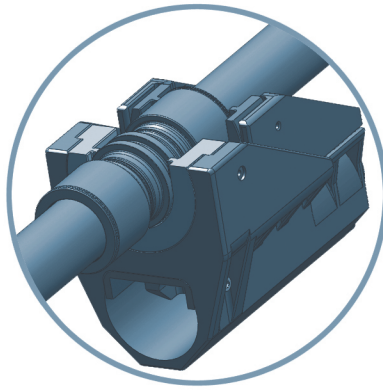
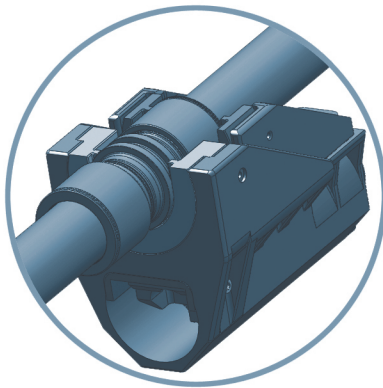


# MARINE SOLUTIONS

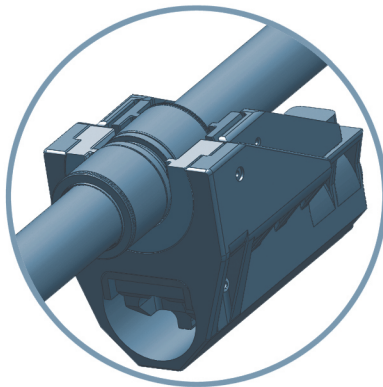
## PATENTED WELD EQUIVALENT Marine Pipe & Tube Solutions™



**PERMANENT**  
*Cold Weld Alternative*



**ASSEMBLED**  
*Within Minutes*



**ASTM F1387**

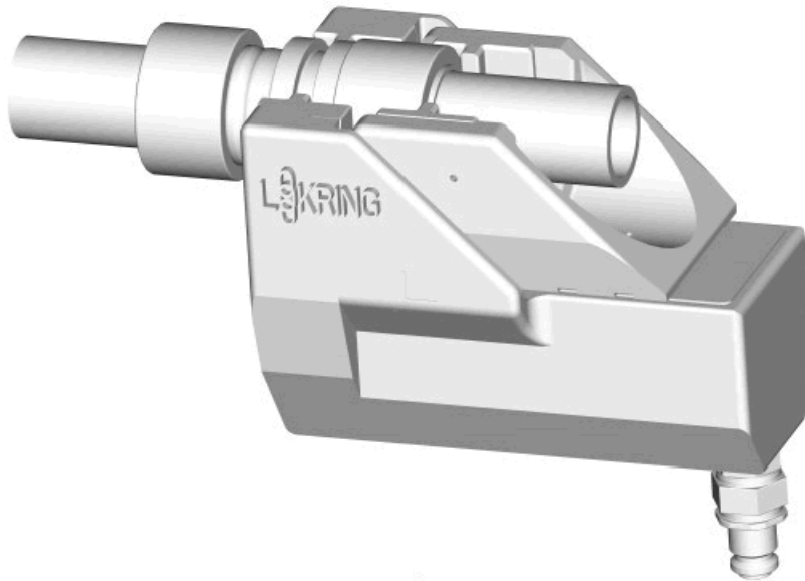




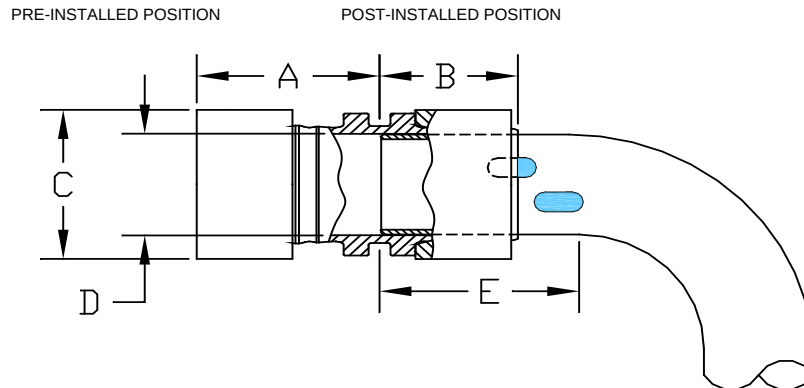
# SS-3300

## STAINLESS STEEL (CRES) PIPE FITTINGS

*A RECOMMENDED SOLUTION FOR MARINE APPLICATIONS*



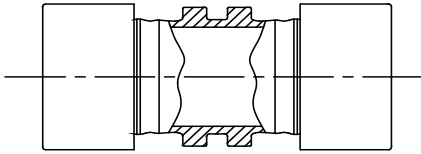
|                                     |       |         |
|-------------------------------------|-------|---------|
| General Information                 | ..... | Page 1  |
| Couplings, Reducers, Adapters       | ..... | Page 2  |
| Reducer Bushings, Uthreads, Utails  | ..... | Page 6  |
| Utails, Unions                      | ..... | Page 7  |
| Flanges, Caps, 45° Elbows           | ..... | Page 8  |
| 45° Elbows, 90° Elbows              | ..... | Page 9  |
| Tees, Reducing Tees                 | ..... | Page 10 |
| Reducing Tees, Double Reducing Tees | ..... | Page 11 |
| Drop Tees, Tee Adapters             | ..... | Page 12 |



| Fitting Size (PXX) | Qualified Wall Thickness | Insertion Depth Pre-Install, A | Insertion Depth Post-Install, B | Outside Diameter, C | Inside Diameter, D | Minimum Straight Run Before a Bend, E |
|--------------------|--------------------------|--------------------------------|---------------------------------|---------------------|--------------------|---------------------------------------|
| 1/4" (P04)         | 10/ 40/ 80               | 1.44                           | 1.05                            | 1.06                | 0.56               | 1.89                                  |
| 3/8" (P06)         | 10/ 40/ 80               | 1.60                           | 1.18                            | 1.28                | 0.69               | 2.08                                  |
| 1/2" (P08)         | 10/ 40/ 80               | 1.72                           | 1.29                            | 1.49                | 0.86               | 2.24                                  |
| 3/4" (P12)         | 10/ 40/ 80               | 1.94                           | 1.44                            | 1.61                | 1.07               | 2.52                                  |
| 1" (P16)           | 10/ 40/ 80               | 2.20                           | 1.66                            | 1.96                | 1.33               | 2.86                                  |
| 1 1/4" (P20)       | 10/ 40/ 80               | 2.51                           | 1.87                            | 2.37                | 1.68               | 3.33                                  |
| 1 1/2" (P24)       | 10/ 40/ 80               | 2.80                           | 2.05                            | 2.63                | 1.92               | 3.64                                  |

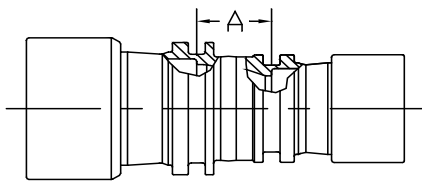
1. All dimensions are in inches.
2. Dimensions A, B, C, D & E are applicable to all fittings of the same size within this catalog.
3. For use on 316, 316L stainless steel pipe as per ASTM A312 and carbon steel pipe as per ASTM A53 or A106. See table for qualified wall thickness.
4. For tooling dimensions refer to appropriate catalog.
5. Coupling "thru-bore" design permits tube to pass completely through. All other fittings (tees, elbows etc.) have an internal travel stop.
6. Fitting material 316L Stainless Steel as per ASTM A276 or ASTM 479.
7. LOKRING SS-3300 Pipe fittings are rated at 3300 psi from -60°F to 500° and 1500 psi at 600°F. LOKRING SS-3300 Tube fittings are rated at 3300 psi from -60°F to 500°. See the SS-3300 Stainless Steel Tube Fittings catalog for details
8. NAVSEA, ABS, LLOYD'S, USCG approved.
9. Fire approved per NAVSEA, ABS and CFR 46 regulations.
10. Other part configurations than those shown and custom configurations may be available, contact Lokring™ for details
11. All dimensions are reference only and subject to change.

## SS-3300-CPL-PXX



| National Stock # | Fitting Size PXX | Piece Number    | Take - Out |
|------------------|------------------|-----------------|------------|
| 4730-01-392-3976 | P04              | 9040009         | n/a        |
| 4730-01-392-3977 | P06              | 9040086         | n/a        |
| 4730-01-392-3978 | P08              | 9040083         | n/a        |
| 4730-01-392-3983 | P12              | 9040082         | n/a        |
| 4730-01-392-3984 | P16              | 9040078         | n/a        |
|                  | P20              | 9040109         | n/a        |
|                  | P24              | 9040102         | n/a        |
|                  | P32              | consult Lokring | n/a        |

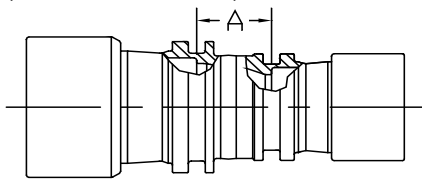
## SS-3300-RED-PXX-PYY



| National Stock # | Fitting Size PXX-PYY | Piece Number    | Take - Out, A |
|------------------|----------------------|-----------------|---------------|
|                  |                      | 9060982         | 0.65          |
|                  | P08-P06              | 9061407         | 0.68          |
|                  | P12-P08              | 9061228         | 0.83          |
|                  | P16-P08              | 9061000         | 1.02          |
|                  | P16-P12              | 9061230         | 0.90          |
|                  | P20-P16              | 9061850         | 1.04          |
|                  | P24-P06              | 9062582         | 1.75          |
|                  | P24-P12              | 9061872         | 1.85          |
|                  | P24-P16              | 9061851         | 1.70          |
|                  | P24-P20              | consult Lokring | 0.88          |
|                  | P32-P16              | consult Lokring | 2.08          |
|                  | P32-P20              | consult Lokring | 1.78          |
|                  | P32-P24              | consult Lokring | 1.26          |
|                  | P48-P16              | consult Lokring | 4.50          |
|                  | P48-P32              | consult Lokring | 4.61          |

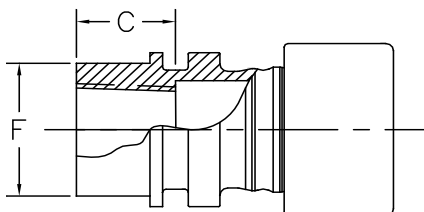
## SS-3300-RED-PXX-TYY

(PIPE TO TUBE REDUCER)



| National Stock # | Fitting Size PXX-TYY | Piece Number | Take - Out, A |
|------------------|----------------------|--------------|---------------|
|                  | P04-T04              | 9061933      | 1.11          |
|                  | P08-T04              | 9062185      | 1.12          |
|                  | P08-T08              | 9061906      | 0.82          |
|                  | P12-T08              | 9061901      | 0.64          |
|                  | P16-T08              | 9062375      | 0.64          |
|                  | P20-T20              | 9062149      | 0.84          |

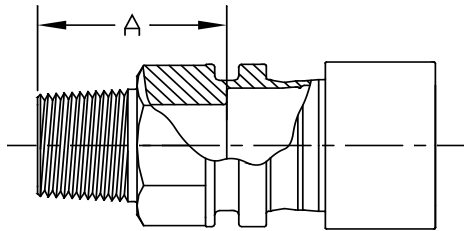
## SS-3300-ADPT-PXX-XX FPT



| National Stock # | Fitting Size PXX-XX FPT | Piece Number | Take - Out, C | Across Flats | Thread NPT |
|------------------|-------------------------|--------------|---------------|--------------|------------|
|                  | P04-1/4                 | 9060034      | 1.45          | 0.63         | 1/4 - 18   |

\*Threaded end conforms to female NPT thread

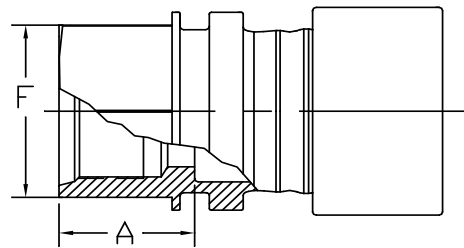
## SS-3300-ADPT-PXX-XX MPT



| National Stock # | Fitting Size<br>PXX-XX MPT | Piece<br>Number | Take -<br>Out, A | Across<br>Flats | Thread<br>NPT |
|------------------|----------------------------|-----------------|------------------|-----------------|---------------|
|                  | P04-1/4                    | consult Lokring | 1.45             | 0.63            | 1/4 - 18      |
|                  | P06-3/8                    | consult Lokring | 1.58             | 0.75            | 3/8-18        |
|                  | P08-1/2                    | 9061852         | 1.46             | 0.94            | 1/2-14        |
|                  | P12-1/2                    | consult Lokring | 1.82             | 0.87            | 1/2-14        |
|                  | P12-3/4                    | 9061927         | 1.95             | 1.12            | 3/4-14        |
|                  | P16-1                      | 9061928         | 2.26             | 1.37            | 1 - 11.5      |
|                  | P20-1 1/4                  | 9062018         | 2.37             | 1.75            | 1 1/4 -11.5   |
|                  | P24-1 1/2                  | 9062017         | 2.53             | 2.00            | 1 1/2 -11.5   |

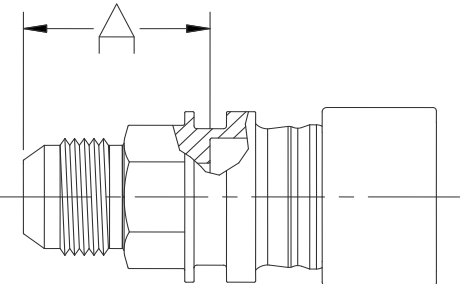
\*Threaded end conforms to MALE NPT

## SS-3300-ADPT-PXX-YY SAE



| National Stock # | Fitting Size<br>PXX-YY SAE | Piece<br>Number | Take -<br>Out, A | Across<br>Flats | Thread        |
|------------------|----------------------------|-----------------|------------------|-----------------|---------------|
|                  | P08 - 0.50                 | 9062538         | 0.82             | 1.06            | 3/4-16 UNF-2B |

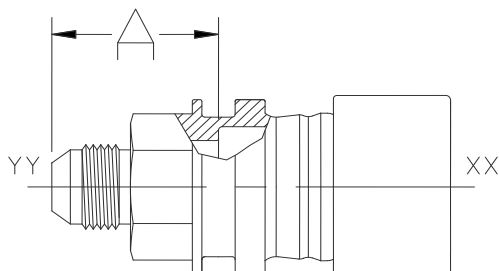
## SS-3300-ADPT-PXX-37FYY



| National Stock # | Fitting Size<br>PXX-37FYY | Piece<br>Number | Take -<br>Out, A | Across<br>Flats | Thread<br>UN |
|------------------|---------------------------|-----------------|------------------|-----------------|--------------|
|                  | P04-37F04                 | 9060035         | 1.14             | 0.69            | 7/16-20      |
|                  | P06-37F06                 | 9061684         | 1.04             | 0.63            | 9/16-18      |
|                  | P08-37F08                 | 9061109         | 1.36             | 1.11            | 3/4 - 16     |
|                  | P12-37F12                 | 9061574         | 1.60             | 1.13            | 1 1/16-12    |
|                  | P16-37F16                 | 9061575         | 1.64             | 1.38            | 1 5/16-12    |
|                  | P20-37F20                 | 9061883         | 1.68             | 1.69            | 1 5/8 -12    |

\*Threaded end conforms to SAE J514 (37° Flare)

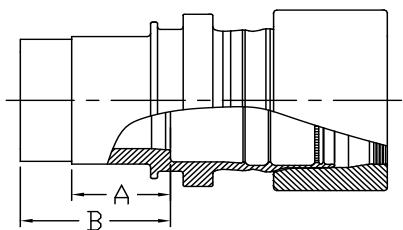
## SS-3300-RADPT-PXX-37FYY



| National Stock # | Fitting Size<br>PXX-37FYY | Piece<br>Number | Take -<br>Out, A | Across<br>Flats | Thread<br>UN |
|------------------|---------------------------|-----------------|------------------|-----------------|--------------|
|                  | P08-37F12                 | 9061573         | 1.56             | 1.12            | 1 1/16-12    |
|                  | P12-37F08                 | 9061110         | 1.39             | 1.11            | 3/4 - 16     |
|                  | P12-37F24                 | 9062735         | 3.04             | 2.00            | 1-7/8 - 12   |
|                  | P16-37F12                 | 9061111         | 1.73             | 1.13            | 1 1/16-12    |

\* Threaded end conforms to SAE J514 (37° FLARE)

## SS-3300-ADPT-PXX-YY NPS

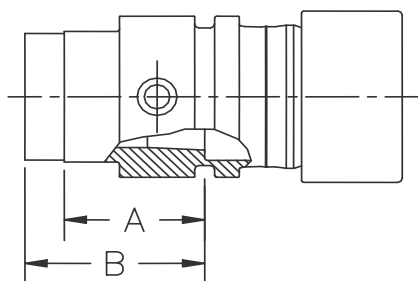


| National Stock # | Fitting Size<br>PXX-YY NPS | Piece<br>Number | Take -<br>Out, A | Take -<br>Out, B |
|------------------|----------------------------|-----------------|------------------|------------------|
|                  | P06 - 3/8                  | consult Lokring | 1.00             | 1.34             |
|                  | P08 - 1/2                  | consult Lokring | 1.00             | 1.40             |
|                  | P12 - 3/4                  | consult Lokring | 1.00             | 1.46             |
|                  | P16 - 1                    | consult Lokring | 1.00             | 1.52             |
|                  | P20 - 1 1/4                | consult Lokring | 1.00             | 1.59             |
|                  | P24 - 1 1/2                | 9062204         | 2.00             | 2.55             |

\*Non LOKRING™ end made to match up with socket weld adapter

## SS-3300-VADPT-PXX-YY NPS

(VENTED SOCKET WELD ADAPTER)

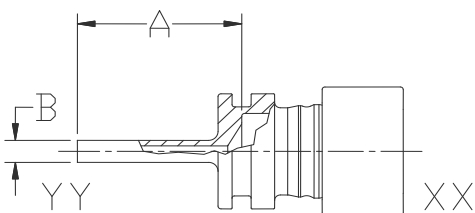


| National Stock # | Fitting Size<br>PXX-YY NPS | Piece<br>Number | Take -<br>Out, A | Take -<br>Out, B |
|------------------|----------------------------|-----------------|------------------|------------------|
|                  | P24-1-1/2                  | 9062202         | 2.00             | 2.55             |

\*Non LOKRING™ end made to match up with socket weld adapter

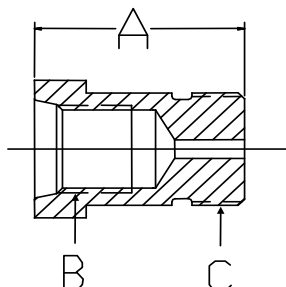
\*Cross hole sized for 1/4 NPS SCH40 nipple

## SS-3300-ADPT-PXX-YY OD STUB



| National Stock # | Fitting Size<br>PXX-YY OD | Piece<br>Number | Take -<br>Out, A | Dia,<br>B |
|------------------|---------------------------|-----------------|------------------|-----------|
|                  | P04-1/4                   | 9060981         | 1.75             | 0.25      |
|                  | P08-1/4                   | 9062133         | 1.75             | 0.25      |

## SS-3300-ADPT-XXF-YYM

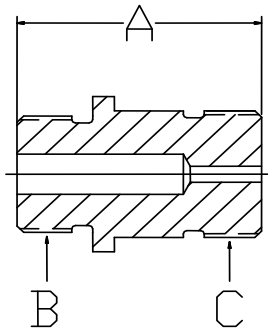


| Fitting Size<br>TXX | Piece<br>Number | Take -<br>Out, A | Thread<br>B   | Thread<br>C   |
|---------------------|-----------------|------------------|---------------|---------------|
| n/a                 | 9062255         | 0.98             | 7/16 - 20 UNF | 9/16 - 18 UNF |

\*Thread C conforms to SAE J1926/1

Thread B conforms to SAE J1926/2

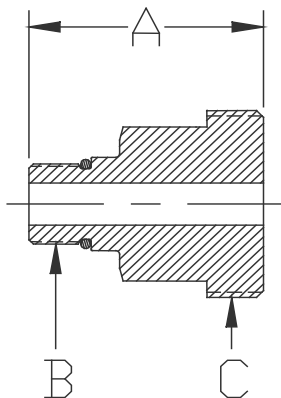
## SS-3300-ADPT-XXM-YYM



| Fitting Size PXX | Piece Number | Take - Out, A | Thread B      | Thread C      |
|------------------|--------------|---------------|---------------|---------------|
| n/a              | 9062187      | 1.15          | 7/16 - 20 UNF | 9/16 - 18 UNF |

\*Thread B & C conform to SAE J1926/1

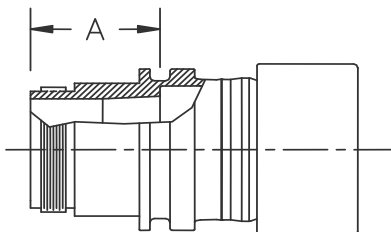
## SS-3300-ADPT-UTHRD-PXX-YY SAE (M)



| Fitting Size PXX | Piece Number | Take - Out, A | Thread B   | Thread C   |
|------------------|--------------|---------------|------------|------------|
| n/a              | 9062522      | 2.07          | 3/4-16 UNF | 1-3/4-12UN |
| n/a              | 9062523      | 2.07          | 3/4-16 UNF | 2-12 UN    |

\*Thread B conforms to SAE J1926/2

## SS-3300-ADPT-PXX-YY HOSE

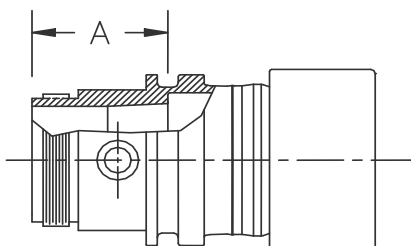


| National Stock # | Fitting Size TXX-YY HOSE | Piece Number | Take - Out, A | Thread            |
|------------------|--------------------------|--------------|---------------|-------------------|
|                  | P24-1/2                  | 9062023      | 1.83          | 1 1/2-11 1/2 NPSH |

\*Thread conforms to ANSI B2.4

## SS-3300-VADPT-PXX-YY HOSE

[VENTED HOSE ADAPTER]

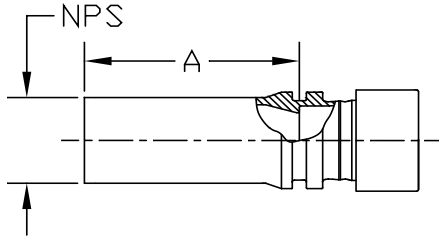


| National Stock # | Fitting Size TXX-YY HOSE | Piece Number | Take - Out, A | Thread            |
|------------------|--------------------------|--------------|---------------|-------------------|
|                  | P24-1/2                  | 9061875      | 1.83          | 1 1/2-11 1/2 NPSH |

\*Cross hole sized for 1/4 NPS SCH40 nipple

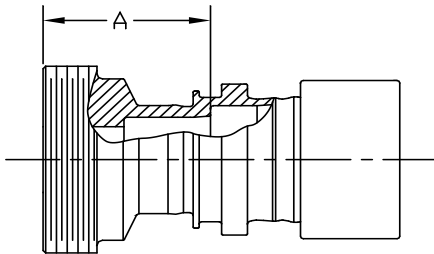
\*Thread conforms to ANSI B2.4

## SS-3300-REDB-PXX-YY NPS



| National Stock # | Fitting Size PXX-YY NPS | Piece Number    | Take - Out, A |
|------------------|-------------------------|-----------------|---------------|
|                  | P04-3/8                 | 9061222         | 2.30          |
|                  | P04-1/2                 | 9061220         | 2.43          |
|                  | P06-1/2                 | 9061221         | 2.54          |
|                  | P06-3/4                 | 9062500         | 2.31          |
|                  | P08-3/4                 | 9062015         | 2.98          |
|                  | P08-1                   | 9061909         | 3.67          |
|                  | P12-1                   | 9061945         | 3.56          |
|                  | P12-1 1/4               | 9061893         | 4.78          |
|                  | P16-1 1/4               | 9061917         | 4.12          |
|                  | P16-1 1/2               | 9061908         | 5.07          |
|                  | P16 - 2                 | consult Lokring |               |
|                  | P20-1 1/2               | 9062016         | 4.22          |
|                  | P24-2                   | consult Lokring | 6.41          |

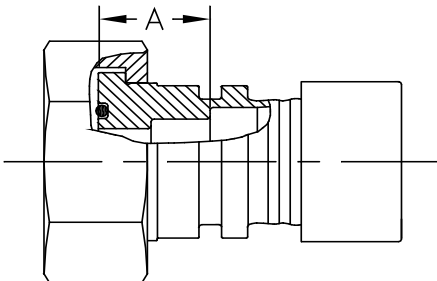
## SS-3300-UTHRD-PXX



| National Stock # | Fitting Size PXX | Piece Number    | Take - Out, A | Thread      | Across Flats |
|------------------|------------------|-----------------|---------------|-------------|--------------|
|                  | P04              | 8061446         | 1.58          | 1-3/16-12UN | 15/16        |
|                  | P06              | 8061452         | 1.64          | 1-3/8-12UN  | 1-1/6        |
|                  | P08              | 8061458         | 1.66          | 1-3/4-12UN  | 1-1/4        |
|                  | P12              | 8061461         | 1.69          | 2 -12UN     | 1-5/8        |
|                  | P16              | 8061467         | 1.94          | 2-5/16-12NS | 2.00         |
|                  | P20              | 8061473         | 2.11          | 2-3/4-12UN  | 2-3/8        |
|                  | P24              | 8061479         | 2.43          | 3-1/16-12NS | 2-5/8        |
|                  | P32              | consult Lokring | 2.63          | 3-3/4-12UN  | 3-3/16       |

\*Thread and seal face conform to Navy dwg 803-1385884

## SS-3300-UTAIL-PXX



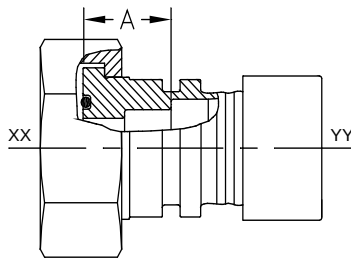
| National Stock # | Fitting Size PXX | Piece Number    | Take - Out, A | Thread      | Across Flats |
|------------------|------------------|-----------------|---------------|-------------|--------------|
|                  | P04              | 8061449         | 1.24          | 1-3/16-12UN | 1-3/8        |
|                  | P06              | 8061455         | 1.30          | 1-3/8-12UN  | 1-5/8        |
|                  | P08              | 9061283         | 1.25          | 1-3/4-12UN  | 2.00         |
|                  | P12              | 8061464         | 1.28          | 2 -12UN     | 2-1/4        |
|                  | P16              | 8061470         | 1.28          | 2-5/16-12NS | 2-9/16       |
|                  | P20              | 8061476         | 1.33          | 2-3/4-12UN  | 3.00         |
|                  | P24              | 8061482         | 1.40          | 3-1/16-12NS | 3-1/2        |
|                  | P32              | consult Lokring | 1.48          | 3-3/4-12UN  | 4-1/8        |

\*Complete with BUNA-N O-Ring

\*Thread and seal face conform to Navy dwg 803-1385884



## SS-3300-RUTAIL-PXX-PYY

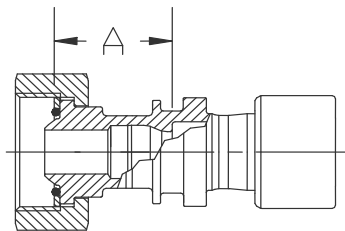


| National Stock # | Fitting Size PXX-PYY | Piece Number | Take - Out, A | Thread      | Across Flats |
|------------------|----------------------|--------------|---------------|-------------|--------------|
|                  | P08-P06              | 9062659      | 1.32          | 1 3/4-12UN  | 2.00         |
|                  | P12-P08              | 9062557      | 1.34          | 2-12 UN     | 2.25         |
|                  | P20-P16              | 9061899      | 1.53          | 2 3/4-12 UN | 3.00         |

\*Complete with BUNA-N O-Ring

\*Thread and seal face conform to Navy dwg 803-1385884

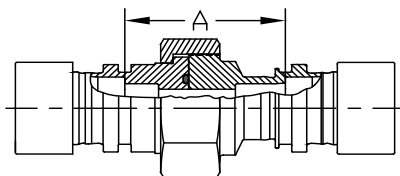
## SS-3300-1183 UTAIL-PXX



| National Stock # | Fitting Size PXX | Piece Number    | Take - Out, A | Thread          | Across Flats |
|------------------|------------------|-----------------|---------------|-----------------|--------------|
|                  | P04              | 9062138         | 1.04          | 1.089-16-UNS-2A | 1.34         |
|                  | P06              | 9062528         | 1.08          | 1.281-14-UNS-B  | 1.54         |
|                  | P08              | 9062529         | 1.05          | 1.491-14-UNS-B  | 1.78         |
|                  | P12              | 9062530         | 1.10          | 1.835-11-UNS-B  | 2.16         |
|                  | P16              | 9062531         | 1.13          | 2.165-11-UNS-B  | 2.54         |
|                  | P20              | 9062532         | 1.24          | 2.601-10-UNS-B  | 3.04         |
|                  | P24              | 9062533         | 1.20          | 2.921-10-UNS-B  | 3.39         |
|                  | P32              | consult Lokring | 1.85          | 3.521-10-UNS-B  | 4.00         |

\*Seal face conforms to MIL-F-1183

## SS-3300-UNION-PXX

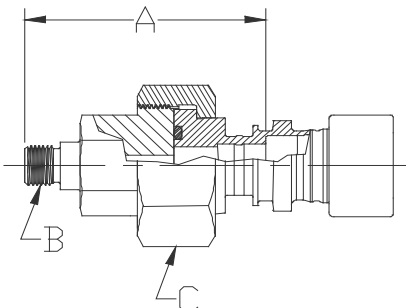


| National Stock # | Fitting Size PXX | Piece Number    | Take - Out, A | Thread      |
|------------------|------------------|-----------------|---------------|-------------|
|                  | P04              | 9061351         | 2.82          | 1-3/16-12UN |
|                  | P06              | 9061352         | 2.94          | 1-3/8-12UN  |
|                  | P08              | 9061353         | 2.91          | 1-3/4-12UN  |
|                  | P12              | 9061354         | 2.97          | 2 -12 UN    |
|                  | P16              | 9061355         | 3.22          | 2-5/16-12NS |
|                  | P20              | 9061356         | 3.44          | 2-3/4-12UN  |
|                  | P24              | 9061357         | 3.83          | 3-1/16-12NS |
|                  | P32              | consult Lokring | 4.07          | 3-3/4-12UN  |

\*Complete with BUNA-N O-Ring

\*Thread and seal face conform to Navy dwg 803-1385884

## SS-3300-ADPT-PXX-YY SAE (M)



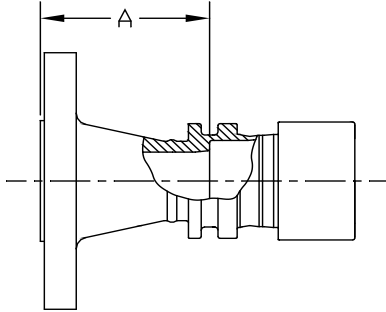
| Fitting Size PXX-YY SAE (M) | Piece Number | Take - Out, A | Across Flats | Across Flats | Thread B      | Thread C    |
|-----------------------------|--------------|---------------|--------------|--------------|---------------|-------------|
| P08-0.375                   | 9062621      | 3.26          | 1.25         | 2.00         | 9/16 - 18 UNF | 1 3/4-12 UN |

\*Complete with BUNA-N O-Ring

\*Thread and seal face of C conform to Navy dwg 803-1385884

\*Thread B conforms to SAE J1926/2

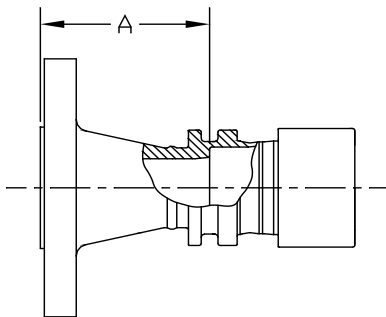
## SS-3300-FLNG150-PXX



| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A |
|------------------|------------------|--------------|---------------|
|                  | P16              | 9062198      | 2.57          |

\* Flange conforms to ASME/ANSI B16.5 pipe flange, 150 lb

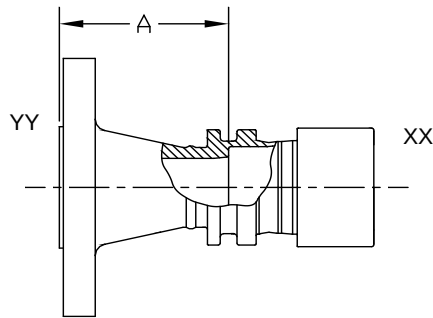
## SS-3300-FLNG600-PXX



| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A |
|------------------|------------------|--------------|---------------|
|                  | P08              | 9062639      | 2.66          |
|                  | P16              | 9062726      | 3.07          |

\* Flange conforms to ASME/ANSI B16.5 pipe flange, 600 lb

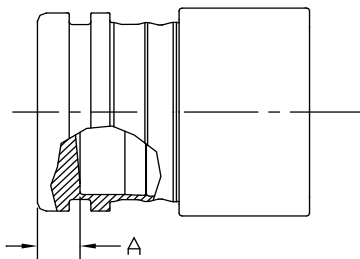
## SS-3300-RFLNG600-PXX-YYNPS



| National Stock # | Fitting Size PXX-YYNPS | Piece Number | Take - Out, A |
|------------------|------------------------|--------------|---------------|
|                  | P12-1.00               | 9062727      | 3.22          |

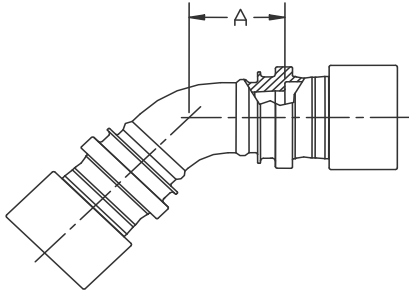
\* Flange conforms to ASME/ANSI B16.5 pipe flange, 600 lb

## SS-3300-CAP-PXX



| National Stock # | Fitting Size PXX | Piece Number    | Take - Out, A |
|------------------|------------------|-----------------|---------------|
|                  | P04              | 9061310         | 0.30          |
|                  | P06              | 9061311         | 0.35          |
|                  | P08              | 9061309         | 0.85          |
|                  | P12              | 9061308         | 0.91          |
|                  | P16              | 9061307         | 1.04          |
|                  | P20              | 9061306         | 1.11          |
|                  | P24              | 9061305         | 1.22          |
|                  | P32              | consult Lokring | 2.00          |

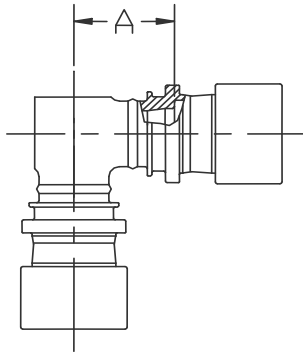
### SS-3300-EL45-PXX



| National Stock # | Fitting Size PXX | Piece Number    | Take - Out, A |
|------------------|------------------|-----------------|---------------|
|                  | P04              | 9061405         | 1.02          |
|                  | P06              | 9061404         | 0.95          |
|                  | P08              | 9061861         | 0.98          |
|                  | P12              | 9061862         | 0.82 *        |
|                  | P16              | 9061863         | 1.25          |
|                  | P20              | 9061849         | 1.42          |
|                  | P24              | 9061864         | 1.56          |
|                  | P32              | consult Lokring | 1.88          |

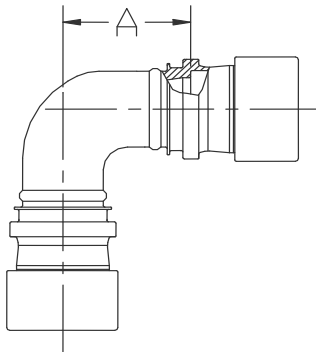
\* Dimension of 1.13 may be furnished at manufacturer's option

### SS-3300-EL90-PXX



| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A |
|------------------|------------------|--------------|---------------|
| 4730-01-392-3979 | P04              | 9061391      | 1.15          |
| 4730-01-392-3980 | P06              | 9061392      | 1.15          |
| 4730-01-392-3981 | P08              | 9061200      | 1.13          |

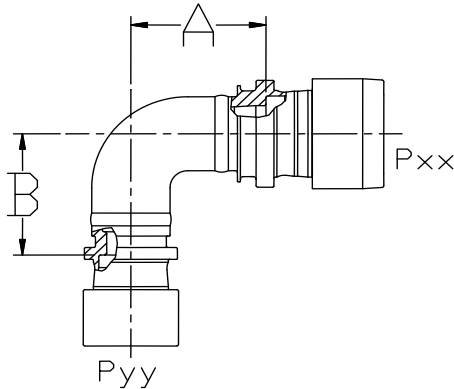
### SS-3330-EL90LR-PXX



| National Stock # | Fitting Size PXX | Piece Number    | Take - Out |
|------------------|------------------|-----------------|------------|
| 4730-01-392-3982 | P12              | 9061381         | 1.88 *     |
| 4730-01-392-3988 | P16              | 9061382         | 1.88       |
|                  | P20              | 9061281         | 2.30       |
|                  | P24              | 9061280         | 2.68       |
|                  | P32              | consult Lokring | 3.50       |

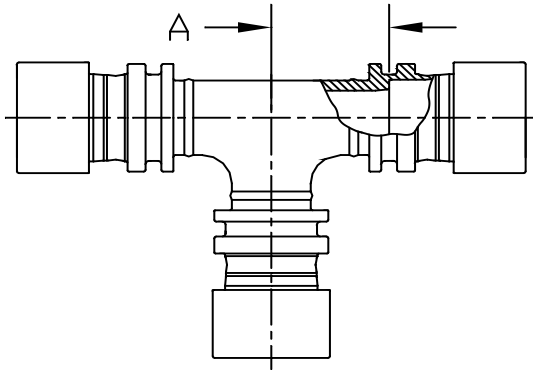
\* Dimension of 1.50 may be furnished at manufacturer's option

### SS-3300-REL90-PXX-PYY



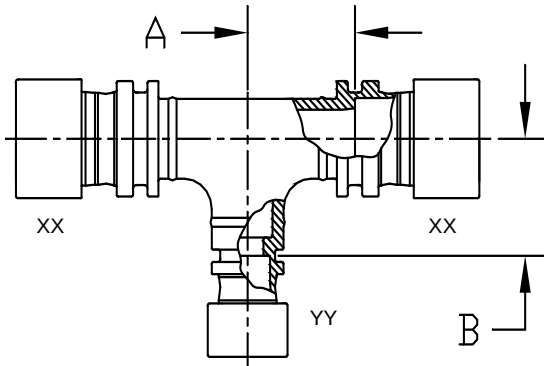
| National Stock # | Fitting Size PXX-PYY | Piece Number | Take - Out, A | Take - Out, B |
|------------------|----------------------|--------------|---------------|---------------|
|                  | P16-P08              | 9062729      | 1.88          | 2.13          |

## SS-3300-TEE-PXX



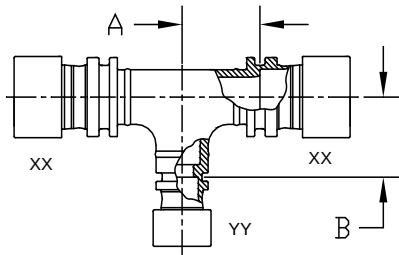
| National Stock # | Fitting Size PXX | Piece Number    | Take - Out, A |
|------------------|------------------|-----------------|---------------|
| 4730-01-392-5390 | P04              | 9061387         | 1.10          |
| 4730-01-392-5391 | P06              | 9061388         | 1.10          |
| 4730-01-392-5389 | P08              | 9061383         | 1.13          |
| 4730-01-392-5393 | P12              | 9060611         | 1.26          |
| 4730-01-392-5394 | P16              | 9061384         | 1.88          |
|                  | P20              | 9061282         | 2.30          |
|                  | P24              | 9061279         | 2.68          |
|                  | P32              | consult Lokring | 3.00          |

## SS-3300-RTEE-PXX-PYY



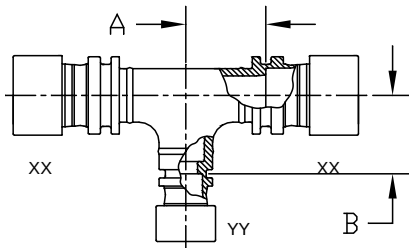
| National Stock # | Fitting Size PXX-PYY | Piece Number    | Take - Out, A | Take - Out, B |
|------------------|----------------------|-----------------|---------------|---------------|
|                  | P06-P04              | 9061577         | 1.10          | 1.10          |
|                  | P08-P04              | 9061929         | 1.13          | 1.17          |
|                  | P08-P06              | 9061406         | 1.13          | 1.10          |
|                  | P12-P04              | consult Lokring | 1.26          | 1.28          |
|                  | P12-P08              | 9062013         | 1.26          | 1.33          |
|                  | P16-P04              | consult Lokring | 1.88          | 2.64          |
|                  | P16-P08              | 9062008         | 1.88          | 2.13          |
|                  | P16-P12              | 9062505         | 1.88          | 2.03          |
|                  | P20-P08              | 9062506         | 2.30          | 3.26          |
|                  | P20-P16              | 9061854         | 2.30          | 2.50          |
|                  | P24-P08              | 9062535         | 2.68          | 2.88          |
|                  | P24-P12              | consult Lokring | 2.68          | 2.77          |
|                  | P24-P16              | 9061950         | 2.68          | 2.63          |
|                  | P24-P20              | 9061853         | 2.68          | 2.70          |
|                  | P32-P08              | consult Lokring | 2.98          | 2.63          |
|                  | P32-P12              | consult Lokring | 3.00          | 2.52          |
|                  | P32-P16              | consult Lokring | 3.00          | 2.38          |
|                  | P32-P24              | consult Lokring | 3.00          | 3.26          |
|                  | P48-P32              | consult Lokring | 4.00          | 3.48          |

## SS-3300-RTEE-PXX-TYY



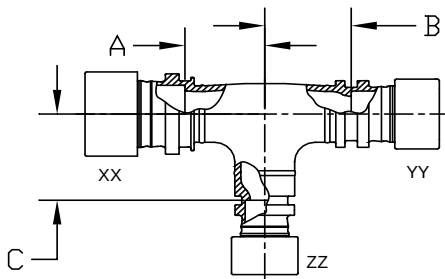
| National Stock # | Fitting Size PXX-TYY | Piece Number | Take - Out, A | Take - Out, B |
|------------------|----------------------|--------------|---------------|---------------|
|                  | P12-T12              | 9062191      | 1.26          | 1.17          |
|                  | P16-T12              | 9061808      | 1.75          | 2.20          |
|                  | P20-T12              | 9061811      | 2.21          | 2.74          |

## SS-3300-RTEE-TXX-PYY



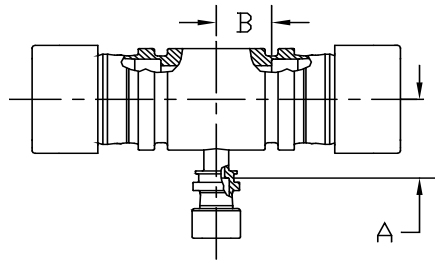
| National Stock # | Fitting Size TXX-PYY | Piece Number | Take - Out, A | Take - Out, B |
|------------------|----------------------|--------------|---------------|---------------|
|                  | T08-P04              | 9061732      | 0.96          | 1.10          |
|                  | T12-P04              | 9062136      | 1.41          | 1.62          |

## SS-3300-RRTEE-PXX-PYY-PZZ



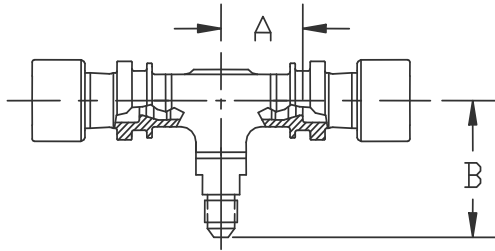
| National Stock # | Fitting Size XX-YY-ZZ | Piece Number    | Take - Out, A | Take - Out, B | Take - Out, C |
|------------------|-----------------------|-----------------|---------------|---------------|---------------|
|                  | P06-P04-P06           | 9062657         | 1.10          | 1.10          | 1.10          |
|                  | P08-P06-P04           | 9062399         | 1.13          | 1.10          | 1.17          |
|                  | P12-P08-P08           | 9062504         | 1.26          | 1.33          | 1.33          |
|                  | P16-P12-P08           | 9062503         | 1.88          | 2.02          | 2.13          |
|                  | P16-P12-P12           | 9062508         | 1.88          | 2.03          | 2.03          |
|                  | P20-P16-P16           | 9061956         | 2.30          | 2.50          | 2.50          |
|                  | P24-P20-P16           | 9062507         | 2.68          | 2.70          | 3.00          |
|                  | P32-P20-P20           | consult Lokring | 3.00          | 3.79          | 3.79          |

## SS-3300-DTEE-PXX-PYY



| National Stock # | Fitting Size PXX-PYY | Piece Number | Take - Out, A | Take - Out, B |
|------------------|----------------------|--------------|---------------|---------------|
|                  | P24 - P06            | 9062579      | 2.48          | 1.29          |

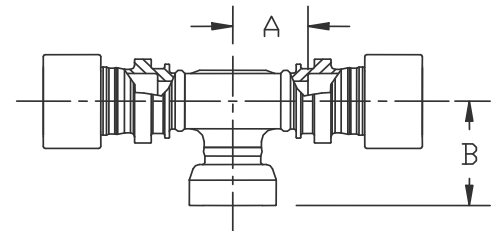
## SS-3300-TEE-PXX-37FYY



| Fitting Size PXX-37FYY | Piece Number | Take - Out, A | Take - Out, B | Across Flats | Thread UN |
|------------------------|--------------|---------------|---------------|--------------|-----------|
| P04-37F04              | 9062128      | 1.10          | 1.76          | 0.50         | 7/16-20   |

\*Threaded end conforms to SAE J514 (37° Flare)

## SS-3300-TEE-PXX-YY NPS SOC



| National Stock # | Fitting Size PXX-YY NPS | Piece Number | Take - Out, A | Take - Out, B |
|------------------|-------------------------|--------------|---------------|---------------|
|                  | P08-1/2                 | 9062129      | 1.13          | 1.63          |
|                  | P12-3/4                 | 9062130      | 1.27          | 1.82          |

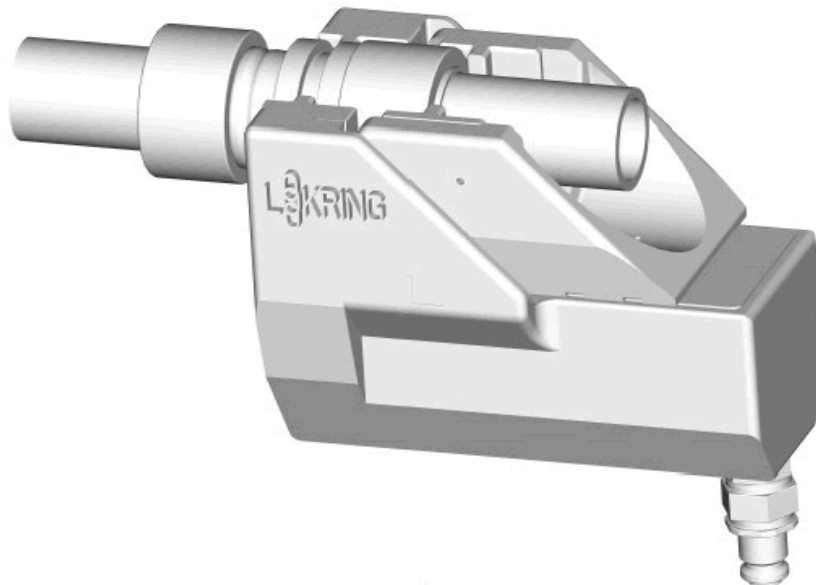
\*Drop conforms to class 3000 lb socket weld



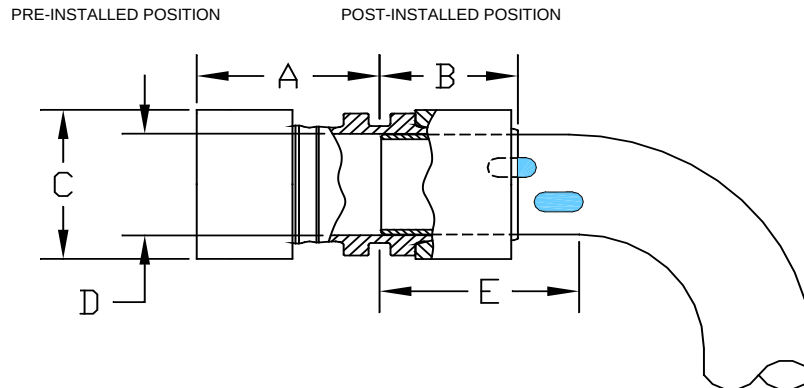
# CN-200

## COPPER NICKEL PIPE FITTINGS

*A RECOMMENDED SOLUTION FOR MARINE APPLICATIONS*



|                                              |       |         |
|----------------------------------------------|-------|---------|
| General Information                          | ..... | Page 1  |
| Couplings, Reducers, High Point Vents        | ..... | Page 2  |
| Adapters                                     | ..... | Page 3  |
| Uthreads, Utails, Unions                     | ..... | Page 6  |
| Flanges, Caps                                | ..... | Page 7  |
| 45° Elbows, 90° Elbows                       | ..... | Page 8  |
| 90° Elbow Adapters                           | ..... | Page 9  |
| 90° Elbow Adapters, 180° Elbows,<br>45° Tees | ..... | Page 10 |
| Tees, Reducing Tees                          | ..... | Page 11 |
| Double Reducing Tees                         | ..... | Page 12 |
| Drop Tees, Obtuse Tees,<br>Tee Adapters      | ..... | Page 14 |

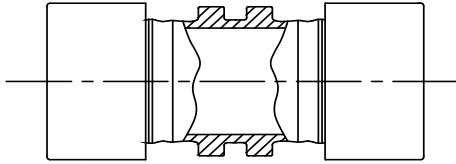


| Fitting Size (PXX) | Qualified Wall Thickness | Insertion Depth Pre-Install, A | Insertion Depth Post-Install, B | Outside Diameter, C | Inside Diameter, D | Minimum Straight Run Before a Bend, E |
|--------------------|--------------------------|--------------------------------|---------------------------------|---------------------|--------------------|---------------------------------------|
| 1/4" (P04)         | Class 200                | 1.29                           | 0.95                            | 0.84                | 0.55               | 1.50                                  |
| 3/8" (P06)         | Class 200                | 1.40                           | 1.04                            | 1.05                | 0.69               | 1.63                                  |
| 1/2" (P08)         | Class 200                | 1.61                           | 1.18                            | 1.23                | 0.85               | 1.75                                  |
| 3/4" (P12)         | Class 200                | 1.86                           | 1.36                            | 1.49                | 1.06               | 2.00                                  |
| 1" (P16)           | Class 200                | 2.17                           | 1.57                            | 1.80                | 1.33               | 2.38                                  |
| 1 1/4" (P20)       | Class 200                | 2.60                           | 1.88                            | 2.15                | 1.67               | 2.88                                  |
| 1 1/2" (P24)       | Class 200                | 2.94                           | 2.11                            | 2.42                | 1.91               | 3.25                                  |
| 2" (P32)           | Class 200                | 3.47                           | 2.68                            | 2.99                | 2.39               | 4.00                                  |

1. All dimensions in inches.
2. Dimensions A, B, C, D & E are applicable to other fittings of the same size within this catalog.
3. For use on copper-nickel pipe per MIL-T-16420 (class 200, 90/10) or copper pipe per MIL-T-24107 (0.065" wall).
4. For tooling dimensions refer to appropriate catalog.
5. Coupling "thru-bore" design permits pipe to pass completely through. All other fittings have an internal pipe stop.
6. Material per MIL-T-16420, Alloy 70600
7. LOKRING CN-200 Pipe fittings are rated at 250 psi from -60°F to 425°F
8. NAVSEA, ABS, LLOYD'S, USCG approved
9. Fire approved per NAVSEA, ABS and CFR 46 regulations
10. Other part configurations than those shown and custom configurations may be available, contact Lokring™ for details
11. All dimensions are reference only and subject to change

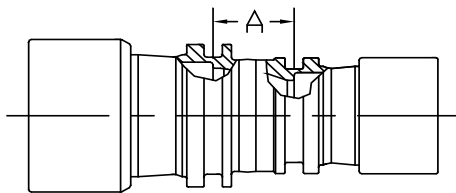


## CN-200-CPL-PXX



| National Stock # | Fitting Size PXX | Piece Number |
|------------------|------------------|--------------|
| 4730-01-365-2525 | P04              | 9040080      |
| 4730-01-365-2526 | P06              | 9040081      |
| 4730-01-365-2527 | P08              | 9040076      |
| 4730-01-365-2528 | P12              | 9040077      |
| 4730-01-365-5241 | P16              | 9040075      |
| 4730-01-365-7903 | P20              | 9040084      |
| 4730-01-365-7901 | P24              | 9040085      |
| 4730-01-365-7902 | P32              | 9040066      |

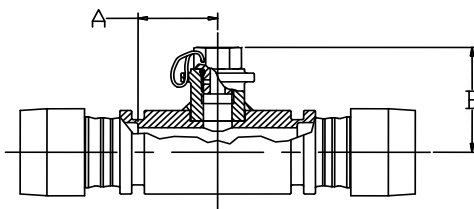
## CN-200-RED-PXX-PYY



| National Stock # | Fitting Size PXX-PYY | Piece Number | Take - Out, A |
|------------------|----------------------|--------------|---------------|
|                  | P20-P12              | 9061803      | 1.06          |
|                  | P24-P06              | 9062583      | 1.76          |

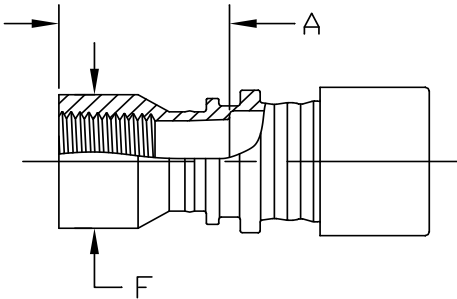
## CN-200-HPV-PXX

(High Point Vent)



| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A | Take - Out, B |
|------------------|------------------|--------------|---------------|---------------|
|                  | P04              | 9062400      | 1.09          | 1.29          |
|                  | P06              | 9062401      | 1.09          | 1.39          |
|                  | P08              | 9062402      | 1.09          | 1.51          |
|                  | P12              | 9062403      | 1.09          | 1.65          |
|                  | P16              | 9062325      | 1.14          | 1.82          |
|                  | P20              | 9062404      | 1.10          | 2.02          |
|                  | P24              | 9062405      | 1.10          | 2.16          |
|                  | P32              | 9062406      | 1.16          | 2.43          |

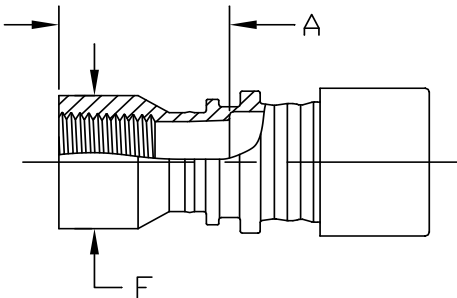
## CN-200-ADPT-PXX-YY FPT



| National Stock # | Fitting Size PXX-YY FPT | Piece Number | Take - Out, A | Across Flats, F | Thread NPT |
|------------------|-------------------------|--------------|---------------|-----------------|------------|
|                  | P04-1/4"                | 9061277      | 0.78          | 0.69            | 1/4-18     |
| 4730-01-417-8917 | P08-1/2"                | 9060588      | 0.97          | 1.00            | 1/2-14     |
|                  | P12-3/4"                | 9061149      | 0.97          | 1.13            | 3/4-14     |
|                  | P16-1"                  | 9062146      | 1.98          | 1.69            | 1-11.5     |

\*Threaded end conforms to female NPT thread

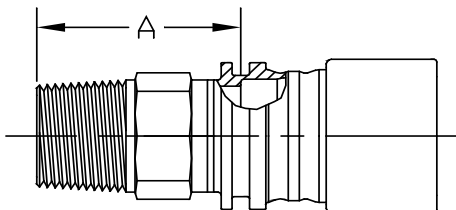
## CN-200-RADPT-PXX-YY FPT



| National Stock # | Fitting Size PXX-YY FPT | Piece Number | Take - Out, A | Across Flats, F | Thread NPT |
|------------------|-------------------------|--------------|---------------|-----------------|------------|
| 4730-01-417-8921 | P12-1/2"                | 9060612      | 0.85          | 1.25            | 1/2-14     |
| 4730-01-417-9064 | P16-1/2"                | 9060950      | 1.04          | 1.13            | 1/2-14     |
|                  | P24-1/2"                | 9062269      | 1.42          | 1.50            | 1/2-14     |

\*Threaded end conforms to female NPT thread

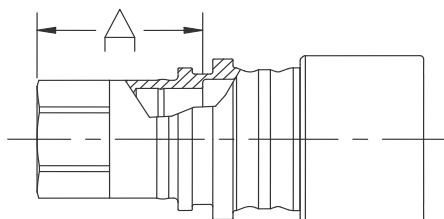
## CN-200-ADPT-PXX-XXMPT



| National Stock # | Fitting Size PXX-XXMPT | Piece Number | Take - Out, A | Across Flats | Thread NPT |
|------------------|------------------------|--------------|---------------|--------------|------------|
|                  | P04-1/4                | 9061907      | 1.49          | 0.63         | 1/4-18     |
|                  | P16-1                  | 9062147      | 2.25          | 1.37         | 1-11.5     |

\*Threaded end conforms to male NPT thread

## CN-200-ADPT-PXX-YY SAE

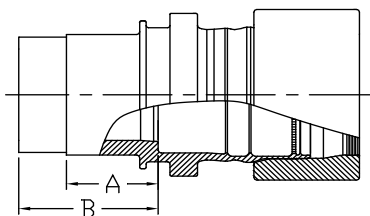


| National Stock # | Fitting Size PXX-YY SAE | Piece Number | Take - Out, A | Across Flats | Thread         |
|------------------|-------------------------|--------------|---------------|--------------|----------------|
|                  | P04-0.375               | 9062537      | 1.77          | 0.94         | 9/16-18 UNF-2B |
|                  | P12-0.375               | 9062536      | 1.40          | 0.94         | 9/16-18 UNF-2B |

\*Threaded end conforms to SAE J1926/1

(O-ring straight threaded adapter)

## CN-200-ADPT-PXX-YY NPS

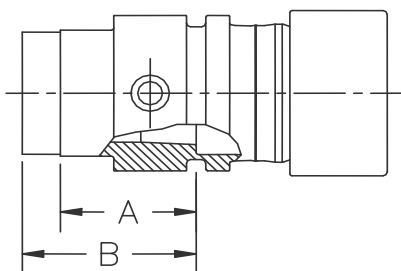


| National Stock # | Fitting Size<br>PXX-YY NPS | Piece<br>Number | Take -<br>Out, A | Take -<br>Out, B |
|------------------|----------------------------|-----------------|------------------|------------------|
|                  | P24-1 1/2                  | 9062205         | 1.95             | 2.51             |

\*Non LOKRING™ end made to match up with socket weld adapter

## CN-200-VADPT-PXX-YY NPS

[VENTED SOCKET WELD ADAPTER]

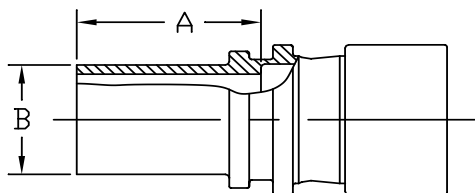


| National Stock # | Fitting Size<br>PXX-YY NPS | Piece<br>Number | Take -<br>Out, A | Take -<br>Out, B |
|------------------|----------------------------|-----------------|------------------|------------------|
|                  | P24-1 1/2                  | 9062203         | 1.95             | 2.51             |

\*Non LOKRING™ end made to match up with socket weld adapter

\*Cross hole sized for 1/4 Class 200 nipple

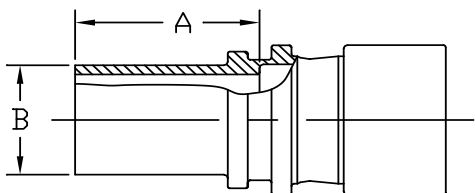
## CN-200-ADPT-PXX-YY OD STUB



| National Stock # | Fitting Size<br>PXX-YY OD | Piece<br>Number | Take -<br>Out, A | Dia, B |
|------------------|---------------------------|-----------------|------------------|--------|
|                  | P04-1/4                   | 9061885         | 1.84             | 0.25   |

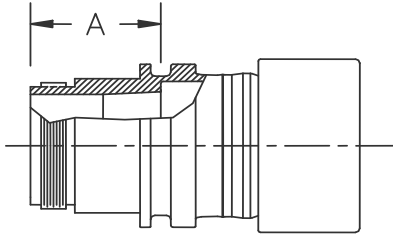
## CN-200-ADPT-PXX-YY OD STUB (70-30)

[STUB END IS 70/30 COPPER-NICKEL]



| National Stock # | Fitting Size<br>PXX-YY OD | Piece<br>Number | Take -<br>Out, A | Dia, B |
|------------------|---------------------------|-----------------|------------------|--------|
|                  | P04-1/4                   | 9062131         | 1.84             | 0.25   |
|                  | P08-1/4                   | 9062132         | 1.84             | 0.25   |

## CN-200-ADPT-PXX-YY HOSE

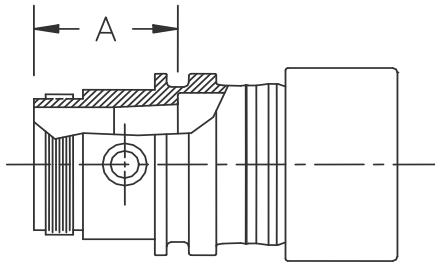


| National Stock # | Fitting Size<br>TXX-YY HOSE | Piece<br>Number | Take -<br>Out, A | Thread            |
|------------------|-----------------------------|-----------------|------------------|-------------------|
|                  | P24-1/2                     | 9061810         | 1.80             | 1 1/2-11 1/2 NPSH |

\*Thread conforms to ANSI B2.4

## CN-200-VADPT-PXX-YY HOSE

[VENTED HOSE ADAPTER]

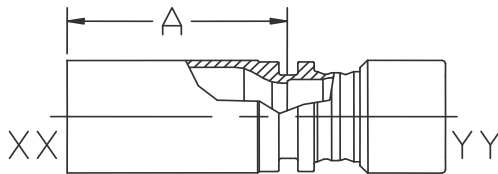


| National Stock # | Fitting Size<br>TXX-YY HOSE | Piece<br>Number | Take -<br>Out, A | Thread            |
|------------------|-----------------------------|-----------------|------------------|-------------------|
|                  | P24-1/2                     | 9061882         | 1.80             | 1 1/2-11 1/2 NPSH |

\*Cross hole sized for 1/4 Class 200 nipple

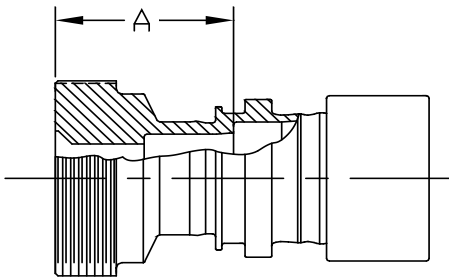
\*Thread conforms to ANSI B2.4

## CN-200-REDB-PXX-PYY



| National Stock # | Fitting Size<br>PXX-PYY | Piece<br>Number | Take -<br>Out, A |
|------------------|-------------------------|-----------------|------------------|
| 4730-01-382-9070 | P06-P04                 | 9060539         | 2.19             |
| 4730-01-382-9071 | P08-P04                 | 9060540         | 1.99             |
| 4730-01-382-9086 | P08-P06                 | 9060532         | 2.23             |
| 4730-01-382-9087 | P12-P06                 | 9060533         | 2.37             |
| 4730-01-382-9088 | P12-P08                 | 9060468         | 2.90             |
| 4730-01-382-9090 | P16-P08                 | 9060469         | 2.71             |
| 4730-01-382-9097 | P16-P12                 | 9060509         | 3.18             |
| 4730-01-382-9100 | P20-P12                 | 9060510         | 3.34             |
| 4730-01-382-9101 | P20-P16                 | 9060449         | 3.41             |
| 4730-01-382-9102 | P24-P16                 | 9060450         | 4.02             |
| 4730-01-382-9105 | P24-P20                 | 9060561         | 3.87             |
|                  | P32-P16                 | 9061802         | 4.16             |
| 4730-01-382-9106 | P32-P20                 | 9060642         | 4.60             |
| 4730-01-382-9107 | P32-P24                 | 9060643         | 3.80             |

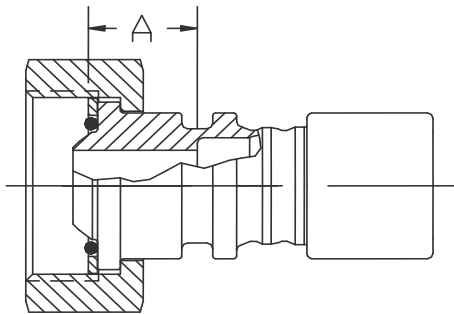
## CN-200-UTHREAD-PXX



| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A |
|------------------|------------------|--------------|---------------|
|                  | P04              | 8060802      | 1.00          |
|                  | P06              | 8060791      | 1.13          |
|                  | P08              | 8060710      | 1.16          |
|                  | P12              | 8060764      | 1.53          |
|                  | P16              | 8060694      | 1.62          |
|                  | P20              | 8060835      | 1.81          |
|                  | P24              | 8060820      | 1.92          |
|                  | P32              | 8060625      | 2.10          |

\*Thread and seal face per MIL-F-1183

## CN-200-UTAIL-PXX

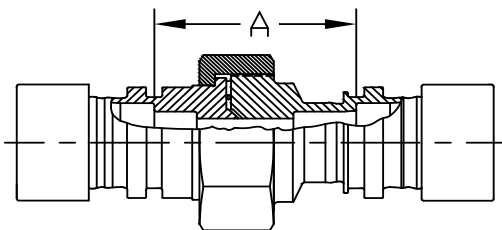


| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A |
|------------------|------------------|--------------|---------------|
| 4730-01-382-9183 | P04              | 8060804      | 0.60          |
| 4730-01-382-9184 | P06              | 8060793      | 0.65          |
| 4730-01-382-9185 | P08              | 8060712      | 0.69          |
| 4730-01-382-9187 | P12              | 8060766      | 0.74          |
| 4730-01-382-9188 | P16              | 8060692      | 0.80          |
| 4730-01-382-9189 | P20              | 8060837      | 0.88          |
| 4730-01-382-9191 | P24              | 8060822      | 1.11          |
| 4730-01-382-9193 | P32              | 8060627      | 1.27          |

\*Nut & seal face per MIL-F-1183

\*Complete with Backup Washer and O-ring

## CN-200-UNION-PXX

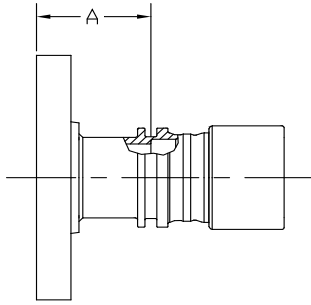


| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A | Thread          |
|------------------|------------------|--------------|---------------|-----------------|
| 4730-01-382-9110 | P04              | 9060542      | 1.62          | 1.089-16 UNS-2A |
| 4730-01-382-9112 | P06              | 9060535      | 1.80          | 1.275-14 UNS-2A |
| 4730-01-382-9115 | P08              | 9060467      | 1.86          | 1.482-14 UNS-2A |
| 4730-01-382-9116 | P12              | 9060512      | 2.31          | 1.823-11 UNS-2A |
| 4730-01-382-9118 | P16              | 9060452      | 2.45          | 2.153-11 UNS-2A |
| 4730-01-382-9119 | P20              | 9060564      | 2.73          | 2.589-10 UNS-2A |
| 4730-01-382-9181 | P24              | 9060556      | 3.06          | 2.907-10 UNS-2A |
| 4730-01-382-9182 | P32              | 9060412      | 3.42          | 3.508-10 UNS-2A |

\*Nut, thread and seal face per MIL-F-1183

\*Complete with Backup Washer and O-ring

## CN-200-FLNG150-FF-PXX



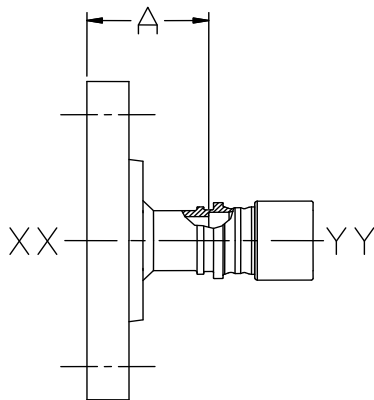
| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A |
|------------------|------------------|--------------|---------------|
|                  | P08              | 9062179      | 1.71          |
|                  | P12              | 9062180      | 1.79          |
|                  | P16              | 9062181      | 1.86          |
|                  | P20              | 9062182      | 1.95          |
|                  | P24              | 9062387      | 2.03          |
|                  | P32              | 9062388      | 2.14          |

\*Flange conforms to ASTM B16.5 for class 150

Flat face socket weld

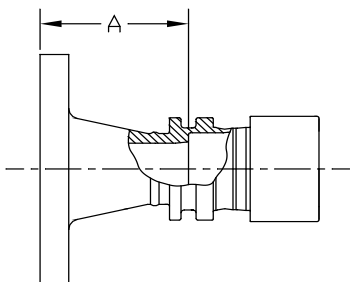
\*9062179 has raised face

## CN-200-RFLNG150-FF-PXX-PYY



| National Stock # | Fitting Size PXX-PYY | Piece Number | Take - Out, A |
|------------------|----------------------|--------------|---------------|
|                  | P32-P12              | 9062679      | 2.17          |
|                  | P32-P16              | 9062678      | 2.17          |

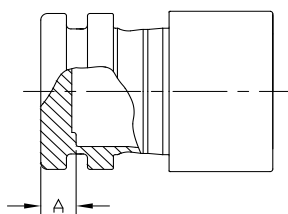
## CN-200-FLNG-PXX (250#)



| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A |
|------------------|------------------|--------------|---------------|
|                  | P04              | 9060538      | 1.53          |
|                  | P06              | 9060531      | 1.59          |
|                  | P08              | 9060465      | 1.65          |
|                  | P12              | 9060508      | 1.67          |
|                  | P16              | 9060448      | 1.81          |
|                  | P20              | 9060560      | 2.04          |
|                  | P24              | 9060553      | 2.17          |
|                  | P32              | 9060413      | 2.19          |

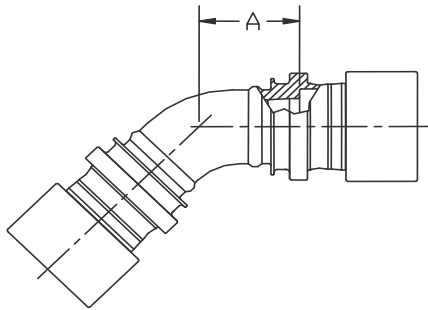
\*Flange conforms to MIL-F-20042D

## CN-200-CAP-PXX



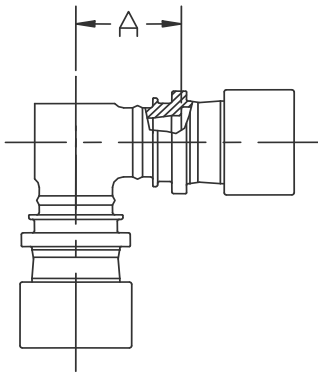
| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A |
|------------------|------------------|--------------|---------------|
|                  | P04              | 9061312      | 0.67          |
|                  | P06              | 9061313      | 0.67          |
|                  | P08              | 9061314      | 0.67          |
|                  | P12              | 9061315      | 0.69          |
|                  | P16              | 9061316      | 0.70          |
|                  | P20              | 9063117      | 0.74          |
|                  | P24              | 9061318      | 0.75          |
|                  | P32              | 9061319      | 0.77          |

### CN-200-EL45-PXX



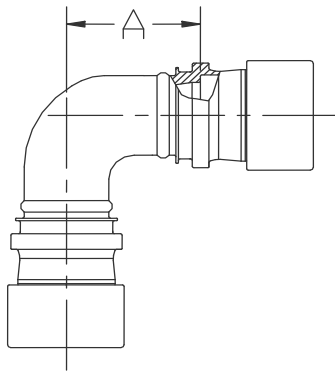
| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A |
|------------------|------------------|--------------|---------------|
| 4730-01-382-9053 | P04              | 9060947      | 0.91          |
| 4730-01-382-9055 | P06              | 9060948      | 0.88          |
| 4730-01-382-9056 | P08              | 9060949      | 1.14          |
| 4730-01-382-9057 | P12              | 9060506      | 1.14          |
| 4730-01-382-9058 | P16              | 9060446      | 1.13          |
| 4730-01-382-9059 | P20              | 9060557      | 1.35          |
| 4730-01-382-9061 | P24              | 9060550      | 1.63          |
| 4730-01-382-9063 | P32              | 9060399      | 1.93          |

### CN-200-EL90-PXX (SR)



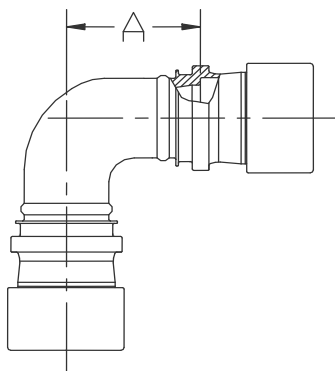
| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A |
|------------------|------------------|--------------|---------------|
| 4730-01-364-3372 | P04              | 9061151      | 0.99          |
| 4730-01-364-3373 | P06              | 9061152      | 0.99          |

### CN-200-EL90-PXX (SR)



| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A |
|------------------|------------------|--------------|---------------|
| 4730-01-364-3374 | P08              | 9061154      | 1.92          |
| 4730-01-364-3375 | P12              | 9061153      | 1.64          |
| 4730-01-382-9064 | P16              | 9060447      | 1.51          |
| 4730-01-382-9065 | P20              | 9060559      | 1.76          |
| 4730-01-382-9068 | P24              | 9060552      | 2.01          |
| 4730-01-382-9069 | P32              | 9060401      | 2.52          |

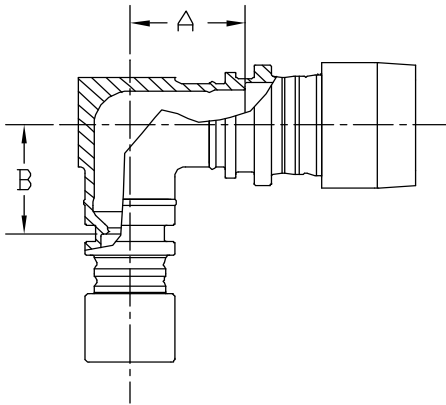
### CN-200-EL90-PXX (LR)



| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A |
|------------------|------------------|--------------|---------------|
| 4730-01-364-6023 | P16              | 9060445      | 2.01          |
| 4730-01-364-6024 | P20              | 9060558      | 2.45          |
| 4730-01-364-6025 | P24              | 9060551      | 2.95          |
| 4730-01-364-6026 | P32              | 9060400      | 3.73          |

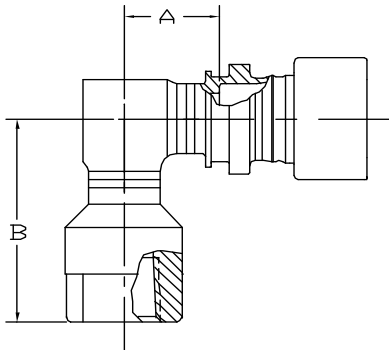
## 90° Reducing Elbows, 90° Reducing Adapters, 90° Street Elbows, 90° Uthread Elbows

### CN-200-REL90-PXX-PYY



| National Stock # | Fitting Size PXX-PYY | Piece Number | Take - Out, A | Take - Out, B |
|------------------|----------------------|--------------|---------------|---------------|
|                  | P08-P04              | 9061276      | 1.92          | 1.92          |
|                  | P12-P08              | 9060549      | 1.08          | 1.15          |
|                  | P16-P08              | 9061622      | 2.01          | 2.19          |
|                  | P16-P12              | 9061619      | 2.01          | 2.00          |
|                  | P20-P16              | 9061620      | 2.45          | 2.40          |
|                  | P24-P16              | 9061805      | 2.95          | 3.49          |
|                  | P32-P16              | 9061621      | 3.73          | 4.30          |
|                  | P32-P20              | 9061801      | 3.73          | 4.14          |

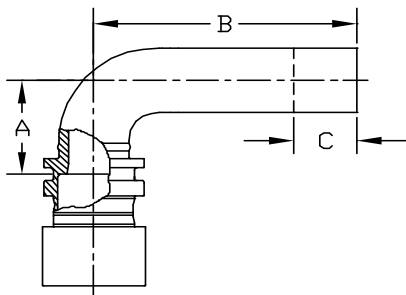
### CN-200-REL90-PXX-YY FPT



| National Stock # | Fitting Size PXX-YYFPT | Piece Number | Take - Out, A | Take - Out, B |
|------------------|------------------------|--------------|---------------|---------------|
|                  | P08-1/2                | 9060651      | 1.92          | 2.62          |
|                  | P12-1/2                | 9060645      | 1.08          | 1.85          |
|                  | P16-1/2                | 9060620      | 2.01          | 2.32          |
|                  | P20-1/2                | 9060636      | 1.10          | 0.94          |
|                  | P24-1/2                | 9062189      | 1.10          | 0.95          |

\*Thread Size 1/2-14 NPT

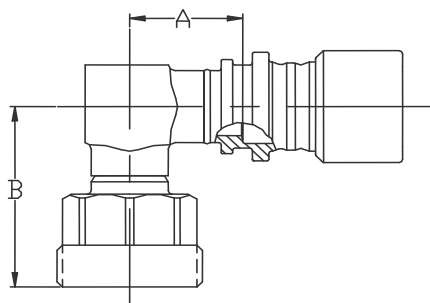
### CN-200-SEL90-PXX (Short & Long Rad.)



| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A | Take - Out, B | C*   |
|------------------|------------------|--------------|---------------|---------------|------|
|                  | P16 (SR)         | 9060658      | 1.51          | 10.14         | 7.00 |
|                  | P16 (LR)         | 9060659      | 2.01          | 10.64         | 7.00 |
|                  | P20 (LR)         | 9061411      | 2.45          | 11.03         | 6.40 |
|                  | P24(SR)          | 9061137      | 2.01          | 10.59         | 6.00 |

\*C - Maximum cut on pipe end

### CN-200-EL90UTH-PXX



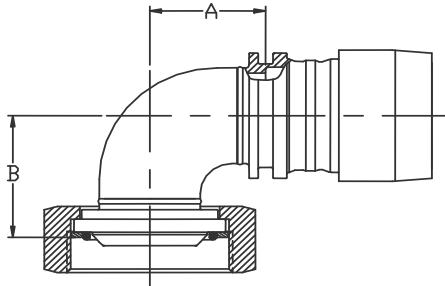
| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A | Take - Out, B |
|------------------|------------------|--------------|---------------|---------------|
|                  | P04              | 9062344      | 0.99          | 1.57          |
|                  | P06              | 9062343      | 0.99          | 1.69          |
|                  | P08              | 9062342      | 1.92          | 2.65          |
|                  | P12              | 9062341      | 1.64          | 2.45          |
|                  | P16              | 9062340      | 1.51          | 2.39          |
|                  | P20              | 9062339      | 1.76          | 2.74          |
|                  | P24              | 9062338      | 2.01          | 3.09          |
|                  | P32              | 9062337      | 2.51          | 3.63          |

\*Thread and seal face per MIL-F-1183



## 90° Utail Elbows, 180° Elbows, 45° Tees

### CN-200-EL90UTAIL-PXX

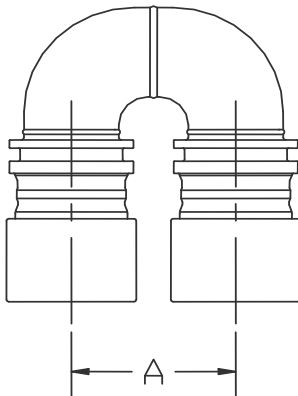


| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A | Take - Out, B |
|------------------|------------------|--------------|---------------|---------------|
|                  | P04              | 9062374      | 0.99          | 1.30          |
|                  | P06              | 9062373      | 0.99          | 1.34          |
|                  | P08              | 9062372      | 1.92          | 2.28          |
|                  | P12              | 9062371      | 1.64          | 2.00          |
|                  | P16              | 9062370      | 1.51          | 1.67          |
|                  | P20              | 9062369      | 1.76          | 2.00          |
|                  | P24              | 9062368      | 2.01          | 2.28          |
|                  | P32              | 9062367      | 2.51          | 2.80          |

\*Nut & seal face per MIL-F-1183

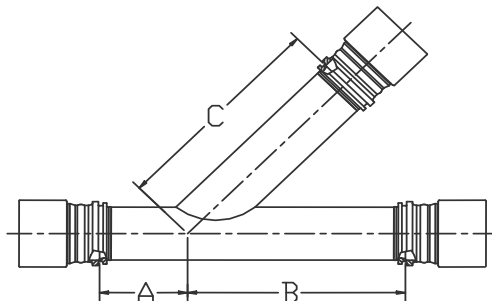
\*Complete with Backup Washer and O-ring

### CN-200-EL180-PXX



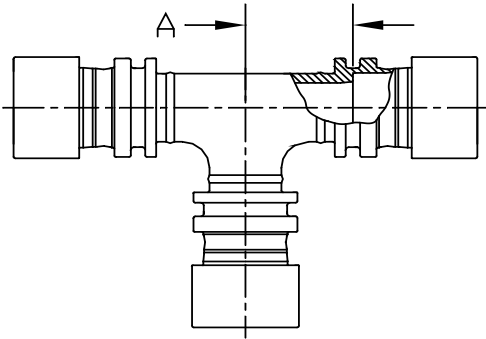
| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A |
|------------------|------------------|--------------|---------------|
|                  | P16              | 9061806      | 2.28          |

### CN-200-LAT 45-PXX



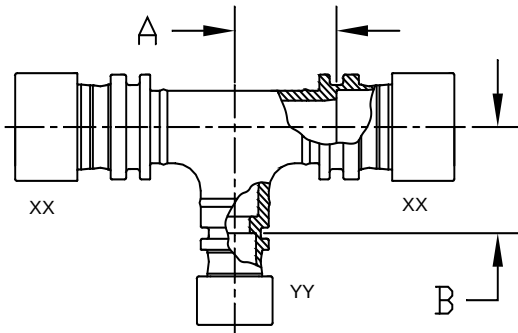
| Fitting Size PXX | Piece Number | Take - Out, A | Take - Out, B | Take - Out, C |
|------------------|--------------|---------------|---------------|---------------|
| P32              | 9061818      | 3.73          | 9.25          | 9.48          |

## CN-200-TEE-PXX



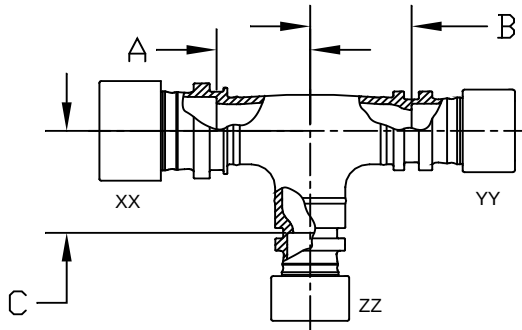
| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A |
|------------------|------------------|--------------|---------------|
| 4730-01-364-8703 | P04              | 9061262      | 0.99          |
| 4730-01-364-8704 | P06              | 9061263      | 0.92          |
| 4730-01-364-4408 | P08              | 9061155      | 1.09          |
| 4730-01-364-8705 | P12              | 9061156      | 1.19          |
| 4730-01-364-8707 | P16              | 9060451      | 1.51          |
| 4730-01-364-8708 | P20              | 9060563      | 1.90          |
| 4730-01-364-8709 | P24              | 9060555      | 2.27          |
| 4730-01-364-4409 | P32              | 9060398      | 2.52          |

## CN-200-RTEE-PXX-PYY



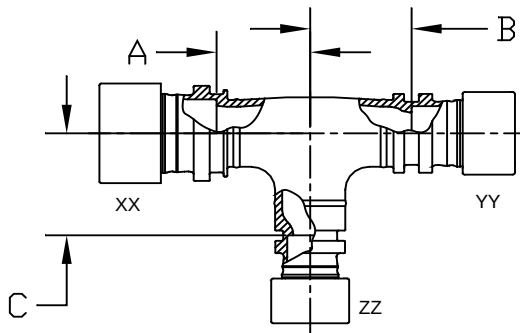
| National Stock # | Fitting Size PXX-PYY | Piece Number | Take - Out, A | Take - Out, B |
|------------------|----------------------|--------------|---------------|---------------|
| 4730-01-417-8500 | P06-P04              | 9061150      | 1.09          | 1.09          |
| 4730-01-417-8501 | P08-P04              | 9061106      | 1.09          | 1.09          |
| 4730-01-417-8504 | P08-P06              | 9061173      | 1.09          | 1.09          |
| 4730-01-417-6738 | P12-P04              | 9061169      | 1.19          | 1.21          |
| 4730-01-417-6736 | P12-P06              | 9061168      | 1.19          | 1.21          |
| 4730-01-417-6740 | P12-P08              | 9060548      | 1.19          | 1.17          |
| 4730-01-417-6739 | P16-P08              | 9060650      | 1.51          | 1.32          |
| 4730-01-417-6742 | P16-P12              | 9060647      | 1.51          | 1.13          |
|                  | P20-P04              | 9061625      | 1.89          | 1.88          |
| 4730-01-417-6741 | P20-P08              | 9060660      | 1.88          | 1.49          |
| 4730-01-417-6745 | P20-P12              | 9060646      | 1.88          | 1.30          |
| 4730-01-417-6743 | P20-P16              | 9060626      | 1.88          | 1.68          |
| 4730-01-417-6744 | P24-P08              | 9060601      | 2.26          | 1.61          |
| 4730-01-417-6747 | P24-P12              | 9060614      | 2.26          | 1.42          |
| 4730-01-417-6746 | P24-P16              | 9060627      | 2.26          | 1.79          |
| 4730-01-417-6750 | P24-P20              | 9060649      | 2.26          | 1.48          |
| 4730-01-417-6751 | P32-P08              | 9060661      | 2.51          | 1.85          |
| 4730-01-418-6575 | P32-P12              | 9060648      | 2.51          | 1.67          |
| 4730-01-417-6749 | P32-P16              | 9060628      | 2.51          | 2.03          |
| 4730-01-417-6752 | P32-P20              | 9060629      | 2.51          | 2.20          |
| 4730-01-419-0517 | P32-P24              | 9060985      | 2.51          | 2.01          |

## CN-200-RRTEE-PXX-YY-ZZ



| National Stock # | Fitting Size<br>PXX-PYY-PZZ | Piece<br>Number | Take -<br>Out, A | Take -<br>Out, B | Take -<br>Out, C |
|------------------|-----------------------------|-----------------|------------------|------------------|------------------|
| 4730-01-418-6552 | P06-P04-P04                 | 9061189         | 1.45             | 1.09             | 1.09             |
| 4730-01-418-6551 | P06-P04-P06                 | 9061188         | 1.45             | 1.09             | 1.45             |
|                  | P08-P04-P08                 | 9061105         | 1.09             | 1.09             | 1.09             |
|                  | P08-P06-P05                 | 9062502         | 1.09             | 1.09             | 1.09             |
| 4730-01-418-6553 | P08-P06-P06                 | 9061170         | 1.09             | 1.45             | 1.45             |
| 4730-01-418-4671 | P08-P06-P08                 | 9061171         | 1.09             | 1.45             | 1.09             |
|                  | P12-P04-P12                 | 9061804         | 1.19             | 1.56             | 1.19             |
| 4730-01-418-4672 | P12-P08-P08                 | 9061107         | 1.50             | 1.69             | 1.32             |
| 4730-01-418-4673 | P12-P08-P12                 | 9061172         | 1.19             | 1.17             | 1.19             |
|                  | P12-P08-P16                 | 9061626         | 1.50             | 1.69             | 1.14             |
| 4730-01-418-4674 | P16-P08-P08                 | 9061108         | 1.51             | 1.69             | 1.32             |
| 4730-01-418-4676 | P16-P08-P12                 | 9061120         | 1.51             | 1.69             | 1.13             |
| 4730-01-418-4675 | P16-P08-P16                 | 9061123         | 1.51             | 1.69             | 1.50             |
| 4730-01-418-4678 | P16-P12-P08                 | 9060993         | 1.51             | 1.50             | 1.32             |
| 4730-01-418-4677 | P16-P12-P12                 | 9060991         | 1.51             | 1.50             | 1.13             |
| 4730-01-418-4277 | P16-P12-P16                 | 9061124         | 1.51             | 1.50             | 1.50             |
|                  | P20-P08-P16                 | 9061624         | 1.89             | 2.71             | 1.32             |
|                  | P20-P08-P20                 | 9061627         | 1.89             | 2.71             | 1.37             |
| 4730-01-418-4275 | P20-P12-P08                 | 9061178         | 1.88             | 2.11             | 1.49             |
| 4730-01-418-4278 | P20-P12-P12                 | 9061125         | 1.88             | 2.11             | 1.30             |
| 4730-01-418-4279 | P20-P12-P16                 | 9061126         | 1.88             | 2.11             | 1.31             |
| 4730-01-418-4280 | P20-P12-P20                 | 9061127         | 1.88             | 2.11             | 1.89             |
| 4730-01-418-4281 | P20-P16-P08                 | 9060983         | 1.88             | 1.84             | 1.49             |
| 4730-01-417-9530 | P20-P16-P12                 | 9060990         | 1.88             | 1.84             | 1.30             |
| 4730-01-417-9531 | P20-P16-P16                 | 9060953         | 1.88             | 1.84             | 1.31             |
| 4730-01-417-9532 | P20-P16-P20                 | 9060657         | 1.88             | 1.84             | 1.89             |
|                  | P20-P16-P24                 | 9061278         | 2.26             | 2.80             | 2.27             |
| 4730-01-417-9534 | P24-P08-P08                 | 9061165         | 2.26             | 2.98             | 1.61             |
| 4730-01-417-9533 | P24-P08-P12                 | 9061204         | 2.26             | 2.98             | 1.42             |
| 4730-01-417-9535 | P24-P08-P16                 | 9061128         | 2.26             | 2.98             | 1.79             |
| 4730-01-417-9537 | P24-P08-P20                 | 9061163         | 2.26             | 2.98             | 1.48             |
| 4730-01-417-9536 | P24-P08-P24                 | 9061112         | 2.26             | 2.98             | 2.26             |
| 4730-01-417-9538 | P24-P12-P08                 | 9060599         | 2.26             | 2.79             | 1.61             |
| 4730-01-417-6754 | P24-P12-P12                 | 9060613         | 2.26             | 2.79             | 1.42             |
| 4730-01-417-6753 | P24-P12-P16                 | 9061158         | 2.26             | 2.79             | 1.79             |
| 4730-01-417-6755 | P24-P12-P20                 | 9061174         | 2.26             | 2.79             | 1.48             |
| 4730-01-418-4282 | P24-P12-P24                 | 9061129         | 2.26             | 2.79             | 2.26             |

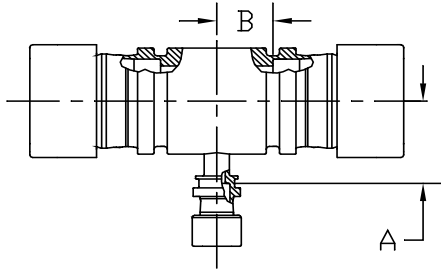
## CN-200-RRTEE-PXX-PYY-PZZ (continued)



| National Stock # | Fitting Size<br>PXX-PYY-PZZ | Piece<br>Number | Take -<br>Out, A | Take -<br>Out, B | Take -<br>Out, C |
|------------------|-----------------------------|-----------------|------------------|------------------|------------------|
| 4730-01-418-4283 | P24-P16-P08                 | 9061113         | 2.26             | 2.80             | 1.61             |
| 4730-01-418-4284 | P24-P16-P12                 | 9061179         | 2.26             | 2.80             | 1.42             |
| 4730-01-417-6757 | P24-P16-P16                 | 9061114         | 2.26             | 2.80             | 1.79             |
| 4730-01-417-6756 | P24-P16-P20                 | 9061175         | 2.26             | 2.80             | 1.48             |
| 4730-01-417-6759 | P24-P16-P24                 | 9061115         | 2.26             | 2.80             | 2.26             |
| 4730-01-417-6758 | P24-P20-P08                 | 9060989         | 2.26             | 2.25             | 1.61             |
| 4730-01-417-6761 | P24-P20-P12                 | 9060988         | 2.26             | 2.25             | 1.42             |
| 4730-01-417-6760 | P24-P20-P16                 | 9060955         | 2.26             | 2.25             | 1.79             |
| 4730-01-417-8502 | P24-P20-P20                 | 9061182         | 2.26             | 2.25             | 1.48             |
| 4730-01-417-8505 | P24-P20-P24                 | 9061130         | 2.26             | 2.25             | 2.26             |
| 4730-01-417-8506 | P32-P12-P08                 | 9061159         | 2.51             | 3.36             | 1.85             |
| 4730-01-417-8762 | P32-P12-P12                 | 9061157         | 2.51             | 3.36             | 1.66             |
| 4730-01-417-8770 | P32-P12-P16                 | 9061161         | 2.51             | 3.36             | 2.03             |
| 4730-01-417-8841 | P32-P12-P20                 | 9061162         | 2.51             | 3.36             | 2.20             |
| 4730-01-418-2144 | P32-P12-P24                 | 9061180         | 2.51             | 3.36             | 2.00             |
| 4730-01-418-2145 | P32-P12-P32                 | 9061116         | 2.51             | 3.36             | 2.51             |
| 4730-01-418-2146 | P32-P16-P08                 | 9061185         | 2.51             | 3.09             | 1.85             |
| 4730-01-418-4285 | P32-P16-P12                 | 9061015         | 2.51             | 3.09             | 1.66             |
| 4730-01-418-4286 | P32-P16-P16                 | 9061186         | 2.51             | 3.09             | 2.03             |
| 4730-01-418-4287 | P32-P16-P20                 | 9061187         | 2.51             | 3.09             | 2.20             |
| 4730-01-418-2147 | P32-P16-P24                 | 9061184         | 2.51             | 3.09             | 2.00             |
| 4730-01-418-2148 | P32-P16-P32                 | 9061131         | 2.51             | 3.09             | 2.51             |
| 4730-01-418-2149 | P32-P20-P08                 | 9061183         | 2.51             | 2.92             | 1.85             |
| 4730-01-418-7097 | P32-P20-P12                 | 9061176         | 2.51             | 2.92             | 1.66             |
| 4730-01-418-7099 | P32-P20-P16                 | 9061201         | 2.51             | 2.92             | 2.03             |
| 4730-01-418-7098 | P32-P20-P20                 | 9061177         | 2.51             | 2.92             | 2.20             |
| 4730-01-418-3555 | P32-P20-P24                 | 9061132         | 2.51             | 2.92             | 2.00             |
| 4730-01-418-3556 | P32-P20-P32                 | 9061181         | 2.51             | 2.92             | 2.51             |
| 4730-01-418-3557 | P32-P24-P08                 | 9060986         | 2.51             | 2.73             | 1.85             |
| 4730-01-418-6554 | P32-P24-P12                 | 9060987         | 2.51             | 2.73             | 1.66             |
| 4730-01-418-6555 | P32-P24-P16                 | 9061117         | 2.51             | 2.73             | 2.03             |
| 4730-01-418-6556 | P32-P24-P20                 | 9060984         | 2.51             | 2.73             | 2.20             |
| 4730-01-418-6557 | P32-P24-P24                 | 9061118         | 2.51             | 2.73             | 2.00             |
| 4730-01-418-4679 | P32-P24-P32                 | 9060954         | 2.51             | 2.73             | 2.51             |

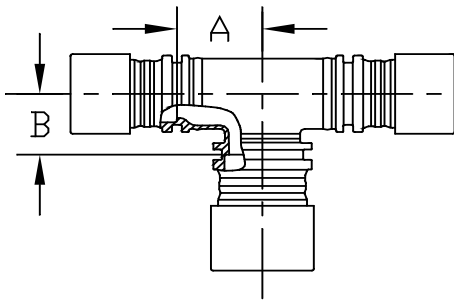
## Drop Tees, Obtuse Tees, Tee Adapters

### CN-200-DTEE-PXX-PYY



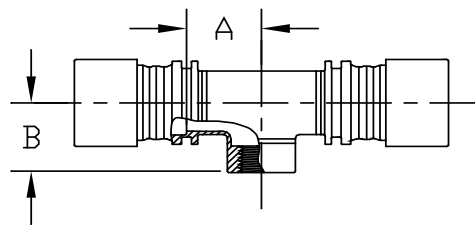
| National Stock # | Fitting Size PXX-PYY | Piece Number | Take - Out, A | Take - Out, B |
|------------------|----------------------|--------------|---------------|---------------|
|                  | P24 - P06            | 9062580      | 1.75          | 1.13          |

### CN-200-OBTEE-PXX-PYY



| National Stock # | Fitting Size PXX-PYY | Piece Number | Take - Out, A | Take - Out, B |
|------------------|----------------------|--------------|---------------|---------------|
|                  | P06-P08              | 9061631      | 1.09          | 1.09          |
|                  | P08-P12              | 9061629      | 1.17          | 1.19          |
|                  | P08-P16              | 9061623      | 1.69          | 1.14          |
|                  | P12-P16              | 9061202      | 1.50          | 1.50          |
|                  | P16-P20              | 9061136      | 1.84          | 1.89          |
|                  | P20-P24              | 9061302      | 2.26          | 2.27          |
|                  | P20-P32              | 9061303      | 2.93          | 2.52          |
|                  | P24-P32              | 9061304      | 2.73          | 2.52          |

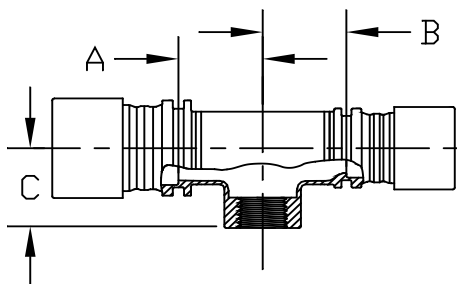
### CN-200-RTEE-PXX-1/2" FPT



| National Stock # | Fitting Size PXX-1/2 FPT | Piece Number | Take - Out, A | Take - Out, B |
|------------------|--------------------------|--------------|---------------|---------------|
| 4730-01-419-0518 | P08-1/2"                 | 9061133      | 1.09          | 1.78          |
| 4730-01-417-8509 | P12-1/2"                 | 9060590      | 1.19          | 1.91          |
| 4730-01-417-8512 | P16-1/2"                 | 9061121      | 1.51          | 1.45          |
| 4730-01-417-6542 | P20-1/2"                 | 9060630      | 1.88          | 1.63          |
| 4730-01-417-6839 | P24-1/2"                 | 9060600      | 2.26          | 1.75          |
| 4730-01-417-8430 | P32-1/2"                 | 9060631      | 2.51          | 1.98          |

\*Thread size 1/2-14 NPT

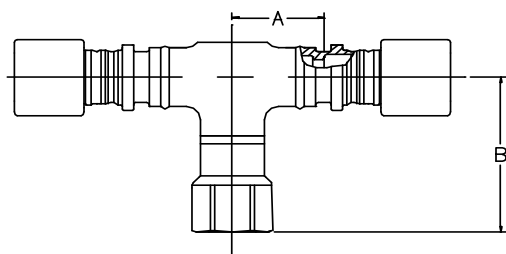
## CN-200-RRTEE-PXX-YY-1/2" FPT



| National Stock # | Fitting Size<br>PXX-PYY-1/2" FPT | Piece<br>Number | Take -<br>Out, A | Take -<br>Out, B | Take -<br>Out, C |
|------------------|----------------------------------|-----------------|------------------|------------------|------------------|
|                  | P12-P08-1/2"                     | 9061167         | 1.19             | 1.17             | 1.91             |
| 4730-01-417-8507 | P16-P08-1/2"                     | 9061122         | 1.51             | 1.69             | 1.45             |
| 4730-01-417-8508 | P16-P12-1/2"                     | 9060992         | 1.51             | 1.50             | 1.45             |
| 4730-01-417-8511 | P20-P12-1/2"                     | 9061160         | 1.88             | 2.11             | 1.63             |
| 4730-01-417-8510 | P20-P16-1/2"                     | 9061134         | 1.88             | 1.84             | 1.63             |
| 4730-01-417-6552 | P24-P08-1/2"                     | 9061135         | 2.26             | 2.98             | 1.75             |
| 4730-01-417-6621 | P24-P12-1/2"                     | 9060598         | 2.26             | 2.79             | 1.75             |
| 4730-01-417-6627 | P24-P16-1/2"                     | 9061119         | 2.26             | 2.80             | 1.75             |
| 4730-01-417-6635 | P24-P20-1/2"                     | 9060635         | 2.26             | 2.25             | 1.75             |
| 4730-01-417-9539 | P32-P12-1/2"                     | 9061164         | 2.51             | 3.36             | 1.98             |
| 4730-01-417-9540 | P32-P16-1/2"                     | 9061140         | 2.51             | 3.09             | 1.98             |
| 4730-01-417-9541 | P32-P20-1/2"                     | 9061166         | 2.51             | 2.92             | 1.98             |
| 4730-01-417-8309 | P32-P24-1/2"                     | 9060634         | 2.51             | 2.73             | 1.98             |

\*Thread Size 1/2-14 NPT

## CN-200-RTEE-PXX-YY SAE



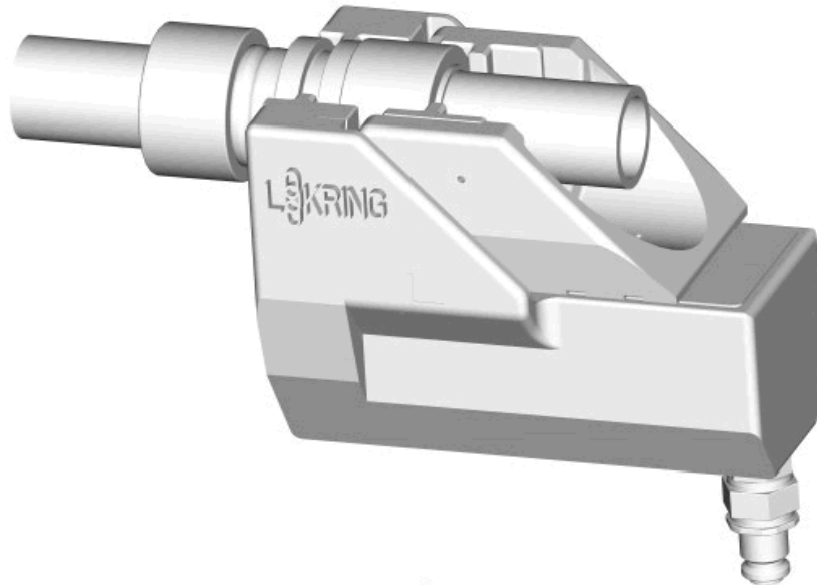
| National Stock # | Fitting Size<br>PXX-YYSAE | Piece<br>Number | Take -<br>Out, A | Take -<br>Out, B |
|------------------|---------------------------|-----------------|------------------|------------------|
|                  | P04-0.375                 | 9062398         | 0.98             | 1.69             |

Threaded end conforms to SAE J1926/1 (O-ring straight adaptor)

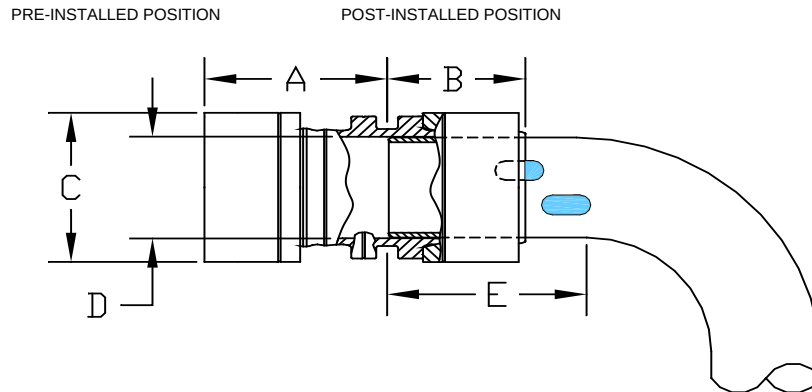


# CN-700

## COPPER NICKEL PIPE FITTINGS



|                                          |       |        |
|------------------------------------------|-------|--------|
| General Information                      | ..... | Page 1 |
| Couplings, Reducer Bushings,<br>Uthreads | ..... | Page 2 |
| Utails, Unions                           | ..... | Page 3 |
| Caps, SAE61 Kit Fittings, 45° Elbows     | ..... | Page 4 |
| 90° Elbows, Street Elbows                | ..... | Page 5 |
| Tees                                     | ..... | Page 6 |



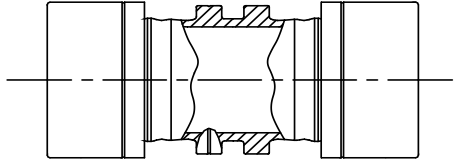
| Fitting Size (PXX) | Qualified Wall Thickness | Insertion Depth Pre-Install, A | Insertion Depth Post-Install, B | Outside Diameter, C | Inside Diameter, D | Minimum Straight Run Before a Bend, E |
|--------------------|--------------------------|--------------------------------|---------------------------------|---------------------|--------------------|---------------------------------------|
| 1/2" OD (T08)      | Class 200/700            | 1.29                           | 0.95                            | 0.84                | 0.51               | 1.50                                  |
| 1/4" (P04)         | Class 200/700            | 1.29                           | 0.95                            | 0.84                | 0.55               | 1.50                                  |
| 3/8" (P06)         | Class 200/700            | 1.40                           | 1.04                            | 1.05                | 0.69               | 1.63                                  |
| 1/2" (P08)         | Class 200/700            | 1.61                           | 1.18                            | 1.26                | 0.85               | 1.75                                  |
| 3/4" (P12)         | Class 200/700            | 1.86                           | 1.36                            | 1.49                | 1.06               | 2.00                                  |
| 1" (P16)           | Class 200/700            | 2.16                           | 1.57                            | 1.80                | 1.33               | 2.38                                  |
| 1 1/4" (P20)       | Class 200/700            | 2.59                           | 1.88                            | 2.10                | 1.67               | 2.88                                  |
| 1 1/2" (P24)       | Class 200/700            | 2.98                           | 2.16                            | 2.49                | 1.91               | 3.25                                  |
| 2" (P32)           | Class 200/700            | 3.27                           | 2.37                            | 3.12                | 2.39               | 4.00                                  |

1. All dimensions in inches.
2. Dimensions A, B, C, D & E are applicable to other fittings of the same size within this catalogue.
3. For use on copper-nickel pipe per MIL-T-16420 (class 200, 90/10, class 200 70/30, and class 700 70/30)
4. For tooling dimensions refer to appropriate catalogue.
5. Coupling "thru-bore" design permits pipe to pass completely through. All other fittings have an internal travel stop.
6. Material per MIL-T-16420, Alloy 71500 and Alloy 70600.  
(Alloy 70600 is used for the drive rings of certain sizes)
7. LOKRING CN-700 Pipe fittings are rated at 700 psi from -60°F to 425°.
8. NAVSEA approved.
9. Approved for Non-fire applications
10. Other part configurations than those shown and custom configurations may be available, contact Lokring™ for details
11. All dimensions are reference only and subject to change



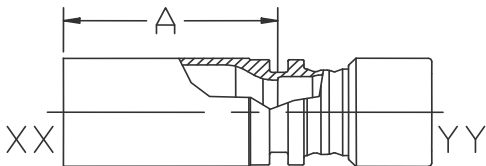
## Couplings, Reducer Bushings, Uthreads

### CN-700-CPL-PXX



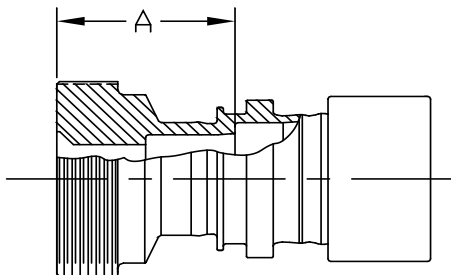
| National Stock # | Fitting Size PXX | Piece Number |
|------------------|------------------|--------------|
|                  | T08              | 9062193      |
|                  | P04              | 9062207      |
|                  | P06              | 9062208      |
|                  | P08              | 9062209      |
|                  | P12              | 9062210      |
|                  | P16              | 9062211      |
|                  | P20              | 9062212      |
|                  | P24              | 9062217      |
|                  | P32              | 9062213      |

### CN-700-REDB-PXX-PYY



| National Stock # | Fitting Size PXX-PYY | Piece Number | Take - Out, A |
|------------------|----------------------|--------------|---------------|
|                  | P06-P04              | 9062257      | 2.19          |
|                  | P08-P06              | 9062258      | 2.23          |
|                  | P12-P08              | 9062259      | 2.90          |
|                  | P16-P12              | 9062260      | 3.18          |
|                  | P20-P16              | 9062261      | 3.41          |
|                  | P24-P20              | 9062262      | 3.87          |
|                  | P32-P24              | 9062263      | 3.80          |

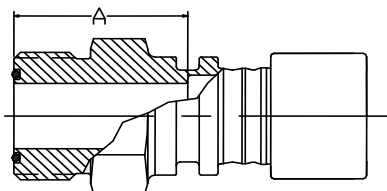
### CN-700-UTHRD-PXX



| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A | Thread         |
|------------------|------------------|--------------|---------------|----------------|
|                  | P04              | 9062359      | 1.26          | 1.089-16UNS-2A |
|                  | P06              | 9062360      | 1.38          | 1.275-14UNS    |
|                  | P08              | 9062361      | 1.41          | 1.482-14UNS    |
|                  | P12              | 9062362      | 1.51          | 1.823-11UNS    |

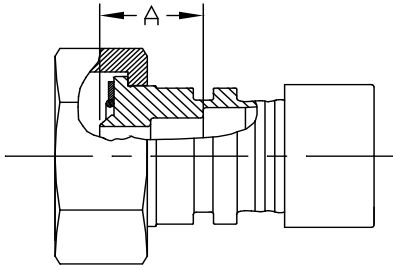
\*Thread and seal face per MIL-F-1183

### CN-700-UTHRD (SAE)-PXX



| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A | Thread          | Across Flats |
|------------------|------------------|--------------|---------------|-----------------|--------------|
|                  | P08              | 9062525      | 2.09          | 1 7/16-12 UN-2A | 1.63         |

## CN-700-UTAIL-PXX

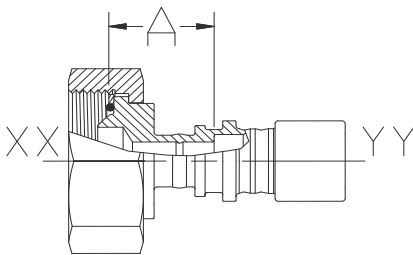


| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A | Thread        | Across Flats |
|------------------|------------------|--------------|---------------|---------------|--------------|
|                  | P04              | 9062355      | 1.07          | 1.089-16UNS   | 1.34         |
|                  | P06              | 9062356      | 1.11          | 1.275-14UNS   | 1.54         |
|                  | P08              | 9062357      | 1.15          | 1.482-14UNS   | 1.78         |
|                  | P12              | 9062358      | 1.15          | 1.823-11UNS   | 2.18         |
|                  | P16              | 9062300      | 1.01          | 2.135 - 11UNS | 2.55         |

\*Nut & seal face per MIL-F-1183

\*Complete with Backup Washer and O-ring

## CN-700-1183 RUTAIL-PXX-TYY

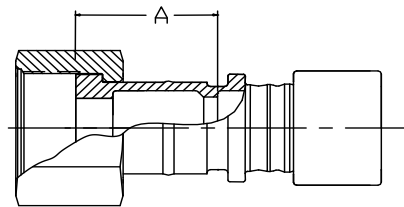


| National Stock # | Fitting Size PXX-TYY | Piece Number | Take - Out, A | Thread      | Across Flats |
|------------------|----------------------|--------------|---------------|-------------|--------------|
|                  | P08-T08              | 9062761      | 1.04          | 1.482-14UNS | 1.78         |

\*Nut & seal face per MIL-F-1183

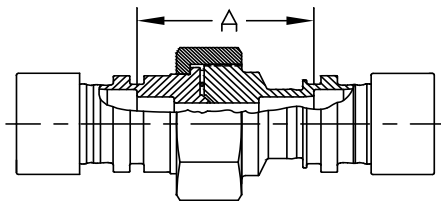
\*Complete with Backup Washer and O-ring

## CN-700-UTFF (SAE)-PXX



| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A | Thread          | Across Flats |
|------------------|------------------|--------------|---------------|-----------------|--------------|
|                  | P08              | 9062526      | 1.41          | 1 7/16-12 UN-2A | 1.63         |

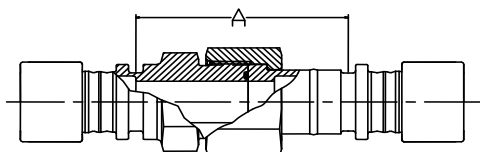
## CN-700-UNION-PXX



| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A | Thread      |
|------------------|------------------|--------------|---------------|-------------|
|                  | P04              | 9062363      | 2.24          | 1.089-16UNS |
|                  | P06              | 9062364      | 2.41          | 1.275-14UNS |
|                  | P08              | 9062365      | 2.45          | 1.482-14UNS |
|                  | P12              | 9062366      | 2.57          | 1.823-11UNS |

\*Thread and seal face per MIL-F-1183

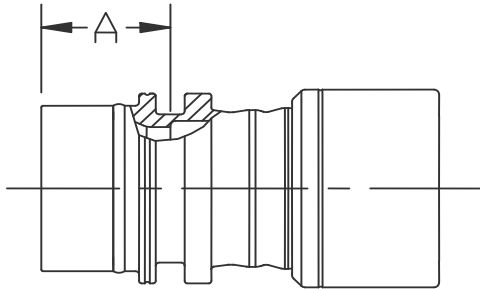
## CN-700-UNION (SAE)-PXX



| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A | Thread          |
|------------------|------------------|--------------|---------------|-----------------|
|                  | P08              | 9062527      | 3.50          | 1 7/16-12 UN-2A |

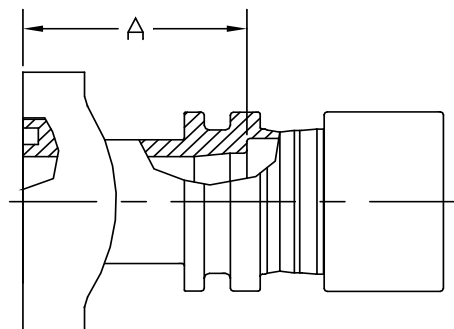
## Caps, SAE61 Kit Fittings, 45° Elbows

### CN-700-CAP-PXX



| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A |
|------------------|------------------|--------------|---------------|
|                  | P04              | 9062242      | 0.67          |
|                  | P06              | 9062243      | 0.77          |
|                  | P08              | 9062244      | 0.77          |
|                  | P12              | 9062245      | 0.77          |
|                  | P16              | 9062246      | 0.80          |
|                  | P20              | 9062247      | 0.85          |
|                  | P24              | 9062248      | 0.85          |
|                  | P32              | 9062249      | 0.92          |

### CN-700-SAE61KIT-PXX



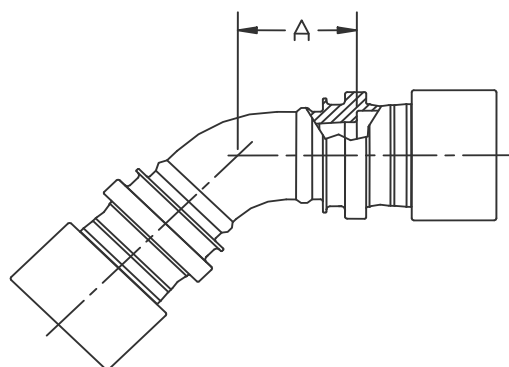
| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A |
|------------------|------------------|--------------|---------------|
|                  | P08              | 9062394      | 2.06          |
|                  | P16              | 9062395      | 1.84          |

\*Non LOKRING end conforms to SAE J518 code 61

Split flange, O-ring per SAE J120 and hardware included

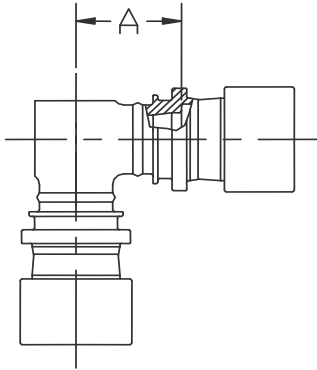
Split flange is made from stainless steel

### CN-700-EL45-PXX



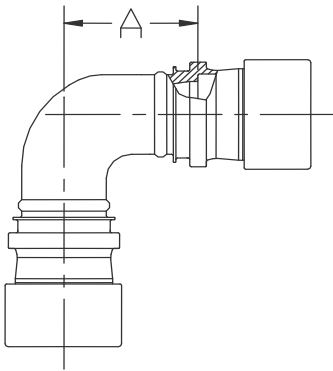
| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A |
|------------------|------------------|--------------|---------------|
|                  | P08              | 9062550      | 1.12          |
|                  | P12              | 9062551      | 1.11          |
|                  | P16              | 9062230      | 1.13          |
|                  | P20              | 9062231      | 1.35          |
|                  | P24              | 9062232      | 1.63          |
|                  | P32              | 9062233      | 1.98          |

### CN-700-EL90-PXX (SR)



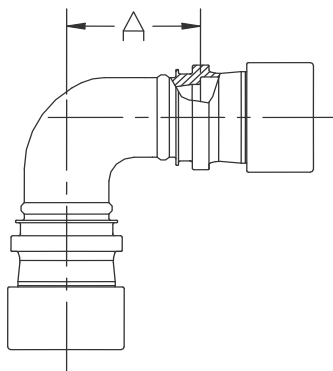
| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A |
|------------------|------------------|--------------|---------------|
|                  | P04              | 9062218      | 0.99          |
|                  | P06              | 9062219      | 1.09          |
|                  | P08              | 9062220      | 1.17          |

### CN-700-EL90-PXX (SR)



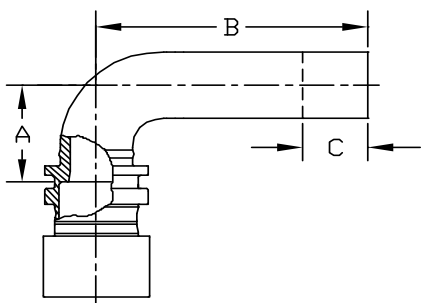
| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A |
|------------------|------------------|--------------|---------------|
|                  | P12              | 9062221      | 1.48          |
|                  | P16              | 9062223      | 1.51          |
|                  | P20              | 9062225      | 1.76          |
|                  | P24              | 9062227      | 2.01          |
|                  | P32              | 9062229      | 2.51          |

### CN-700-EL90-PXX (LR)



| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A |
|------------------|------------------|--------------|---------------|
|                  | P16              | 9062222      | 2.01          |
|                  | P20              | 9062224      | 2.45          |
|                  | P24              | 9062226      | 2.95          |
|                  | P32              | 9062228      | 3.73          |

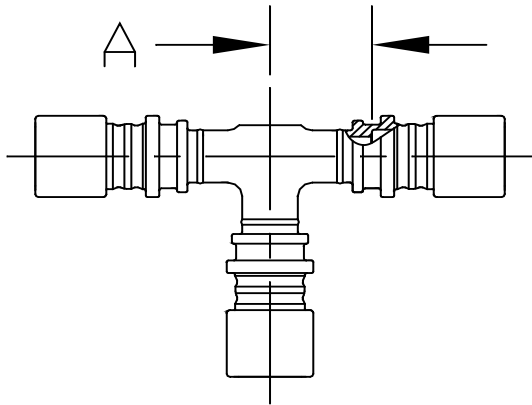
### CN-700-SEL90-PXX (Short & Long Rad.)



| National Stock # | Fitting Size PXX | Piece Number    | Take - Out, A | Take - Out, B | C*   |
|------------------|------------------|-----------------|---------------|---------------|------|
|                  | P16 (SR)         | consult LOKRING | 1.51          | 10.14         | 7.00 |
|                  | P16 (LR)         | consult LOKRING | 2.01          | 10.64         | 7.00 |
|                  | P20 (LR)         | consult LOKRING | 2.45          | 11.03         | 6.40 |
|                  | P24(SR)          | consult LOKRING | 2.01          | 10.59         | 6.00 |

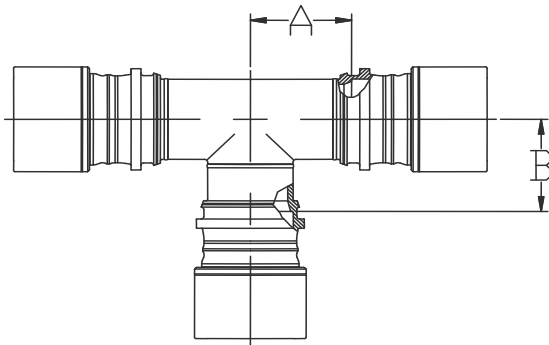
\*C - Maximum cut on pipe end

## CN-700-TEE-PXX



| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A |
|------------------|------------------|--------------|---------------|
|                  | P04              | 9062234      | 0.99          |
|                  | P06              | 9062235      | 1.09          |
|                  | P08              | 9062236      | 1.17          |

## CN-700-TEE-PXX

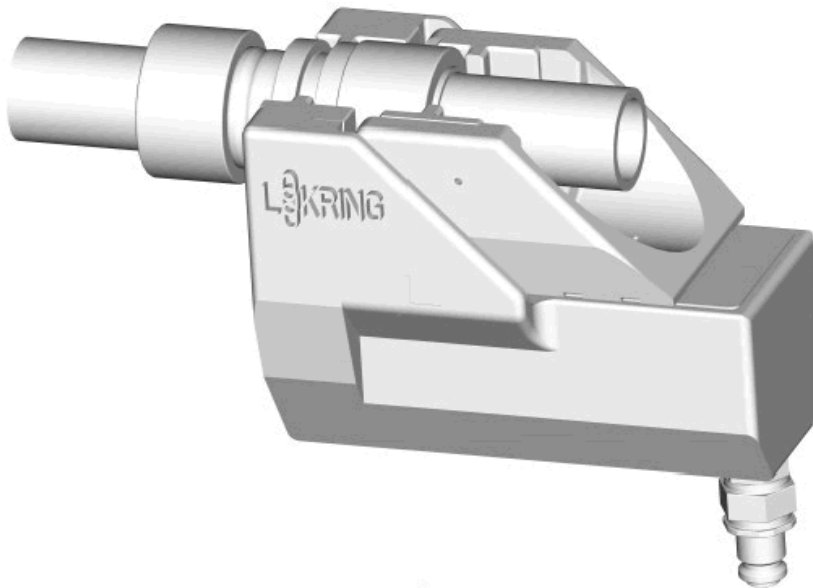


| National Stock # | Fitting Size PXX | Piece Number | Take - Out, A | Take - Out, B |
|------------------|------------------|--------------|---------------|---------------|
|                  | P12              | 9062237      | 1.48          | 1.48          |
|                  | P16              | 9062238      | 1.51          | 1.51          |
|                  | P20              | 9062239      | 1.90          | 1.90          |
|                  | P24              | 9062240      | 2.26          | 2.19          |
|                  | P32              | 9062241      | 2.51          | 2.51          |

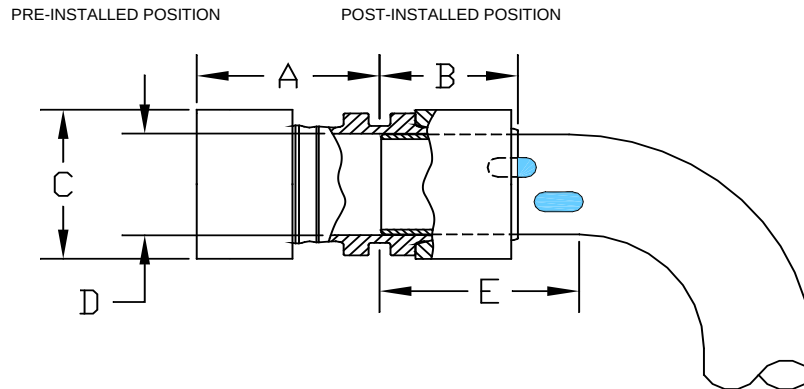


# SS-3300 STAINLESS STEEL TUBE FITTINGS

*A RECOMMENDED SOLUTION FOR MARINE APPLICATIONS*



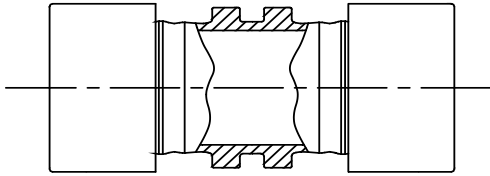
|                                   |       |        |
|-----------------------------------|-------|--------|
| General Information               | ..... | Page 1 |
| Coupling, Reducers                | ..... | Page 2 |
| Adapters                          | ..... | Page 3 |
| Adapters, Reducer Bushings        | ..... | Page 4 |
| Uthreads, Utails                  | ..... | Page 5 |
| Unions, Union Adaptors            | ..... | Page 7 |
| 90° Elbows, 90° Flange Elbows     | ..... | Page 8 |
| Tees, Reducing Tees, Tee Adapters | ..... | Page 9 |



| Fitting Size (TXX) | Qualified Wall Thickness | Insertion Depth Pre-Install, A | Insertion Depth Post-Install, B | Outside Diameter, C | Inside Diameter, D | Minimum Straight Run Before a Bend, E |
|--------------------|--------------------------|--------------------------------|---------------------------------|---------------------|--------------------|---------------------------------------|
| 1/4" (T04)         | 0.035 - 0.065            | 0.88                           | 0.73                            | 0.54                | 0.257              | 1.25                                  |
| 3/8" (T06)         | 0.035 - 0.065            | 1.26                           | 0.92                            | 0.72                | 0.382              | 1.63                                  |
| 1/2" (T08)         | 0.035 - 0.065            | 1.34                           | 1.00                            | 0.87                | 0.507              | 1.63                                  |
| 5/8" (T10)         | 0.035 - 0.065            | 1.53                           | 1.12                            | 1.05                | 0.632              | 2.00                                  |
| 3/4" (T12)         | 0.035 - 0.065            | 1.56                           | 1.17                            | 1.17                | 0.757              | 2.00                                  |

1. All dimensions are in inches.
2. Dimensions A, B, C, D & E are applicable to all fittings of the same size within this catalog. For similar dimensions on mating pipe fittings see catalog SS-3300 Pipe Fittings Catalog
3. For use on 316, 316L, 304 and 304L seamless and welded stainless steel tube as per ASTM A269 or A213. See table for qualified wall thickness.
4. For tooling dimensions refer to appropriate catalog.
5. Coupling "thru-bore" design permits tube to pass completely through (except SS-3300-T04). All other fittings (tees, elbows etc.) have an internal travel stop.
6. Material 316L Stainless Steel as per ASTM A276 or ASTM 479.
7. LOKRING SS-3300 Tube fittings are rated at 3300 psi from -60°F to 500°. LOKRING SS-3300 Pipe fittings are rated at 3300 psi from -60°F to 500° and 1500 psi at 600°F. See the SS-3300 Stainless Steel Pipe Fittings catalog for details
8. NAVSEA, ABS, LLOYD'S, USCG approved
9. Fire approved per NAVSEA, ABS and CFR 46 regulations
10. Other part configurations than those shown and custom configurations may be available, contact Lokring™ for details
11. All dimensions are reference only and subject to change

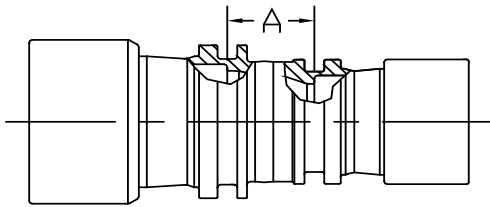
## SS-3300-CPL-TXX



| Fitting Size<br>TXX | Piece<br>Number | Take -<br>Out |
|---------------------|-----------------|---------------|
| *1/4" (T04)         | 9041809         | 0.04          |
| 3/8" (T06)          | 9061757         | n/a           |
| 1/2" (T08)          | 9040093         | n/a           |
| 5/8" (T10)          | 9061759         | n/a           |
| 3/4" (T12)          | 9061760         | n/a           |

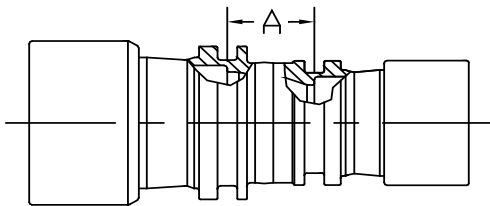
\*1/4" (T04) Fitting is made with a travel stop to aid with assembly.

## SS-3300-RED-TXX-TYY



| Fitting Size<br>TXX-TYY | Piece<br>Number | Take -<br>Out, A |
|-------------------------|-----------------|------------------|
| T08-T04                 | 9062175         | 0.97             |

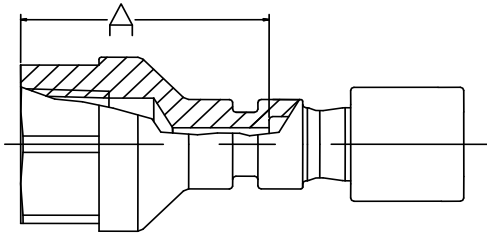
## SS-3300-RED-PXX-TYY



| Fitting Size<br>PXX-TYY | Piece<br>Number | Take -<br>Out, A |
|-------------------------|-----------------|------------------|
| P04-T04                 | 9061933         | 1.11             |
| P08-T04                 | 9062185         | 1.12             |
| P08-T08                 | 9061906         | 0.82             |
| P12-T08                 | 9061901         | 0.64             |
| P16-T08                 | 9062375         | 0.64             |
| P20-T20                 | 9062149         | 0.84             |



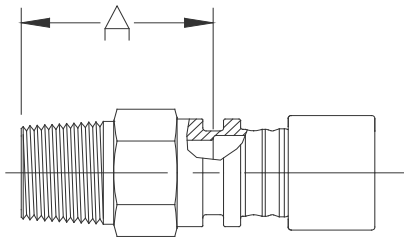
## SS-3300-ADPT-TXX-XX FPT



| Fitting Size<br>TXX-XX FPT | Piece<br>Number | Take -<br>Out, A | Across<br>Flats | Thread       |
|----------------------------|-----------------|------------------|-----------------|--------------|
| T04-1/4                    | 9062183         | 1.11             | 0.75            | 1/4 - 18 NPT |

\*Thread conforms to female NPT

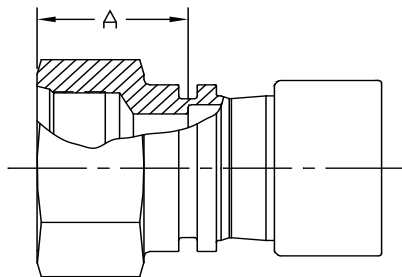
## SS-3300-ADPT-TXX-XX MPT



| Fitting Size<br>TXX-XX MPT | Piece<br>Number | Take -<br>Out, A | Thread<br>NPT |
|----------------------------|-----------------|------------------|---------------|
| T04 - 1/4                  | 9062184         | 1.47             | 1/4 - 18      |
| T08 - 3/8                  | 9061820         | 1.07             | 3/8 - 18      |

\*Thread conforms to male NPT

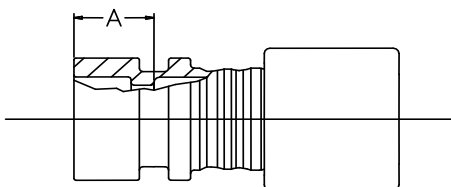
## SS-3300-ADPT-TXX-XX SAE



| Fitting Size<br>TXX-XX SAE | Piece<br>Number | Take -<br>Out, A | Across<br>Flats | Thread       |
|----------------------------|-----------------|------------------|-----------------|--------------|
| T08-0.50                   | 9041894         | 1.09             | 1.13            | 3/4 - 16 UNF |
| T14-0.875                  | 9061826         | 1.28             | 1.44            | 1-3/16-12 UN |

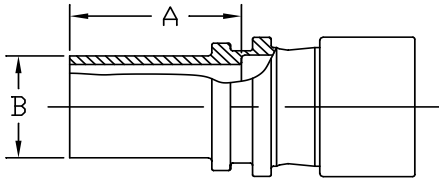
\*Thread conforms to SAE J1926/1

## SS-3300-ADPT-TXX-XX SW



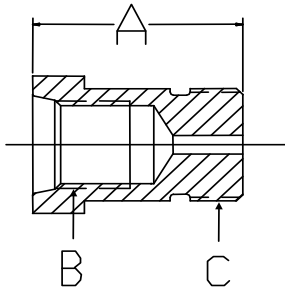
| Fitting Size<br>TXX-XX SW | Piece<br>Number | Take -<br>Out, A |
|---------------------------|-----------------|------------------|
| T08 - 0.50                | 9061937         | 0.44             |

### SS-3300-ADPT-TXX-TYY



| Fitting Size<br>TXX-TYY | Piece<br>Number | Take -<br>Out, A | Dia<br>B |
|-------------------------|-----------------|------------------|----------|
| T08 - 0.38              | 9061952         | 2.00             | 0.38     |

### SS-3300-ADPT-XXF-YYM

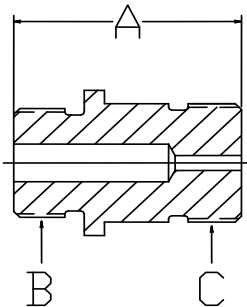


| Fitting Size<br>TXX | Piece<br>Number | Take -<br>Out, A | Thread<br>B   | Thread<br>C   |
|---------------------|-----------------|------------------|---------------|---------------|
| n/a                 | 9062255         | 0.98             | 7/16 - 20 UNF | 9/16 - 18 UNF |

\*Thread C conforms to SAE J1926/1

Thread B conforms to SAE J1926/2

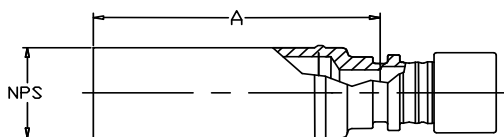
### SS-3300-ADPT-XXM-YYM



| Fitting Size<br>TXX | Piece<br>Number | Take -<br>Out, A | Thread<br>B   | Thread<br>C   |
|---------------------|-----------------|------------------|---------------|---------------|
| n/a                 | 9062187         | 1.15             | 7/16 - 20 UNF | 9/16 - 18 UNF |

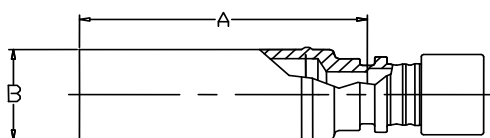
\*Thread B & C conform to SAE J1926/1

### SS-3300-REDB-TXX-XX NPS



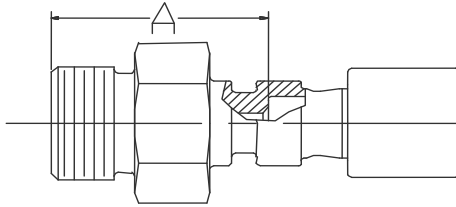
| Fitting Size<br>TXX-XX NPS | Piece<br>Number | Take -<br>Out A |
|----------------------------|-----------------|-----------------|
| T12-3/4                    | 9061838         | 2.82            |
| T12-1                      | 9061918         | 3.89            |

### SS-3300-REDB-TXX-TYY



| Fitting Size<br>TXX-TYY | Piece<br>Number | Take -<br>Out, A | Dia,<br>B |
|-------------------------|-----------------|------------------|-----------|
| T08-T04                 | 9061904         | 1.78             | 0.50      |
| T08-T06                 | 9061902         | 1.77             | 0.50      |

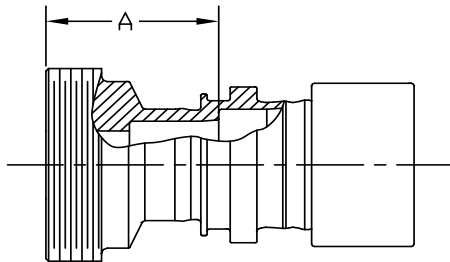
## SS-3300-UTHRD-TXX



| Fitting Size<br>TXX | Piece<br>Number | Take -<br>Out, A | Across<br>Flats | Thread        |
|---------------------|-----------------|------------------|-----------------|---------------|
| T04                 | 9062214         | 1.22             | 0.69            | 9/16 - 18 UNF |

\*Thread conforms to SAE J1453

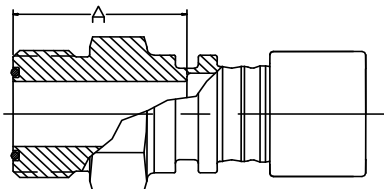
## SS-3300-UTHRD-TXX-XX NPS



| Fitting Size<br>TXX-XX | Piece<br>Number | Take -<br>Out, A | Across<br>Flats | Thread        |
|------------------------|-----------------|------------------|-----------------|---------------|
| T06-0.25               | 9061916         | 1.26             | 0.94            | 1.188 - 12 UN |

\*6000# wog Union to Navy Dwg. 803-1385884

## SS-3300-UTHRD (SAE)-TXX

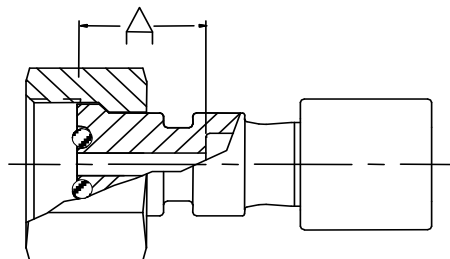


| Fitting Size<br>TXX | Piece<br>Number | Take -<br>Out, A | Across<br>Flats | Thread         |
|---------------------|-----------------|------------------|-----------------|----------------|
| T12                 | 9062141         | 1.52             | 1.25            | 1-3/16 - 12 UN |

\*Thread conforms to SAE J1453

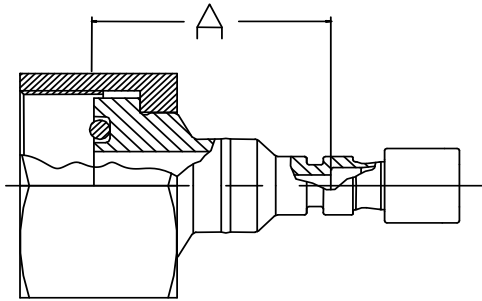
\*Complete with Viton o-ring

## SS-3300-UTAIL-TXX



| Fitting Size<br>TXX | Piece<br>Number | Take -<br>Out, A | Across<br>Flats | Thread        |
|---------------------|-----------------|------------------|-----------------|---------------|
| T04                 | 9041812         | 0.49             | 0.68            | 9/16 - 18 UNF |

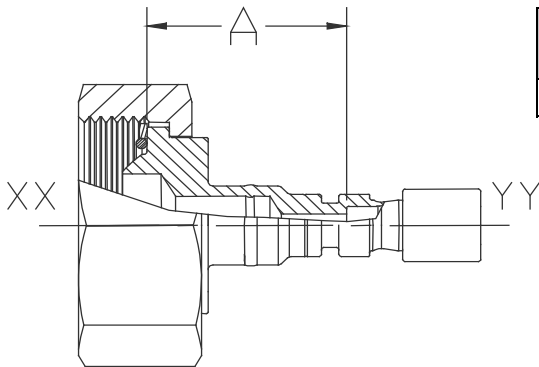
## SS-3300-RUTAIL-XX NPS-TXX



| Fitting Size<br>XX NPS-TXX | Piece<br>Number | Take -<br>Out, A | Thread         |
|----------------------------|-----------------|------------------|----------------|
| 3/8-T04                    | 9062197         | 1.60             | 1-3/8 - 12 UNS |
| 3/8-T06                    | 9062320         | 1.33             | 1-3/8 - 12 UNS |
| 3/8-T12                    | 9062321         | 1.17             | 1-3/8 - 12 UNS |

\*Nut and seal face conform to 6000# wog Union to Navy Dwg 803-1385884, o-ring is Buna-N

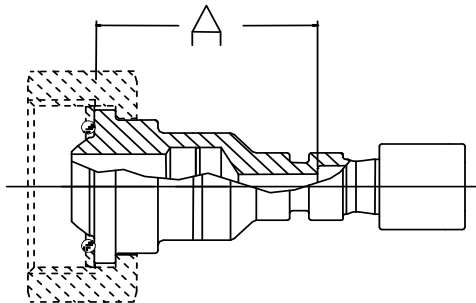
## SS-3300-1183 UTAIL-XX-TYY



| Fitting Size<br>XX-TYY | Piece<br>Number | Take -<br>Out, A | Thread         |
|------------------------|-----------------|------------------|----------------|
| 1/2-T04                | 9062570         | 1.41             | 1.491 - 14 UNS |

Seal face conforms to MIL-F-1183

## SS-3300-1183 UTAIL-PXX-TXX

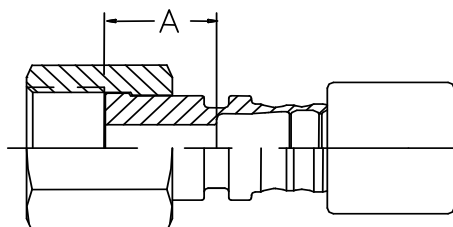


| Fitting Size<br>TXX | Piece<br>Number | Take -<br>Out, A | Thread         |
|---------------------|-----------------|------------------|----------------|
| P04-T04**           | 9062135         | 1.36             | 1.089 - 16 UNS |

\*\*Nut, o-ring, and backup washer customer supplied

Seal face conforms to MIL-F-1183

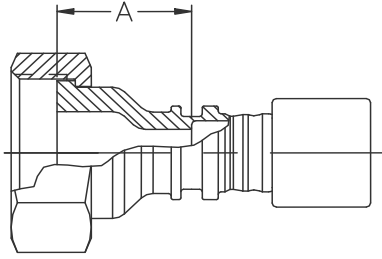
## SS-3300-UTFF-TXX



| Fitting Size<br>TXX | Piece<br>Number | Take -<br>Out, A | Across<br>Flats | Thread         |
|---------------------|-----------------|------------------|-----------------|----------------|
| T04                 | 9061446         | 0.49             | 0.68            | 9/16 - 18 UNF  |
| T06                 | 9061753         | 0.59             | 0.81            | 11/16 - 16 UN  |
| T08                 | 9061754         | 0.97             | 0.94            | 13/16 - 16 UN  |
| T10                 | 9061755         | 1.22             | 1.13            | 1 - 14 UNS     |
| T12                 | 9061756         | 1.55             | 1.38            | 1-1/4 - 12 UNF |

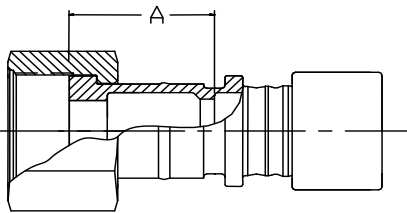
\*Threaded end (with exception of T12) conforms to SAE J1453

## SS-3300-RUTFF-TXXXX



| Fitting Size<br>TXXXX | Piece<br>Number | Take -<br>Out, A | Across<br>Flats | Thread         |
|-----------------------|-----------------|------------------|-----------------|----------------|
| T1208                 | 9061761         | 1.01             | 1.38            | 1-1/4 - 12 UNF |

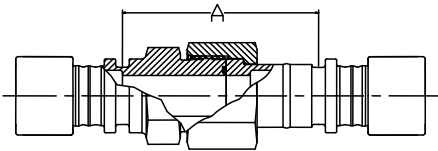
## SS-3300-UTFF(SAE)-TXX



| Fitting Size<br>TXX | Piece<br>Number | Take -<br>Out, A | Across<br>Flats | Thread      |
|---------------------|-----------------|------------------|-----------------|-------------|
| T12                 | 9061793         | 1.35             | 1.38            | 1-3/16 - 12 |

\*Threaded end conforms to SAE J1453

## SS-3300-UNION (SAE)-TXX

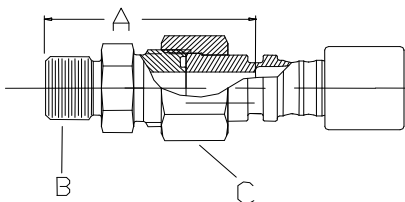


| Fitting Size<br>TXX | Piece<br>Number | Take -<br>Out, A | Across<br>Flats | Across<br>Flats | Thread         |
|---------------------|-----------------|------------------|-----------------|-----------------|----------------|
| T12                 | 9062142         | 2.87             | 1.38            | 1.25            | 1-3/16 - 12 UN |

\*Threaded end conforms to SAE J1453

\*Complete with Viton o-ring

## SS-3300-ADPT-TXX-XX SAE (M)



| Fitting Size<br>TXX-XX SAE (M) | Piece<br>Number | Take -<br>Out, A | Across<br>Flats | Across<br>Flats | Thread<br>B   | Thread<br>C   |
|--------------------------------|-----------------|------------------|-----------------|-----------------|---------------|---------------|
| T04-0.25                       | 9061898         | 1.45             | 0.68            | 0.56            | 7/16 - 20 UNF | 9/16 - 18 UNF |
| T06-0.38                       | 9061897         | 1.78             | 0.81            | 0.69            | 9/16 - 18 UNF | 11/16 - 16 UN |
| T08-0.5                        | 9061896         | 2.28             | 0.94            | 0.88            | 3/4 - 16 UNF  | 13/16 - 16 UN |
| T08-0.625                      | 9061895         | 2.49             | 0.94            | 1.00            | 7/8 - 14 UNF  | 13/16 - 16 UN |

\*Thread B conforms to SAE J1926/2

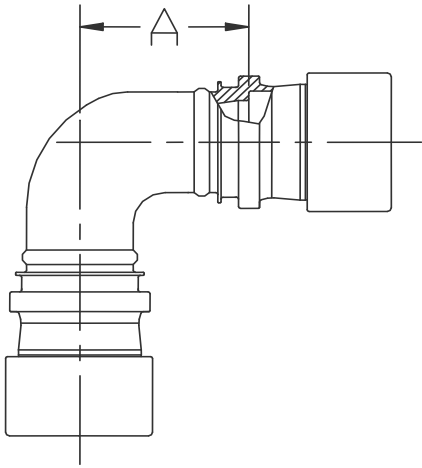
\*Thread C conforms to SAE J1453

\*Customer Supplied o-ring



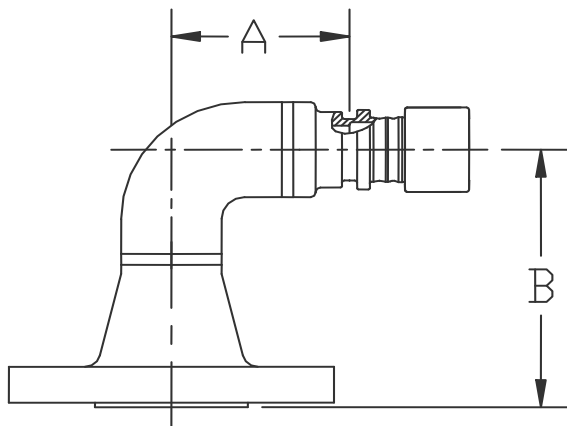
## 90° Elbows, 90° Flange Elbows

### SS-3300-EL90-TXX



| Fitting Size<br>TXX | Piece<br>Number | Take -<br>Out, A |
|---------------------|-----------------|------------------|
| T04                 | 9062554         | 0.83             |
| T06                 | 9062315         | 1.20             |
| T08                 | 9061891         | 1.01             |
| T10                 | 9062314         | 1.05             |
| T12                 | 9062216         | 1.41             |

### SS-3300-EL90-TXX-FLNG150

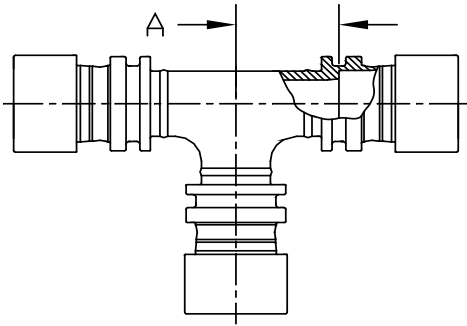


| Fitting Size<br>TXX | Piece<br>Number | Take -<br>Out, A | Take -<br>Out, B |
|---------------------|-----------------|------------------|------------------|
| T12                 | 9062279         | 2.33             | 3.56             |

\*Flange conforms to ASME/ANSI B16.5 150 lb

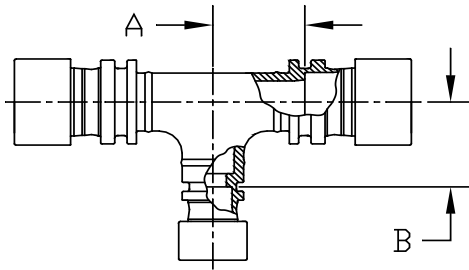
## Tees, Reducing Tees, Tee Adapters

### SS-3300-TEE-TXX



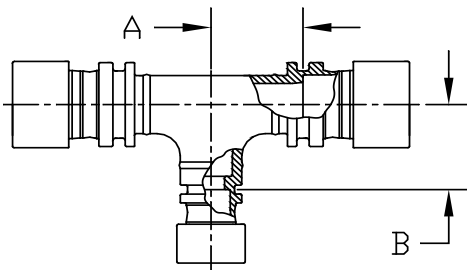
| Fitting Size<br>TXX | Piece<br>Number | Take -<br>Out, A |
|---------------------|-----------------|------------------|
| T04                 | 9062174         | 0.83             |
| T06                 | 9062313         | 1.15             |
| T08                 | 9061363         | 0.96             |
| T10                 | 9062312         | 1.05             |
| T12                 | 9061792         | 1.41             |

### SS-3300-RTEE-PXX-TXX



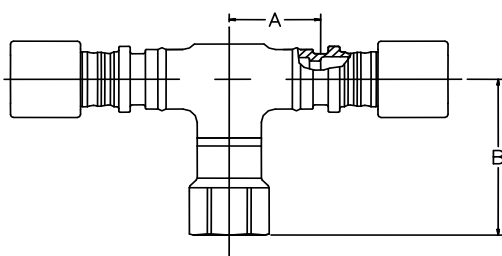
| Fitting Size<br>PXX-TXX | Piece<br>Number | Take -<br>Out, A | Take -<br>Out, B |
|-------------------------|-----------------|------------------|------------------|
| P12-T12                 | 9062191         | 1.26             | 1.17             |
| P16-T12                 | 9061808         | 1.75             | 2.20             |
| P20-T12                 | 9061811         | 2.21             | 2.74             |

### SS-3300-RTEE-TXX-PXX



| Fitting Size<br>TXX-PXX | Piece<br>Number | Take -<br>Out, A | Take -<br>Out, B |
|-------------------------|-----------------|------------------|------------------|
| T08-P04                 | 9061732         | 0.96             | 1.10             |
| T12-P04                 | 9062136         | 1.41             | 1.62             |

### SS-3300-RTEE-TXX-XX SAE



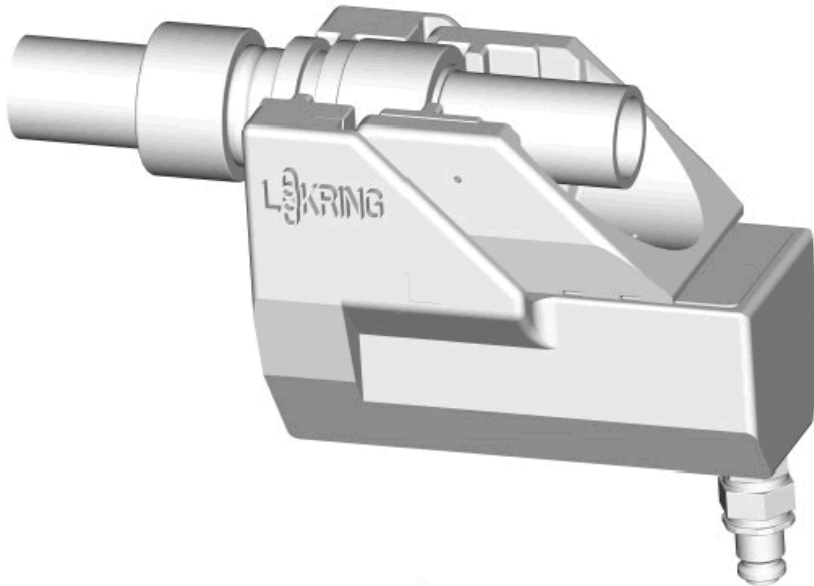
| Fitting Size<br>TXX-XX SAE | Piece<br>Number | Take -<br>Out, A | Take -<br>Out, B | Hex  | Thread        |
|----------------------------|-----------------|------------------|------------------|------|---------------|
| T08-0.25                   | 9061939         | 0.96             | 1.77             | 0.75 | 7/16 - 20 UNF |

\*Drop conforms to SAE J1926/1



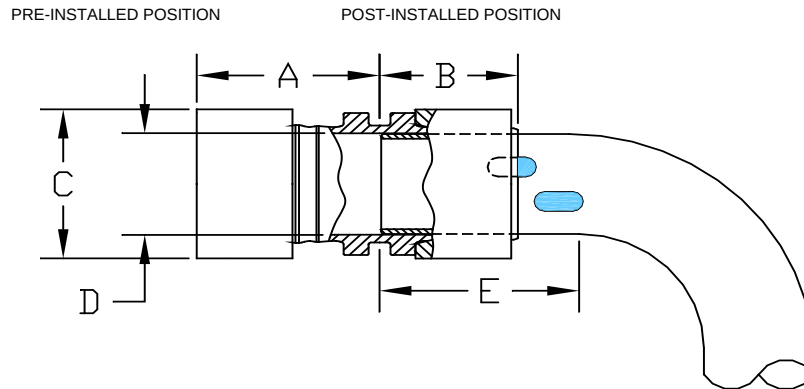
# CN-3300 COPPER NICKEL TUBE FITTINGS

*A RECOMMENDED SOLUTION FOR MARINE APPLICATIONS*



|                                                  |       |        |
|--------------------------------------------------|-------|--------|
| General Information                              | ..... | Page 1 |
| Couplings, Adapters, Reducer<br>Bushings, Utails | ..... | Page 2 |
| Rutails, Utffs                                   | ..... | Page 3 |
| 90° Elbows, Tees                                 | ..... | Page 4 |

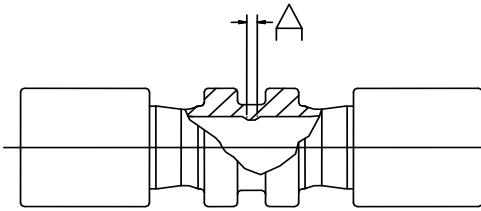




| Fitting Size (PXX) | Qualified Wall Thickness | Insertion Depth Pre-Install, A | Insertion Depth Post-Install, B | Outside Diameter, C | Inside Diameter, D | Minimum Straight Run Before a Bend, E |
|--------------------|--------------------------|--------------------------------|---------------------------------|---------------------|--------------------|---------------------------------------|
| 1/4" (T04)         | 0.035 to 0.058           | 0.91                           | 0.73                            | 0.50                | 0.255              | 1.28                                  |

1. All dimensions in inches.
2. Dimensions A, B, C, D & E are applicable to other fittings of the same size within this catalog.
3. For use on 70/30 copper-nickel tube per MIL-T-16420
4. For tooling dimensions refer to appropriate catalog.
5. Coupling "thru-bore" design permits pipe to pass completely through. All other fittings have an internal travel stop.
6. Material per MIL-T-16420, Alloy 71500
7. LOKRING CN-3300 Pipe fittings are rated at 3300 psi from -60°F to 425°F
8. NAVSEA, ABS, LLOYD'S, USCG approved
9. Fire approved per NAVSEA, ABS and CFR 46 regulations
10. Other part configurations than those shown and custom configurations may be available, contact Lokring™ for details
11. All dimensions are reference only and subject to change

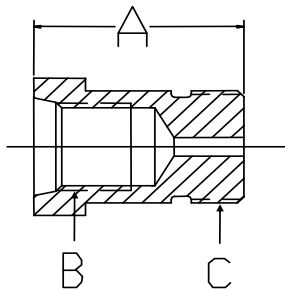
### CN-3300-CPL-TXX



| Fitting Size<br>TXX | Piece<br>Number | Take -<br>Out A |
|---------------------|-----------------|-----------------|
| *1/4" (T04)         | 9041810         | 0.04            |

\*1/4" (T04) Fitting is made with a travel stop to aid with assembly.

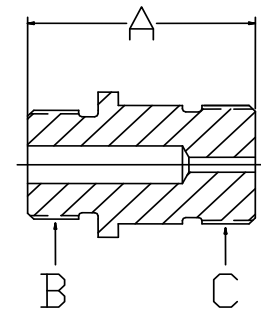
### CN-3300-ADPT-XXF-YYM



| Fitting Size<br>TXX | Piece<br>Number | Take -<br>Out, A | Thread<br>B   | Thread<br>C   |
|---------------------|-----------------|------------------|---------------|---------------|
| n/a                 | 9062254         | 0.98             | 7/16 - 20 UNF | 9/16 - 18 UNF |

\*Thread B & C conform to SAE J1926/1

### CN-3300-ADPT-XXM-YYM

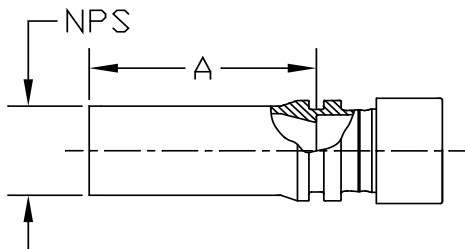


| Fitting Size<br>TXX | Piece<br>Number | Take -<br>Out, A | Thread<br>B   | Thread<br>C   |
|---------------------|-----------------|------------------|---------------|---------------|
| n/a                 | 9062188         | 1.02             | 7/16 - 20 UNF | 9/16 - 18 UNF |

\*Thread C conforms to SAE J1926/1

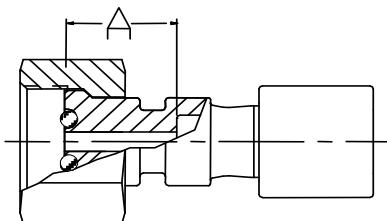
Thread B conforms to SAE J1926/2

### CN-3300-REDB-TXX-YY NPS



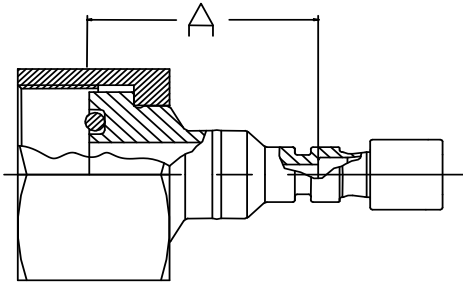
| Fitting Size<br>TXX-YY NPS | Piece<br>Number | Take -<br>Out, A |
|----------------------------|-----------------|------------------|
| T04-1/4                    | 9062290         | 1.78             |

### CN-3300-UTAIL-TXX



| Fitting Size<br>TXX | Piece<br>Number | Take -<br>Out, A | Across<br>Flats | Thread        |
|---------------------|-----------------|------------------|-----------------|---------------|
| T04                 | 9041811         | 0.49             | 0.68            | 9/16 - 18 UNF |

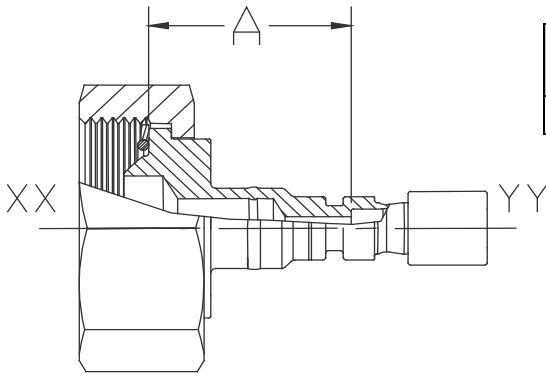
## CN-3300-RUTAIL-XX NPS-TXX



| Fitting Size<br>XX NPS-TXX | Piece<br>Number | Take -<br>Out, A | Across<br>Flats | Thread        |
|----------------------------|-----------------|------------------|-----------------|---------------|
| 1/2 NPS T04                | 9062186         | 1.04             | 2.00            | 1-3/4 - 12 UN |

\*6000# wog Union to Navy dwg 803-1385884

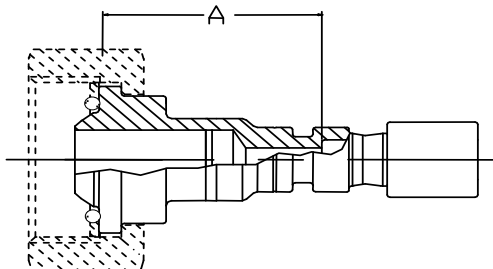
## CN-3300-1183 RUTAIL-PXX-TYY



| Fitting Size<br>PXX-TXX | Piece<br>Number | Take -<br>Out, A | Thread         |
|-------------------------|-----------------|------------------|----------------|
| P08-T04                 | 9062569         | 1.29             | 1.491 - 14 UNS |

Seal face conforms to MIL-F-1183

## CN-3300-1183 RUTAIL-PXX-TYY

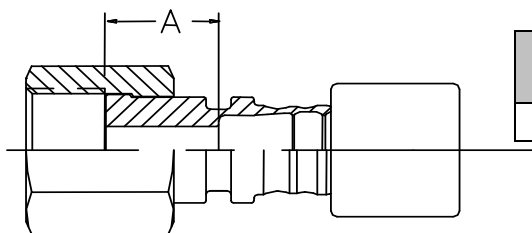


| Fitting Size<br>PXX-TXX | Piece<br>Number | Take -<br>Out, A |
|-------------------------|-----------------|------------------|
| P04-T04                 | 9062139         | 1.30             |

\*Nut, O-ring, and backup washer supplied by customer

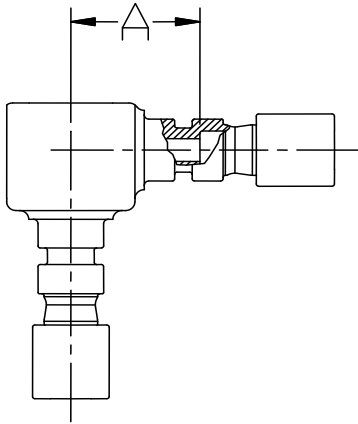
\*Sealing face complies to MIL-F-1183

## CN-3300-UTFF-TXX



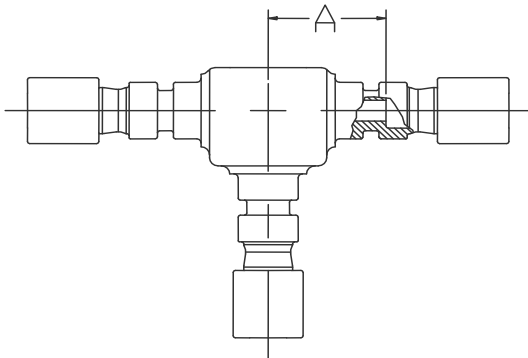
| Fitting Size<br>TXX | Piece<br>Number | Take -<br>Out, A | Across<br>Flats | Thread        |
|---------------------|-----------------|------------------|-----------------|---------------|
| T04                 | 9062253         | 0.49             | 0.68            | 9/16 - 18 UNF |

## CN-3300-EL90-TXX



| Fitting Size<br>TXX | Piece<br>Number | Take -<br>Out, A |
|---------------------|-----------------|------------------|
| T04                 | 9062556         | 0.83             |

## CN-3300-TEE-TXX

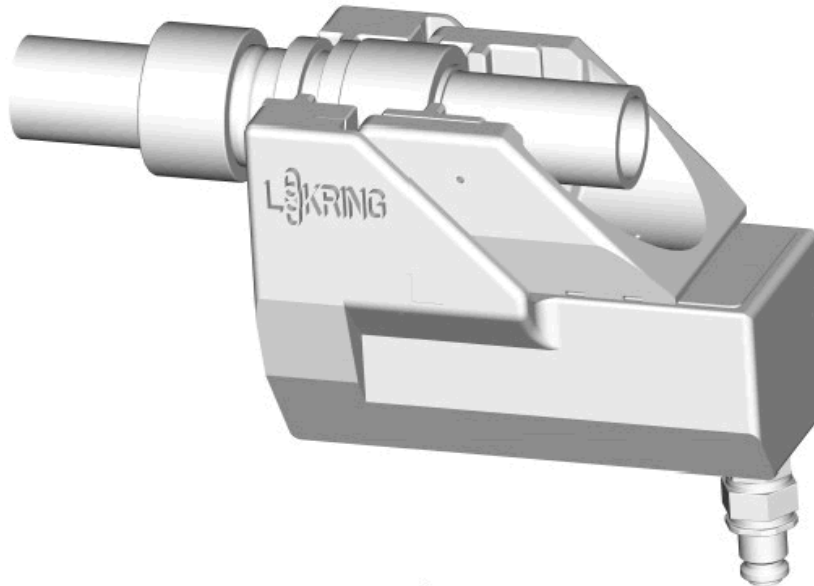


| Fitting Size<br>TXX | Piece<br>Number | Take -<br>Out, A |
|---------------------|-----------------|------------------|
| T04                 | 9062172         | 0.83             |

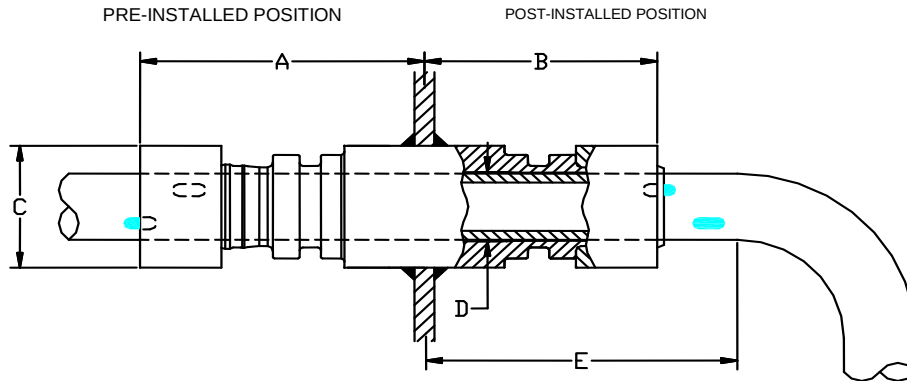


# CARBON STEEL BULKHEAD PENETRATORS

*PIPE AND TUBE PENETRATION SLEEVES FOR  
STEEL BULKHEADS AND DECKS*



|                                                    |       |        |
|----------------------------------------------------|-------|--------|
| General Information                                | ..... | Page 1 |
| Pipe and Tube Double Sided<br>Bulkhead Penetrators | ..... | Page 2 |



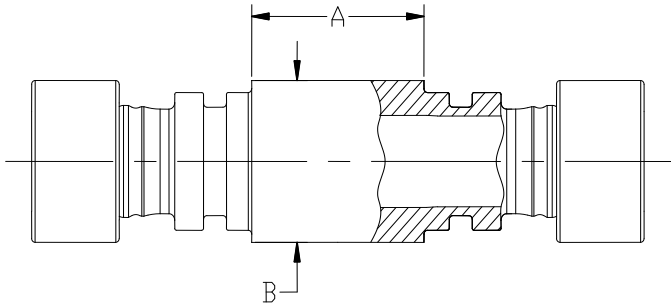
| Fitting Size (Pxx)/(Txx) | Length Unassembled, A | Length Assembled, B | Swage Ring Outside Diameter, C | Inside Diameter, D | Minimum Straight Run Before a Bend, E |
|--------------------------|-----------------------|---------------------|--------------------------------|--------------------|---------------------------------------|
| 1/4" (P04)               | 2.46                  | 2.07                | 1.05                           | 0.57               | 2.91                                  |
| 3/8" (P06)               | 2.67                  | 2.25                | 1.24                           | 0.71               | 3.15                                  |
| 1/2" (P08)               | 2.73                  | 2.31                | 1.46                           | 0.88               | 3.31                                  |
| 3/4" (P12)               | 3.00                  | 2.54                | 1.60                           | 1.09               | 3.63                                  |
| 1" (P16)                 | 3.49                  | 2.92                | 1.95                           | 1.35               | 4.07                                  |
| 1-1/4" (P20)             | 3.75                  | 3.06                | 2.29                           | 1.69               | 4.57                                  |
| 1-1/2" (P24)             | 3.95                  | 3.28                | 2.61                           | 1.94               | 4.87                                  |
| 2" (P32)                 | 4.77                  | 4.01                | 3.25                           | 2.54               | 5.45                                  |
| 3/8" (T06)               | 2.04                  | 1.70                | 0.69                           | 0.40               | 2.41                                  |
| 1/2" (T08)               | 2.12                  | 1.78                | 0.87                           | 0.53               | 2.41                                  |
| 3/4" (T12)               | 2.67                  | 2.26                | 1.17                           | 0.78               | 3.09                                  |
| 1" (T16)                 | 2.71                  | 2.34                | 1.37                           | 1.03               | 3.09                                  |

- All dimensions are in inches.
- For tooling dimensions refer to appropriate catalog.
- LOKRING MAS (Carbon Steel) Pipe Fittings are approved as connectors in bulkhead penetrators on the following pipe types:
  - Carbon Steel Pipe in Schedules 10 through 80
  - Corrosion Resistant Pipe in Schedules 10 through 80
  - Copper Nickel Pipe (90/10 and 70/30) with nominal 0.65" wall and greater per MIL-T-16420
  - Copper Pipe with nominal wall 0.065" and greater per MIL-T-24107
  - Titanium pipe per ASTM B337 schedule 10 thru 80
- LOKRING MAS (Carbon Steel) Tube Fittings are approved as connectors in bulkhead penetrators on the following tube types:
  - Carbon Steel Tube with nominal 0.035" wall and greater
  - Corrosion Resistant Tube with nominal 0.035" wall and greater
  - Copper Nickel (90/10 and 70/30) Tube with nominal 0.035" wall and greater
- NAVSEA approved
- For use as a penetration pressure boundary. These fittings are NOT pipe pressure boundaries. 2 psi compartment test
- Approved for installation in fire hazardous areas per NAVSEA, ABS and CFR 46 regulations in steel decks and bulkheads. Single and double sided penetrations available
- LOKRING bulkhead penetrators are not approved for use as couplings to connect pipe to pipe or tube to tube
- Other part configurations than those shown and custom configurations may be available, contact Lokring™ for details
- All dimensions are reference only and subject to change



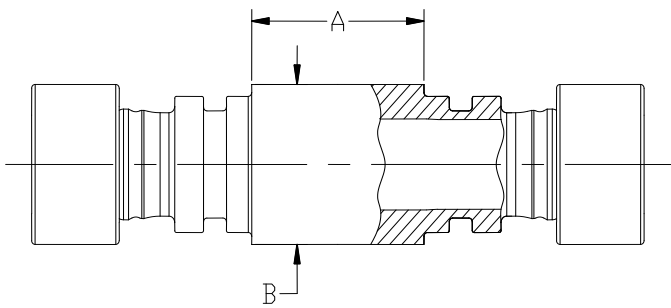
## BULKHEAD PENETRATORS

### CS-BHP2-PXX



| Fitting Size<br>Pxx | Piece<br>Number | Center<br>Section<br>Length, A | Center<br>Section<br>Outside<br>Diameter, B |
|---------------------|-----------------|--------------------------------|---------------------------------------------|
| P04                 | 9061248         | 1.50                           | 1.05                                        |
| P06                 | 9061249         | 1.50                           | 1.24                                        |
| P08                 | 9061205         | 1.50                           | 1.48                                        |
| P12                 | 9061206         | 1.50                           | 1.62                                        |
| P16                 | 9061207         | 1.50                           | 1.92                                        |
| P20                 | 9061208         | 1.50                           | 2.40                                        |
| P24                 | 9061250         | 1.50                           | 2.62                                        |
| P32                 | 9061251         | 1.90                           | 3.25                                        |

### CS-BHP2-TXX



| Fitting Size<br>Txx | Piece<br>Number | Center<br>Section<br>Length, A | Center<br>Section<br>Outside<br>Diameter, B |
|---------------------|-----------------|--------------------------------|---------------------------------------------|
| T06                 | 9061536         | 1.13                           | 0.69                                        |
| T08                 | 9061905         | 1.13                           | 0.88                                        |
| T12                 | 9062552         | 1.50                           | 1.24                                        |
| T16                 | 9062656         | 1.50                           | 1.62                                        |

**A FITTING END TO YOUR PIPING & TUBING CONCERNS™**



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