEL <span style="float: right;">3</span></p> <p style="padding-left: 20px;">CRIMPLOK CRIMP VICTAULIC COMBINATION NIPPLES STAINLESS <span style="float: right;">3</span></p> <p style="padding-left: 20px;">CRIMPLOK CRIMP TURNBACK COMBINATION NIPPLES STEEL <span style="float: right;">3</span></p> <p style="padding-left: 20px;">CRIMPLOK CRIMP TURNBACK COMBINATION NIPPLES STAINLESS STEEL <span style="float: right;">3</span></p> <p style="padding-left: 20px;">CRIMPLOK FIXED FLANGE NIPPLE STEEL 125 - 150# <span style="float: right;">3</span></p> <p style="padding-left: 20px;">CRIMPLOK FIXED FLANGE NIPPLE STAINLESS STEEL 125 - 150# <span style="float: right;">4</span></p> <p style="padding-left: 20px;">CRIMPLOK CRIMP SQUARE CUT COMBINATION NIPPLES UNPLATED <span style="float: right;">4</span></p> <p><b>CRIMPLOK FERRULES PLATED</b> <span style="float: right;"><b>5</b></span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR 1/2" HOSE - LD FOR UNIVERSAL <span style="float: right;">5</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR 3/4" HOSE - LD FOR UNIVERSAL <span style="float: right;">5</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR 3/4" HOSE - HD FOR UNIVERSAL <span style="float: right;">5</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR 1/2" HOSE - SHORT <span style="float: right;">6</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR 3/4" HOSE <span style="float: right;">6</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR 1" HOSE - LD FOR UNIVERSAL <span style="float: right;">6</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR 1" HOSE - HD FOR UNIVERSAL <span style="float: right;">6</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR 1" HOSE <span style="float: right;">7</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR 1-1/4" HOSE <span style="float: right;">7</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR 1-1/4" HOSE - LONG <span style="float: right;">7</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR 1-1/2" HOSE <span style="float: right;">7</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR 1-1/2" HOSE - LONG <span style="float: right;">8</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR 2" HOSE <span style="float: right;">8</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR 2" HOSE - LONG <span style="float: right;">8</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR 2-1/2" HOSE <span style="float: right;">9</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR 2-1/2" HOSE - LONG <span style="float: right;">9</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR 3" HOSE <span style="float: right;">9</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR 3" HOSE - LONG <span style="float: right;">10</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR 4" HOSE <span style="float: right;">10</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR 4" HOSE - LONG <span style="float: right;">10</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STEEL PLATED FOR 6" HOSE <span style="float: right;">11</span></p> <p><b>CRIMPLOK FERRULES STAINLESS</b> <span style="float: right;"><b>11</b></span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STAINLESS 304 FOR 1/2" HOSE <span style="float: right;">11</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STAINLESS 304 FOR 1/2" HOSE - LD FOR UNIVERSAL <span style="float: right;">11</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STAINLESS 304 FOR 3/4" HOSE <span style="float: right;">11</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STAINLESS 304 FOR 3/4" HOSE - HD FOR UNIVERSAL <span style="float: right;">12</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STAINLESS 304 FOR 3/4" HOSE - LD FOR UNIVERSAL <span style="float: right;">12</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STAINLESS 304 FOR 1" HOSE <span style="float: right;">12</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STAINLESS 304 FOR 1" HOSE - HD FOR UNIVERSAL <span style="float: right;">12</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STAINLESS 304 FOR 1" HOSE - LD FOR UNIVERSAL <span style="float: right;">13</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STAINLESS 304 FOR 1-1/4" HOSE <span style="float: right;">13</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STAINLESS 304 FOR 1-1/2" HOSE <span style="float: right;">13</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STAINLESS 304 FOR 2" HOSE <span style="float: right;">13</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STAINLESS 304 FOR 2-1/2" HOSE <span style="float: right;">14</span></p> | <p style="padding-left: 20px;">CRIMPLOK FERRULES STAINLESS 304 FOR 3" HOSE <span style="float: right;">14</span></p> <p style="padding-left: 20px;">CRIMPLOK FERRULES STAINLESS 304 FOR 4" HOSE <span style="float: right;">14</span></p> <p><b>CRIMPLOK SLEEVES ALUMINUM</b> <span style="float: right;"><b>15</b></span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES ALUMINUM FOR 2" HOSE <span style="float: right;">15</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES ALUMINUM FOR 3" HOSE <span style="float: right;">15</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES ALUMINUM FOR 4" HOSE <span style="float: right;">16</span></p> <p><b>CRIMPLOK SLEEVES PLATED</b> <span style="float: right;"><b>16</b></span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STEEL PLATED FOR 1/2" HOSE <span style="float: right;">16</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STEEL PLATED FOR 3/4" HOSE <span style="float: right;">16</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STEEL PLATED FOR 3/4" HOSE - SHORT <span style="float: right;">16</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STEEL PLATED FOR 1" HOSE <span style="float: right;">17</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STEEL PLATED FOR 1" HOSE - SHORT <span style="float: right;">17</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STEEL PLATED FOR 1 1/4" HOSE <span style="float: right;">17</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STEEL PLATED FOR 1 1/4" HOSE - SHORT <span style="float: right;">17</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STEEL PLATED FOR 1 1/2" HOSE <span style="float: right;">18</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STEEL PLATED FOR 1 1/2" HOSE - SHORT <span style="float: right;">18</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STEEL PLATED FOR 2" HOSE <span style="float: right;">18</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STEEL PLATED FOR 2" HOSE - SHORT <span style="float: right;">19</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STEEL PLATED FOR 2 1/2" HOSE <span style="float: right;">19</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STEEL PLATED FOR 2 1/2" HOSE - SHORT <span style="float: right;">19</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STEEL PLATED FOR 3" HOSE <span style="float: right;">20</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STEEL PLATED FOR 3" HOSE - SHORT <span style="float: right;">20</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STEEL PLATED FOR 4" HOSE <span style="float: right;">20</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STEEL PLATED FOR 4" HOSE - SHORT <span style="float: right;">21</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STEEL PLATED FOR 6" HOSE <span style="float: right;">21</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STEEL PLATED FOR 8" HOSE <span style="float: right;">21</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STEEL PLATED FOR 10" HOSE <span style="float: right;">22</span></p> <p><b>CRIMPLOK SLEEVES STAINLESS</b> <span style="float: right;"><b>22</b></span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STAINLESS 304 FOR 1/2" HOSE - SHORT <span style="float: right;">22</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STAINLESS 304 FOR 3/4" HOSE <span style="float: right;">22</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STAINLESS 304 FOR 3/4" HOSE - SHORT <span style="float: right;">22</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STAINLESS 304 FOR 1" HOSE <span style="float: right;">23</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STAINLESS 304 FOR 1" HOSE - SHORT <span style="float: right;">23</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STAINLESS 304 FOR 1 1/4" HOSE <span style="float: right;">23</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STAINLESS 304 FOR 1-1/4" HOSE - SHORT <span style="float: right;">23</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STAINLESS 304 FOR 1 1/2" HOSE <span style="float: right;">24</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STAINLESS 304 FOR 1-1/2" HOSE - SHORT <span style="float: right;">24</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STAINLESS 304 FOR 2" HOSE <span style="float: right;">24</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STAINLESS 304 FOR 2" HOSE - SHORT <span style="float: right;">25</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STAINLESS 304 FOR 2 1/2" HOSE <span style="float: right;">25</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STAINLESS 304 FOR 2 1/2" HOSE - SHORT <span style="float: right;">25</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STAINLESS 304 FOR 3" HOSE <span style="float: right;">26</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STAINLESS 304 FOR 3" HOSE - SHORT <span style="float: right;">26</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STAINLESS 304 FOR 4" HOSE <span style="float: right;">26</span></p> <p style="padding-left: 20px;">CRIMPLOK SLEEVES STAINLESS 304 FOR 4" HOSE - SHORT <span style="float: right;">27</span></p> |
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**CRIMPLOK SYSTEM**
**CRIMPLOK AIR COUPLINGS**
**CRIMPLOK CRIMP UNIVERSAL FITTINGS**


| Item No     | Size | Max Operating PSI 70F |
|-------------|------|-----------------------|
| FHE-075-MP  | 3/4  | 150                   |
| HE-050CF-SP | 1/2  | 150                   |
| HE-075CF-SP | 3/4  | 150                   |
| HE-075CR-SP | 3/4  | 150                   |
| HE-100CF-SP | 1    | 150                   |
| HE-100CR-SP | 1    | 150                   |
| HE-101CF-SP | 1    | 150                   |

**HIGH PRESSURE GROUND JOINT**
**HIGH PRESSURE FEMALE STEM**


| Item No      | Size  |
|--------------|-------|
| GJS-050CR-SP | 1/2   |
| GJS-075CR-SP | 3/4   |
| GJS-100CR-SP | 1     |
| GJS-125CR-DP | 1-1/4 |
| GJS-150CR-DP | 1-1/2 |
| GJS-200CR-DP | 2     |
| GJS-250CR-DP | 2-1/2 |
| GJS-300CR-DP | 3     |
| GJS-400CR-DP | 4     |

**Product Information:** For use with CRIMPLOK Long Ferrules CF-XXXXXL/S-SP

**HIGH PRESSURE MALE STEM**


| Item No      | Size  |
|--------------|-------|
| GJM-050CR-SP | 1/2   |
| GJM-075CR-SP | 3/4   |
| GJM-100CR-SP | 1     |
| GJM-125CR-DP | 1-1/4 |
| GJM-150CR-DP | 1-1/2 |
| GJM-200CR-DP | 2     |
| GJM-250CR-DP | 2-1/2 |

|              |   |
|--------------|---|
| GJM-300CR-DP | 3 |
| GJM-400CR-DP | 4 |

**Product Information:** For use with CRIMPLOK Long Ferrules CF-XXXXXL/S-SP

**CRIMPLOK CAM AND GROOVE COUPLINGS**
**CRIMPLOK ALUMINUM CAM AND GROOVE COUPLINGS**


| Item No      | Size  | Max Operating PSI 70F |
|--------------|-------|-----------------------|
| CGC-150CR-A1 | 1-1/2 | 250                   |
| CGC-200CR-A1 | 2     | 250                   |
| CGC-250CR-A1 | 2-1/2 | 150                   |
| CGC-300CR-A1 | 3     | 150                   |
| CGC-400CR-A1 | 4     | 150                   |
| CGC-600CR-A1 | 6     | 75                    |
| CGC-800CS-A1 | 8     | 50                    |
| CGE-150CR-A1 | 1-1/2 |                       |
| CGE-200CR-A1 | 2     |                       |
| CGE-250CR-A1 | 2-1/2 |                       |
| CGE-300CR-A1 | 3     |                       |
| CGE-400CR-A1 | 4     |                       |
| CGE-600CR-A1 | 6     |                       |
| CGE-800CS-A1 | 8     |                       |

**Product Information:** For use with CRIMPLOK Ferrules CF-XXXXX-SP

**CRIMPLOK STAINLESS CAM AND GROOVE COUPLINGS**


| Item No       | Size  | Max Operating PSI 70F |
|---------------|-------|-----------------------|
| CGC-100CR-SS1 | 1     | 250                   |
| CGC-150CR-SS1 | 1-1/2 | 250                   |
| CGC-200CR-SS1 | 2     | 250                   |
| CGC-250CR-SS1 | 2-1/2 | 150                   |
| CGC-300CR-SS1 | 3     | 150                   |
| CGC-400CR-SS1 | 4     | 150                   |
| CGC-600CR-SS1 | 6     | 75                    |
| CGE-100CR-SS1 | 1     |                       |
| CGE-150CR-SS1 | 1-1/2 |                       |
| CGE-200CR-SS1 | 2     |                       |
| CGE-250CR-SS1 | 2-1/2 |                       |

|               |   |
|---------------|---|
| CGE-300CR-SS1 | 3 |
| CGE-400CR-SS1 | 4 |

**Product Information:** For use with CRIMPLOK Ferrules CF-XXXXX-SS304

**CRIMPLOK ALUMINUM CRIMP QUICK LOCKING Q5**


| Item No         | Size  | Max Operating PSI 70F |
|-----------------|-------|-----------------------|
| CGCHK5-150CR-A1 | 1-1/2 | 250                   |
| CGCHK5-200CR-A1 | 2     | 250                   |
| CGCHK5-300CR-A1 | 3     | 150                   |
| CGCHK5-400CR-A1 | 4     | 150                   |

**Product Information:** For use with CRIMPLOK Ferrules CF-XXXXX-SP

**CRIMPLOK STAINLESS CAM AND GROOVE COUPLINGS WITH Q2 HANDLES**


| Item No       | Size | Max Operating PSI 70F |
|---------------|------|-----------------------|
| CGCK-200CR-SS | 2    | 250                   |
| CGCK-300CR-SS | 3    | 150                   |
| CGCK-400CR-SS | 4    | 150                   |

**Product Information:** For use with CRIMPLOK Ferrules CF-XXXXX-SS304

**CRIMPLOK STAINLESS CRIMP QUICK LOCKING Q5**


| Item No          | Size  | Max Operating PSI 70F |
|------------------|-------|-----------------------|
| CGCHK5-150CR-SS1 | 1-1/2 | 250                   |
| CGCHK5-200CR-SS1 | 2     | 250                   |
| CGCHK5-300CR-SS1 | 3     | 150                   |
| CGCHK5-400CR-SS1 | 4     | 150                   |

**Product Information:** For use with CRIMPLOK Ferrules CF-XXXXX-SS304

**CRIMPLOK SYSTEM**

**CRIMPLOK CAM AND GROOVE COUPLINGS**

**CRIMPLOK COMBINATION NIPPLES**

**CRIMPLOK COMBINATION NIPPLES W REL VALVE UNPLATED**



| Item No       | Size |
|---------------|------|
| CNTPR-300CR-S | 3    |
| CNTPR-400CR-S | 4    |

**Product Information:** For use with CRIMPLOK Ferrules CF-XXXXX-SP

**CRIMPLOK CRIMP COMBINATION NIPPLES PLATED STEEL**



| Item No      | Size  |
|--------------|-------|
| CNT-100CR-SP | 1     |
| CNT-125CR-SP | 1-1/4 |
| CNT-150CR-SP | 1-1/2 |
| CNT-200CR-SP | 2     |
| CNT-350CR-SP | 2-1/2 |
| CNT-300CR-SP | 3     |
| CNT-400CR-SP | 4     |
| CNT-600CR-SP | 6     |

**Product Information:** For use with CRIMPLOK Ferrules CF-XXXXX-SP

**CRIMPLOK CRIMP COMBINATION NIPPLES STAINLESS**



| Item No         | Size  |
|-----------------|-------|
| CNT-100CR-SS316 | 1     |
| CNT-125CR-SS316 | 1-1/4 |
| CNT-150CR-SS316 | 1-1/2 |
| CNT-200CR-SS316 | 2     |
| CNT-250CR-SS316 | 2-1/2 |
| CNT-300CR-SS316 | 3     |
| CNT-400CR-SS316 | 4     |
| CNT-600CR-SS316 | 6     |

**Product Information:** For use with CRIMPLOK Ferrules CF-XXXXX-SS304

**CRIMPLOK COMBINATION NIPPLE PLATED LONG NPT**



| Item No      | Size  |
|--------------|-------|
| CNL-150CR-SP | 1-1/2 |
| CNL-200CR-SP | 2     |
| CNL-250CR-SP | 2-1/2 |
| CNL-300CR-SP | 3     |
| CNL-400CR-SP | 4     |

**Product Information:** For use with CRIMPLOK Long Ferrules CF-XXXXXL-SP

**CRIMPLOK COMPOSITE CAM AND GROOVE NIPPLES AND FERRULES**

**CRIMPLOK CRIMP COMPOSITE COMBINATION NIPPLES PLATED STEEL**



| Item No       | Size |
|---------------|------|
| SLINKN-100-SP | 1    |
| SLINKN-200-SP | 2    |
| SLINKN-300-SP | 3    |
| SLINKN-400-SP | 4    |
| SLINKN-600-SP | 6    |
| SLINKN-800-SP | 8    |

**Product Information:** For use with CRIMPLOK Ferrules (SLINKF-XXX-SP)

**CRIMPLOK CRIMP COMPOSITE COMBINATION NIPPLES STAINLESS**



| Item No          | Size |
|------------------|------|
| SLINKN-100-SS304 | 1    |
| SLINKN-200-SS304 | 2    |
| SLINKN-300-SS304 | 3    |
| SLINKN-400-SS304 | 4    |
| SLINKN-600-SS304 | 6    |
| SLINKN-800-SS304 | 8    |

**Product Information:** For use with CRIMPLOK Ferrules (SLINKF-XXX-S304)

**CRIMPLOK CRIMP COMPOSITE VICTAULIC COMBINATION NIPPLES STAINLESS**

| Item No          | Size |
|------------------|------|
| SLINKV-200-SS316 | 2    |
| SLINKV-300-SS304 | 3    |
| SLINKV-300-SS316 | 3    |
| SLINKV-400-SS316 | 4    |

**Product Information:** For use with CRIMPLOK Ferrules (SLINKF-XXX-S304)

**CRIMPLOK FERRULES STEEL PLATED FOR CHEMICAL COMPOSITE HOSE**



**Product Information:** For use with CRIMPLOK nipples (SLINKN-XXX-SP)

**CRIMPLOK FERRULES STEEL PLATED FOR PETROLEUM COMPOSITE HOSE**



| Item No       | Size |
|---------------|------|
| SLINKF-100-SP | 1    |
| SLINKF-200-SP | 2    |
| SLINKF-300-SP | 3    |
| SLINKF-400-SP | 4    |
| SLINKF-600-SP | 6    |
| SLINKF-800-SP | 8    |

**Product Information:** For use with CRIMPLOK nipples (SLINKN-XXX-SP)

**CRIMPLOK FERRULES STAINLESS 304 FOR COMPOSITE HOSE**



| Item No          | Size |
|------------------|------|
| SLINKF-200-SS304 | 2    |
| SLINKF-300-SS304 | 3    |
| SLINKF-400-SS304 | 4    |
| SLINKF-600-SS304 | 6    |
| SLINKF-800-SS304 | 8    |

**CRIMPLOK SYSTEM**
**CRIMPLOK COMPOSITE CAM AND GROOVE NIPPLES AND FERRULES  
CRIMPLOK FERRULES STAINLESS 304 FOR COMPOSITE HOSE**

**Product Information:** For use with CRIMPLOK nipples (SLINKN-XXX-SS304)

**PART C ALUMINUM FOR COMPOSITE HOSE**

| Item No     | Size  | Max Operating PSI 70F |
|-------------|-------|-----------------------|
| CGCC-150-A1 | 1-1/2 | 250                   |
| CGCC-200-A1 | 2     | 250                   |
| CGCC-250-A1 | 2-1/2 | 150                   |
| CGCC-300-A1 | 3     | 150                   |
| CGCC-400-A1 | 4     | 150                   |

**PART E SHANK ALUMINUM CAMLOCK FOR COMPOSITE HOSE**

| Item No     | Size  |
|-------------|-------|
| CGEC-150-A1 | 1-1/2 |
| CGEC-200-A1 | 2     |
| CGEC-250-A1 | 2-1/2 |
| CGEC-300-A1 | 3     |
| CGEC-400-A1 | 4     |

**CRIMPLOK NITRILE GASKETS FOR COMPOSITE HOSE**

| Item No        | Size |
|----------------|------|
| SLINKG-100-NBR | 1    |
| SLINKG-200-NBR | 2    |
| SLINKG-300-NBR | 3    |
| SLINKG-400-NBR | 4    |
| SLINKG-600-NBR | 6    |
| SLINKG-800-NBR | 8    |

**Product Information:** For use with CRIMPLOK nipples (SLINKN-XXX-SP/SS304) and Ferrules (SLINKF-XXX-SP/SS304)

**CRIMPLOK VITON GASKETS FOR COMPOSITE HOSE**

| Item No       | Size |
|---------------|------|
| SLINKG-100-VI | 1    |
| SLINKG-200-VI | 2    |
| SLINKG-300-VI | 3    |
| SLINKG-400-VI | 4    |
| SLINKG-600-VI | 6    |
| SLINKG-800-VI | 8    |

**Product Information:** For use with CRIMPLOK nipples (SLINKN-XXX-SP/SS304) and Ferrules (SLINKF-XXX-SP/SS304)

**CRIMPLOK COMBINATION NIPPLES**
**CRIMPLOK HD COMBINATION NIPPLE PLATED**


| Item No      | Size |
|--------------|------|
| CNT-400CS-SP | 4    |
| CNT-600CS-SP | 6    |
| CNT-800CS-SP | 8    |

**Product Information:** For use with CRIMPLOK Sleeves CSL-XXXXX-SP

**CRIMPLOK HD COMBINATION NIPPLE UNPLATED**


| Item No     | Size |
|-------------|------|
| CNT-400CS-S | 4    |
| CNT-600CS-S | 6    |
| CNT-800CS-S | 8    |

**Product Information:** For use with CRIMPLOK Sleeves CSL-XXXXX-SP

**CRIMPLOK HD COMBINATION NIPPLE VICTAULIC PLATED**


| Item No      | Size |
|--------------|------|
| CNG-400CS-SP | 4    |
| CNG-600CS-SP | 6    |
| CNG-800CS-SP | 8    |

**Product Information:** For use with CRIMPLOK Sleeves CSL-XXXXX-SP

**CRIMPLOK HD COMBINATION NIPPLE VICTAULIC UNPLATED**


| Item No     | Size |
|-------------|------|
| CNG-400CS-S | 4    |
| CNG-600CS-S | 6    |
| CNG-800CS-S | 8    |

**Product Information:** For use with CRIMPLOK Sleeves CSL-XXXXX-SP

**CRIMPLOK CRIMP VICTAULIC COMBINATION NIPPLES PLATED STEEL**

| Item No      | Size |
|--------------|------|
| CNG-200CR-SP | 2    |

|              |   |
|--------------|---|
| CNG-300CR-SP | 3 |
| CNG-400CR-SP | 4 |
| CNG-600CR-SP | 6 |

**Product Information:** For use with CRIMPLOK Ferrules CF-XXXXX-SP

**CRIMPLOK CRIMP VICTAULIC COMBINATION NIPPLES STAINLESS**

| Item No         | Size  |
|-----------------|-------|
| CNG-200CR-SS316 | 2     |
| CNG-250CR-SS316 | 2-1/2 |
| CNG-300CR-SS316 | 3     |
| CNG-400CR-SS316 | 4     |

**Product Information:** For use with CRIMPLOK Ferrules CF-XXXXX-SP

**CRIMPLOK CRIMP TURNBACK COMBINATION NIPPLES STEEL**

| Item No      | Size |
|--------------|------|
| CNTB-200CR-S | 2    |
| CNTB-300CR-S | 3    |
| CNTB-400CR-S | 4    |
| CNTB-600CR-S | 6    |

**Product Information:** For use with CRIMPLOK Ferrules CF-XXXXX-SP

**CRIMPLOK CRIMP TURNBACK COMBINATION NIPPLES STAINLESS STEEL**

| Item No          | Size |
|------------------|------|
| CNTB-200CR-SS316 | 2    |
| CNTB-300CR-SS316 | 3    |
| CNTB-400CR-SS316 | 4    |
| CNTB-600CR-SS316 | 6    |

**Product Information:** For use with CRIMPLOK Ferrules CF-XXXXX-SP

**CRIMPLOK FIXED FLANGE NIPPLE STEEL 125 - 150#**


| Item No      | Size |
|--------------|------|
| CNFL-200CR-S | 2    |
| CNFL-300CR-S | 3    |
| CNFL-400CR-S | 4    |
| CNFL-600CR-S | 6    |

**Product Information:** For use with CRIMPLOK Ferrules CF-XXXXX-SP



**CRIMPLOK SYSTEM**

**CRIMPLOK COMBINATION NIPPLES**

**CRIMPLOK FIXED FLANGE NIPPLE  
STAINLESS STEEL 125 - 150#**



| <b>Item No</b>   | <b>Size</b> |
|------------------|-------------|
| CNFL-200CR-SS316 | 2           |
| CNFL-300CR-SS316 | 3           |
| CNFL-400CR-SS316 | 4           |
| CNFL-600CR-SS316 | 6           |

**Product Information:** For use with CRIMPLOK Ferrules CF-XXXXX-SP

**CRIMPLOK CRIMP SQUARE CUT  
COMBINATION NIPPLES UNPLATED**

| <b>Item No</b> | <b>Size</b> |
|----------------|-------------|
| CNSC-300CR-SP  | 3           |
| CNSC-400CR-SP  | 4           |

**Product Information:** For use with CRIMPLOK Ferrules CF-XXXXX-SP

**CRIMPLOK SYSTEM**

**CRIMPLOK FERRULES STEEL PLATED FOR 1/2" HOSE - LD FOR UNIVERSAL**


| Item No       | Size | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|---------------|------|---------------|-------------|-----------------|-----------------|
| CFT-05029T-SP | 1/2  | FLPS050058    | 0.9063"     | 2.14"           | 0.04            |
| CFT-05030T-SP | 1/2  | FLPS050060    | 0.9375"     | 2.14"           | 0.04            |

**Product Information:** For use with CRIMPLOK Universal Crimp fittings (HE-XXXCR-SP). Ferrule thickness is .040"

**CRIMPLOK FERRULES STEEL PLATED FOR 3/4" HOSE - LD FOR UNIVERSAL**


| Item No       | Size | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|---------------|------|---------------|-------------|-----------------|-----------------|
| CFT-08104T-SP | 3/4  | FLPS075108    | 1.1250"     | 2.14"           | 0.04            |
| CFT-08105T-SP | 3/4  | FLPS075110    | 1.1562"     | 2.14"           | 0.04            |
| CFT-08106T-SP | 3/4  | FLPS075112    | 1.1875"     | 2.14"           | 0.04            |
| CFT-08107T-SP | 3/4  | FLPS075114    | 1.2188"     | 2.14"           | 0.04            |
| CFT-08108T-SP | 3/4  | FLPS075116    | 1.2500"     | 2.14"           | 0.04            |
| CFT-08109T-SP | 3/4  | FLPS075118    | 1.2812"     | 2.14"           | 0.04            |

**Product Information:** For use with CRIMPLOK Universal Crimp fittings (HE-XXXCR-SP). Ferrule thickness is .040"

**CRIMPLOK FERRULES STEEL PLATED FOR 3/4" HOSE - HD FOR UNIVERSAL**


| Item No        | Size | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|----------------|------|-------------|-----------------|-----------------|
| CFT-08104HD-SP | 3/4  | 1.1250"     | 2.14"           | 0.06            |
| CFT-08105HD-SP | 3/4  | 1.1562"     | 2.14"           | 0.06            |
| CFT-08106HD-SP | 3/4  | 1.1875"     | 2.14"           | 0.06            |
| CFT-08107HD-SP | 3/4  | 1.2188"     | 2.14"           | 0.06            |
| CFT-08108HD-SP | 3/4  | 1.2500"     | 2.14"           | 0.06            |
| CFT-08109HD-SP | 3/4  | 1.2812"     | 2.14"           | 0.06            |

**Product Information:** For use with CRIMPLOK Universal Crimp fittings (HE-XXXCR-SP). Ferrule thickness is .060"

**CRIMPLOK SYSTEM**

**CRIMPLOK FERRULES PLATED**
**CRIMPLOK FERRULES STEEL PLATED FOR 1/2" HOSE - SHORT**

| Item No      | Size | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|--------------|------|---------------|-------------|-----------------|-----------------|
| CF-05100S-SP | 1/2  | FPS050100S    | 1.0000"     | 1.41"           | 0.06            |
| CF-05101S-SP | 1/2  | FPS050104S    | 1.0625"     | 1.41"           | 0.06            |
| CF-05102S-SP | 1/2  | FPS050108S    | 1.1250"     | 1.41"           | 0.06            |

**Product Information:** For use with CRIMPLOK crimp ground joints (GJM/GJS-XXXCR-SP). I.D Tolerance = +/-0.012

**CRIMPLOK FERRULES STEEL PLATED FOR 3/4" HOSE**

| Item No     | Size | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|-------------|------|---------------|-------------|-----------------|-----------------|
| CF-08104-SP | 3/4  | FPS075116     | 1.2500"     | 2.14"           | 0.06            |
| CF-08105-SP | 3/4  | FPS075120     | 1.3125"     | 2.14"           | 0.06            |
| CF-08106-SP | 3/4  | FPS075124     | 1.3750"     | 2.14"           | 0.06            |
| CF-08107-SP | 3/4  | FPS075128     | 1.4375"     | 2.14"           | 0.06            |
| CF-08108-SP | 3/4  | FPS075132     | 1.5000"     | 2.14"           | 0.06            |

**Product Information:** For use with CRIMPLOK crimp ground joints (GJM/GJS-XXXCR-SP). I.D Tolerance = +/-0.012

**CRIMPLOK FERRULES STEEL PLATED FOR 1" HOSE - LD FOR UNIVERSAL**


| Item No       | Size | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|---------------|------|---------------|-------------|-----------------|-----------------|
| CFT-10114T-SP | 1    | FLPS100128    | 1.4375"     | 2.29"           | 0.04            |
| CFT-10115T-SP | 1    | FLPS100130    | 1.4687"     | 2.29"           | 0.04            |
| CFT-10116T-SP | 1    | FLPS100132    | 1.5000"     | 2.29"           | 0.04            |
| CFT-10117T-SP | 1    | FLPS100134    | 1.5312"     | 2.29"           | 0.04            |
| CFT-10118T-SP | 1    | FLPS100136    | 1.5625"     | 2.29"           | 0.04            |

**Product Information:** For use with CRIMPLOK Universal Crimp fittings (HE-XXXCR-SP). Ferrule thickness is .040"

**CRIMPLOK FERRULES STEEL PLATED FOR 1" HOSE - HD FOR UNIVERSAL**


| Item No        | Size | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|----------------|------|-------------|-----------------|-----------------|
| CFT-10114HD-SP | 1    | 1.4375"     | 2.29"           | 0.06            |
| CFT-10115HD-SP | 1    | 1.4687"     | 2.29"           | 0.06            |
| CFT-10116HD-SP | 1    | 1.5000"     | 2.29"           | 0.06            |
| CFT-10117HD-SP | 1    | 1.5312"     | 2.29"           | 0.06            |
| CFT-10118HD-SP | 1    | 1.5625"     | 2.29"           | 0.06            |

**Product Information:** For use with CRIMPLOK Universal Crimp fittings (HE-XXXCR-SP). Ferrule thickness is .060"



**CRIMPLOK SYSTEM**

**CRIMPLOK FERRULES PLATED**
**CRIMPLOK FERRULES STEEL PLATED FOR 1" HOSE**

| Item No     | Size | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|-------------|------|---------------|-------------|-----------------|-----------------|
| CF-10108-SP | 1    | FPS100132     | 1.5000"     | 2.29"           | 0.06            |
| CF-10109-SP | 1    | FPS100136     | 1.5625"     | 2.29"           | 0.06            |
| CF-10110-SP | 1    | FPS100140     | 1.6250"     | 2.29"           | 0.06            |
| CF-10111-SP | 1    | FPS100144     | 1.6875"     | 2.29"           | 0.06            |
| CF-10112-SP | 1    | FPS100148     | 1.7500"     | 2.29"           | 0.06            |
| CF-10113-SP | 1    | FPS100152     | 1.8125"     | 2.29"           | 0.06            |

**Product Information:** For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP). I.D Tolerance = +/-0.012"

**CRIMPLOK FERRULES STEEL PLATED FOR 1-1/4" HOSE**

| Item No     | Size  | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|-------------|-------|---------------|-------------|-----------------|-----------------|
| CF-13113-SP | 1-1/4 | FPS125152     | 1.8125"     | 2.32"           | 0.06            |
| CF-13114-SP | 1-1/4 | FPS125156     | 1.8750"     | 2.32"           | 0.06            |
| CF-13115-SP | 1-1/4 | FPS125160     | 1.9375"     | 2.32"           | 0.06            |

**Product Information:** For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP). I.D Tolerance = +/-0.012"

**CRIMPLOK FERRULES STEEL PLATED FOR 1-1/4" HOSE - LONG**

| Item No      | Size  | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|--------------|-------|---------------|-------------|-----------------|-----------------|
| CF-13113L-SP | 1-1/4 | FPS125152L    | 1.8125"     | 2.74"           | 0.06            |
| CF-13114L-SP | 1-1/4 | FPS125156L    | 1.8750"     | 2.74"           | 0.06            |
| CF-13115L-SP | 1-1/4 | FPS125160L    | 1.9375"     | 2.74"           | 0.06            |

**Product Information:** For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP). I.D Tolerance = +/-0.012"

**CRIMPLOK FERRULES STEEL PLATED FOR 1-1/2" HOSE**

| Item No     | Size  | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|-------------|-------|---------------|-------------|-----------------|-----------------|
| CF-15115-SP | 1-1/2 | FPS150160     | 1.9375"     | 2.36"           | 0.06            |
| CF-15200-SP | 1-1/2 | FPS150200     | 2.0000"     | 2.36"           | 0.06            |
| CF-15201-SP | 1-1/2 | FPS150204     | 2.0625"     | 2.36"           | 0.06            |
| CF-15202-SP | 1-1/2 | FPS150208     | 2.1250"     | 2.36"           | 0.06            |
| CF-15203-SP | 1-1/2 | FPS150212     | 2.1875"     | 2.36"           | 0.06            |
| CF-15204-SP | 1-1/2 | FPS150216     | 2.2500"     | 2.36"           | 0.06            |
| CF-15205-SP | 1-1/2 | FPS150220     | 2.3125"     | 2.36"           | 0.06            |
| CF-15206-SP | 1-1/2 | FPS150224     | 2.3750"     | 2.36"           | 0.06            |

**Product Information:** For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP). I.D Tolerance = +/-0.012"

**CRIMPLOK SYSTEM**

**CRIMPLOK FERRULES STEEL PLATED FOR 1-1/2" HOSE - LONG**

| Item No      | Size  | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|--------------|-------|---------------|-------------|-----------------|-----------------|
| CF-15115L-SP | 1-1/2 | FPS150160L    | 1.9375"     | 2.91"           | 0.06            |
| CF-15200L-SP | 1-1/2 | FPS150200L    | 2.0000"     | 2.91"           | 0.06            |
| CF-15201L-SP | 1-1/2 | FPS150204L    | 2.0625"     | 2.91"           | 0.06            |
| CF-15202L-SP | 1-1/2 | FPS150208L    | 2.1250"     | 2.91"           | 0.06            |
| CF-15203L-SP | 1-1/2 | FPS150212L    | 2.1875"     | 2.91"           | 0.06            |
| CF-15204L-SP | 1-1/2 | FPS150216L    | 2.2500"     | 2.91"           | 0.06            |
| CF-15205L-SP | 1-1/2 | FPS150220L    | 2.3125"     | 2.91"           | 0.06            |
| CF-15206L-SP | 1-1/2 | FPS150224L    | 2.3750"     | 2.91"           | 0.06            |

**Product Information:** For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP). I.D Tolerance = +/-0.012"

**CRIMPLOK FERRULES STEEL PLATED FOR 2" HOSE**

| Item No     | Size | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|-------------|------|---------------|-------------|-----------------|-----------------|
| CF-20208-SP | 2    | FPS200232     | 2.5000"     | 2.79"           | 0.06            |
| CF-20209-SP | 2    | FPS200236     | 2.5625"     | 2.79"           | 0.06            |
| CF-20210-SP | 2    | FPS200240     | 2.6250"     | 2.79"           | 0.06            |
| CF-20211-SP | 2    | FPS200244     | 2.6875"     | 2.79"           | 0.06            |
| CF-20212-SP | 2    | FPS200248     | 2.7500"     | 2.79"           | 0.06            |
| CF-20213-SP | 2    | FPS200252     | 2.8125"     | 2.79"           | 0.06            |
| CF-20214-SP | 2    | FPS200256     | 2.8750"     | 2.79"           | 0.06            |
| CF-20215-SP | 2    | FPS200260     | 2.9375"     | 2.79"           | 0.06            |

**Product Information:** For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP). I.D Tolerance = +/-0.012"

**CRIMPLOK FERRULES STEEL PLATED FOR 2" HOSE - LONG**

| Item No      | Size | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|--------------|------|---------------|-------------|-----------------|-----------------|
| CF-20215L-SP | 2    | FPS200260L    | 2.9375"     | 3.41"           | 0.06            |
| CF-20208L-SP | 2    | FPS200232L    | 2.5000"     | 3.41"           | 0.06            |
| CF-20209L-SP | 2    | FPS200236L    | 2.5625"     | 3.41"           | 0.06            |
| CF-20210L-SP | 2    | FPS200240L    | 2.6250"     | 3.41"           | 0.06            |
| CF-20211L-SP | 2    | FPS200244L    | 2.6875"     | 3.41"           | 0.06            |
| CF-20212L-SP | 2    | FPS200248L    | 2.7500"     | 3.41"           | 0.06            |
| CF-20213L-SP | 2    | FPS200252L    | 2.8125"     | 3.41"           | 0.06            |
| CF-20214L-SP | 2    | FPS200256L    | 2.8750"     | 3.41"           | 0.06            |

**Product Information:** For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP). I.D Tolerance = +/-0.012"

**CRIMPLOK SYSTEM**

**CRIMPLOK FERRULES PLATED**
**CRIMPLOK FERRULES STEEL PLATED FOR 2-1/2" HOSE**

| Item No     | Size  | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|-------------|-------|---------------|-------------|-----------------|-----------------|
| CF-25302-SP | 2-1/2 | FPS250308     | 3.1250"     | 3.11"           | 0.06            |
| CF-25303-SP | 2-1/2 | FPS250312     | 3.1875"     | 3.11"           | 0.06            |
| CF-25304-SP | 2-1/2 | FPS250316     | 3.2500"     | 3.11"           | 0.06            |
| CF-25305-SP | 2-1/2 | FPS250320     | 3.3125"     | 3.11"           | 0.06            |
| CF-25307-SP | 2-1/2 | FPS250328     | 3.4375"     | 3.11"           | 0.06            |

**Product Information:** For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP). I.D Tolerance = +/-0.012"

**CRIMPLOK FERRULES STEEL PLATED FOR 2-1/2" HOSE - LONG**

| Item No      | Size  | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|--------------|-------|---------------|-------------|-----------------|-----------------|
| CF-25302L-SP | 2-1/2 | FPS250308L    | 3.1250"     | 3.88"           | 0.06            |
| CF-25303L-SP | 2-1/2 | FPS250312L    | 3.1875"     | 3.88"           | 0.06            |
| CF-25304L-SP | 2-1/2 | FPS250316L    | 3.2500"     | 3.88"           | 0.06            |
| CF-25305L-SP | 2-1/2 | FPS250320L    | 3.3125"     | 3.88"           | 0.06            |
| CF-25307L-SP | 2-1/2 | FPS250328L    | 3.4375"     | 3.88"           | 0.06            |

**Product Information:** For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP). I.D Tolerance = +/-0.012"

**CRIMPLOK FERRULES STEEL PLATED FOR 3" HOSE**

| Item No     | Size | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|-------------|------|---------------|-------------|-----------------|-----------------|
| CF-30309-SP | 3    | FPS300336     | 3.5625"     | 3.94"           | 0.09            |
| CF-30310-SP | 3    | FPS300340     | 3.6250"     | 3.94"           | 0.09            |
| CF-30311-SP | 3    | FPS300344     | 3.6875"     | 3.94"           | 0.09            |
| CF-30312-SP | 3    | FPS300348     | 3.7500"     | 3.94"           | 0.09            |
| CF-30313-SP | 3    | FPS300352     | 3.8125"     | 3.94"           | 0.09            |
| CF-30314-SP | 3    | FPS300356     | 3.8750"     | 3.94"           | 0.09            |
| CF-30315-SP | 3    | FPS300360     | 3.9375"     | 3.94"           | 0.09            |
| CF-30400-SP | 3    | FPS300400     | 4.0000"     | 3.94"           | 0.09            |

**Product Information:** For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP). I.D Tolerance = +/-0.012"

**CRIMPLOK SYSTEM**

**CRIMPLOK FERRULES PLATED**
**CRIMPLOK FERRULES STEEL PLATED FOR 3" HOSE - LONG**

| Item No      | Size | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|--------------|------|---------------|-------------|-----------------|-----------------|
| CF-30309L-SP | 3    | FPS300336L    | 3.5625"     | 4.36"           | 0.09            |
| CF-30310L-SP | 3    | FPS300340L    | 3.6250"     | 4.36"           | 0.09            |
| CF-30311L-SP | 3    | FPS300344L    | 3.6875"     | 4.36"           | 0.09            |
| CF-30312L-SP | 3    | FPS300348L    | 3.7500"     | 4.36"           | 0.09            |
| CF-30313L-SP | 3    | FPS300352L    | 3.8125"     | 4.36"           | 0.09            |
| CF-30314L-SP | 3    | FPS300356L    | 3.8750"     | 4.36"           | 0.09            |
| CF-30315L-SP | 3    | FPS300360L    | 3.9375"     | 4.36"           | 0.09            |
| CF-30400L-SP | 3    | FPS300400L    | 4.0000"     | 4.36"           | 0.09            |

**Product Information:** For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP). I.D Tolerance = +/-0.012"

**CRIMPLOK FERRULES STEEL PLATED FOR 4" HOSE**

| Item No     | Size | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|-------------|------|---------------|-------------|-----------------|-----------------|
| CF-40409-SP | 4    | FPS400436     | 4.5625"     | 4.19"           | 0.09            |
| CF-40410-SP | 4    | FPS400440     | 4.6250"     | 4.19"           | 0.09            |
| CF-40411-SP | 4    | FPS400444     | 4.6875"     | 4.19"           | 0.09            |
| CF-40412-SP | 4    | FPS400448     | 4.7500"     | 4.19"           | 0.09            |
| CF-40413-SP | 4    | FPS400452     | 4.8125"     | 4.19"           | 0.09            |
| CF-40414-SP | 4    | FPS400456     | 4.8750"     | 4.19"           | 0.09            |
| CF-40415-SP | 4    | FPS400460     | 4.9375"     | 4.19"           | 0.09            |
| CF-40500-SP | 4    | FPS400500     | 5.0000"     | 4.19"           | 0.09            |
| CF-40501-SP | 4    | FPS400504     | 5.0625"     | 4.19"           | 0.09            |

**Product Information:** For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP). I.D Tolerance = +/-0.012"

**CRIMPLOK FERRULES STEEL PLATED FOR 4" HOSE - LONG**

| Item No      | Size | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|--------------|------|---------------|-------------|-----------------|-----------------|
| CF-40410L-SP | 4    | FPS400440L    | 4.6250"     | 5.20"           | 0.09            |
| CF-40411L-SP | 4    | FPS400444L    | 4.6875"     | 5.20"           | 0.09            |
| CF-40412L-SP | 4    | FPS400448L    | 4.7500"     | 5.20"           | 0.09            |
| CF-40413L-SP | 4    | FPS400452L    | 4.8125"     | 5.20"           | 0.09            |
| CF-40414L-SP | 4    | FPS400456L    | 4.8750"     | 5.20"           | 0.09            |
| CF-40415L-SP | 4    | FPS400460L    | 4.9375"     | 5.20"           | 0.09            |
| CF-40500L-SP | 4    | FPS400500L    | 5.0000"     | 5.20"           | 0.09            |
| CF-40501L-SP | 4    | FPS400504L    | 5.0625"     | 5.20"           | 0.09            |

**Product Information:** For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP). I.D Tolerance = +/-0.012"

**CRIMPLOK SYSTEM**

**CRIMPLOK FERRULES PLATED**
**CRIMPLOK FERRULES STEEL PLATED FOR 6" HOSE**

| Item No     | Size | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|-------------|------|---------------|-------------|-----------------|-----------------|
| CF-60610-SP | 6    | FPS600640     | 6.6250"     | 5.67"           | 0.12            |
| CF-60612-SP | 6    |               | 6.7500"     | 5.67"           | 0.12            |
| CF-60614-SP | 6    | FPS600656     | 6.8750"     | 5.67"           | 0.12            |
| CF-60702-SP | 6    | FPS600708     | 7.1250"     | 5.67"           | 0.12            |
| CF-60704-SP | 6    |               | 7.2500"     | 5.67"           | 0.12            |
| CF-60706-SP | 6    | FPS600724     | 7.3750"     | 5.67"           | 0.12            |

**Product Information:** For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP). I.D Tolerance = +/-0.012"


**CRIMPLOK FERRULES STAINLESS**
**CRIMPLOK FERRULES STAINLESS 304 FOR 1/2" HOSE**

| Item No        | Size | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|----------------|------|---------------|-------------|-----------------|-----------------|
| CF-05100-SS304 | 1/2  | FSS050100     | 1.0000"     | 2.14"           | 0.06            |
| CF-05101-SS304 | 1/2  | FSS050104     | 1.0625"     | 2.14"           | 0.06            |
| CF-05102-SS304 | 1/2  | FSS050108     | 1.1250"     | 2.14"           | 0.06            |

**Product Information:** For use with CRIMPLOK crimp ground joints (GJM/GJS-XXXCR-SP). I.D Tolerance = +/-0.012

**CRIMPLOK FERRULES STAINLESS 304 FOR 1/2" HOSE - LD FOR UNIVERSAL**

| Item No          | Size | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|------------------|------|---------------|-------------|-----------------|-----------------|
| CFT-05029T-SS304 | 1/2  | FLSS050058    | 0.9063"     | 2.14"           | 0.04            |

**Product Information:** For use with CRIMPLOK Universal Crimp fittings (HE-XXXCR-SP). Ferrule thickness is .040"

**CRIMPLOK FERRULES STAINLESS 304 FOR 3/4" HOSE**

| Item No        | Size | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|----------------|------|---------------|-------------|-----------------|-----------------|
| CF-08104-SS304 | 3/4  | FSS075116     | 1.2500"     | 2.14"           | 0.06            |
| CF-08105-SS304 | 3/4  | FSS075120     | 1.3125"     | 2.14"           | 0.06            |
| CF-08106-SS304 | 3/4  | FSS075124     | 1.3750"     | 2.14"           | 0.06            |
| CF-08107-SS304 | 3/4  | FSS075128     | 1.4375"     | 2.14"           | 0.06            |
| CF-08108-SS304 | 3/4  | FSS075132     | 1.5000"     | 2.14"           | 0.06            |

**Product Information:** For use with CRIMPLOK crimp ground joints (GJM/GJS-XXXCR-SP). I.D Tolerance = +/-0.012

**CRIMPLOK SYSTEM**

**CRIMPLOK FERRULES STAINLESS**
**CRIMPLOK FERRULES STAINLESS 304 FOR 3/4" HOSE - HD FOR UNIVERSAL**

| Item No           | Size | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|-------------------|------|-------------|-----------------|-----------------|
| CFT-08104HD-SS304 | 3/4  | 1.1250"     | 2.14"           | 0.06            |
| CFT-08105HD-SS304 | 3/4  | 1.1562"     | 2.14"           | 0.06            |
| CFT-08106HD-SS304 | 3/4  | 1.1875"     | 2.14"           | 0.06            |
| CFT-08107HD-SS304 | 3/4  | 1.2188"     | 2.14"           | 0.06            |
| CFT-08108HD-SS304 | 3/4  | 1.2500"     | 2.14"           | 0.06            |
| CFT-08109HD-SS304 | 3/4  | 1.2812"     | 2.14"           | 0.06            |

**Product Information:** For use with CRIMPLOK Universal Crimp fittings (HE-XXXCR-SP). Ferrule thickness is .060"

**CRIMPLOK FERRULES STAINLESS 304 FOR 3/4" HOSE - LD FOR UNIVERSAL**

| Item No          | Size | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|------------------|------|---------------|-------------|-----------------|-----------------|
| CFT-08104T-SS304 | 3/4  | FLSS075108    | 1.1250"     | 2.14"           | 0.04            |
| CFT-08105T-SS304 | 3/4  |               | 1.1562"     | 2.14"           | 0.04            |
| CFT-08106T-SS304 | 3/4  | FLSS075112    | 1.1875"     | 2.14"           | 0.04            |
| CFT-08107T-SS304 | 3/4  | FLSS075114    | 1.2188"     | 2.14"           | 0.04            |
| CFT-08108T-SS304 | 3/4  | FLSS075116    | 1.2500"     | 2.14"           | 0.04            |
| CFT-08109T-SS304 | 3/4  | FLSS075118    | 1.2812"     | 2.14"           | 0.04            |

**Product Information:** For use with CRIMPLOK Universal Crimp fittings (HE-XXXCR-SP). Ferrule thickness is .040"

**CRIMPLOK FERRULES STAINLESS 304 FOR 1" HOSE**

| Item No        | Size | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|----------------|------|---------------|-------------|-----------------|-----------------|
| CF-10108-SS304 | 1    | FSS100132     | 1.5000"     | 2.29"           | 0.06            |
| CF-10109-SS304 | 1    | FSS100136     | 1.5625"     | 2.29"           | 0.06            |
| CF-10110-SS304 | 1    | FSS100140     | 1.6250"     | 2.29"           | 0.06            |
| CF-10111-SS304 | 1    | FSS100144     | 1.6875"     | 2.29"           | 0.06            |
| CF-10112-SS304 | 1    | FSS100148     | 1.7500"     | 2.29"           | 0.06            |
| CF-10113-SS304 | 1    | FSS100152     | 1.8125"     | 2.29"           | 0.06            |

**Product Information:** For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-SS1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SS316). I.D Tolerance = +/-0.012"

**CRIMPLOK FERRULES STAINLESS 304 FOR 1" HOSE - HD FOR UNIVERSAL**


| Item No           | Size | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|-------------------|------|-------------|-----------------|-----------------|
| CFT-10114HD-SS304 | 1    | 1.4375"     | 2.29"           | 0.06            |
| CFT-10115HD-SS304 | 1    | 1.4687"     | 2.29"           | 0.06            |
| CFT-10116HD-SS304 | 1    | 1.5000"     | 2.29"           | 0.06            |
| CFT-10117HD-SS304 | 1    | 1.5312"     | 2.29"           | 0.06            |
| CFT-10118HD-SS304 | 1    | 1.5625"     | 2.29"           | 0.06            |

**Product Information:** For use with CRIMPLOK Universal Crimp fittings (HE-XXXCR-SP). Ferrule thickness is .060"

**CRIMPLOK SYSTEM**

**CRIMPLOK FERRULES STAINLESS**
**CRIMPLOK FERRULES STAINLESS 304 FOR 1" HOSE - LD FOR UNIVERSAL**


| Item No          | Size | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|------------------|------|---------------|-------------|-----------------|-----------------|
| CFT-10114T-SS304 | 1    | FLSS100128    | 1.4375"     | 2.29"           | 0.04            |
| CFT-10115T-SS304 | 1    | FLSS100130    | 1.4687"     | 2.29"           | 0.04            |
| CFT-10116T-SS304 | 1    | FLSS100132    | 1.5000"     | 2.29"           | 0.04            |
| CFT-10117T-SS304 | 1    | FLSS100134    | 1.5312"     | 2.29"           | 0.04            |
| CFT-10118T-SS304 | 1    | FLSS100136    | 1.5625"     | 2.29"           | 0.04            |

**Product Information:** For use with CRIMPLOK Universal Crimp fittings (HE-XXXCR-SP). Ferrule thickness is .040"

**CRIMPLOK FERRULES STAINLESS 304 FOR 1-1/4" HOSE**

| Item No        | Size  | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|----------------|-------|---------------|-------------|-----------------|-----------------|
| CF-13113-SS304 | 1-1/4 | FSS125152     | 1.8125"     | 2.32"           | 0.06            |
| CF-13114-SS304 | 1-1/4 | FSS125156     | 1.8750"     | 2.32"           | 0.06            |

**Product Information:** For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-SS1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SS316). I.D Tolerance = +/-0.012"

**CRIMPLOK FERRULES STAINLESS 304 FOR 1-1/2" HOSE**

| Item No        | Size  | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|----------------|-------|---------------|-------------|-----------------|-----------------|
| CF-15200-SS304 | 1-1/2 | FSS150200     | 2.0000"     | 2.36"           | 0.06            |
| CF-15202-SS304 | 1-1/2 | FSS150208     | 2.1250"     | 2.36"           | 0.06            |
| CF-15203-SS304 | 1-1/2 | FSS150212     | 2.1875"     | 2.36"           | 0.06            |
| CF-15204-SS304 | 1-1/2 | FSS150216     | 2.2500"     | 2.36"           | 0.06            |
| CF-15205-SS304 | 1-1/2 | FSS150220     | 2.3125"     | 2.36"           | 0.06            |
| CF-15206-SS304 | 1-1/2 | FSS150224     | 2.3750"     | 2.36"           | 0.06            |

**Product Information:** For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-SS1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SS316). I.D Tolerance = +/-0.012"

**CRIMPLOK FERRULES STAINLESS 304 FOR 2" HOSE**

| Item No        | Size | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|----------------|------|---------------|-------------|-----------------|-----------------|
| CF-20208-SS304 | 2    | FSS200232     | 2.5000"     | 2.79"           | 0.06            |
| CF-20209-SS304 | 2    | FSS200236     | 2.5625"     | 2.79"           | 0.06            |
| CF-20210-SS304 | 2    | FSS200240     | 2.6250"     | 2.79"           | 0.06            |
| CF-20211-SS304 | 2    | FSS200244     | 2.6875"     | 2.79"           | 0.06            |
| CF-20212-SS304 | 2    | FSS200248     | 2.7500"     | 2.79"           | 0.06            |
| CF-20213-SS304 | 2    | FSS200252     | 2.8125"     | 2.79"           | 0.06            |
| CF-20214-SS304 | 2    | FSS200256     | 2.8750"     | 2.79"           | 0.06            |
| CF-20215-SS304 | 2    | FSS200260     | 2.9375"     | 2.79"           | 0.06            |

**Product Information:** For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-SS1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SS316). I.D Tolerance = +/-0.012"

**CRIMPLOK SYSTEM**

**CRIMPLOK FERRULES STAINLESS**
**CRIMPLOK FERRULES STAINLESS 304 FOR 2-1/2" HOSE**

| Item No        | Size  | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|----------------|-------|---------------|-------------|-----------------|-----------------|
| CF-25301-SS304 | 2-1/2 |               | 3.0625"     | 3.11"           | 0.06            |
| CF-25302-SS304 | 2-1/2 | FSS250308     | 3.1250"     | 3.11"           | 0.06            |
| CF-25303-SS304 | 2-1/2 | FSS250312     | 3.1875"     | 3.11"           | 0.06            |
| CF-25304-SS304 | 2-1/2 | FSS250316     | 3.2500"     | 3.11"           | 0.06            |
| CF-25305-SS304 | 2-1/2 | FSS250320     | 3.3125"     | 3.11"           | 0.06            |
| CF-25307-SS304 | 2-1/2 | FSS250328     | 3.4375"     | 3.11"           | 0.06            |

**Product Information:** For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-SS1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SS316). I.D Tolerance = +/-0.012"

**CRIMPLOK FERRULES STAINLESS 304 FOR 3" HOSE**

| Item No        | Size | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|----------------|------|---------------|-------------|-----------------|-----------------|
| CF-30309-SS304 | 3    | FSS300336     | 3.5625"     | 3.94"           | 0.10            |
| CF-30310-SS304 | 3    | FSS300340     | 3.6250"     | 3.94"           | 0.10            |
| CF-30311-SS304 | 3    | FSS300344     | 3.6875"     | 3.94"           | 0.10            |
| CF-30312-SS304 | 3    | FSS300348     | 3.7500"     | 3.94"           | 0.10            |
| CF-30313-SS304 | 3    | FSS300352     | 3.8125"     | 3.94"           | 0.10            |
| CF-30314-SS304 | 3    | FSS300356     | 3.8750"     | 3.94"           | 0.10            |
| CF-30315-SS304 | 3    | FSS300360     | 3.9375"     | 3.94"           | 0.10            |
| CF-30400-SS304 | 3    | FSS300400     | 4.0000"     | 3.94"           | 0.10            |

**Product Information:** For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-SS1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SS316). I.D Tolerance = +/-0.012"

**CRIMPLOK FERRULES STAINLESS 304 FOR 4" HOSE**

| Item No        | Size | Campbell Part | Ferrule ID" | Ferrule Length" | Wall Thickness" |
|----------------|------|---------------|-------------|-----------------|-----------------|
| CF-40409-SS304 | 4    | FSS400436     | 4.5625"     | 4.19"           | 0.10            |
| CF-40410-SS304 | 4    | FSS400440     | 4.6250"     | 4.19"           | 0.10            |
| CF-40411-SS304 | 4    | FSS400444     | 4.6875"     | 4.19"           | 0.10            |
| CF-40412-SS304 | 4    | FSS400448     | 4.7500"     | 4.19"           | 0.10            |
| CF-40413-SS304 | 4    | FSS400452     | 4.8125"     | 4.19"           | 0.10            |
| CF-40414-SS304 | 4    | FSS400456     | 4.8750"     | 4.19"           | 0.10            |
| CF-40415-SS304 | 4    | FSS400460     | 4.9375"     | 4.19"           | 0.10            |
| CF-40500-SS304 | 4    | FSS400500     | 5.0000"     | 4.19"           | 0.10            |
| CF-40501-SS304 | 4    | FSS400504     | 5.0625"     | 4.19"           | 0.10            |

**Product Information:** For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-SS1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SS316). I.D Tolerance = +/-0.012"



**CRIMPLOK SYSTEM**

**CRIMPLOK SLEEVES ALUMINUM FOR 2" HOSE**

| Item No     | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|-------------|------|---------------|------------|----------------|-----------------|
| CSL-20209-A | 2    | SAL200236     | 2.5625"    | 2.79"          | 0.12            |
| CSL-20210-A | 2    | SAL200240     | 2.6250"    | 2.79"          | 0.12            |
| CSL-20211-A | 2    | SAL200244     | 2.6875"    | 2.79"          | 0.12            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-A1) ,CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P). I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES ALUMINUM FOR 3" HOSE**

| Item No     | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|-------------|------|---------------|------------|----------------|-----------------|
| CSL-20310-A | 3    | SAL300340     | 3.6250"    | 3.94"          | 0.12            |
| CSL-30313-A | 3    | SAL300352     | 3.8125"    | 3.94"          | 0.12            |
| CSL-30314-A | 3    | SAL300356     | 3.8750"    | 3.94"          | 0.12            |
| CSL-30315-A | 3    | SAL300360     | 3.9375"    | 3.94"          | 0.12            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-A1) ,CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P). I.D Tolerance = +/-0.012"

**CRIMPLOK SYSTEM**
**CRIMPLOK SLEEVES ALUMINUM**

**CRIMPLOK SLEEVES ALUMINUM FOR 4" HOSE**

| Item No     | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|-------------|------|---------------|------------|----------------|-----------------|
| CSL-40411-A | 4    | SAL400444     | 4.6875"    | 4.19"          | 0.12            |
| CSL-40412-A | 4    | SAL400448     | 4.7500"    | 4.19"          | 0.12            |
| CSL-40413-A | 4    | SAL400452     | 4.8125"    | 4.19"          | 0.12            |
| CSL-40414-A | 4    | SAL400456     | 4.8750"    | 4.19"          | 0.12            |
| CSL-40415-A | 4    | SAL400460     | 4.9375"    | 4.19"          | 0.12            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P). I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES PLATED**

**CRIMPLOK SLEEVES STEEL PLATED FOR 1/2" HOSE**

| Item No      | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|--------------|------|---------------|------------|----------------|-----------------|
| CSL-05015-SP | 1/2  | SPS050100     | 0.9375"    | 2.14"          | 0.06            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P). I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STEEL PLATED FOR 3/4" HOSE**

| Item No      | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|--------------|------|---------------|------------|----------------|-----------------|
| CSL-08102-SP | 3/4  | SPS075108     | 1.1250"    | 2.14"          | 0.06            |
| CSL-08104-SP | 3/4  | SPS075116     | 1.2500"    | 2.14"          | 0.06            |
| CSL-08106-SP | 3/4  | SPS075124     | 1.3750"    | 2.14"          | 0.06            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P). I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STEEL PLATED FOR 3/4" HOSE - SHORT**

| Item No       | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|---------------|------|---------------|------------|----------------|-----------------|
| CSL-05100S-SP | 1/2  | SPS050100S    | 1.0000"    | 0.91"          | 0.06            |
| CSL-08102S-SP | 3/4  | SPS075108S    | 1.1250"    | 1.10"          | 0.06            |
| CSL-08105S-SP | 3/4  | SPS075120S    | 1.3125"    | 1.10"          | 0.06            |
| CSL-08106S-SP | 3/4  | SPS075124S    | 1.3750"    | 1.10"          | 0.06            |

**Product Information:** For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D Tolerance = +/-0.012"

**CRIMPLOK SYSTEM**

**CRIMPLOK SLEEVES STEEL PLATED FOR 1" HOSE**

| Item No      | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|--------------|------|---------------|------------|----------------|-----------------|
| CSL-10105-SP | 1    | SPS100120     | 1.3125"    | 2.29"          | 0.06            |
| CSL-10106-SP | 1    | SPS100124     | 1.3750"    | 2.29"          | 0.06            |
| CSL-10107-SP | 1    | SPS100128     | 1.4375"    | 2.29"          | 0.06            |
| CSL-10108-SP | 1    | SPS100132     | 1.5000"    | 2.29"          | 0.06            |
| CSL-10109-SP | 1    | SPS100136     | 1.5625"    | 2.29"          | 0.06            |
| CSL-10110-SP | 1    | SPS100140     | 1.6250"    | 2.29"          | 0.06            |
| CSL-10111-SP | 1    | SPS100144     | 1.6875"    | 2.29"          | 0.06            |
| CSL-10112-SP | 1    | SPS100148     | 1.7500"    | 2.29"          | 0.06            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P). I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STEEL PLATED FOR 1" HOSE - SHORT**

| Item No       | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|---------------|------|---------------|------------|----------------|-----------------|
| CSL-10107S-SP | 1    | SPS100128S    | 1.4375"    | 1.26"          | 0.06            |
| CSL-10108S-SP | 1    | SPS100132S    | 1.5000"    | 1.26"          | 0.06            |
| CSL-10109S-SP | 1    | SPS100136S    | 1.5625"    | 1.26"          | 0.06            |
| CSL-10110S-SP | 1    | SPS100140S    | 1.6250"    | 1.26"          | 0.06            |
| CSL-10111S-SP | 1    | SPS100144S    | 1.6875"    | 1.26"          | 0.06            |
| CSL-10112S-SP | 1    | SPS100148S    | 1.7500"    | 1.26"          | 0.06            |

**Product Information:** For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STEEL PLATED FOR 1 1/4" HOSE**

| Item No      | Size  | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|--------------|-------|---------------|------------|----------------|-----------------|
| CSL-13114-SP | 1-1/4 | SPS125156     | 1.8750"    | 2.32"          | 0.06            |
| CSL-13200-SP | 1-1/4 | SPS125200     | 2.0000"    | 2.32"          | 0.06            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P). I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STEEL PLATED FOR 1 1/4" HOSE - SHORT**

| Item No       | Size  | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|---------------|-------|---------------|------------|----------------|-----------------|
| CSL-13110S-SP | 1-1/4 | SPS125140S    | 1.6250"    | 1.26"          | 0.06            |
| CSL-13112S-SP | 1-1/4 | SPS125148S    | 1.7500"    | 1.26"          | 0.06            |
| CSL-13113S-SP | 1-1/4 | SPS125152S    | 1.8125"    | 1.26"          | 0.06            |
| CSL-13114S-SP | 1-1/4 | SPS125156S    | 1.8750"    | 1.26"          | 0.06            |

**Product Information:** For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D Tolerance = +/-0.012"

**CRIMPLOK SYSTEM**

**CRIMPLOK SLEEVES STEEL PLATED FOR 1 1/2" HOSE**

| Item No      | Size  | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|--------------|-------|---------------|------------|----------------|-----------------|
| CSL-15112-SP | 1-1/2 | SPS150148     | 1.7500"    | 2.36"          | 0.06            |
| CSL-15113-SP | 1-1/2 | SPS150152     | 1.8125"    | 2.36"          | 0.06            |
| CSL-15114-SP | 1-1/2 | SPS150156     | 1.8750"    | 2.36"          | 0.06            |
| CSL-15115-SP | 1-1/2 | SPS150160     | 1.9375"    | 2.36"          | 0.06            |
| CSL-15200-SP | 1-1/2 | SPS150200     | 2.0000"    | 2.36"          | 0.06            |
| CSL-15201-SP | 1-1/2 | SPS150204     | 2.0625"    | 2.36"          | 0.06            |
| CSL-15202-SP | 1-1/2 | SPS150208     | 2.1250"    | 2.36"          | 0.06            |
| CSL-15203-SP | 1-1/2 | SPS150212     | 2.1875"    | 2.36"          | 0.06            |
| CSL-15204-SP | 1-1/2 | SPS150216     | 2.2500"    | 2.36"          | 0.06            |
| CSL-15205-SP | 1-1/2 | SPS150220     | 2.3125"    | 2.36"          | 0.06            |
| CSL-15206-SP | 1-1/2 | SPS150224     | 2.3750"    | 2.36"          | 0.06            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P). I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STEEL PLATED FOR 1 1/2" HOSE - SHORT**

| Item No       | Size  | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|---------------|-------|---------------|------------|----------------|-----------------|
| CSL-15115S-SP | 1-1/2 | SPS150160S    | 1.9375"    | 1.46"          | 0.06            |
| CSL-15200S-SP | 1-1/2 | SPS150200S    | 2.0000"    | 1.46"          | 0.06            |
| CSL-15201S-SP | 1-1/2 | SPS150204S    | 2.0625"    | 1.46"          | 0.06            |
| CSL-15202S-SP | 1-1/2 | SPS150208S    | 2.1250"    | 1.46"          | 0.06            |
| CSL-15203S-SP | 1-1/2 | SPS150212S    | 2.1875"    | 1.46"          | 0.06            |
| CSL-15204S-SP | 1-1/2 | SPS150216S    | 2.2500"    | 1.46"          | 0.06            |
| CSL-15205S-SP | 1-1/2 | SPS150220S    | 2.3125"    | 1.46"          | 0.06            |
| CSL-15206S-SP | 1-1/2 | SPS150224S    | 2.3750"    | 1.46"          | 0.06            |

**Product Information:** For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STEEL PLATED FOR 2" HOSE**

| Item No      | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|--------------|------|---------------|------------|----------------|-----------------|
| CSL-20204-SP | 2    | SPS200216     | 2.2500"    | 2.79"          | 0.06            |
| CSL-20206-SP | 2    | SPS200224     | 2.3750"    | 2.79"          | 0.06            |
| CSL-20207-SP | 2    | SPS200228     | 2.4375"    | 2.79"          | 0.06            |
| CSL-20208-SP | 2    | SPS200232     | 2.5000"    | 2.79"          | 0.06            |
| CSL-20209-SP | 2    | SPS200236     | 2.5625"    | 2.79"          | 0.06            |
| CSL-20210-SP | 2    | SPS200240     | 2.6250"    | 2.79"          | 0.06            |
| CSL-20211-SP | 2    | SPS200244     | 2.6875"    | 2.79"          | 0.06            |
| CSL-20212-SP | 2    | SPS200248     | 2.7500"    | 2.79"          | 0.06            |
| CSL-20213-SP | 2    | SPS200252     | 2.8125"    | 2.79"          | 0.06            |
| CSL-20214-SP | 2    | SPS200256     | 2.8750"    | 2.79"          | 0.06            |
| CSL-20215-SP | 2    | SPS200260     | 2.9375"    | 2.79"          | 0.06            |
| CSL-20300-SP | 2    | SPS200300     | 3.0000"    | 2.79"          | 0.06            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P). I.D Tolerance = +/-0.012"

**CRIMPLOK SYSTEM**

**CRIMPLOK SLEEVES STEEL PLATED FOR 2" HOSE - SHORT**

| Item No       | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|---------------|------|---------------|------------|----------------|-----------------|
| CSL-20202S-SP | 2    | SPS200208S    | 2.1250"    | 1.81"          | 0.06            |
| CSL-20204S-SP | 2    | SPS200216S    | 2.2500"    | 1.81"          | 0.06            |
| CSL-20206S-SP | 2    | SPS200224S    | 2.3750"    | 1.81"          | 0.06            |
| CSL-20207S-SP | 2    | SPS200228S    | 2.4375"    | 1.81"          | 0.06            |
| CSL-20208S-SP | 2    | SPS200232S    | 2.5000"    | 1.81"          | 0.06            |
| CSL-20209S-SP | 2    | SPS200236S    | 2.5625"    | 1.81"          | 0.06            |
| CSL-20210S-SP | 2    | SPS200240S    | 2.6250"    | 1.81"          | 0.06            |
| CSL-20211S-SP | 2    | SPS200244S    | 2.6875"    | 1.81"          | 0.06            |
| CSL-20212S-SP | 2    | SPS200248S    | 2.7500"    | 1.81"          | 0.06            |
| CSL-20213S-SP | 2    | SPS200252S    | 2.8125"    | 1.81"          | 0.06            |
| CSL-20214S-SP | 2    | SPS200256S    | 2.8750"    | 1.81"          | 0.06            |
| CSL-20215S-SP | 2    | SPS200260S    | 2.9375"    | 1.81"          | 0.06            |
| CSL-20300S-SP | 2    | SPS200300S    | 3.0000"    | 1.81"          | 0.06            |

**Product Information:** For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STEEL PLATED FOR 2 1/2" HOSE**

| Item No      | Size  | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|--------------|-------|---------------|------------|----------------|-----------------|
| CSL-25300-SP | 2-1/2 | SPS250300     | 3.0000"    | 3.11"          | 0.06            |
| CSL-25302-SP | 2-1/2 | SPS250308     | 3.1250"    | 3.11"          | 0.06            |
| CSL-25304-SP | 2-1/2 | SPS250316     | 3.2500"    | 3.11"          | 0.06            |
| CSL-25306-SP | 2-1/2 | SPS250324     | 3.3750"    | 3.11"          | 0.06            |
| CSL-25308-SP | 2-1/2 | SPS250332     | 3.5000"    | 3.11"          | 0.06            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-A1) ,CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P). I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STEEL PLATED FOR 2 1/2" HOSE - SHORT**

| Item No       | Size  | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|---------------|-------|---------------|------------|----------------|-----------------|
| CSL-25212S-SP | 2-1/2 | SPS250248S    | 2.7500"    | 2.28"          | 0.06            |
| CSL-25214S-SP | 2-1/2 | SPS250256S    | 2.8750"    | 2.28"          | 0.06            |
| CSL-25300S-SP | 2-1/2 | SPS250300S    | 3.0000"    | 2.28"          | 0.06            |
| CSL-25302S-SP | 2-1/2 | SPS250308S    | 3.1250"    | 2.28"          | 0.06            |
| CSL-25304S-SP | 2-1/2 | SPS250316S    | 3.2500"    | 2.28"          | 0.06            |
| CSL-25306S-SP | 2-1/2 | SPS250324S    | 3.3750"    | 2.28"          | 0.06            |
| CSL-25308S-SP | 2-1/2 | SPS250332S    | 3.5000"    | 2.28"          | 0.06            |

**Product Information:** For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D Tolerance = +/-0.012"

**CRIMPLOK SYSTEM**

**CRIMPLOK SLEEVES STEEL PLATED FOR 3" HOSE**

| Item No      | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|--------------|------|---------------|------------|----------------|-----------------|
| CSL-30304-SP | 3    | SPS300316     | 3.2500"    | 3.94"          | 0.09            |
| CSL-30306-SP | 3    | SPS300324     | 3.3750"    | 3.94"          | 0.09            |
| CSL-30307-SP | 3    | SPS300328     | 3.4375"    | 3.94"          | 0.09            |
| CSL-30308-SP | 3    | SPS300332     | 3.5000"    | 3.94"          | 0.09            |
| CSL-30309-SP | 3    | SPS300336     | 3.5625"    | 3.94"          | 0.09            |
| CSL-30310-SP | 3    | SPS300340     | 3.6250"    | 3.94"          | 0.09            |
| CSL-30311-SP | 3    | SPS300344     | 3.6875"    | 3.94"          | 0.09            |
| CSL-30312-SP | 3    | SPS300348     | 3.7500"    | 3.94"          | 0.09            |
| CSL-30313-SP | 3    | SPS300352     | 3.8125"    | 3.94"          | 0.09            |
| CSL-30314-SP | 3    | SPS300356     | 3.8750"    | 3.94"          | 0.09            |
| CSL-30400-SP | 3    | SPS300400     | 4.0000"    | 3.94"          | 0.09            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P). I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STEEL PLATED FOR 3" HOSE - SHORT**

| Item No       | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|---------------|------|---------------|------------|----------------|-----------------|
| CSL-30302S-SP | 3    | SPS300308S    | 3.1250"    | 2.44"          | 0.09            |
| CSL-30304S-SP | 3    | SPS300316S    | 3.2500"    | 2.44"          | 0.09            |
| CSL-30306S-SP | 3    | SPS300324S    | 3.3750"    | 2.44"          | 0.09            |
| CSL-30307S-SP | 3    | SPS300328S    | 3.4375"    | 2.44"          | 0.09            |
| CSL-30308S-SP | 3    | SPS300332S    | 3.5000"    | 2.44"          | 0.09            |
| CSL-30309S-SP | 3    | SPS300336S    | 3.5625"    | 2.44"          | 0.09            |
| CSL-30310S-SP | 3    | SPS300340S    | 3.6250"    | 2.44"          | 0.09            |
| CSL-30311S-SP | 3    | SPS300344S    | 3.6875"    | 2.44"          | 0.09            |
| CSL-30312S-SP | 3    | SPS300348S    | 3.7500"    | 2.44"          | 0.09            |
| CSL-30313S-SP | 3    | SPS300352S    | 3.8125"    | 2.44"          | 0.09            |
| CSL-30314S-SP | 3    | SPS300356S    | 3.8750"    | 2.44"          | 0.09            |
| CSL-30315S-SP | 3    | SPS300360S    | 3.9375"    | 2.44"          | 0.09            |
| CSL-30400S-SP | 3    | SPS300400S    | 4.0000"    | 2.44"          | 0.09            |

**Product Information:** For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STEEL PLATED FOR 4" HOSE**

| Item No      | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|--------------|------|---------------|------------|----------------|-----------------|
| CSL-40404-SP | 4    | SPS400416     | 4.2500"    | 4.19"          | 0.09            |
| CSL-40406-SP | 4    | SPS400424     | 4.3750"    | 4.19"          | 0.09            |
| CSL-40408-SP | 4    | SPS400432     | 4.5000"    | 4.19"          | 0.09            |
| CSL-40409-SP | 4    | SPS400436     | 4.5625"    | 4.19"          | 0.09            |
| CSL-40410-SP | 4    | SPS400440     | 4.6250"    | 4.19"          | 0.09            |
| CSL-40411-SP | 4    | SPS400444     | 4.6875"    | 4.19"          | 0.09            |
| CSL-40412-SP | 4    | SPS400448     | 4.7500"    | 4.19"          | 0.09            |
| CSL-40413-SP | 4    | SPS400452     | 4.8125"    | 4.19"          | 0.09            |
| CSL-40414-SP | 4    | SPS400456     | 4.8750"    | 4.19"          | 0.09            |
| CSL-40415-SP | 4    | SPS400460     | 4.9375"    | 4.19"          | 0.09            |
| CSL-40500-SP | 4    | SPS400500     | 5.0000"    | 4.19"          | 0.09            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P). I.D Tolerance = +/-0.012"

**CRIMPLOK SYSTEM**

**CRIMPLOK SLEEVES STEEL PLATED FOR 4" HOSE - SHORT**

| Item No       | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|---------------|------|---------------|------------|----------------|-----------------|
| CSL-40404S-SP | 4    | SPS400416S    | 4.2500"    | 3.31"          | 0.09            |
| CSL-40406S-SP | 4    | SPS400424S    | 4.3750"    | 3.31"          | 0.09            |
| CSL-40408S-SP | 4    | SPS400432S    | 4.5000"    | 3.31"          | 0.09            |
| CSL-40409S-SP | 4    | SPS400436S    | 4.5625"    | 3.31"          | 0.09            |
| CSL-40410S-SP | 4    | SPS400440S    | 4.6250"    | 3.31"          | 0.09            |
| CSL-40411S-SP | 4    | SPS400444S    | 4.6875"    | 3.31"          | 0.09            |
| CSL-40412S-SP | 4    | SPS400448S    | 4.7500"    | 3.31"          | 0.09            |
| CSL-40413S-SP | 4    | SPS400452S    | 4.8125"    | 3.31"          | 0.09            |
| CSL-40414S-SP | 4    | SPS400456S    | 4.8750"    | 3.31"          | 0.09            |
| CSL-40415S-SP | 4    | SPS400460S    | 4.9375"    | 3.31"          | 0.09            |
| CSL-40500S-SP | 4    | SPS400500S    | 5.0000"    | 3.31"          | 0.09            |

**Product Information:** For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STEEL PLATED FOR 6" HOSE**

| Item No      | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|--------------|------|---------------|------------|----------------|-----------------|
| CSL-60604-SP | 6    | SPS600616     | 6.2500"    | 5.67"          | 0.12            |
| CSL-60606-SP | 6    | SPS600624     | 6.3750"    | 5.67"          | 0.12            |
| CSL-60608-SP | 6    | SPS600632     | 6.5000"    | 5.67"          | 0.12            |
| CSL-60610-SP | 6    | SPS600640     | 6.6250"    | 5.67"          | 0.12            |
| CSL-60612-SP | 6    | SPS600648     | 6.7500"    | 5.67"          | 0.12            |
| CSL-60614-SP | 6    | SPS600656     | 6.8750"    | 5.67"          | 0.12            |
| CSL-60700-SP | 6    | SPS600700     | 7.0000"    | 5.67"          | 0.12            |
| CSL-60702-SP | 6    | SPS600708     | 7.1250"    | 5.67"          | 0.12            |
| CSL-60704-SP | 6    | SPS600716     | 7.2500"    | 5.67"          | 0.12            |
| CSL-60706-SP | 6    | SPS600724     | 7.3750"    | 5.67"          | 0.12            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-A1) ,CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P). I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STEEL PLATED FOR 8" HOSE**

| Item No      | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|--------------|------|---------------|------------|----------------|-----------------|
| CSL-80804-SP | 8    | SPS800816     | 8.2500"    | 6.50"          | 0.12            |
| CSL-80808-SP | 8    | SPS800832     | 8.5000"    | 6.50"          | 0.12            |
| CSL-80812-SP | 8    | SPS800848     | 8.7500"    | 6.50"          | 0.12            |
| CSL-80900-SP | 8    | SPS800900     | 9.0000"    | 6.50"          | 0.12            |
| CSL-80904-SP | 8    | SPS800916     | 9.2500"    | 6.50"          | 0.12            |
| CSL-80908-SP | 8    | SPS800932     | 9.5000"    | 6.50"          | 0.12            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-A1) ,CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P). I.D Tolerance = +/-0.012"

**CRIMPLOK SYSTEM**

**CRIMPLOK SLEEVES PLATED**
**CRIMPLOK SLEEVES STEEL PLATED FOR 10" HOSE**

| Item No       | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|---------------|------|---------------|------------|----------------|-----------------|
| CSL-100108-SP | 10   | SPS100132     | 10.5000"   | 7.25"          | 0.12            |
| CSL-100112-SP | 10   | SPS100148     | 10.7500"   | 7.25"          | 0.12            |
| CSL-100114-SP | 10   | SPS100156     | 10.8750"   | 7.25"          | 0.12            |
| CSL-101100-SP | 10   | SPS101100     | 11.0000"   | 7.25"          | 0.12            |
| CSL-101104-SP | 10   | SPS101116     | 11.2500"   | 7.25"          | 0.12            |
| CSL-101106-SP | 10   | SPS101124     | 11.3750"   | 7.25"          | 0.12            |
| CSL-101108-SP | 10   | SPS101132     | 11.5000"   | 7.25"          | 0.12            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P). I.D Tolerance = +/-0.012"


**CRIMPLOK SLEEVES STAINLESS**
**CRIMPLOK SLEEVES STAINLESS 304 FOR 1/2" HOSE - SHORT**

| Item No          | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|------------------|------|---------------|------------|----------------|-----------------|
| CSL-05100S-SS304 | 1/2  | SSS050100S    | 1.0000"    | 0.91"          | 0.06            |

**Product Information:** For use with regular combination nipples (CNT-XXX-SS/SS316) I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STAINLESS 304 FOR 3/4" HOSE**

| Item No         | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|-----------------|------|---------------|------------|----------------|-----------------|
| CSL-08102-SS304 | 3/4  | SSS075108     | 1.1250"    | 2.14"          | 0.06            |
| CSL-08104-SS304 | 3/4  | SSS075116     | 1.2500"    | 2.14"          | 0.06            |
| CSL-08106-SS304 | 3/4  | SSS075124     | 1.3750"    | 2.14"          | 0.06            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-SS1) I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STAINLESS 304 FOR 3/4" HOSE - SHORT**

| Item No          | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|------------------|------|---------------|------------|----------------|-----------------|
| CSL-08101S-SS304 | 3/4  | SSS075104S    | 1.0625"    | 1.10"          | 0.06            |
| CSL-08102S-SS304 | 3/4  | SSS075108S    | 1.1250"    | 1.10"          | 0.06            |
| CSL-08104S-SS304 | 3/4  | SSS075116S    | 1.2500"    | 1.10"          | 0.06            |
| CSL-08105S-SS304 | 3/4  | SSS075120S    | 1.3125"    | 1.10"          | 0.06            |
| CSL-08106S-SS304 | 3/4  | SSS075124S    | 1.3750"    | 1.10"          | 0.06            |

**Product Information:** For use with regular combination nipples (CNT-XXX-SS/SS316) I.D Tolerance = +/-0.012"



**CRIMPLOK SYSTEM**

**CRIMPLOK SLEEVES STAINLESS**
**CRIMPLOK SLEEVES STAINLESS 304 FOR 1" HOSE**

| Item No         | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|-----------------|------|---------------|------------|----------------|-----------------|
| CSL-10104-SS304 | 1    | SSS100116     | 1.2500"    | 2.29"          | 0.06            |
| CSL-10105-SS304 | 1    | SSS100120     | 1.3125"    | 2.29"          | 0.06            |
| CSL-10106-SS304 | 1    | SSS100124     | 1.3750"    | 2.29"          | 0.06            |
| CSL-10107-SS304 | 1    | SSS100128     | 1.4375"    | 2.29"          | 0.06            |
| CSL-10108-SS304 | 1    | SSS100132     | 1.5000"    | 2.29"          | 0.06            |
| CSL-10109-SS304 | 1    | SSS100136     | 1.5625"    | 2.29"          | 0.06            |
| CSL-10110-SS304 | 1    | SSS100140     | 1.6250"    | 2.29"          | 0.06            |
| CSL-10111-SS304 | 1    | SSS100144     | 1.6875"    | 2.29"          | 0.06            |
| CSL-10112-SS304 | 1    | SSS100148     | 1.7500"    | 2.29"          | 0.06            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-SS1) I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STAINLESS 304 FOR 1" HOSE - SHORT**

| Item No          | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|------------------|------|---------------|------------|----------------|-----------------|
| CSL-10107S-SS304 | 1    | SSS100128S    | 1.4375"    | 1.26"          | 0.06            |
| CSL-10108S-SS304 | 1    | SSS100132S    | 1.5000"    | 1.26"          | 0.06            |
| CSL-10109S-SS304 | 1    | SSS100136S    | 1.5625"    | 1.26"          | 0.06            |
| CSL-10110S-SS304 | 1    | SSS100140S    | 1.6250"    | 1.26"          | 0.06            |
| CSL-10111S-SS304 | 1    | SSS100144S    | 1.6875"    | 1.26"          | 0.06            |
| CSL-10112S-SS304 | 1    | SSS100148S    | 1.7500"    | 1.26"          | 0.06            |

**Product Information:** For use with regular combination nipples (CNT-XXX-SS/SS316) I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STAINLESS 304 FOR 1 1/4" HOSE**

| Item No         | Size  | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|-----------------|-------|---------------|------------|----------------|-----------------|
| CSL-13114-SS304 | 1-1/4 | SSS125156     | 1.8750"    | 2.32"          | 0.06            |
| CSL-13200-SS304 | 1-1/4 | SSS125200     | 2.0000"    | 2.32"          | 0.06            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-SS1) I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STAINLESS 304 FOR 1-1/4" HOSE - SHORT**

| Item No          | Size  | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|------------------|-------|---------------|------------|----------------|-----------------|
| CSL-13110S-SS304 | 1-1/4 | SSS125140S    | 1.6250"    | 1.26"          | 0.06            |
| CSL-13112S-SS304 | 1-1/4 | SSS125148S    | 1.7500"    | 1.26"          | 0.06            |
| CSL-13113S-SS304 | 1-1/4 | SSS125152S    | 1.8125"    | 1.26"          | 0.06            |
| CSL-13114S-SS304 | 1-1/4 | SSS125156S    | 1.8750"    | 1.26"          | 0.06            |

**Product Information:** For use with regular combination nipples (CNT-XXX-SS/SS316) I.D Tolerance = +/-0.012"

**CRIMPLOK SYSTEM**

**CRIMPLOK SLEEVES STAINLESS 304 FOR 1 1/2" HOSE**

| Item No         | Size  | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|-----------------|-------|---------------|------------|----------------|-----------------|
| CSL-15113-SS304 | 1-1/2 | SSS150152     | 1.8125"    | 2.36"          | 0.06            |
| CSL-15114-SS304 | 1-1/2 | SSS150156     | 1.8750"    | 2.36"          | 0.06            |
| CSL-15115-SS304 | 1-1/2 | SSS150160     | 1.9375"    | 2.36"          | 0.06            |
| CSL-15200-SS304 | 1-1/2 | SSS150200     | 2.0000"    | 2.36"          | 0.06            |
| CSL-15201-SS304 | 1-1/2 | SSS150204     | 2.0625"    | 2.36"          | 0.06            |
| CSL-15202-SS304 | 1-1/2 | SSS150208     | 2.1250"    | 2.36"          | 0.06            |
| CSL-15203-SS304 | 1-1/2 | SSS150212     | 2.1875"    | 2.36"          | 0.06            |
| CSL-15204-SS304 | 1-1/2 | SSS150216     | 2.2500"    | 2.36"          | 0.06            |
| CSL-15205-SS304 | 1-1/2 | SSS150220     | 2.3125"    | 2.36"          | 0.06            |
| CSL-15206-SS304 | 1-1/2 | SSS150224     | 2.3750"    | 2.36"          | 0.06            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-SS1) I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STAINLESS 304 FOR 1-1/2" HOSE - SHORT**

| Item No          | Size  | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|------------------|-------|---------------|------------|----------------|-----------------|
| CSL-15115S-SS304 | 1-1/2 | SSS150160S    | 1.9375"    | 1.46"          | 0.06            |
| CSL-15200S-SS304 | 1-1/2 | SSS150200S    | 2.0000"    | 1.46"          | 0.06            |
| CSL-15201S-SS304 | 1-1/2 | SSS150204S    | 2.0625"    | 1.46"          | 0.06            |
| CSL-15202S-SS304 | 1-1/2 | SSS150208S    | 2.1250"    | 1.46"          | 0.06            |
| CSL-15203S-SS304 | 1-1/2 | SSS150212S    | 2.1875"    | 1.46"          | 0.06            |
| CSL-15204S-SS304 | 1-1/2 | SSS150216S    | 2.2500"    | 1.46"          | 0.06            |
| CSL-15205S-SS304 | 1-1/2 | SSS150220S    | 2.3125"    | 1.46"          | 0.06            |
| CSL-15206S-SS304 | 1-1/2 | SSS150224S    | 2.3750"    | 1.46"          | 0.06            |

**Product Information:** For use with regular combination nipples (CNT-XXX-SS/SS316) I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STAINLESS 304 FOR 2" HOSE**

| Item No         | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|-----------------|------|---------------|------------|----------------|-----------------|
| CSL-20204-SS304 | 2    | SSS200216     | 2.2500"    | 2.79"          | 0.06            |
| CSL-20206-SS304 | 2    | SSS200224     | 2.3750"    | 2.79"          | 0.06            |
| CSL-20207-SS304 | 2    | SSS200228     | 2.4375"    | 2.79"          | 0.06            |
| CSL-20208-SS304 | 2    | SSS200232     | 2.5000"    | 2.79"          | 0.06            |
| CSL-20209-SS304 | 2    | SSS200236     | 2.5625"    | 2.79"          | 0.06            |
| CSL-20210-SS304 | 2    | SSS200240     | 2.6250"    | 2.79"          | 0.06            |
| CSL-20211-SS304 | 2    | SSS200244     | 2.6875"    | 2.79"          | 0.06            |
| CSL-20212-SS304 | 2    | SSS200248     | 2.7500"    | 2.79"          | 0.06            |
| CSL-20213-SS304 | 2    | SSS200252     | 2.8125"    | 2.79"          | 0.06            |
| CSL-20214-SS304 | 2    | SSS200256     | 2.8750"    | 2.79"          | 0.06            |
| CSL-20215-SS304 | 2    | SSS200260     | 2.9375"    | 2.79"          | 0.06            |
| CSL-20300-SS304 | 2    | SSS200300     | 3.0000"    | 2.79"          | 0.06            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-SS1) I.D Tolerance = +/-0.012"

**CRIMPLOK SYSTEM**

**CRIMPLOK SLEEVES STAINLESS**
**CRIMPLOK SLEEVES STAINLESS 304 FOR 2" HOSE - SHORT**

| Item No          | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|------------------|------|---------------|------------|----------------|-----------------|
| CSL-20202S-SS304 | 2    | SSS200208S    | 2.1250"    | 1.81"          | 0.06            |
| CSL-20204S-SS304 | 2    | SSS200216S    | 2.2500"    | 1.81"          | 0.06            |
| CSL-20206S-SS304 | 2    | SSS200224S    | 2.3750"    | 1.81"          | 0.06            |
| CSL-20207S-SS304 | 2    | SSS200228S    | 2.4375"    | 1.81"          | 0.06            |
| CSL-20208S-SS304 | 2    | SSS200232S    | 2.5000"    | 1.81"          | 0.06            |
| CSL-20209S-SS304 | 2    | SSS200236S    | 2.5625"    | 1.81"          | 0.06            |
| CSL-20210S-SS304 | 2    | SSS200240S    | 2.6250"    | 1.81"          | 0.06            |
| CSL-20211S-SS304 | 2    | SSS200244S    | 2.6875"    | 1.81"          | 0.06            |
| CSL-20212S-SS304 | 2    | SSS200248S    | 2.7500"    | 1.81"          | 0.06            |
| CSL-20213S-SS304 | 2    | SSS200252S    | 2.8125"    | 1.81"          | 0.06            |
| CSL-20214S-SS304 | 2    | SSS200256S    | 2.8750"    | 1.81"          | 0.06            |
| CSL-20215S-SS304 | 2    | SSS200260S    | 2.9375"    | 1.81"          | 0.06            |
| CSL-20300S-SS304 | 2    | SSS200300S    | 3.0000"    | 1.81"          | 0.06            |

**Product Information:** For use with regular combination nipples (CNT-XXX-SS/SS316) I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STAINLESS 304 FOR 2 1/2" HOSE**

| Item No         | Size  | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|-----------------|-------|---------------|------------|----------------|-----------------|
| CSL-25300-SS304 | 2-1/2 | SSS250300     | 3.0000"    | 3.11"          | 0.06            |
| CSL-25302-SS304 | 2-1/2 | SSS250308     | 3.1250"    | 3.11"          | 0.06            |
| CSL-25304-SS304 | 2-1/2 | SSS250316     | 3.2500"    | 3.11"          | 0.06            |
| CSL-25306-SS304 | 2-1/2 | SSS250324     | 3.3750"    | 3.11"          | 0.06            |
| CSL-25308-SS304 | 2-1/2 | SSS250332     | 3.5000"    | 3.11"          | 0.06            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-SS1) I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STAINLESS 304 FOR 2 1/2" HOSE - SHORT**

| Item No          | Size  | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|------------------|-------|---------------|------------|----------------|-----------------|
| CSL-25302S-SS304 | 2-1/2 | SSS250308S    | 3.1250"    | 2.28"          | 0.06            |
| CSL-25304S-SS304 | 2-1/2 | SSS250316S    | 3.2500"    | 2.28"          | 0.06            |
| CSL-25306S-SS304 | 2-1/2 | SSS250324S    | 3.3750"    | 2.28"          | 0.06            |
| CSL-25308S-SS304 | 2-1/2 | SSS250332S    | 3.5000"    | 2.28"          | 0.06            |

**Product Information:** For use with regular combination nipples (CNT-XXX-SS/SS316) I.D Tolerance = +/-0.012"

**CRIMPLOK SYSTEM**

**CRIMPLOK SLEEVES STAINLESS 304 FOR 3" HOSE**

| Item No         | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|-----------------|------|---------------|------------|----------------|-----------------|
| CSL-30304-SS304 | 3    | SSS300316     | 3.2500"    | 3.94"          | 0.10            |
| CSL-30306-SS304 | 3    | SSS300324     | 3.3750"    | 3.94"          | 0.10            |
| CSL-30307-SS304 | 3    | SSS300328     | 3.4375"    | 3.94"          | 0.10            |
| CSL-30308-SS304 | 3    | SSS300332     | 3.5000"    | 3.94"          | 0.10            |
| CSL-30309-SS304 | 3    | SSS300336     | 3.5625"    | 3.94"          | 0.10            |
| CSL-30310-SS304 | 3    | SSS300340     | 3.6250"    | 3.94"          | 0.10            |
| CSL-30311-SS304 | 3    | SSS300344     | 3.6875"    | 3.94"          | 0.10            |
| CSL-30312-SS304 | 3    | SSS300348     | 3.7500"    | 3.94"          | 0.10            |
| CSL-30313-SS304 | 3    | SSS300352     | 3.8125"    | 3.94"          | 0.10            |
| CSL-30314-SS304 | 3    | SSS300356     | 3.8750"    | 3.94"          | 0.10            |
| CSL-30315-SS304 | 3    | SSS300360     | 3.9375"    | 3.94"          | 0.10            |
| CSL-30400-SS304 | 3    | SSS300400     | 4.0000"    | 3.94"          | 0.10            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-SS1) I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STAINLESS 304 FOR 3" HOSE - SHORT**

| Item No          | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|------------------|------|---------------|------------|----------------|-----------------|
| CSL-30302S-SS304 | 3    | SSS300308S    | 3.1250"    | 2.44"          | 0.10            |
| CSL-30304S-SS304 | 3    | SSS300316S    | 3.2500"    | 2.44"          | 0.10            |
| CSL-30306S-SS304 | 3    | SSS300324S    | 3.3750"    | 2.44"          | 0.10            |
| CSL-30307S-SS304 | 3    | SSS300328S    | 3.4375"    | 2.44"          | 0.10            |
| CSL-30308S-SS304 | 3    | SSS300332S    | 3.5000"    | 2.44"          | 0.10            |
| CSL-30309S-SS304 | 3    | SSS300336S    | 3.5625"    | 2.44"          | 0.10            |
| CSL-30310S-SS304 | 3    | SSS300340S    | 3.6250"    | 2.44"          | 0.10            |
| CSL-30311S-SS304 | 3    | SSS300344S    | 3.6875"    | 2.44"          | 0.10            |
| CSL-30312S-SS304 | 3    | SSS300348S    | 3.7500"    | 2.44"          | 0.10            |
| CSL-30313S-SS304 | 3    | SSS300352S    | 3.8125"    | 2.44"          | 0.10            |
| CSL-30314S-SS304 | 3    | SSS300356S    | 3.8750"    | 2.44"          | 0.10            |
| CSL-30315S-SS304 | 3    | SSS300360S    | 3.9375"    | 2.44"          | 0.10            |
| CSL-30400S-SS304 | 3    | SSS300400S    | 4.0000"    | 2.44"          | 0.10            |

**Product Information:** For use with regular combination nipples (CNT-XXX-SS/SS316) I.D Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STAINLESS 304 FOR 4" HOSE**

| Item No         | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|-----------------|------|---------------|------------|----------------|-----------------|
| CSL-40404-SS304 | 4    | SSS400416     | 4.2500"    | 4.19"          | 0.10            |
| CSL-40406-SS304 | 4    | SSS400424     | 4.3750"    | 4.19"          | 0.10            |
| CSL-40408-SS304 | 4    | SSS400432     | 4.5000"    | 4.19"          | 0.10            |
| CSL-40409-SS304 | 4    | SSS400436     | 4.5625"    | 4.19"          | 0.10            |
| CSL-40410-SS304 | 4    | SSS400440     | 4.6250"    | 4.19"          | 0.10            |
| CSL-40411-SS304 | 4    | SSS400444     | 4.6875"    | 4.19"          | 0.10            |
| CSL-40412-SS304 | 4    | SSS400448     | 4.7500"    | 4.19"          | 0.10            |
| CSL-40413-SS304 | 4    | SSS400452     | 4.8125"    | 4.19"          | 0.10            |
| CSL-40414-SS304 | 4    | SSS400456     | 4.8750"    | 4.19"          | 0.10            |
| CSL-40415-SS304 | 4    | SSS400460     | 4.9375"    | 4.19"          | 0.10            |
| CSL-40500-SS304 | 4    | SSS400500     | 5.0000"    | 4.19"          | 0.10            |

**Product Information:** For use with cam and groove fitting (CGC/CGE-XXX-SS1) I.D Tolerance = +/-0.012"

**CRIMPLOK SYSTEM**

**CRIMPLOK SLEEVES STAINLESS**
**CRIMPLOK SLEEVES STAINLESS 304 FOR 4" HOSE - SHORT**

| Item No          | Size | Campbell Part | Sleeve ID" | Sleeve Length" | Wall Thickness" |
|------------------|------|---------------|------------|----------------|-----------------|
| CSL-40404S-SS304 | 4    | SSS400416S    | 4.2500"    | 3.31"          | 0.10            |
| CSL-40406S-SS304 | 4    | SSS400424S    | 4.3750"    | 3.31"          | 0.10            |
| CSL-40408S-SS304 | 4    | SSS400432S    | 4.5000"    | 3.31"          | 0.10            |
| CSL-40409S-SS304 | 4    | SSS400436S    | 4.5625"    | 3.31"          | 0.10            |
| CSL-40410S-SS304 | 4    | SSS400440S    | 4.6250"    | 3.31"          | 0.10            |
| CSL-40411S-SS304 | 4    | SSS400444S    | 4.6875"    | 3.31"          | 0.10            |
| CSL-40412S-SS304 | 4    | SSS400448S    | 4.7500"    | 3.31"          | 0.10            |
| CSL-40413S-SS304 | 4    | SSS400452S    | 4.8125"    | 3.31"          | 0.10            |
| CSL-40414S-SS304 | 4    | SSS400456S    | 4.8750"    | 3.31"          | 0.10            |
| CSL-40415S-SS304 | 4    | SSS400460S    | 4.9375"    | 3.31"          | 0.10            |
| CSL-40500S-SS304 | 4    | SSS400500S    | 5.0000"    | 3.31"          | 0.10            |

**Product Information:** For use with regular combination nipples (CNT-XXX-SS/SS316) I.D Tolerance = +/-0.012"

# Table of Contents

## Alphabetized Listing

|          |  |             |
|----------|--|-------------|
| <b>C</b> |  |             |
|          | <b>COUPLINGS</b>   | <b>1-27</b> |
|          | CRIMPLOK AIR COUPLINGS   | 1           |
|          | CRIMPLOK ALUMINUM CAM AND GROOVE COUPLINGS                       | 1           |
|          | CRIMPLOK ALUMINUM CRIMP QUICK LOCKING Q5                         | 1           |
|          | CRIMPLOK CAM AND GROOVE COUPLINGS                                | 1-2         |
|          | CRIMPLOK COMBINATION NIPPLE PLATED LONG NPT                      | 2           |
|          | CRIMPLOK COMBINATION NIPPLES                                     | 2-4         |
|          | CRIMPLOK COMBINATION NIPPLES W REL VALVE UNPLATED                | 2           |
|          | CRIMPLOK COMPOSITE CAM AND GROOVE NIPPLES AND FERRULES           | 2-3         |
|          | CRIMPLOK CRIMP COMBINATION NIPPLES PLATED STEEL                  | 2           |
|          | CRIMPLOK CRIMP COMBINATION NIPPLES STAINLESS                     | 2           |
|          | CRIMPLOK CRIMP COMPOSITE COMBINATION NIPPLES PLATED STEEL        | 2           |
|          | CRIMPLOK CRIMP COMPOSITE COMBINATION NIPPLES STAINLESS           | 2           |
|          | CRIMPLOK CRIMP COMPOSITE VICTAULIC COMBINATION NIPPLES STAINLESS | 2           |
|          | CRIMPLOK CRIMP SQUARE CUT COMBINATION NIPPLES UNPLATED           | 4           |
|          | CRIMPLOK CRIMP TURNBACK COMBINATION NIPPLES STAINLESS STEEL      | 3           |
|          | CRIMPLOK CRIMP TURNBACK COMBINATION NIPPLES STEEL                | 3           |
|          | CRIMPLOK CRIMP UNIVERSAL FITTINGS                                | 1           |
|          | CRIMPLOK CRIMP VICTAULIC COMBINATION NIPPLES PLATED STEEL        | 3           |
|          | CRIMPLOK CRIMP VICTAULIC COMBINATION NIPPLES STAINLESS           | 3           |
|          | CRIMPLOK FERRULES PLATED   | 5-11        |
|          | CRIMPLOK FERRULES STAINLESS                                      | 11-14       |
|          | CRIMPLOK FERRULES STAINLESS 304 FOR 1" HOSE                      | 12          |
|          | CRIMPLOK FERRULES STAINLESS 304 FOR 1" HOSE - HD FOR UNIVERSAL   | 12          |
|          | CRIMPLOK FERRULES STAINLESS 304 FOR 1" HOSE - LD FOR UNIVERSAL   | 13          |
|          | CRIMPLOK FERRULES STAINLESS 304 FOR 1/2" HOSE                    | 11          |
|          | CRIMPLOK FERRULES STAINLESS 304 FOR 1/2" HOSE - LD FOR UNIVERSAL | 11          |
|          | CRIMPLOK FERRULES STAINLESS 304 FOR 1-1/2" HOSE                  | 13          |
|          | CRIMPLOK FERRULES STAINLESS 304 FOR 1-1/4" HOSE                  | 13          |
|          | CRIMPLOK FERRULES STAINLESS 304 FOR 2" HOSE                      | 13          |
|          | CRIMPLOK FERRULES STAINLESS 304 FOR 2-1/2" HOSE                  | 14          |
|          | CRIMPLOK FERRULES STAINLESS 304 FOR 3" HOSE                      | 14          |
|          | CRIMPLOK FERRULES STAINLESS 304 FOR 3/4" HOSE                    | 11          |
|          | CRIMPLOK FERRULES STAINLESS 304 FOR 3/4" HOSE - HD FOR UNIVERSAL | 12          |
|          | CRIMPLOK FERRULES STAINLESS 304 FOR 3/4" HOSE - LD FOR UNIVERSAL | 12          |
|          | CRIMPLOK FERRULES STAINLESS 304 FOR 4" HOSE                      | 14          |
|          | CRIMPLOK FERRULES STAINLESS 304 FOR COMPOSITE HOSE               | 2-3         |
|          | CRIMPLOK FERRULES STEEL PLATED FOR 1" HOSE                       | 7           |
|          | CRIMPLOK FERRULES STEEL PLATED FOR 1" HOSE - HD FOR UNIVERSAL    | 6           |
|          | CRIMPLOK FERRULES STEEL PLATED FOR 1" HOSE - LD FOR UNIVERSAL    | 6           |
|          | CRIMPLOK FERRULES STEEL PLATED FOR 1/2" HOSE - LD FOR UNIVERSAL  | 5           |
|          | CRIMPLOK FERRULES STEEL PLATED FOR 1/2" HOSE - SHORT             | 6           |
|          | CRIMPLOK FERRULES STEEL PLATED FOR 1-1/2" HOSE                   | 7           |
|          | CRIMPLOK FERRULES STEEL PLATED FOR 1-1/2" HOSE - LONG            | 8           |
|          | CRIMPLOK FERRULES STEEL PLATED FOR 1-1/4" HOSE                   | 7           |
|          | CRIMPLOK FERRULES STEEL PLATED FOR 1-1/4" HOSE - LONG            | 7           |
|          | CRIMPLOK FERRULES STEEL PLATED FOR 2" HOSE                       | 8           |
|          | CRIMPLOK FERRULES STEEL PLATED FOR 2" HOSE - LONG                | 8           |
|          | CRIMPLOK FERRULES STEEL PLATED FOR 2-1/2" HOSE                   | 9           |
|          | CRIMPLOK FERRULES STEEL PLATED FOR 2-1/2" HOSE - LONG            | 9           |
|          | CRIMPLOK FERRULES STEEL PLATED FOR 3" HOSE                       | 9           |
|          | CRIMPLOK FERRULES STEEL PLATED FOR 3" HOSE - LONG                | 10          |
|          | CRIMPLOK FERRULES STEEL PLATED FOR 3/4" HOSE                     | 6           |
|          | CRIMPLOK FERRULES STEEL PLATED FOR 3/4" HOSE - HD FOR UNIVERSAL  | 5           |
|          | CRIMPLOK FERRULES STEEL PLATED FOR 3/4" HOSE - LD FOR UNIVERSAL  | 5           |
|          | CRIMPLOK FERRULES STEEL PLATED FOR 4" HOSE                       | 10          |
|          | CRIMPLOK FERRULES STEEL PLATED FOR 4" HOSE - LONG                | 10          |
|          | CRIMPLOK FERRULES STEEL PLATED FOR 6" HOSE                       | 11          |
|          | CRIMPLOK FERRULES STEEL PLATED FOR CHEMICAL COMPOSITE HOSE       | 2           |
|          | CRIMPLOK FERRULES STEEL PLATED FOR PETROLEUM COMPOSITE HOSE      | 2           |
|          | CRIMPLOK FIXED FLANGE NIPPLE STAINLESS STEEL 125 - 150#          | 4           |
|          | CRIMPLOK FIXED FLANGE NIPPLE STEEL 125 - 150#                    | 3           |
|          | CRIMPLOK HD COMBINATION NIPPLE PLATED                            | 3           |
|          | CRIMPLOK HD COMBINATION NIPPLE UNPLATED                          | 3           |
|          | CRIMPLOK HD COMBINATION NIPPLE VICTAULIC PLATED                  | 3           |
|          | CRIMPLOK HD COMBINATION NIPPLE VICTAULIC UNPLATED                | 3           |
|          | CRIMPLOK NITRILE GASKETS FOR COMPOSITE HOSE                      | 3           |
|          | CRIMPLOK SLEEVES ALUMINUM  | 15-16       |
|          | CRIMPLOK SLEEVES ALUMINUM FOR 2" HOSE                            | 15          |
|          | CRIMPLOK SLEEVES ALUMINUM FOR 3" HOSE                            | 15          |
|          | CRIMPLOK SLEEVES ALUMINUM FOR 4" HOSE                            | 16          |
|          | CRIMPLOK SLEEVES PLATED  | 16-22       |
|          | CRIMPLOK SLEEVES STAINLESS                                       | 22-27       |
|          | CRIMPLOK SLEEVES STAINLESS 304 FOR 1 1/2" HOSE                   | 24          |
|          | CRIMPLOK SLEEVES STAINLESS 304 FOR 1 1/4" HOSE                   | 23          |
|          | CRIMPLOK SLEEVES STAINLESS 304 FOR 1" HOSE                       | 23          |
|          | CRIMPLOK SLEEVES STAINLESS 304 FOR 1" HOSE - SHORT               | 23          |
|          | CRIMPLOK SLEEVES STAINLESS 304 FOR 1/2" HOSE - SHORT             | 22          |
|          | CRIMPLOK SLEEVES STAINLESS 304 FOR 1-1/2" HOSE - SHORT           | 24          |
|          | CRIMPLOK SLEEVES STAINLESS 304 FOR 1-1/4" HOSE - SHORT           | 23          |
|          | CRIMPLOK SLEEVES STAINLESS 304 FOR 2 1/2" HOSE - SHORT           | 25          |
|          | CRIMPLOK SLEEVES STAINLESS 304 FOR 2" HOSE                       | 24          |
|          | CRIMPLOK SLEEVES STAINLESS 304 FOR 2" HOSE - SHORT               | 25          |
|          | CRIMPLOK SLEEVES STAINLESS 304 FOR 3" HOSE                       | 26          |
|          | CRIMPLOK SLEEVES STAINLESS 304 FOR 3" HOSE - SHORT               | 26          |
|          | CRIMPLOK SLEEVES STAINLESS 304 FOR 3/4" HOSE                     | 22          |
|          | CRIMPLOK SLEEVES STAINLESS 304 FOR 3/4" HOSE - SHORT             | 22          |
|          | CRIMPLOK SLEEVES STAINLESS 304 FOR 4" HOSE                       | 26          |
|          | CRIMPLOK SLEEVES STAINLESS 304 FOR 4" HOSE - SHORT               | 27          |
|          | CRIMPLOK SLEEVES STEEL PLATED FOR 1 1/2" HOSE                    | 18          |
|          | CRIMPLOK SLEEVES STEEL PLATED FOR 1 1/2" HOSE - SHORT            | 18          |
|          | CRIMPLOK SLEEVES STEEL PLATED FOR 1 1/4" HOSE                    | 17          |
|          | CRIMPLOK SLEEVES STEEL PLATED FOR 1 1/4" HOSE - SHORT            | 17          |
|          | CRIMPLOK SLEEVES STEEL PLATED FOR 1" HOSE                        | 17          |
|          | CRIMPLOK SLEEVES STEEL PLATED FOR 1" HOSE - SHORT                | 17          |
|          | CRIMPLOK SLEEVES STEEL PLATED FOR 1/2" HOSE                      | 16          |
|          | CRIMPLOK SLEEVES STEEL PLATED FOR 10" HOSE                       | 22          |
|          | CRIMPLOK SLEEVES STEEL PLATED FOR 2 1/2" HOSE                    | 19          |
|          | CRIMPLOK SLEEVES STEEL PLATED FOR 2 1/2" HOSE - SHORT            | 19          |
|          | CRIMPLOK SLEEVES STEEL PLATED FOR 2" HOSE                        | 18          |
|          | CRIMPLOK SLEEVES STEEL PLATED FOR 2" HOSE - SHORT                | 19          |
|          | CRIMPLOK SLEEVES STEEL PLATED FOR 3" HOSE                        | 20          |
|          | CRIMPLOK SLEEVES STEEL PLATED FOR 3" HOSE - SHORT                | 20          |
|          | CRIMPLOK SLEEVES STEEL PLATED FOR 3/4" HOSE                      | 16          |
|          | CRIMPLOK SLEEVES STEEL PLATED FOR 3/4" HOSE - SHORT              | 16          |
|          | CRIMPLOK SLEEVES STEEL PLATED FOR 4" HOSE                        | 20          |
|          | CRIMPLOK SLEEVES STEEL PLATED FOR 4" HOSE - SHORT                | 21          |
|          | CRIMPLOK SLEEVES STEEL PLATED FOR 6" HOSE                        | 21          |
|          | CRIMPLOK SLEEVES STEEL PLATED FOR 8" HOSE                        | 21          |
|          | CRIMPLOK STAINLESS CAM AND GROOVE COUPLINGS                      | 1           |
|          | CRIMPLOK STAINLESS CAM AND GROOVE COUPLINGS WITH Q2 HANDLES      | 1           |
|          | CRIMPLOK STAINLESS CRIMP QUICK LOCKING Q5                        | 1           |
|          | CRIMPLOK SYSTEM  | 1-27        |
|          | CRIMPLOK VITON GASKETS FOR COMPOSITE HOSE                        | 3           |
| <b>H</b> |  |             |
|          | HIGH PRESSURE FEMALE STEM  | 1           |
|          | HIGH PRESSURE GROUND JOINT                                       | 1           |
|          | HIGH PRESSURE MALE STEM  | 1           |
| <b>P</b> |  |             |
|          | PART C ALUMINUM FOR COMPOSITE HOSE                               | 3           |
|          | PART E SHANK ALUMINUM CAMLOCK FOR COMPOSITE HOSE                 | 3           |

## Temperature Conversions

Start reading either Celsius or Fahrenheit degrees in the shaded column, then look for the Celsius equivalent in the left column, or the Fahrenheit equivalent in the right column.

| C     | C or F | F     | C    | C or F | F     | C    | C or F | F     |
|-------|--------|-------|------|--------|-------|------|--------|-------|
| -73   | -100   | -148  | 5.0  | 41     | 105.8 | 33.3 | 92     | 197.6 |
| -68   | -90    | -130  | 5.6  | 42     | 107.6 | 33.9 | 93     | 199.4 |
| -62   | -80    | -112  | 6.1  | 43     | 109.4 | 34.4 | 94     | 201.2 |
| -57   | -70    | -94   | 6.7  | 44     | 111.2 | 35.0 | 95     | 203.0 |
| -51   | -60    | -76   | 0.72 | 45     | 113.0 | 35.6 | 96     | 204.8 |
| -46   | -50    | -58   | 7.8  | 46     | 114.8 | 36.1 | 97     | 206.6 |
| -40   | -40    | -40   | 8.3  | 47     | 116.6 | 36.7 | 98     | 208.4 |
| -34   | -30    | -22   | 8.9  | 48     | 118.4 | 37.2 | 99     | 210.2 |
| -29   | -20    | -4    | 9.4  | 49     | 120.2 | 37.8 | 100    | 212.0 |
| -23   | -10    | 14    | 10.0 | 50     | 122.0 |      |        |       |
| -17.8 | 0      | 32    | 10.6 | 51     | 123.8 | 43   | 110    | 230   |
| -17.2 | 1      | 33.8  | 11.1 | 52     | 125.6 | 49   | 120    | 248   |
| -16.7 | 2      | 35.6  | 11.7 | 53     | 127.4 | 54   | 130    | 266   |
| -16.1 | 3      | 37.4  | 12.2 | 54     | 129.2 | 60   | 140    | 284   |
| -15.6 | 4      | 39.2  | 12.8 | 55     | 131.0 | 66   | 150    | 302   |
| -15.0 | 5      | 41.0  | 13.3 | 56     | 132.8 | 71   | 160    | 320   |
| -14.4 | 6      | 42.8  | 13.9 | 57     | 134.6 | 77   | 170    | 338   |
| -13.9 | 7      | 44.6  | 14.4 | 58     | 136.4 | 82   | 180    | 356   |
| -13.3 | 8      | 46.4  | 15.0 | 59     | 138.2 | 88   | 190    | 374   |
| -12.8 | 9      | 48.2  | 15.6 | 60     | 140.0 | 93   | 200    | 392   |
| -12.2 | 10     | 50.0  | 16.1 | 61     | 141.8 | 99   | 210    | 410   |
| -11.7 | 11     | 51.8  | 16.7 | 62     | 143.6 | 100  | 212    | 413.6 |
| -11.1 | 12     | 53.6  | 17.2 | 63     | 145.4 | 104  | 220    | 428   |
| -10.6 | 13     | 55.4  | 17.8 | 64     | 147.2 | 110  | 230    | 446   |
| -10.0 | 14     | 57.2  | 18.3 | 65     | 149.0 | 116  | 240    | 464   |
| -9.4  | 15     | 59.0  | 18.9 | 66     | 150.8 | 121  | 250    | 482   |
| -8.9  | 16     | 60.8  | 19.4 | 67     | 152.6 | 127  | 260    | 500   |
| -8.3  | 17     | 62.6  | 20.0 | 68     | 154.4 | 132  | 270    | 518   |
| -7.8  | 18     | 64.4  | 20.6 | 69     | 156.2 | 138  | 280    | 536   |
| -7.2  | 19     | 66.2  | 21.1 | 70     | 158.0 | 143  | 290    | 554   |
| -6.7  | 20     | 68.0  | 21.7 | 71     | 159.8 | 149  | 300    | 572   |
| -6.1  | 21     | 69.8  | 22.2 | 72     | 161.6 | 154  | 310    | 590   |
| -5.6  | 22     | 71.6  | 22.8 | 73     | 163.4 | 160  | 320    | 608   |
| -5.0  | 23     | 73.4  | 23.3 | 74     | 165.2 | 166  | 320    | 626   |
| -4.4  | 24     | 75.2  | 23.9 | 75     | 167.0 | 170  | 338    | 640   |
| -3.9  | 25     | 77.0  | 24.4 | 76     | 168.8 | 171  | 340    | 644   |
| -3.3  | 26     | 78.8  | 25.0 | 77     | 170.6 | 177  | 350    | 662   |
| -2.8  | 27     | 80.6  | 25.6 | 78     | 172.4 | 182  | 360    | 680   |
| -2.2  | 28     | 82.4  | 26.1 | 79     | 174.2 | 186  | 366    | 691   |
| -1.7  | 29     | 84.2  | 26.7 | 80     | 176.0 | 188  | 370    | 698   |
| -1.1  | 30     | 86.0  | 27.2 | 81     | 177.8 | 193  | 380    | 716   |
| -0.6  | 31     | 87.8  | 27.8 | 82     | 179.6 | 198  | 388    | 730   |
| 0     | 32     | 89.6  | 28.3 | 83     | 181.4 | 199  | 390    | 734   |
| 0.6   | 33     | 91.4  | 28.9 | 84     | 183.2 | 204  | 400    | 752   |
| 1.1   | 34     | 93.2  | 29.4 | 85     | 185.0 | 208  | 406    | 763   |
| 1.7   | 35     | 95.0  | 30.0 | 86     | 186.8 | 210  | 410    | 770   |
| 2.2   | 36     | 96.8  | 30.6 | 87     | 188.6 | 216  | 420    | 788   |
| 2.8   | 37     | 98.6  | 31.1 | 88     | 190.4 | 221  | 430    | 806   |
| 3.3   | 38     | 100.4 | 31.7 | 89     | 192.2 | 227  | 440    | 824   |
| 3.9   | 39     | 102.2 | 32.2 | 90     | 194.0 | 232  | 450    | 842   |
| 4.4   | 40     | 104.0 | 32.8 | 91     | 195.8 |      |        |       |

### Distance Conversions

| MM     | INCHES   |         | MM      | INCHES   |         | MM      | INCHES   |         | MM      | INCHES   |         |
|--------|----------|---------|---------|----------|---------|---------|----------|---------|---------|----------|---------|
|        | FRACTION | DECIMAL |         | FRACTION | DECIMAL |         | FRACTION | DECIMAL |         | FRACTION | DECIMAL |
| 0.3969 | 1/64     | 0.0156  | 6.7469  | 17/64    | 0.2656  | 13.0969 | 33/64    | 0.5156  | 19.4469 | 49/64    | 0.7656  |
| 0.7938 | 1/32     | 0.0312  | 7.1438  | 9/32     | 0.2812  | 13.4938 | 17/32    | 0.5312  | 19.8438 | 25/32    | 0.7812  |
| 1.1906 | 3/64     | 0.0468  | 7.5406  | 19/64    | 0.2968  | 13.8906 | 35/64    | 0.5468  | 20.2406 | 51/64    | 0.7968  |
| 1.5875 | 1/16     | 0.0625  | 7.9375  | 5/16     | 0.3125  | 14.2875 | 9/16     | 0.5625  | 20.2375 | 13/16    | 0.8125  |
| 1.9844 | 5/64     | 0.0781  | 8.3344  | 21/64    | 0.3281  | 14.6844 | 37/64    | 0.5781  | 21.0344 | 53/64    | 0.8281  |
| 2.3812 | 3/32     | 0.0937  | 8.7312  | 11/32    | 0.3437  | 15.0812 | 19/32    | 0.5937  | 21.4312 | 27/32    | 0.8437  |
| 2.7781 | 7/64     | 0.1093  | 9.1281  | 23/64    | 0.3593  | 15.4781 | 39/64    | 0.6093  | 21.8281 | 55/64    | 0.8593  |
| 3.1750 | 1/8      | 0.1250  | 9.5250  | 3/8      | 0.3750  | 15.8750 | 5/8      | 0.6250  | 22.2250 | 7/8      | 0.8750  |
| 3.5719 | 9/64     | 0.1406  | 9.9219  | 25/64    | 0.3906  | 16.2719 | 41/64    | 0.6406  | 22.6219 | 57/64    | 0.8906  |
| 3.9688 | 5/32     | 0.1562  | 10.3188 | 13/32    | 0.4062  | 16.6688 | 21/32    | 0.6562  | 23.0188 | 29/32    | 0.9062  |
| 4.3656 | 11/64    | 0.1718  | 10.7156 | 27/64    | 0.4218  | 17.0656 | 43/64    | 0.6718  | 23.4156 | 59/64    | 0.9218  |
| 4.7625 | 3/16     | 0.1875  | 11.1125 | 7/16     | 0.4375  | 17.4625 | 11/16    | 0.6875  | 23.8125 | 15/16    | 0.9375  |
| 5.1594 | 13/64    | 0.2031  | 11.5094 | 29/64    | 0.4531  | 17.8594 | 45/64    | 0.7031  | 24.2094 | 61/64    | 0.9531  |
| 5.5562 | 7/32     | 0.2187  | 11.9062 | 15/32    | 0.4687  | 18.2562 | 23/32    | 0.7187  | 24.6062 | 31/32    | 0.9687  |
| 5.9531 | 15/64    | 0.2343  | 12.3031 | 31/64    | 0.4843  | 18.6531 | 47/64    | 0.7343  | 25.0031 | 63/64    | 0.9843  |
| 6.3500 | 1/4      | 0.2500  | 12.7000 | 1/2      | 0.5000  | 19.0500 | 3/4      | 0.7500  | 25.4000 | 1        | 1.0000  |

### Pressure Conversions

| Kilo-Pascals (kPa) | Mega-Pascals (Mpa) | Bar (bar) | Kilograms per Square Centimeter (Kgf/cm 2) | lbs per Square Inch (psi) | lbs per Square Inch (psi) | Kilo-Pascals (kPa) | Mega-Pascals (Mpa) | Bar (bar) | Kilograms per Square Centimeter (Kgf/cm 2) |
|--------------------|--------------------|-----------|--|---------------------------|---------------------------|--------------------|--------------------|-----------|--|
| 100                | 0.1                | 1.00      | 1.0  | 14.50                     | 10                        | 68.9               | 0.07               | 0.7       | 0.70                                       |
| 200                | 0.2                | 2.00      | 2.0  | 29.00                     | 20                        | 137.9              | 0.14               | 1.4       | 1.41                                       |
| 300                | 0.3                | 3.00      | 3.1  | 43.50                     | 30                        | 206.8              | 0.21               | 2.1       | 2.11                                       |
| 400                | 0.4                | 4.00      | 4.1  | 58.00                     | 40                        | 275.8              | 0.28               | 2.8       | 2.81                                       |
| 500                | 0.5                | 5.00      | 5.1  | 72.50                     | 50                        | 344.7              | 0.34               | 3.4       | 3.52                                       |
| 600                | 0.6                | 6.00      | 6.1  | 87.00                     | 60                        | 413.7              | 0.41               | 4.1       | 4.22                                       |
| 700                | 0.7                | 7.00      | 7.1  | 101.50                    | 70                        | 482.6              | 0.48               | 4.8       | 4.92                                       |
| 800                | 0.8                | 8.00      | 8.2  | 116.00                    | 80                        | 551.6              | 0.55               | 5.5       | 5.63                                       |
| 900                | 0.9                | 9.00      | 9.2  | 130.50                    | 90                        | 620.5              | 0.62               | 6.2       | 6.33                                       |
| 1000               | 1.0                | 10.00     | 10.2                                       | 145.00                    | 100                       | 689.0              | 0.70               | 6.9       | 7.00                                       |
| 2000               | 2.0                | 20.00     | 20.4                                       | 290.10                    | 200                       | 1379.0             | 1.40               | 13.8      | 14.10                                      |
| 3000               | 3.0                | 30.00     | 30.6                                       | 435.10                    | 300                       | 2068.0             | 2.10               | 20.7      | 21.10                                      |
| 4000               | 4.0                | 40.00     | 40.8                                       | 580.20                    | 400                       | 2758.0             | 2.80               | 27.6      | 28.10                                      |
| 5000               | 5.0                | 50.00     | 51.0                                       | 725.20                    | 500                       | 3447.0             | 3.40               | 34.5      | 35.20                                      |
| 6000               | 6.0                | 60.00     | 61.2                                       | 870.20                    | 600                       | 4137.0             | 4.10               | 41.4      | 42.20                                      |
| 7000               | 7.0                | 70.00     | 71.4                                       | 1015.30                   | 700                       | 4826.0             | 4.80               | 48.3      | 49.20                                      |
| 8000               | 8.0                | 80.00     | 81.6                                       | 1160.30                   | 800                       | 5516.0             | 5.50               | 55.2      | 56.30                                      |
| 9000               | 9.0                | 90.00     | 91.8                                       | 1305.30                   | 900                       | 6205.0             | 6.20               | 62.1      | 63.30                                      |
| 10000              | 10.0               | 100.00    | 102.0                                      | 1450.00                   | 1000                      | 6895.0             | 6.90               | 68.9      | 70.30                                      |
| 20000              | 20.0               | 200.00    | 204.0                                      | 2901.00                   | 2000                      | 13790.0            | 13.80              | 137.9     | 140.70                                     |
| 30000              | 30.0               | 300.00    | 306.0                                      | 4351.00                   | 3000                      | 20684.0            | 20.70              | 206.8     | 211.00                                     |
| 40000              | 40.0               | 400.00    | 408.0                                      | 5802.00                   | 4000                      | 27579.0            | 27.60              | 275.8     | 281.30                                     |
| 50000              | 50.0               | 500.00    | 510.0                                      | 7252.00                   | 5000                      | 34474.0            | 34.50              | 344.7     | 351.60                                     |
| 60000              | 60.0               | 600.00    | 612.0                                      | 8702.00                   | 6000                      | 41369.0            | 41.40              | 413.7     | 421.90                                     |
| 70000              | 70.0               | 700.00    | 714.0                                      | 10153.00                  | 7000                      | 48263.0            | 48.30              | 482.6     | 492.30                                     |
| 80000              | 80.0               | 800.00    | 816.0                                      | 11603.00                  | 8000                      | 55158.0            | 55.20              | 551.6     | 562.60                                     |
| 90000              | 90.0               | 900.00    | 918.0                                      | 13053.00                  | 9000                      | 62053.0            | 62.10              | 620.5     | 632.90                                     |
| 100000             | 100.0              | 1000.00   | 1020.0                                     | 14504.00                  | 10000                     | 68948.0            | 68.90              | 689.0     | 703.00                                     |
| 200000             | 100.0              | 2000.00   | 2040.0                                     | 29008.00                  | 20000                     | 137895.0           | 137.90             | 1379.0    | 1406.00                                    |
| 300000             | 300.0              | 3000.00   | 3060.0                                     | 43511.00                  | 30000                     | 206843.0           | 206.80             | 2068.0    | 2110.00                                    |
|                    |                    |           |  |                           | 40000                     | 275790.0           | 275.80             | 2758.0    | 2813.00                                    |

### Conversion Table - Feet of Water to Inches of Mercury

| Feet of Water     | 1   | 2   | 4   | 6   | 8   | 10  | 12   | 14   | 16   | 20   | 22   | 24   | 26   | 28   | 30   | 32   | 34   |
|-------------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
| Inches of Mercury | 0.9 | 1.8 | 3.5 | 5.3 | 7.1 | 8.8 | 10.6 | 12.4 | 14.1 | 17.7 | 19.4 | 21.2 | 23.0 | 24.8 | 26.5 | 28.3 | 30.0 |



# Water Flow Pressure Loss

(PSI Per 100 Feet Of Hose)

| Flow of<br>water in<br>U.S. gal.<br>per min. | Flow of<br>water in<br>cu. feet<br>per sec. | Actual Internal Diameter, Inches |       |       |       |        |        |       |        |       |
|--|---|----------------------------------|-------|-------|-------|--------|--------|-------|--------|-------|
|  |   | 1/2"                             | 5/8"  | 3/4"  | 1"    | 1 1/4" | 1 1/2" | 2"    | 2 1/2" | 3"    |
| 0.5  | 0.001                                       | 0.4                              |       |       |       |        |        |       |        |       |
| 1.5  | 0.003                                       | 3.02                             | 1.01  | 0.42  |       |        |        |       |        |       |
| 2.5  | 0.005                                       | 7.75                             | 2.58  | 1.08  |       |        |        |       |        |       |
| 5  | 0.011                                       | 27.8                             | 9.27  | 3.86  | 0.95  | 0.32   | 0.13   |       |        |       |
| 10   | 0.022                                       | 99.5                             | 33.2  | 13.8  | 3.38  | 1.14   | 0.47   | 0.12  |        |       |
| 15   | 0.033                                       |                                  | 71.0  | 29.6  | 7.25  | 2.45   | 1.01   | 0.25  | 0.08   |       |
| 20   | 0.044                                       |                                  | 121.0 | 50.3  | 12.4  | 4.15   | 1.71   | 0.42  | 0.14   |       |
| 25   | 0.055                                       |                                  |       | 76.5  | 18.7  | 6.34   | 2.60   | 0.64  | 0.22   |       |
| 30   | 0.066                                       |                                  |       | 108.0 | 26.5  | 8.96   | 3.68   | 0.90  | 0.30   | 0.13  |
| 35   | 0.077                                       |                                  |       | 142.0 | 34.8  | 11.8   | 4.83   | 1.18  | 0.40   | 0.17  |
| 40   | 0.088                                       |                                  |       |       | 44.7  | 15.1   | 6.20   | 1.52  | 0.51   | 0.21  |
| 45   | 0.099                                       |                                  |       |       | 55.0  | 18.6   | 7.65   | 1.87  | 0.63   | 0.26  |
| 50   | 0.110                                       |                                  |       |       | 67.5  | 22.8   | 9.35   | 2.28  | 0.78   | 0.32  |
| 60   | 0.132                                       |                                  |       |       | 94.3  | 31.8   | 13.1   | 3.19  | 1.08   | 0.45  |
| 70   | 0.154                                       |                                  |       |       | 126.0 | 42.5   | 17.5   | 4.25  | 1.44   | 0.60  |
| 80   | 0.176                                       |                                  |       |       |       | 54.6   | 22.5   | 5.48  | 1.86   | 0.77  |
| 90   | 0.198                                       |                                  |       |       |       | 67.5   | 27.8   | 6.80  | 2.30   | 0.95  |
| 100  | 0.223                                       |                                  |       |       |       | 81.5   | 33.5   | 8.19  | 2.78   | 1.15  |
| 125  | 0.278                                       |                                  |       |       |       | 124.0  | 50.6   | 12.4  | 4.20   | 1.73  |
| 150  | 0.334                                       |                                  |       |       |       |        | 72.1   | 17.6  | 6.97   | 2.46  |
| 175  | 0.390                                       |                                  |       |       |       |        | 94.5   | 23.1  | 7.83   | 3.23  |
| 200  | 0.446                                       |                                  |       |       |       |        | 122.0  | 29.6  | 10.1   | 4.15  |
| 225  | 0.501                                       |                                  |       |       |       |        |        | 36.8  | 12.5   | 5.15  |
| 250  | 0.557                                       |                                  |       |       |       |        |        | 44.6  | 15.2   | 6.28  |
| 275  | 0.613                                       |                                  |       |       |       |        |        | 53.3  | 18.1   | 7.45  |
| 300  | 0.688                                       |                                  |       |       |       |        |        | 62.5  | 21.2   | 8.75  |
| 325  | 0.724                                       |                                  |       |       |       |        |        | 72.5  | 24.6   | 10.2  |
| 350  | 0.780                                       |                                  |       |       |       |        |        | 83.2  | 28.2   | 11.7  |
| 375  | 0.836                                       |                                  |       |       |       |        |        | 94.5  | 32.1   | 13.3  |
| 400  | 0.891                                       |                                  |       |       |       |        |        | 107.0 | 36.2   | 14.9  |
| 450  | 1.00  |                                  |       |       |       |        |        |       | 44.9   | 18.6  |
| 500  | 1.11  |                                  |       |       |       |        |        |       | 54.5   | 22.5  |
| 600  | 1.34  |                                  |       |       |       |        |        |       | 76.5   | 31.6  |
| 700  | 1.56  |                                  |       |       |       |        |        |       | 102.0  | 42.1  |
| 800  | 1.78  |                                  |       |       |       |        |        |       | 131.0  | 53.9  |
| 900  | 2.00  |                                  |       |       |       |        |        |       |        | 66.8  |
| 1000   | 2.23  |                                  |       |       |       |        |        |       |        | 81.4  |
| 1100   | 2.45  |                                  |       |       |       |        |        |       |        | 97.0  |
| 1200   | 2.67  |                                  |       |       |       |        |        |       |        | 114.0 |
| 1300   | 2.90  |                                  |       |       |       |        |        |       |        | 132.0 |
| 1400   | 3.12  |                                  |       |       |       |        |        |       |        |       |
| 1500   | 3.34  |                                  |       |       |       |        |        |       |        |       |
| 1600   | 3.56  |                                  |       |       |       |        |        |       |        |       |
| 1800   | 4.01  |                                  |       |       |       |        |        |       |        |       |
| 2000   | 4.45  |                                  |       |       |       |        |        |       |        |       |

The pressure loss of liquid flowing through a hose depends on the rate of flow, the hose I.D, the smoothness of the tube, the viscosity of the liquid, and the hose length. This chart shows the relationship between rate of flow, I.D and pressure loss for water at 68F with a viscosity of one centipoise. The pressure is directly proportional to the length of the hose, therefore, the data shown, can be extended by use of proportions.

## Steam Temperature - Pressure Conversion Guide

Temperature - Pressure equivalents of saturated steam gauge pressure at sea level

| Temperature |       | Lbs. per<br>Sq. Inch | Temperature |       | Lbs. per<br>Sq. Inch | Temperature |       | Lbs. per<br>Sq. Inch |
|-------------|-------|----------------------|-------------|-------|----------------------|-------------|-------|----------------------|
| F           | C     |                      | F           | C     |                      | F           | C     |                      |
| 212         | 100.0 | 0.0                  | 286         | 141.1 | 39.4                 | 336         | 168.9 | 97.1                 |
| 214         | 101.1 | 0.6                  | 287         | 141.7 | 40.3                 | 337         | 169.4 | 98.7                 |
| 216         | 102.2 | 1.2                  | 288         | 142.2 | 41.1                 | 338         | 170.0 | 100.2                |
| 218         | 103.3 | 1.8                  | 289         | 142.8 | 42.0                 | 339         | 170.6 | 101.8                |
| 220         | 104.4 | 2.5                  | 290         | 143.3 | 42.9                 | 340         | 171.1 | 103.3                |
| 222         | 105.6 | 3.2                  | 291         | 143.9 | 43.8                 | 341         | 171.7 | 105.0                |
| 224         | 106.7 | 3.9                  | 292         | 144.4 | 44.7                 | 342         | 172.2 | 106.5                |
| 226         | 107.8 | 4.6                  | 293         | 145.0 | 45.6                 | 343         | 172.8 | 108.2                |
| 228         | 108.9 | 5.3                  | 294         | 145.6 | 46.5                 | 344         | 173.3 | 109.8                |
| 230         | 110.0 | 6.1                  | 295         | 146.1 | 47.5                 | 345         | 173.9 | 111.5                |
| 232         | 111.1 | 6.9                  | 296         | 146.7 | 48.4                 | 346         | 174.4 | 113.1                |
| 234         | 112.2 | 7.7                  | 297         | 147.2 | 49.4                 | 347         | 175.0 | 114.8                |
| 236         | 113.3 | 8.5                  | 298         | 147.8 | 50.3                 | 348         | 175.6 | 116.5                |
| 238         | 114.4 | 9.4                  | 299         | 148.3 | 51.3                 | 349         | 176.1 | 118.2                |
| 240         | 115.6 | 10.3                 | 300         | 148.9 | 52.3                 | 350         | 176.7 | 119.9                |
| 242         | 116.7 | 11.2                 | 301         | 149.4 | 53.4                 | 352         | 177.8 | 123.5                |
| 244         | 117.8 | 12.1                 | 302         | 150.0 | 54.4                 | 354         | 178.9 | 127.1                |
| 246         | 118.9 | 13.1                 | 303         | 150.6 | 55.4                 | 356         | 180.0 | 130.8                |
| 248         | 120.0 | 14.1                 | 304         | 151.1 | 56.4                 | 358         | 181.1 | 134.5                |
| 250         | 121.1 | 15.1                 | 305         | 151.7 | 57.5                 | 360         | 182.2 | 138.3                |
| 252         | 122.2 | 16.2                 | 306         | 152.2 | 58.6                 | 362         | 183.3 | 142.3                |
| 254         | 123.3 | 17.3                 | 307         | 152.8 | 59.7                 | 364         | 184.4 | 146.2                |
| 256         | 124.4 | 18.4                 | 308         | 153.3 | 60.7                 | 366         | 185.6 | 150.3                |
| 258         | 125.6 | 19.6                 | 309         | 153.9 | 61.9                 | 368         | 186.7 | 154.4                |
| 260         | 126.7 | 20.7                 | 310         | 154.4 | 63.0                 | 370         | 187.8 | 158.7                |
| 261         | 127.2 | 21.4                 | 311         | 155.0 | 64.2                 | 372         | 188.9 | 163.0                |
| 262         | 127.8 | 22.0                 | 312         | 155.6 | 65.3                 | 374         | 190.0 | 167.4                |
| 263         | 128.3 | 22.6                 | 313         | 156.1 | 66.5                 | 376         | 191.1 | 171.9                |
| 264         | 128.9 | 23.2                 | 314         | 156.7 | 67.6                 | 378         | 192.2 | 176.4                |
| 265         | 129.4 | 23.9                 | 315         | 157.2 | 68.8                 | 380         | 193.3 | 181.1                |
| 266         | 130.0 | 24.5                 | 316         | 157.8 | 70.0                 | 382         | 194.4 | 185.8                |
| 267         | 130.6 | 25.2                 | 317         | 158.3 | 71.3                 | 384         | 195.6 | 190.6                |
| 268         | 131.1 | 25.8                 | 318         | 158.9 | 72.5                 | 386         | 196.7 | 195.6                |
| 269         | 131.7 | 26.5                 | 319         | 159.4 | 73.7                 | 388         | 197.8 | 200.6                |
| 270         | 132.2 | 27.2                 | 320         | 160.0 | 75.0                 | 390         | 198.9 | 205.7                |
| 271         | 132.8 | 27.9                 | 321         | 160.6 | 76.3                 | 392         | 200.0 | 210.9                |
| 272         | 133.3 | 28.6                 | 322         | 161.1 | 77.5                 | 394         | 201.1 | 216.2                |
| 273         | 133.9 | 29.3                 | 323         | 161.7 | 78.8                 | 396         | 202.2 | 221.5                |
| 274         | 134.4 | 30.0                 | 324         | 162.2 | 80.1                 | 398         | 203.3 | 227.0                |
| 275         | 135.0 | 30.8                 | 325         | 162.8 | 81.5                 | 400         | 204.4 | 232.6                |
| 276         | 135.6 | 31.5                 | 326         | 163.3 | 82.8                 | 402         | 205.5 | 238                  |
| 277         | 136.1 | 32.3                 | 327         | 163.9 | 84.2                 | 404         | 206.7 | 244                  |
| 278         | 136.7 | 33.0                 | 328         | 164.4 | 85.6                 | 406         | 207.8 | 250                  |
| 279         | 137.2 | 33.8                 | 329         | 165.0 | 87.0                 | 408         | 208.9 | 256                  |
| 280         | 137.8 | 34.5                 | 330         | 165.6 | 88.4                 | 410         | 210   | 262                  |
| 281         | 138.3 | 35.3                 | 331         | 166.1 | 89.8                 | 412         | 211.1 | 268                  |
| 282         | 138.9 | 36.1                 | 332         | 166.7 | 91.2                 | 414         | 212.2 | 275                  |
| 283         | 139.4 | 36.9                 | 333         | 167.2 | 92.7                 | 416         | 213.3 | 281                  |
| 284         | 140.0 | 37.7                 | 334         | 167.8 | 94.1                 | 418         | 214.4 | 288                  |
| 285         | 140.6 | 38.6                 | 335         | 168.3 | 95.6                 | 420         | 215.6 | 294                  |

Degrees Celsius = 5/9 (Degrees F -32)

# Open-End Flow (GPM)

|                | Pressure at Inlet, |  | Hose Length, feet |      |      |      |      |      |      |      | Pressure at Inlet, |     | Hose Length, feet |       |       |       |       |       |       |       |      |
|----------------|--------------------|--|-------------------|------|------|------|------|------|------|------|--------------------|-----|-------------------|-------|-------|-------|-------|-------|-------|-------|------|
|                | psi                |  | 25                | 50   | 75   | 100  | 125  | 150  | 200  |      | 300                | psi |                   | 25    | 50    | 75    | 100   | 125   | 150   | 200   | 300  |
| 1 /2"<br>hose  | 30                 |  | 10.4              | 6.2  | 5.6  | 4.8  | 4.3  | 3.8  | 3.3  | 2.6  | 1"<br>hose         | 30  |                   | 68.0  | 46.2  | 37.5  | 32.0  | 28.5  | 25.8  | 22.0  | 17.8 |
|                | 40                 |  | 12.1              | 8.5  | 6.2  | 5.6  | 5.0  | 4.5  | 3.8  | 3.2  |                    | 40  |                   | 79.0  | 54.4  | 44.0  | 37.5  | 33.0  | 30.0  | 25.8  | 20.8 |
|                | 50                 |  | 13.8              | 9.4  | 7.5  | 6.4  | 5.6  | 5.1  | 4.0  | 3.5  |                    | 50  |                   | 89.0  | 62.0  | 49.0  | 42.0  | 37.5  | 34.0  | 29.0  | 23.3 |
|                | 60                 |  | 15.2              | 10.4 | 8.5  | 7.1  | 6.2  | 5.6  | 4.9  | 3.8  |                    | 60  |                   | 100.0 | 68.0  | 54.4  | 46.2  | 41.8  | 37.5  | 32.0  | 25.8 |
|                | 70                 |  | 16.6              | 11.2 | 9.0  | 7.8  | 6.8  | 6.2  | 5.3  | 4.2  |                    | 70  |                   | —     | 74.0  | 59.0  | 51.0  | 45.0  | 40.8  | 37.3  | 28.0 |
|                | 80                 |  | 18.0              | 12.1 | 9.8  | 8.5  | 7.3  | 6.6  | 5.6  | 4.5  |                    | 80  |                   | —     | 79.0  | 63.0  | 54.4  | 48.0  | 43.0  | 37.5  | 30.0 |
|                | 90                 |  | 19.0              | 13.0 | 10.4 | 8.8  | 7.7  | 7.1  | 6.0  | 4.8  |                    | 90  |                   | —     | 84.0  | 68.0  | 58.0  | 51.8  | 46.2  | 40.0  | 32.0 |
| 5/8"<br>hose   | 100                |  | 20.1              | 13.8 | 11.0 | 9.4  | 8.5  | 7.5  | 6.4  | 4.9  | 100                |     | —                 | 89.0  | 71.0  | 62.0  | 54.4  | 49.0  | 42.0  | 34.0  |      |
|                | 125                |  | 22.8              | 15.5 | 12.5 | 10.5 | 9.4  | 8.5  | 7.2  | 5.8  | 125                |     | —                 | 101.0 | 80.0  | 68.0  | 62.0  | 55.8  | 47.8  | 38.0  |      |
|                | 30                 |  | 18.1              | 12.5 | 10.3 | 8.7  | 7.7  | 7.0  | 6.0  | 4.9  | 50                 |     | —                 | 110.0 | 85.0  | 72.0  | 56.0  | 58.0  | 50.0  | 42.0  |      |
|                | 40                 |  | 21.4              | 14.8 | 12.5 | 10.3 | 9.0  | 8.3  | 7.0  | 5.7  | 75                 |     | —                 | 130.0 | 110.0 | 90.0  | 80.0  | 73.0  | 64.0  | 52.0  |      |
|                | 50                 |  | 23.9              | 16.5 | 13.2 | 11.4 | 10.3 | 9.2  | 7.9  | 6.3  | 100                |     | —                 | 150.0 | 125.0 | 110.0 | 92.0  | 85.0  | 73.0  | 58.0  |      |
|                | 60                 |  | 26.5              | 18.1 | 14.8 | 12.5 | 11.2 | 10.3 | 8.7  | 7.0  | 150                |     | —                 | —     | 150.0 | 130.0 | 120.0 | 110.0 | 90.0  | 67.0  |      |
|                | 70                 |  | 27.5              | 20.0 | 16.0 | 13.7 | 12.0 | 11.0 | 10.0 | 7.6  | 50                 |     | —                 | 140.0 | 115.0 | 96.0  | 85.0  | 75.0  | 65.0  | 54.0  |      |
| 3/4"<br>hose   | 80                 |  | 30.6              | 21.4 | 16.8 | 14.8 | 13.0 | 11.8 | 10.3 | 8.3  | 75                 |     | —                 | 170.0 | 140.0 | 125.0 | 110.0 | 96.0  | 84.0  | 67.0  |      |
|                | 90                 |  | 32.5              | 22.5 | 18.1 | 15.5 | 14.0 | 12.5 | 10.5 | 8.7  | 150                |     | —                 | —     | 205.0 | 170.0 | 155.0 | 140.0 | 125.0 | 97.0  |      |
|                | 100                |  | 34.5              | 23.9 | 19.0 | 16.6 | 14.8 | 13.2 | 11.4 | 9.2  | 50                 |     | —                 | 180.0 | 150.0 | 130.0 | 120.0 | 105.0 | 90.0  | 74.0  |      |
|                | 125                |  | 39.0              | 27.0 | 21.5 | 18.5 | 16.6 | 15.0 | 12.9 | 10.5 | 75                 |     | —                 | 230.0 | 180.0 | 160.0 | 145.0 | 130.0 | 120.0 | 90.0  |      |
|                | 30                 |  | 31.0              | 21.3 | 17.2 | 14.8 | 13.0 | 11.8 | 10.2 | 8.2  | 100                |     | —                 | 260.0 | 220.0 | 180.0 | 170.0 | 150.0 | 130.0 | 105.0 |      |
|                | 40                 |  | 36.0              | 25.0 | 20.0 | 17.2 | 15.2 | 13.8 | 11.8 | 9.4  | 150                |     | —                 | —     | 260.0 | 230.0 | 205.0 | 180.0 | 160.0 | 130.0 |      |
|                | 50                 |  | 41.0              | 28.0 | 22.5 | 19.2 | 17.2 | 15.5 | 13.2 | 10.7 | 75                 |     | —                 | 480.0 | 380.0 | 330.0 | 290.0 | 270.0 | 230.0 | 180.0 |      |
| 1 1/4"<br>hose | 60                 |  | 45.5              | 31.0 | 25.0 | 21.3 | 19.0 | 17.2 | 14.8 | 11.8 | 100                |     | —                 | 550.0 | 450.0 | 380.0 | 350.0 | 310.0 | 260.0 | 215.0 |      |
|                | 70                 |  | 49.5              | 34.0 | 27.2 | 23.5 | 21.0 | 18.8 | 17.1 | 12.8 | 125                |     | —                 | —     | 550.0 | 480.0 | 425.0 | 380.0 | 330.0 | 265.0 |      |
|                | 80                 |  | 53.0              | 36.0 | 29.1 | 25.0 | 22.0 | 20.0 | 17.2 | 13.8 |                    |     |                   |       |       |       |       |       |       |       |      |
|                | 90                 |  | 56.2              | 39.0 | 31.0 | 27.0 | 23.8 | 21.3 | 18.2 | 14.8 |                    |     |                   |       |       |       |       |       |       |       |      |
|                | 100                |  | 60.0              | 41.0 | 33.0 | 28.0 | 25.0 | 22.6 | 19.2 | 15.5 |                    |     |                   |       |       |       |       |       |       |       |      |
|                | 125                |  | 68.0              | 46.0 | 37.5 | 32.0 | 23.0 | 25.8 | 21.8 | 17.5 |                    |     |                   |       |       |       |       |       |       |       |      |

## Force Chart

Force (In Pounds)

| Hose   | 25   | 50   | 75   | 100   | 150   | 200   | 250   | 300   | 500   | 1000   |
|--------|------|------|------|-------|-------|-------|-------|-------|-------|--------|
| I.D.   | PSI  | PSI  | PSI  | PSI   | PSI   | PSI   | PSI   | PSI   | PSI   | PSI    |
| 1/4"   | 1    | 2    | 4    | 5     | 7     | 10    | 12    | 15    | 25    | 49     |
| 3/8"   | 3    | 6    | 8    | 11    | 17    | 22    | 28    | 33    | 55    | 110    |
| 1/2"   | 5    | 10   | 15   | 20    | 29    | 39    | 49    | 59    | 98    | 196    |
| 3/4"   | 11   | 22   | 33   | 44    | 66    | 88    | 110   | 133   | 221   | 442    |
| 1"     | 20   | 39   | 59   | 79    | 118   | 157   | 196   | 236   | 393   | 785    |
| 1-1/4" | 31   | 61   | 92   | 123   | 184   | 245   | 307   | 368   | 614   | 1227   |
| 1-1/2" | 44   | 88   | 133  | 177   | 265   | 353   | 442   | 530   | 884   | 1767   |
| 2"     | 79   | 157  | 236  | 314   | 471   | 628   | 785   | 942   | 1571  | 3142   |
| 2-1/2" | 123  | 245  | 368  | 491   | 736   | 982   | 1227  | 1473  | 2454  | 4909   |
| 3"     | 177  | 353  | 530  | 707   | 1060  | 1414  | 1767  | 2121  | 3534  | 7069   |
| 4"     | 314  | 628  | 942  | 1257  | 1885  | 2513  | 3142  | 3770  | 6283  | 12566  |
| 5"     | 491  | 982  | 1473 | 1964  | 2945  | 3927  | 4909  | 5891  | 9818  | 19635  |
| 6"     | 707  | 1414 | 2121 | 2827  | 4241  | 5655  | 7069  | 8482  | 14137 | 28274  |
| 8"     | 1257 | 2513 | 3770 | 5027  | 7540  | 10053 | 12566 | 15080 | 25133 | 50266  |
| 10"    | 1964 | 3927 | 5891 | 7854  | 11781 | 15708 | 19635 | 23562 | 39270 | 78540  |
| 12"    | 2827 | 5655 | 8482 | 11310 | 16965 | 22620 | 28274 | 33929 | 56549 | 113098 |

# Flow Data

This table may be used to determine the pressure loss in hose connected to pneumatic tools. Hose with rough tube may have a friction loss as much as 50% greater than the represented figures. The represented figures apply to hose with smooth inner tube.

## Air Flow Pressure Loss

### PULSATING FLOW

Cubic feet free air per minute passing through 50 foot lengths of hose

| Size of Hose   | Gauge press. at line | 20  | 30  | 40   | 50   | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140 | 150  |
|--|----------------------|-----|-----|------|------|------|------|------|------|------|------|------|------|-----|------|
| Loss of pressure in pounds per square inch - 50 foot hose length |                      |     |     |      |      |      |      |      |      |      |      |      |      |     |      |
|  | 50                   | 1.8 | 5.0 | 10.1 | 18.1 |      |      |      |      |      |      |      |      |     |      |
| <b>1/2 in.</b>   | 60                   | 1.3 | 4.0 | 8.4  | 14.8 | 23.4 |      |      |      |      |      |      |      |     |      |
| <b>with</b>  | 70                   | 1.0 | 3.4 | 7.0  | 12.4 | 20.0 | 28.4 |      |      |      |      |      |      |     |      |
| <b>couplings</b>   | 80                   | 0.9 | 2.8 | 6.0  | 10.8 | 17.4 | 25.2 | 34.6 |      |      |      |      |      |     |      |
| <b>at each</b>   | 90                   | 0.8 | 2.4 | 5.4  | 9.5  | 14.8 | 22.0 | 30.5 | 41.0 |      |      |      |      |     |      |
| <b>end</b>   | 100                  | 0.7 | 2.3 | 4.8  | 8.4  | 13.3 | 19.3 | 27.2 | 36.6 |      |      |      |      |     |      |
|  | 110                  | 0.6 | 2.0 | 4.3  | 7.6  | 12.0 | 17.6 | 24.6 | 33.3 | 44.5 |      |      |      |     |      |
|  |                      |     |     |      |      |      |      |      |      |      |      |      |      |     |      |
| <b>3/4 in.</b>   | 50                   | 0.4 | 0.8 | 1.5  | 2.4  | 3.5  | 4.4  | 6.5  | 8.5  | 11.4 | 14.2 |      |      |     |      |
| <b>with</b>  | 60                   | 0.3 | 0.6 | 1.2  | 1.9  | 2.8  | 3.8  | 5.2  | 6.8  | 8.6  | 11.2 |      |      |     |      |
| <b>couplings</b>   | 70                   | 0.2 | 0.5 | 0.9  | 1.5  | 2.3  | 3.2  | 4.2  | 5.5  | 7.0  | 8.8  | 11.0 |      |     |      |
| <b>at each</b>   | 80                   | 0.2 | 0.5 | 0.8  | 1.3  | 1.9  | 2.8  | 3.6  | 4.7  | 5.8  | 7.2  | 8.8  | 10.6 |     |      |
| <b>end</b>   | 90                   | 0.2 | 0.4 | 0.7  | 1.1  | 1.6  | 2.3  | 3.1  | 4.0  | 5.0  | 6.2  | 7.5  | 9.0  |     |      |
|  | 100                  | 0.2 | 0.4 | 0.6  | 1.0  | 1.4  | 2.0  | 2.7  | 3.5  | 4.4  | 5.4  | 6.6  | 7.9  | 9.4 | 11.1 |
|  | 110                  | 0.1 | 0.3 | 0.5  | 0.9  | 1.3  | 1.8  | 2.4  | 3.1  | 3.9  | 4.9  | 5.9  | 7.1  | 8.4 | 9.9  |
|  |                      |     |     |      |      |      |      |      |      |      |      |      |      |     |      |
|  | 50                   | 0.1 | 0.2 | 0.3  | 0.5  | 0.8  | 1.1  | 1.5  | 2.0  | 2.6  | 3.5  | 4.8  | 7.0  |     |      |
| <b>1 in.</b>   | 60                   | 0.1 | 0.2 | 0.3  | 0.4  | 0.6  | 0.8  | 1.2  | 1.5  | 2.0  | 2.6  | 3.3  | 4.2  | 5.5 | 7.2  |
| <b>with</b>  | 70                   |     | 0.1 | 0.2  | 0.4  | 0.5  | 0.7  | 1.0  | 1.3  | 1.6  | 2.0  | 2.5  | 3.1  | 3.8 | 4.7  |
| <b>couplings</b>   | 80                   |     | 0.1 | 0.2  | 0.3  | 0.5  | 0.7  | 0.8  | 1.1  | 1.4  | 1.7  | 2.0  | 2.4  | 2.7 | 3.5  |
| <b>at each</b>   | 90                   |     | 0.1 | 0.2  | 0.3  | 0.4  | 0.6  | 0.7  | 0.9  | 1.2  | 1.4  | 1.7  | 2.0  | 2.4 | 2.8  |
| <b>end</b>   | 100                  |     | 0.1 | 0.2  | 0.2  | 0.4  | 0.5  | 0.6  | 0.8  | 1.0  | 1.2  | 1.5  | 1.8  | 2.1 | 2.4  |
|  | 110                  |     | 0.1 | 0.2  | 0.2  | 0.3  | 0.4  | 0.6  | 0.7  | 0.9  | 1.1  | 1.3  | 1.5  | 1.8 | 2.1  |
|  |                      |     |     |      |      |      |      |      |      |      |      |      |      |     |      |
|  | 50                   |     |     | 0.1  | 0.2  | 0.2  | 0.3  | 0.4  | 0.5  | 0.7  | 1.1  |      |      |     |      |
| <b>1 1/4 in.</b>   | 60                   |     |     |      | 0.1  | 0.2  | 0.3  | 0.3  | 0.5  | 0.6  | 0.8  | 1.0  | 1.2  | 1.5 |      |
| <b>with</b>  | 70                   |     |     |      | 0.1  | 0.2  | 0.2  | 0.3  | 0.4  | 0.5  | 0.7  | 0.8  | 1.0  | 1.3 |      |
| <b>couplings</b>   | 80                   |     |     |      |      | 0.1  | 0.2  | 0.2  | 0.3  | 0.4  | 0.5  | 0.6  | 0.7  | 0.8 | 1.0  |
| <b>at each</b>   | 90                   |     |     |      |      |      | 0.1  | 0.2  | 0.2  | 0.3  | 0.3  | 0.4  | 0.5  | 0.6 | 0.8  |
| <b>end</b>   | 100                  |     |     |      |      |      |      | 0.1  | 0.2  | 0.2  | 0.3  | 0.4  | 0.4  | 0.5 | 0.6  |
|  | 110                  |     |     |      |      |      |      |      | 0.1  | 0.2  | 0.2  | 0.3  | 0.3  | 0.4 | 0.5  |
|  |                      |     |     |      |      |      |      |      |      |      |      |      |      |     |      |
|  | 50                   |     |     |      |      |      |      | 0.1  | 0.2  | 0.2  | 0.2  | 0.3  | 0.3  | 0.4 | 0.5  |
| <b>1 1/2 in.</b>   | 60                   |     |     |      |      |      |      |      | 0.1  | 0.2  | 0.2  | 0.2  | 0.3  | 0.3 | 0.4  |
| <b>with</b>  | 70                   |     |     |      |      |      |      |      |      | 0.1  | 0.2  | 0.2  | 0.2  | 0.3 | 0.4  |
| <b>couplings</b>   | 80                   |     |     |      |      |      |      |      |      |      | 0.1  | 0.2  | 0.2  | 0.2 | 0.3  |
| <b>at each</b>   |                      |     |     |      |      |      |      |      |      |      |      | 0.1  | 0.2  | 0.2 | 0.3  |
| <b>end</b>   | 90                   |     |     |      |      |      |      |      |      |      |      |      | 0.1  | 0.2 | 0.2  |
|  | 100                  |     |     |      |      |      |      |      |      |      |      |      |      | 0.1 | 0.2  |
|  | 110                  |     |     |      |      |      |      |      |      |      |      |      |      |     | 0.1  |

For longer or shorter lengths of hose, the friction loss is proportional to the length, e.g., for 25 ft., half of the above; for 150 ft., three times the above, etc.





**BUCHANAN RUBBER LTD.**

Buchanan Rubber has been in business for over 25 years. At the time of our inception, most Industrial Hose and Coupling distributors relied on large corporations with high prices, small inventories and long lead times. Our approach to the market was to give these distributors an alternative source of supply. Buchanan Rubber's approach was to concentrate on these three business metrics and offer distributors what they could not consistently receive elsewhere in the market. This approach combined with the practice of staffing our company with Industry professionals has served our customers well over the years. Today, we continue to successfully optimize this model by providing Quality Products, Competitive Prices and Outstanding Service.

We look forward to being of service to your company.

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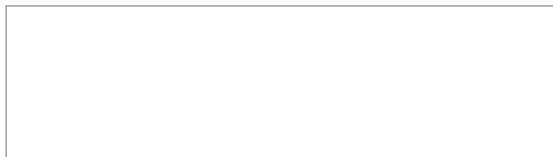
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The information presented in this brochure is to be used as a general guide. This literature and other literature from Buchanan Rubber is to provide product options for further investigation by experienced, technically versed users. Due to the varietal nature of operating conditions and applications, the user is solely responsible for making the final selection of the product with full understanding that the performance and safety criteria of the application are met. The product specifications presented here are subject to change without notice.