

COUPLINGS FOR PIPE AND TUBING

SECTION J

TYPES OF INLETS - OUTLETS
(one end – other end)

- 1 = Female Iron Pipe Thread
- 2 = Flare Copper Tube Nut
- 4 = Pack Joint for Plastic or Copper Tube
- 5 = Pack Joint for Iron Pipe
- 6 = Pack Joint for PE Pipe
- 7 = Pack Joint for PVC Pipe
- 8 = Male Iron Pipe Thread
- 0 = Female Copper Tube Nut Thread or "Special"

- G** = Grip Joint (3/4" - 2" CTS and 3/4" and 1" PEP)
- Q** = Quick Joint (for indicated items)
- IDR7** = Pack Joint for 1-1/2" and 2" PEP requires dimension ratio designation
- IDR9** = Pack Joint for 1-1/2" and 2" PEP requires dimension ratio designation
- TW-Q** = CTS Quick Joint with Tracer Wire Terminal (contact factory for pricing)
- U-AWT** = Ultra-Tite Coupling (consists of components assembled watertight)
- U** = Ultra-Tite Coupling

Ford Coupling Numbering System

C 8 4 - 3 4 - G - NL

↑ ↑ ↑ ↑ ↑ ↑

C = Coupling
L = 90° Elbow
LA = Eighth Bend

SIZE OF INLETS - OUTLETS
(one end – other end)

| | |
|----------|------------|
| 1 = 1/2" | 5 = 1-1/4" |
| 2 = 5/8" | 6 = 1-1/2" |
| 3 = 3/4" | 7 = 2" |
| 4 = 1" | 8 = 2-1/2" |

TYPES OF INLETS - OUTLETS
(one end/run – other end/run – side outlet)

- 1 = Female Iron Pipe Thread
- 2 = Flare Copper Tube Nut
- 4 = Pack Joint for Plastic or Copper Tube
- 6 = Pack Joint for PE Pipe
- 8 = Male Iron Pipe Thread

SIZE OF INLETS - OUTLETS
(one end – other end – side outlet)

- 1 = 1/2"
- 3 = 3/4"
- 4 = 1"
- 5 = 1-1/4"
- 6 = 1-1/2"
- 7 = 2"

Ford Tee Numbering System

T 4 4 1 - 3 3 4 - G - NL

↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑

T = Tee
TD = Cut-In Tee

Run Side Outlet

U-AWT = Ultra-Tite Coupling (consists of components assembled watertight)

Lead Strength

- 1 = Strong
- 2 = Extra Strong
- 3 = Double Extra Strong

Other End

- 1 = Female Iron Pipe Thread
- 2 = Flare Copper Tube Nut
- 4 = Pack Joint for Plastic or Copper Tube
- 6 = Pack Joint for PE Pipe
- 8 = Male Iron Pipe Thread
- S = Solder

Ford Lead-Pak Numbering System

Q 2 1 - 3 3 - NL

↑ ↑ ↑ ↑ ↑ ↑

Lead Pipe on One End

SIZES
(one end – other end)

- 1 = 1/2"
- 2 = 5/8"
- 3 = 3/4"
- 4 = 1"
- 5 = 1-1/4"
- 6 = 1-1/2"
- 7 = 2"

Q 3 Q 3 - 4 4 - NL

↑ ↑ ↑ ↑ ↑ ↑

Lead Pipe on Both Ends

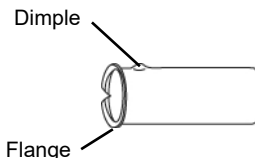
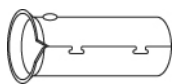
Note: See product listings in catalog to ensure desired sizes and options are available.

INSERT STIFFENERS

Before using insert stiffeners, be sure inside tubing or pipe dimensions correspond to the table below.
Ford recommends using insert stiffeners with plastic pipe or tubing.

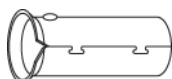
50 SERIES FOR POLYETHYLENE TUBING

| CATALOG NUMBER | NOMINAL SIZE | PET ID | APPROX. WT. LBS. | STD *PKG. QTY. | LIST PRICE |
|--------------------|--------------|--------|------------------|----------------|------------|
| INSERT-51 | 3/4" | 0.681 | 4.8 | 200 | \$ 2.28 |
| INSERT-52 | 1" | 0.875 | 4.2 | 100 | 2.42 |
| ** INSERT-53-72 | 1-1/4" | 1.069 | 2.9 | 50 | 2.97 |
| ◆** INSERT-53-72-Q | 1-1/4" | 1.069 | 2.9 | 50 | 2.97 |
| INSERT-54 | 1-1/2" | 1.263 | 3.1 | 25 | 3.33 |
| ◆ INSERT-54-Q | 1-1/2" | 1.263 | 2.6 | 30 | 3.33 |
| INSERT-55 | 2" | 1.653 | 6.0 | 40 | 3.33 |
| ◆ INSERT-55-Q | 2" | 1.653 | 5.8 | 50 | 3.33 |



70 SERIES FOR POLYETHYLENE PIPE

| CATALOG NUMBER | NOMINAL SIZE | PEP ID | APPROX. WT. LBS. | STD *PKG. QTY. | LIST PRICE |
|--------------------|--------------|--------|------------------|----------------|------------|
| INSERT-71 | 3/4" | 0.824 | 4.4 | 100 | \$ 2.58 |
| ** INSERT-53-72 | 1" | 1.049 | 2.9 | 50 | 2.97 |
| ◆** INSERT-53-72-Q | 1" | 1.049 | 2.9 | 50 | 2.97 |
| INSERT-73 | 1-1/4" | 1.380 | 5.8 | 75 | 4.42 |
| INSERT-74 | 1-1/2" | 1.610 | 5.5 | 45 | 4.86 |
| INSERT-75 | 2" | 2.067 | 9.7 | 50 | 5.32 |



Insert stiffeners are solid 304 tubular stainless steel, dimpled and flanged to retain placement within the service line.

INSERTS FOR OD CONTROLLED DR11 HIGH DENSITY POLYETHYLENE (HDPE) PIPE WITH PVC O.D.

| CATALOG NUMBER | NOMINAL SIZE AND PIPE TYPE | DR | HDPE O.D. | NOMINAL I.D. | LIST PRICE |
|-----------------|----------------------------|----|-----------|--------------|------------|
| ** INSERT-53-72 | 1" IPS | 11 | 1.315 | 1.055 | \$ 2.97 |
| INSERT-73-DR11 | 1-1/4" IPS | 11 | 1.660 | 1.34 | 4.86 |
| INSERT-74-DR11 | 1-1/2" IPS | 11 | 1.900 | 1.53 | 5.21 |
| INSERT-75-DR11 | 2" IPS | 11 | 2.375 | 1.92 | 5.89 |

* Weights for insert stiffeners are for standard package quantities.

** INSERT-53-72 (-Q) fit 1-1/4" plastic tubing (1.069 I.D.), 1" plastic pipe (1.049 I.D.) and 1" IPS HDPE (1.055 I.D.).

◆ These inserts are specifically designed and required for Quick Joint fittings. These inserts are **not** suitable for any other application. Additionally, standard inserts are not compatible with Quick Joint fittings of this type and size.

PACK JOINT CODING

(Type of service line coded on Ford Pack Joint Nut)

- CTS - Copper and PET tubing
- PEP - PE pipe
- PVC - PVC pipe (schedule 40 and schedule 80 only)
- S - Strong lead pipe
- XS - Extra strong lead pipe
- XXS - Double extra strong lead pipe

DIMENSION COMPARISON TABLE FOR PLASTIC, COPPER AND GALVANIZED IRON

| PIPE AND TUBING TYPE | PSI | SDR | CONTROL | O.D. | | | | | | I.D. | | | | | |
|----------------------|---------------|-------|---------|-------|-------|-------|--------|--------|-------|------|-------|-------|--------|--------|-------|
| | | | | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" |
| Copper | - | - | OD | 0.625 | 0.875 | 1.125 | 1.375 | 1.625 | 2.125 | - | - | - | - | - | - |
| PET | PE3408 200 | SDR9 | OD | 0.625 | 0.875 | 1.125 | 1.375 | 1.625 | 2.125 | - | 0.681 | 0.875 | 1.069 | 1.263 | 1.653 |
| | PE4710 250 | | | | | | | | | | | | | | |
| PEP | PE3408 200 | SIDR7 | ID | - | 1.060 | 1.349 | 1.774 | 2.070 | 2.657 | - | 0.824 | 1.049 | 1.380 | 1.610 | 2.067 |
| | PE4710 250 | | | | | | | | | | | | | | |
| PVC | - | - | OD | 0.840 | 1.050 | 1.315 | 1.660 | 1.900 | 2.375 | - | - | - | - | - | - |
| Galv IP | - | - | OD | 0.840 | 1.050 | 1.315 | 1.660 | 1.900 | 2.375 | - | - | - | - | - | - |

Note: Ford Pack Joints for PVC are recommended for Schedule 40 and Schedule 80 pipe only.

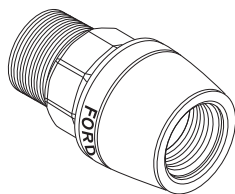
COPPER ROUNDING TOOLS

| CATALOG NUMBER | TUBE SIZE | APPROX. WT. LBS. | LIST PRICE |
|----------------|-----------|------------------|------------|
| CRT-3 | 3/4" | 0.7 | \$ 74.00 |
| CRT-4 | 1" | 1.4 | 80.82 |
| CRT-5 | 1-1/4" | 2.3 | 107.73 |
| CRT-6 | 1-1/2" | 3.8 | 114.59 |
| CRT-7 | 2" | 8.0 | 134.79 |

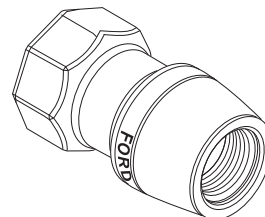


ULTRA-TITE COMPRESSION FITTINGS FOR POLYETHYLENE PIPE (PEP/IPS) OR POLYETHYLENE TUBING (PET/CTS)

Ford's Ultra-Tite compression fitting provides an immediate lock onto polyethylene pipe (PEP/IPS) per ASTM-2239 - SDR-7 or polyethylene tubing (PET/CTS) per ASTM D-2737 - SDR-9 when inserted to the internal stop.



PET/CTS Ultra-Tite
(contains red gripper ring)



PEP/IPS Ultra-Tite
(contains white gripper ring)

CHAMFER TOOL AND PARTS

Beveling the end of the pipe or tubing with the special chamfering tool permits proper engagement of the pipe or tubing into the socket.

| CHAMFER TOOL PART NUMBERS | | | APPROX. WT. LBS. | LIST PRICE |
|---------------------------|--------------|---------------|------------------|------------|
| CATALOG NUMBER | SIZE | O.D. RANGE | | |
| PECT-4-CTS | 1" PET-CTS | 1.120 - 1.130 | 0.22 | \$ 59.96 |
| PECT-3-IPS | 3/4" PEP/IPS | 1.045 - 1.110 | 0.19 | 63.33 |
| PECT-4-IPS | 1" PEP/IPS | 1.329 - 1.399 | 0.22 | 64.01 |

CHAMFER TOOL WITH FLOW-THRU PORT FOR LIVE INSTALLATIONS

| CATALOG NUMBER | PORT OPENING | SIZE | O.D. RANGE | APPROX. WT. LBS. | LIST PRICE |
|----------------|-----------------|--------------|---------------|------------------|------------|
| PECTS-3-CTS | 0.400" x 0.810" | 3/4" PET/CTS | 0.871 - 0.879 | 0.16 | \$ 76.14 |
| PECTS-4-CTS | 0.580" x 1.060" | 1" PET/CTS | 1.120 - 1.130 | 0.22 | 78.84 |
| PECTS-3-IPS | 0.580" x 1.020" | 3/4" PEP/IPS | 1.045 - 1.110 | 0.22 | 82.21 |
| PECTS-4-IPS | 0.680" x 1.320" | 1" PEP/IPS | 1.329 - 1.399 | 0.19 | 82.88 |

Replacement Blade for 3/4" and 1" Chamfer Tool

| | |
|-------------------|----------|
| PECT-BLADE-230910 | \$ 30.99 |
|-------------------|----------|



Chamfer Tool with Flow-Thru Port

GRIPPER RING REMOVAL TOOL

Removing the Ultra-Tite from the pipe or tubing requires a removal tool between the gripper and the pipe or tubing, to allow release of the compression.

| REMOVAL TOOL PART NUMBER | | LIST PRICE |
|--------------------------|---------------------|--------------|
| CATALOG NUMBER | DESCRIPTION | |
| UTRT-520200 | 3/4" and 1" CTS-IPS | \$ 13.48 pr. |

1" size requires the use of two removal tools.

ULTRA-TITE COMPONENT PARTS

O-ring and gripper ring replacement is recommended prior to re-using the fitting.

| COMPONENT PARTS | | LIST PRICE |
|-----------------|-------------------------------|------------|
| CATALOG NUMBER | DESCRIPTION | |
| UTGR4-3 | 3/4" PET Gripper Ring (red) | \$ 1.49 |
| UTGR4-4 | 1" PET Gripper Ring (red) | 1.66 |
| UTGR6-3 | 3/4" PEP Gripper Ring (white) | 1.57 |
| UTGR6-4 | 1" PEP Gripper Ring (white) | 1.83 |
| ORING-650405-EP | 3/4" CTS EPDM O-ring | 2.40 |
| ORING-650407-EP | 1" CTS EPDM O-ring | 3.22 |
| ORING-650420-EP | 3/4" IP EPDM O-ring | 2.70 |
| ORING-650422-EP | 1" IP EPDM O-ring | 2.80 |

CTS polyethylene (PE) per ASTM D-2737 - SDR-9

IPS polyethylene (PE) per ASTM-2239 - SDR-7

TUBING / PIPE AND FORD ULTRA-TITE COMPATIBILITY TABLE

Use this table to ensure pipe/tubing compatibility.

| NOMINAL SIZE OF CONNECTION | MATERIAL | TUBING OR PIPE O.D. RANGE (IN.) | TUBING OR PIPE WALL THICKNESS RANGE (IN.) | TUBING OR PIPE I.D. RANGE (IN.) |
|----------------------------|-------------------|---------------------------------|---|---------------------------------|
| 3/4" CTS PE | Polyethylene (PE) | 0.871 - 0.879 | 0.097 - 0.107 | 0.657 - 0.685 |
| 1" CTS PE | Polyethylene (PE) | 1.120 - 1.130 | 0.125 - 0.137 | 0.846 - 0.880 |
| 3/4" IPS PE | Polyethylene (PE) | 1.045 - 1.110 | 0.118 - 0.138 | 0.809 - 0.834 |
| 1" IPS PE | Polyethylene (PE) | 1.329 - 1.399 | 0.150 - 0.170 | 1.029 - 1.059 |

The Ford Ultra-Tite is for applications on polyethylene pipe (PEP) or tubing (PET) only.

The use of a tubing insert is not required or recommended.

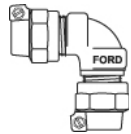
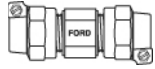


Gripper Ring Removal Tool

PACK JOINT COUPLINGS FOR COPPER OR PLASTIC TUBING (CTS)

PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS) BOTH ENDS

| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|---------------------------|--------------|--------------|------------------|----------------|------------|
| | P.J. FOR CTS | P.J. FOR CTS | | | |
| STRAIGHT COUPLINGS | | | | | |
| ◆C44-11-NL | 1/2" | 1/2" | 0.8 | 20 | \$ 30.59 |
| C44-12-NL | 1/2" | 5/8" | 1.0 | 16 | 33.97 |
| *◆C44-13-NL | 1/2" | 3/4" | 0.8 | 16 | 29.98 |
| *C44-14-NL | 1/2" | 1" | 1.0 | 14 | 35.34 |
| ◆C44-22-NL | 5/8" | 5/8" | 1.0 | 14 | 37.18 |
| *◆C44-23-NL | 5/8" | 3/4" | 1.0 | 14 | 33.24 |
| ◆◆C44-33-NL | 3/4" | 3/4" | 0.9 | 14 | 29.31 |
| C44-33S-Q-NL | 3/4" | 3/4" | 1.1 | 20 | 29.31 |
| ‡◆C44-33-4-75-NL | 3/4" | 3/4" | 1.4 | 12 | 48.36 |
| ▶◆C44-34-NL | 3/4" | 1" | 0.9 | 12 | 34.05 |
| C44-35-NL | 3/4" | 1-1/4" | 1.7 | 6 | 55.44 |
| ◆◆C44-44-NL | 1" | 1" | 1.2 | 10 | 33.52 |
| C44-44S-Q-NL | 1" | 1" | 1.3 | 10 | 33.52 |
| ‡◆C44-44-4-75-NL | 1" | 1" | 2.0 | - | 55.31 |
| C44-45-NL | 1" | 1-1/4" | 1.5 | 10 | 49.46 |
| ◆C44-46-NL | 1" | 1-1/2" | 2.1 | 4 | 80.16 |
| ◆C44-55-NL | 1-1/4" | 1-1/4" | 2.2 | 4 | 57.89 |
| C44-56-NL | 1-1/4" | 1-1/2" | 2.8 | 6 | 92.82 |
| ◆C44-66-NL | 1-1/2" | 1-1/2" | 3.1 | 10 | 112.18 |
| C44-66S-Q-NL | 1-1/2" | 1-1/2" | 3.2 | 6 | 112.18 |
| C44-67-NL | 1-1/2" | 2" | 3.8 | 2 | 122.23 |
| ◆C44-77-NL | 2" | 2" | 4.5 | 6 | 151.44 |
| C44-77S-Q-NL | 2" | 2" | 4. | 6 | 151.44 |
| C44-88-NL | 2-1/2" | 2-1/2" | 7.1 | 1 | 224.26 |

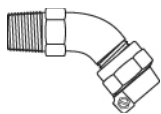
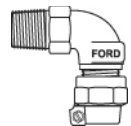
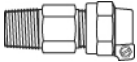


| ELL COUPLINGS | | | | | |
|----------------------|--------|--------|-----|----|--------|
| ▶▶◆L44-33-NL | 3/4" | 3/4" | 1.0 | 12 | 37.88 |
| ▶▶◆L44-34-NL | 3/4" | 1" | 1.1 | 10 | 43.39 |
| ▶▶◆L44-44-NL | 1" | 1" | 1.2 | 6 | 48.65 |
| L44-55-NL | 1-1/4" | 1-1/4" | 1.5 | 4 | 87.91 |
| ◆L44-66-NL | 1-1/2" | 1-1/2" | 3.5 | 3 | 156.23 |
| +◆L44-77-NL | 2" | 2" | 9.5 | 1 | 316.07 |

| EIGHTH BEND COUPLINGS | | | | | |
|------------------------------|------|------|-----|---|-------|
| ◆LA44-33-NL | 3/4" | 3/4" | 0.9 | - | 42.68 |
| ◆LA44-44-NL | 1" | 1" | 1.3 | - | 74.07 |

MALE IRON PIPE THREAD TO PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS)

| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|------------------------------|----------------|--------------|------------------|----------------|------------|
| | MALE IRON PIPE | P.J. FOR CTS | | | |
| STRAIGHT COUPLINGS | | | | | |
| ◆C84-11-NL | 1/2" | 1/2" | 0.5 | 35 | \$ 23.38 |
| C84-12-NL | 1/2" | 5/8" | 0.6 | - | 26.17 |
| ◆C84-13-NL | 1/2" | 3/4" | 0.6 | 25 | 22.18 |
| ◆C84-31-NL | 3/4" | 1/2" | 0.6 | 30 | 23.39 |
| ◆C84-32-NL | 3/4" | 5/8" | 0.7 | 20 | 28.00 |
| ◆◆C84-33-NL | 3/4" | 3/4" | 0.6 | 20 | 24.06 |
| ‡◆C84-33-4-75-NL | 3/4" | 3/4" | 1.1 | 15 | 39.71 |
| ◆◆C84-34-NL | 3/4" | 1" | 0.8 | 18 | 26.65 |
| C84-42-NL | 1" | 5/8" | 0.8 | - | 29.85 |
| ▶◆C84-43-NL | 1" | 3/4" | 0.7 | 20 | 26.29 |
| ◆◆C84-44-NL | 1" | 1" | 0.9 | 14 | 28.50 |
| ‡◆C84-44-4-75-NL | 1" | 1" | 1.5 | - | 47.04 |
| ◆C84-45-NL | 1" | 1-1/4" | 1.4 | 12 | 46.44 |
| ◆C84-46-NL | 1" | 1-1/2" | 1.6 | 5 | 66.86 |
| C84-54-NL | 1-1/4" | 1" | 1.2 | 5 | 54.02 |
| ◆C84-55-NL | 1-1/4" | 1-1/4" | 1.4 | 8 | 54.48 |
| C84-56-NL | 1-1/4" | 1-1/2" | 1.8 | 5 | 70.93 |
| ◆C84-66-NL | 1-1/2" | 1-1/2" | 2.1 | 8 | 78.07 |
| C84-67-NL | 1-1/2" | 2" | 2.8 | 4 | 93.98 |
| ◆C84-77-NL | 2" | 2" | 3.1 | 4 | 113.76 |
| ELL COUPLINGS | | | | | |
| L84-11-Q-NL | 1/2" | 1/2" | 0.6 | 25 | 34.04 |
| ▶▶◆L84-33-NL | 3/4" | 3/4" | 0.8 | 16 | 26.35 |
| ▶▶L84-34-NL | 3/4" | 1" | 0.9 | 12 | 35.76 |
| ▶▶◆L84-44-NL | 1" | 1" | 1.2 | 10 | 43.85 |
| ◆L84-66-NL | 1-1/2" | 1-1/2" | 2.6 | 4 | 127.34 |
| ◆L84-77-NL | 2" | 2" | 4.0 | 2 | 182.51 |
| EIGHTH BEND COUPLINGS | | | | | |
| LA84-33-NL | 3/4" | 3/4" | 0.7 | 15 | 29.31 |
| LA84-44-NL | 1" | 1" | 0.9 | 12 | 39.86 |



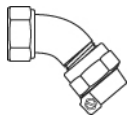
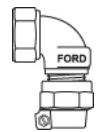
Grip Joint for CTS (3/4"-2") can be ordered by inserting "-G" into the catalog number. Example: C44-33-G-NL

- ◆ Quick Joint is available. Insert "-Q" into the catalog number. Example: C44-33-Q-NL
- * Grip Joint option is available on larger (3/4" or 1") side. Pack Joint nut on other side.
- + Uses Ballcorp style Pack Joint nut.
- ▶ Ultra-Tite is available. Insert "-U-AWT" into the catalog number (consists of components assembled watertight). Contact factory for pricing and availability. Example: C44-34-U-AWT-NL
- Ultra-Tite is available. Insert "-U" into the catalog number. Example: C44-44-U-NL
- ‡ Extended coupling length (4-75 for 4-3/4")

PACK JOINT COUPLINGS FOR COPPER OR PLASTIC TUBING (CTS) (CONTINUED)

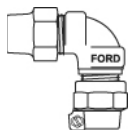
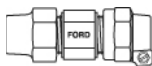
FEMALE IRON PIPE THREAD TO PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS)

| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|------------------------------|------------------|--------------|------------------|----------------|------------|
| | FEMALE IRON PIPE | P.J. FOR CTS | | | |
| STRAIGHT COUPLINGS | | | | | |
| ◆C14-11-NL | 1/2" | 1/2" | 0.5 | 36 | \$ 22.50 |
| C14-12-NL | 1/2" | 5/8" | 0.5 | 25 | 28.04 |
| C14-13-NL | 1/2" | 3/4" | 0.5 | 25 | 24.06 |
| C14-31-NL | 3/4" | 1/2" | 0.6 | 25 | 29.25 |
| ◆◆C14-33-NL | 3/4" | 3/4" | 0.5 | 25 | 25.31 |
| ◆◆C14-34-NL | 3/4" | 1" | 0.7 | 18 | 29.82 |
| C14-35-NL | 3/4" | 1-1/4" | 1.2 | 10 | 51.73 |
| ▶◆C14-43-NL | 1" | 3/4" | 0.7 | 20 | 30.13 |
| ◆◆C14-44-NL | 1" | 1" | 0.9 | 15 | 34.35 |
| C14-45-NL | 1" | 1-1/4" | 1.2 | 10 | 48.95 |
| ▶*PJA4-44-C14-54-NL | 1-1/4" | 1" | 0.9 | 12 | 36.81 |
| * PJA4-44-C14-54-Q-NL | 1-1/4" | 1" | 1.0 | 12 | 36.81 |
| *◆PJA4-45-C14-55-NL | 1-1/4" | 1-1/4" | 1.7 | 10 | 62.71 |
| * PJA4-46-C14-56-NL | 1-1/4" | 1-1/2" | 1.7 | 10 | 78.42 |
| ◆C14-66-NL | 1-1/2" | 1-1/2" | 2.3 | 5 | 99.86 |
| C14-67-NL | 1-1/2" | 2" | 2.5 | 3 | 112.75 |
| C14-76-NL | 2" | 1-1/2" | 2.9 | 4 | 107.09 |
| ◆C14-77-NL | 2" | 2" | 3.0 | 3 | 118.91 |
| ◆C14-87-NL | 2-1/2" | 2" | 4.8 | 3 | 182.69 |
| C14-87-Q-NL | 2-1/2" | 2" | 4.6 | - | 204.58 |
| C14-88-NL | 2-1/2" | 2-1/2" | 6.3 | 2 | 208.85 |
| ELL COUPLINGS | | | | | |
| L14-11-Q-NL | 1/2" | 1/2" | 0.7 | - | 30.38 |
| ▶◆L14-33-NL | 3/4" | 3/4" | 0.9 | 16 | 34.14 |
| ▶ L14-43-NL | 1" | 3/4" | 1.0 | 12 | 35.26 |
| L14-43-Q-NL | 1" | 3/4" | 1.0 | - | 37.72 |
| ▶◆L14-44-NL | 1" | 1" | 1.7 | 8 | 55.67 |
| ◆L14-54-NL | 1-1/4" | 1" | 1.5 | 8 | 58.61 |
| ◆L14-66-NL | 1-1/2" | 1-1/2" | 3.4 | 2 | 140.95 |
| ◆L14-77-NL | 2" | 2" | 6.7 | 2 | 201.49 |
| EIGHTH BEND COUPLINGS | | | | | |
| ◆LA14-33-NL | 3/4" | 3/4" | 0.8 | 18 | 38.68 |
| ▶◆LA14-43-NL | 1" | 3/4" | 0.7 | 18 | 37.43 |
| ◆LA14-44-NL | 1" | 1" | 1.3 | 10 | 74.89 |
| ▶ LA14-54-NL | 1-1/4" | 1" | 1.1 | - | 51.80 |
| LA14-76-NL | 2" | 1-1/2" | 2.7 | 4 | 140.91 |
| LA14-87-NL | 2-1/2" | 2" | 5.2 | 2 | 225.04 |



FLARE COPPER TO PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS)

| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|---------------------------|--------------|--------------|------------------|----------------|------------|
| | FLARE COPPER | P.J. FOR CTS | | | |
| STRAIGHT COUPLINGS | | | | | |
| ▶C24-13-NL | 1/2" | 3/4" | 0.7 | 24 | \$ 33.97 |
| ▶C24-33-NL | 3/4" | 3/4" | 0.9 | 14 | 40.33 |
| ▶C24-34-NL | 3/4" | 1" | 1.1 | 12 | 42.71 |
| ▶C24-44-NL | 1" | 1" | 1.7 | 10 | 65.30 |
| C24-45-NL | 1" | 1 1/4" | 1.9 | 6 | 73.94 |
| ELL COUPLINGS | | | | | |
| ▶◆L24-33-NL | 3/4" | 3/4" | 1.0 | 14 | 42.97 |
| ▶◆L24-44-NL | 1" | 1" | 1.6 | 8 | 59.16 |



Grip Joint for CTS (3/4"-2") can be ordered by inserting "-G" into the catalog number. Example: C14-33-G-NL

◆ **Quick Joint** is available. Insert "-Q" into the catalog number. Example: C14-33-Q-NL

* Pack Joint compression assemblies also used on 1" Kornerhorns and 270 series coppersetters.

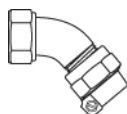
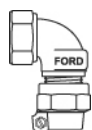
▶ Ultra-Tite is available. Insert "-U-AWT" into the catalog number (consists of components assembled watertight). Contact factory for pricing and availability. Example: L24-33-U-AWT-NL

● Ultra-Tite is available. Insert "-U" into the catalog number. Example: C14-44-U-NL

PACK JOINT COUPLINGS FOR COPPER OR PLASTIC TUBING (CTS) (CONTINUED)

FEMALE COPPER THREAD TO PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS) (REPLACES COPPER FLARE NUT)

| CATALOG NUMBER | DESCRIPTION | | APPROX. Wt. LBS. | STD. PKG. QTY. | LIST PRICE |
|---|-----------------|--------------|------------------|----------------|------------|
| | FEM. COP. THRD. | P.J. FOR CTS | | | |
| STRAIGHT COUPLINGS | | | | | |
| C04-23-NL | 5/8" | 3/4" | 0.7 | 20 | \$ 30.61 |
| ◆C04-33-NL | 3/4" | 3/4" | 0.7 | 20 | 27.38 |
| ● C04-34-NL | 3/4" | 1" | 0.8 | 18 | 31.90 |
| C04-34-Q-NL | 3/4" | 1" | 0.9 | 18 | 35.43 |
| ▶◆C04-43-NL | 1" | 3/4" | 0.9 | 14 | 34.14 |
| ◆◆C04-44-NL | 1" | 1" | 1.0 | 12 | 40.25 |
| ◆C04-45-NL | 1" | 1-1/4" | 1.4 | 10 | 53.67 |
| ◆C04-54-NL | 1-1/4" | 1" | 1.2 | 10 | 43.36 |
| ◆C04-55-NL | 1-1/4" | 1-1/4" | 1.8 | 8 | 66.68 |
| ◆C04-66-NL | 1-1/2" | 1-1/2" | 2.7 | 4 | 92.99 |
| ◆C04-77-NL | 2" | 2" | 4.4 | 2 | 145.03 |
| ELL COUPLINGS | | | | | |
| ▶L04-33-NL | 3/4" | 3/4" | 0.9 | 15 | 35.26 |
| L04-33-Q-NL | 3/4" | 3/4" | 0.9 | - | 39.48 |
| L04-34-NL | 3/4" | 1" | 1.0 | 10 | 36.05 |
| ▶L04-44-NL | 1" | 1" | 1.4 | 8 | 53.46 |
| L04-45-NL | 1" | 1-1/4" | 1.8 | - | 59.82 |
| L04-66-NL | 1-1/2" | 1-1/2" | 3.4 | 2 | 163.44 |
| L04-77-NL | 2" | 2" | 6.5 | 2 | 274.12 |
| ELL COUPLINGS WITH SWIVEL | | | | | |
| ▶◆L04-33S-NL | 3/4" | 3/4" | 1.0 | 12 | 48.27 |
| ▶◆L04-44S-NL | 1" | 1" | 1.7 | 8 | 65.83 |
| ◆L04-66S-NL | 1-1/2" | 1-1/2" | 3.8 | 2 | 170.94 |
| ◆L04-77S-NL | 2" | 2" | 6.9 | 1 | 288.54 |
| EIGHTH BEND COUPLINGS | | | | | |
| ▶LA04-33-NL | 3/4" | 3/4" | 0.7 | 18 | 31.62 |
| ▶LA04-44-NL | 1" | 1" | 1.1 | 10 | 51.17 |
| LA04-66-NL | 1-1/2" | 1-1/2" | 2.5 | 4 | 126.59 |
| LA04-77-NL | 2" | 2" | 4.4 | 2 | 193.89 |
| EIGHTH BEND COUPLING WITH SWIVEL | | | | | |
| ▶◆LA04-33S-NL | 3/4" | 3/4" | 1.0 | 15 | 43.22 |
| ▶ LA04-44S-NL | 1" | 1" | 1.3 | 10 | 61.43 |
| +LA04-66S-NL | 1-1/2" | 1-1/2" | 4.0 | 2 | 215.26 |
| +LA04-77S-NL | 2" | 2" | 6.6 | 1 | 304.70 |



Grip Joint for CTS (3/4"-2") is available. Insert "-G" into the catalog number. Example: C04-33-G-NL

◆ **Quick Joint** is available. Insert "-Q" into the catalog number. Example: C04-33-Q-NL

+ Consists of two individual pieces assembled watertight.

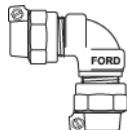
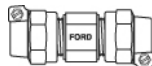
▶ Ultra-Tite is available. Insert "-U-AWT" into the catalog number (consists of components assembled watertight). Contact factory for pricing and availability. Example: L04-44-U-AWT-NL

● Ultra-Tite is available. Insert "-U" into the catalog number. Example: C04-44-U-NL

PACK JOINT COUPLINGS FOR PE PIPE

PACK JOINT FOR PE PIPE BOTH ENDS

| CATALOG NUMBER | DESCRIPTION | | APPROX. Wt. LBS. | STD. PKG. QTY. | LIST PRICE |
|---------------------------|------------------|------------------|------------------|----------------|------------|
| | P.J. FOR PE PIPE | P.J. FOR PE PIPE | | | |
| STRAIGHT COUPLINGS | | | | | |
| ◆◆C66-33-NL | 3/4" | 3/4" | 1.3 | 10 | \$ 36.58 |
| ▶C66-34-NL | 3/4" | 1" | 1.5 | 6 | 56.62 |
| ◆◆C66-44-NL | 1" | 1" | 2.2 | 4 | 73.12 |
| C66-55-NL | 1-1/4" | 1-1/4" | 2.7 | 4 | 103.40 |
| C66-66-IDR7-NL | 1-1/2" | 1-1/2" | 4.6 | 5 | 159.33 |
| C66-77-IDR7-NL | 2" | 2" | 6.8 | 6 | 214.66 |
| ELL COUPLINGS | | | | | |
| ▶L66-33-NL | 3/4" | 3/4" | 1.4 | 8 | 53.34 |
| ▶L66-44-NL | 1" | 1" | 2.3 | 6 | 82.81 |
| L66-66-IDR7-NL | 1-1/2" | 1-1/2" | 5.0 | 3 | 218.42 |
| L66-77-IDR7-NL | 2" | 2" | 8.2 | 2 | 353.71 |



Grip Joint for PEP (3/4"-1") is available. Insert "-G" into the catalog number. Example: C66-33-G-NL

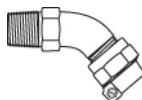
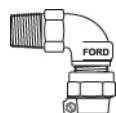
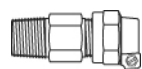
◆ **Quick Joint** is available. Insert "-Q" into the catalog number. Example: C66-33-Q-NL

▶ Ultra-Tite is available. Insert "-U-AWT" into the catalog number (consists of components assembled watertight). Contact factory for pricing and availability. Example: L66-44-U-AWT-NL

● Ultra-Tite is available. Insert "-U" into the catalog number. Example: C66-44-U-NL

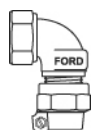
PACK JOINT COUPLINGS FOR PE PIPE (CONTINUED)

MALE IRON PIPE THREAD TO PACK JOINT FOR POLYETHYLENE PIPE



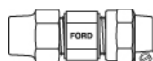
| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|------------------------------|----------------|------------------|------------------|----------------|------------|
| | MALE IRON PIPE | P.J. FOR PE PIPE | | | |
| STRAIGHT COUPLINGS | | | | | |
| ◆ C86-33-NL | 3/4" | 3/4" | 0.8 | 18 | \$ 31.86 |
| ● C86-34-NL | 3/4" | 1" | 1.3 | 10 | 51.88 |
| C86-34-Q-NL | 3/4" | 1" | 1.3 | 12 | 58.64 |
| ◆ C86-44-NL | 1" | 1" | 1.4 | 12 | 46.31 |
| C86-54-NL | 1-1/4" | 1" | 1.4 | 8 | 62.24 |
| C86-55-NL | 1-1/4" | 1-1/4" | 1.7 | 5 | 70.17 |
| C86-65-NL | 1-1/2" | 1-1/4" | 2.1 | 5 | 78.72 |
| C86-66-IDR7-NL | 1-1/2" | 1-1/2" | 2.5 | 3 | 109.81 |
| C86-77-IDR7-NL | 2" | 2" | 5.2 | 5 | 174.45 |
| ELL COUPLINGS | | | | | |
| ▶ L86-33-NL | 3/4" | 3/4" | 0.9 | 14 | 41.12 |
| ▶ L86-44-NL | 1" | 1" | 1.5 | 8 | 67.13 |
| L86-77-IDR7-NL | 2" | 2" | 5.5 | 2 | 174.80 |
| EIGHTH BEND COUPLINGS | | | | | |
| LA86-44-NL | 1" | 1" | 1.5 | 8 | 67.04 |

FEMALE IRON PIPE THREAD TO PACK JOINT FOR PE PIPE



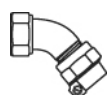
| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|---------------------------|----------------|------------------|------------------|----------------|------------|
| | FEM. IRON PIPE | P.J. FOR PE PIPE | | | |
| STRAIGHT COUPLINGS | | | | | |
| ◆ C16-33-NL | 3/4" | 3/4" | 0.7 | 18 | \$ 31.21 |
| ● C16-34-NL | 3/4" | 1" | 1.3 | 10 | 43.36 |
| ◆ C16-44-NL | 1" | 1" | 1.2 | 10 | 39.86 |
| ▶ *PJA6-44-C16-54-NL | 1-1/4" | 1" | 1.5 | 10 | 49.05 |
| *PJA6-45-C16-55-NL | 1-1/4" | 1-1/4" | 1.5 | 8 | 57.47 |
| *PJA6-44-C16-56-IDR7-NL | 1-1/4" | 1-1/2" | 2.6 | - | 84.96 |
| C16-65-NL | 1-1/2" | 1-1/4" | 2.3 | 8 | 76.23 |
| C16-66-IDR7-NL | 1-1/2" | 1-1/2" | 2.8 | 3 | 98.03 |
| C16-77-IDR7-NL | 2" | 2" | 4.9 | 2 | 158.25 |
| ELL COUPLINGS | | | | | |
| ▶ L16-33-NL | 3/4" | 3/4" | 1.0 | 15 | 41.42 |
| ▶ L16-44-NL | 1" | 1" | 2.0 | 5 | 62.32 |

FLARE COPPER TO PACK JOINT FOR PE PIPE



| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|---------------------------|--------------|------------------|------------------|----------------|------------|
| | FLARE COPPER | P.J. FOR PE PIPE | | | |
| STRAIGHT COUPLINGS | | | | | |
| ▶ C26-33-NL | 3/4" | 3/4" | 1.0 | 12 | \$ 42.16 |
| ▶ C26-34-NL | 3/4" | 1" | 1.6 | 8 | 62.81 |
| ▶ C26-44-NL | 1" | 1" | 1.9 | 6 | 68.88 |

FEMALE COPPER THREAD TO PACK JOINT FOR PE PIPE (REPLACES COPPER FLARE NUT)



| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|------------------------------|-----------------|------------------|------------------|----------------|------------|
| | FEM. COP. THRD. | P.J. FOR PE PIPE | | | |
| STRAIGHT COUPLINGS | | | | | |
| ◆ C06-33-NL | 3/4" | 3/4" | 0.8 | 18 | \$ 33.24 |
| ● C06-34-NL | 3/4" | 1" | 1.3 | 10 | 47.64 |
| ▶ C06-43-NL | 1" | 3/4" | 1.0 | 12 | 41.59 |
| ● C06-44-NL | 1" | 1" | 1.4 | 8 | 53.67 |
| C06-44-Q-NL | 1" | 1" | 1.5 | 10 | 62.33 |
| C06-45-NL | 1" | 1-1/4" | 1.8 | 6 | 66.06 |
| C06-55-NL | 1-1/4" | 1-1/4" | 1.9 | 6 | 76.59 |
| C06-66-IDR7-NL | 1-1/2" | 1-1/2" | 3.1 | 3 | 118.74 |
| C06-77-IDR7-NL | 2" | 2" | 5.3 | 2 | 205.11 |
| ELL COUPLINGS | | | | | |
| ▶ L06-33-NL | 3/4" | 3/4" | 0.9 | 12 | 37.60 |
| ▶ L06-44-NL | 1" | 1" | 1.8 | 6 | 65.71 |
| EIGHTH BEND COUPLINGS | | | | | |
| ▶ LA06-33-NL | 3/4" | 3/4" | 0.9 | 15 | 40.97 |
| ▶ LA06-44-NL | 1" | 1" | 1.6 | 5 | 71.94 |

Grip Joint for PEP (3/4" and 1") is available. Insert "-G" into the catalog number. Example: C16-33-G-NL

◆ **Quick Joint** is available. Insert "-Q" into the catalog number. Example: C16-33-Q-NL

* Pack Joint compression assemblies also used on 1" Kornerhorns and 270 series coppersettors.

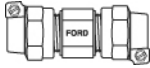
▶ **Ultra-Tite** is available. Insert "-U-AWT" into the catalog number (consists of components assembled watertight). Contact factory for pricing and availability. Example: L06-44-U-AWT-NL

● **Ultra-Tite** is available. Insert "-U" into the catalog number. Example: C06-44-U-NL

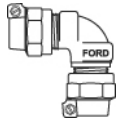
PACK JOINT COUPLINGS FOR PVC PIPE

PACK JOINT FOR PVC PIPE BOTH ENDS

| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|---------------------------|-------------------|-------------------|------------------|----------------|------------|
| | P.J. FOR PVC PIPE | P.J. FOR PVC PIPE | | | |
| STRAIGHT COUPLINGS | | | | | |
| C77-11-NL | 1/2" | 1/2" | 0.9 | 14 | \$ 29.31 |
| C77-33-NL | 3/4" | 3/4" | 1.2 | 10 | 42.82 |
| C77-34-NL | 3/4" | 1" | 1.5 | 8 | 58.39 |
| C77-44-NL | 1" | 1" | 2.2 | 5 | 72.67 |
| C77-55-NL | 1-1/4" | 1-1/4" | 3.0 | 4 | 104.29 |
| C77-66-NL | 1-1/2" | 1-1/2" | 3.9 | 3 | 141.80 |
| C77-77-NL | 2" | 2" | 6.2 | 1 | 214.48 |



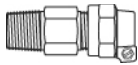
| ELL COUPLINGS | | | | | |
|----------------------|--------|--------|-----|---|--------|
| L77-11-NL | 1/2" | 1/2" | 1.0 | - | 44.27 |
| L77-33-NL | 3/4" | 3/4" | 1.5 | 6 | 50.64 |
| L77-44-NL | 1" | 1" | 3.0 | 4 | 89.43 |
| L77-66-NL | 1-1/2" | 1-1/2" | 5.4 | 2 | 211.76 |
| L77-77-NL | 2" | 2" | 8.5 | 1 | 353.71 |



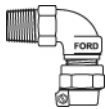
MALE IRON PIPE THREAD TO PACK JOINT FOR PVC PIPE

| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|----------------|----------------|-------------------|------------------|----------------|------------|
| | MALE IRON PIPE | P.J. FOR PVC PIPE | | | |

| STRAIGHT COUPLINGS | | | | | |
|---------------------------|--------|--------|-----|----|----------|
| C87-11-NL | 1/2" | 1/2" | 0.6 | - | \$ 25.56 |
| C87-31-NL | 3/4" | 1/2" | 0.6 | 20 | 29.16 |
| C87-33-NL | 3/4" | 3/4" | 0.8 | 18 | 31.86 |
| ‡ C87-33-4-75-NL | 3/4" | 3/4" | 1.2 | 15 | 47.50 |
| C87-34-NL | 3/4" | 1" | 1.2 | 10 | 47.57 |
| C87-43-NL | 1" | 3/4" | 0.9 | 14 | 42.90 |
| C87-44-NL | 1" | 1" | 1.4 | 12 | 49.76 |
| C87-45-NL | 1" | 1-1/4" | 1.7 | 5 | 59.14 |
| C87-46-NL | 1" | 1-1/2" | 2.2 | 4 | 88.96 |
| C87-47-NL | 1" | 2" | 2.6 | 3 | 93.50 |
| C87-54-NL | 1-1/4" | 1" | 1.4 | 6 | 56.00 |
| C87-55-NL | 1-1/4" | 1-1/4" | 1.7 | 5 | 76.07 |
| C87-65-NL | 1-1/2" | 1-1/4" | 2.1 | 5 | 93.60 |
| C87-66-NL | 1-1/2" | 1-1/2" | 2.4 | 4 | 97.81 |
| C87-77-NL | 2" | 2" | 3.7 | 3 | 142.13 |



| ELL COUPLINGS | | | | | |
|----------------------|------|------|-----|----|--------|
| L87-31-NL | 3/4" | 1/2" | 0.8 | - | 36.28 |
| L87-33-NL | 3/4" | 3/4" | 0.9 | 14 | 35.18 |
| L87-34-NL | 3/4" | 1" | 1.5 | 8 | 50.99 |
| L87-44-NL | 1" | 1" | 1.5 | 8 | 57.50 |
| L87-77-NL | 2" | 2" | 5.1 | - | 197.22 |



‡ Extended coupling length (4-75 for 4-3/4")

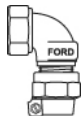
FEMALE IRON PIPE THREAD TO PACK JOINT FOR PVC PIPE

| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|----------------|------------------|-------------------|------------------|----------------|------------|
| | FEMALE IRON PIPE | P.J. FOR PVC PIPE | | | |

| STRAIGHT COUPLINGS | | | | | |
|---------------------------|--------|--------|-----|----|----------|
| C17-31-NL | 3/4" | 1/2" | 0.5 | - | \$ 28.92 |
| C17-33-NL | 3/4" | 3/4" | 0.7 | 18 | 31.64 |
| C17-34-NL | 3/4" | 1" | 1.2 | 10 | 49.85 |
| C17-36-NL | 3/4" | 1-1/2" | 2.0 | 4 | 88.38 |
| C17-44-NL | 1" | 1" | 2.1 | 10 | 48.80 |
| * PJA7-44-C17-54-NL | 1-1/4" | 1" | 1.4 | - | 42.09 |
| * PJA7-45-C17-55-NL | 1-1/4" | 1-1/4" | 1.6 | 8 | 59.58 |
| * PJA7-46-C17-56-NL | 1-1/4" | 1-1/2" | 2.4 | 4 | 91.14 |
| C17-66-NL | 1-1/2" | 1-1/2" | 2.6 | 4 | 121.47 |
| C17-77-NL | 2" | 2" | 4.5 | 3 | 163.30 |



| ELL COUPLINGS | | | | | |
|----------------------|--------|--------|-----|----|--------|
| L17-31-NL | 3/4" | 1/2" | 1.0 | - | 36.29 |
| L17-33-NL | 3/4" | 3/4" | 1.0 | 12 | 41.42 |
| L17-44-NL | 1" | 1" | 2.0 | - | 50.97 |
| L17-66-NL | 1-1/2" | 1-1/2" | 3.8 | - | 142.92 |

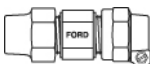


* Pack Joint compression assemblies also used with KH-4 Kernerhorns and 274 series coppersettors

FLARE COPPER TO PACK JOINT FOR PVC PIPE

| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|----------------|--------------|-------------------|------------------|----------------|------------|
| | FLARE COPPER | P.J. FOR PVC PIPE | | | |

| STRAIGHT COUPLINGS | | | | | |
|---------------------------|------|------|-----|----|----------|
| C27-31-NL | 3/4" | 1/2" | 1.0 | - | \$ 44.39 |
| C27-33-NL | 3/4" | 3/4" | 1.1 | 14 | 44.20 |
| C27-34-NL | 3/4" | 1" | 1.6 | - | 74.54 |
| C27-44-NL | 1" | 1" | 1.9 | 6 | 77.89 |



| ELL COUPLINGS | | | | | |
|----------------------|------|------|-----|---|-------|
| L27-31-NL | 3/4" | 1/2" | 1.1 | - | 47.22 |



Note: Ford Pack Joints for PVC are only recommended for Schedule 40 and Schedule 80 pipe.

PACK JOINT COUPLINGS FOR PVC PIPE (CONTINUED)

FEMALE COPPER THREAD TO PACK JOINT FOR PVC PIPE (REPLACES COPPER FLARE NUT)

| CATALOG NUMBER | DESCRIPTION | | APPROX. Wt. LBS. | STD. PKG. QTY. | LIST PRICE |
|---------------------------|-----------------|-------------------|------------------|----------------|------------|
| | FEM. COP. THRD. | P.J. FOR PVC PIPE | | | |
| STRAIGHT COUPLINGS | | | | | |
| C07-11-NL | 1/2" | 1/2" | 0.7 | - | \$ 26.76 |
| C07-13-NL | 1/2" | 3/4" | 0.7 | - | 30.97 |
| C07-33-NL | 3/4" | 3/4" | 0.8 | 18 | 33.24 |
| C07-34-NL | 3/4" | 1" | 1.3 | 10 | 49.63 |
| C07-44-NL | 1" | 1" | 1.4 | 10 | 53.67 |
| C07-54-NL | 1-1/4" | 1" | 1.6 | - | 59.59 |
| C07-55-NL | 1-1/4" | 1-1/4" | 1.9 | - | 76.59 |
| C07-66-NL | 1-1/2" | 1-1/2" | 3.0 | 4 | 114.33 |
| C07-77-NL | 2" | 2" | 4.7 | 3 | 177.86 |

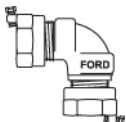


Note: Ford Pack Joints for PVC are recommended for Schedule 40 and Schedule 80 pipe only.

PACK JOINT COUPLINGS FOR IRON PIPE

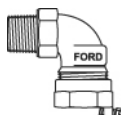
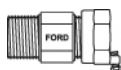
PACK JOINT FOR IRON PIPE BOTH ENDS

| CATALOG NUMBER | DESCRIPTION | | APPROX. Wt. LBS. | STD. PKG. QTY. | LIST PRICE |
|---------------------------|--------------------|--------------------|------------------|----------------|------------|
| | P.J. FOR IRON PIPE | P.J. FOR IRON PIPE | | | |
| STRAIGHT COUPLINGS | | | | | |
| C55-11-NL | 1/2" | 1/2" | 0.8 | 20 | \$ 29.39 |
| C55-13-NL | 1/2" | 3/4" | 0.8 | 18 | 30.84 |
| C55-33-NL | 3/4" | 3/4" | 0.9 | 15 | 32.29 |
| C55-34-NL | 3/4" | 1" | 1.1 | 10 | 41.67 |
| C55-44-NL | 1" | 1" | 1.6 | 6 | 56.98 |
| C55-55-NL | 1-1/4" | 1-1/4" | 2.2 | 4 | 76.76 |
| C55-66-NL | 1-1/2" | 1-1/2" | 2.9 | 4 | 111.17 |
| C55-77-NL | 2" | 2" | 4.2 | 2 | 146.32 |
| ELL COUPLINGS | | | | | |
| L55-11-NL | 1/2" | 1/2" | 0.9 | - | 35.72 |
| L55-33-NL | 3/4" | 3/4" | 1.2 | 9 | 44.79 |
| L55-44-NL | 1" | 1" | 1.7 | 4 | 86.67 |
| L55-77-NL | 2" | 2" | 6.7 | 1 | 345.48 |



MALE IRON PIPE THREAD TO PACK JOINT FOR IRON PIPE

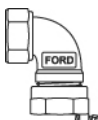
| CATALOG NUMBER | DESCRIPTION | | APPROX. Wt. LBS. | STD. PKG. QTY. | LIST PRICE |
|---------------------------|----------------|--------------------|------------------|----------------|------------|
| | MALE IRON PIPE | P.J. FOR IRON PIPE | | | |
| STRAIGHT COUPLINGS | | | | | |
| C85-11-NL | 1/2" | 1/2" | 0.5 | 30 | \$ 24.22 |
| C85-31-NL | 3/4" | 1/2" | 0.6 | 25 | 26.45 |
| C85-33-NL | 3/4" | 3/4" | 0.6 | 20 | 29.04 |
| ‡ C85-33-4-75-NL | 3/4" | 3/4" | 1.2 | 15 | 45.90 |
| C85-34-NL | 3/4" | 1" | 1.0 | 14 | 42.71 |
| C85-43-NL | 1" | 3/4" | 0.7 | 18 | 34.11 |
| C85-44-NL | 1" | 1" | 1.1 | 12 | 44.33 |
| C85-55-NL | 1-1/4" | 1-1/4" | 1.3 | 8 | 62.61 |
| C85-66-NL | 1-1/2" | 1-1/2" | 1.9 | 5 | 89.57 |
| C85-77-NL | 2" | 2" | 2.7 | 3 | 116.75 |
| ELL COUPLINGS | | | | | |
| L85-31-NL | 3/4" | 1/2" | 0.5 | - | 27.30 |
| L85-33-NL | 3/4" | 3/4" | 0.7 | 14 | 30.38 |
| L85-44-NL | 1" | 1" | 1.2 | 8 | 53.65 |



‡ Extended coupling length (4-75 for 4-3/4")

FEMALE IRON PIPE THREAD TO PACK JOINT FOR IRON PIPE

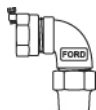
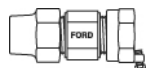
| CATALOG NUMBER | DESCRIPTION | | APPROX. Wt. LBS. | STD. PKG. QTY. | LIST PRICE |
|---------------------------|------------------|--------------------|------------------|----------------|------------|
| | FEMALE IRON PIPE | P.J. FOR IRON PIPE | | | |
| STRAIGHT COUPLINGS | | | | | |
| C15-11-NL | 1/2" | 1/2" | 0.4 | 25 | \$ 24.06 |
| C15-31-NL | 3/4" | 1/2" | 0.5 | 25 | 25.46 |
| C15-33-NL | 3/4" | 3/4" | 0.6 | 25 | 28.82 |
| C15-34-NL | 3/4" | 1" | 0.9 | 10 | 39.89 |
| C15-44-NL | 1" | 1" | 0.9 | 12 | 41.69 |
| * PJA5-44-C15-54-NL | 1-1/4" | 1" | 1.2 | 10 | 42.09 |
| * PJA5-45-C15-55-NL | 1-1/4" | 1-1/4" | 1.3 | 8 | 51.70 |
| * PJA5-46-C15-56-NL | 1-1/4" | 1-1/2" | 1.8 | 6 | 73.33 |
| C15-66-NL | 1-1/2" | 1-1/2" | 2.2 | 6 | 99.86 |
| C15-77-NL | 2" | 2" | 3.4 | 3 | 140.03 |
| ELL COUPLINGS | | | | | |
| L15-31-NL | 3/4" | 1/2" | 0.8 | - | 35.34 |
| L15-44-NL | 1" | 1" | 1.7 | - | 43.87 |



* Pack Joint compression assemblies also used on 1" Kornerhorns and 270 series copper setters.

PACK JOINT COUPLINGS FOR IRON PIPE (CONTINUED)

FLARE COPPER TO PACK JOINT FOR IRON PIPE



| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|---------------------------|--------------|--------------------|------------------|----------------|-----------------|
| | FLARE COPPER | P.J. FOR IRON PIPE | | | |
| STRAIGHT COUPLINGS | | | | | |
| C25-11-NL | 1/2" | 1/2" | 0.6 | - | \$ 33.52 |
| C25-31-NL | 3/4" | 1/2" | 0.9 | 16 | 39.52 |
| C25-33-NL | 3/4" | 3/4" | 0.9 | 14 | 41.42 |
| C25-34-NL | 3/4" | 1" | 1.3 | 10 | 74.42 |
| C25-44-NL | 1" | 1" | 1.6 | 8 | 66.54 |
| C25-45-NL | 1" | 1-1/4" | 1.8 | 5 | 73.74 |
| ELL COUPLINGS | | | | | |
| L25-33-NL | 3/4" | 3/4" | 1.0 | 12 | 41.91 |

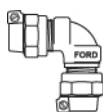
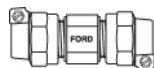
FEMALE COPPER THREAD TO PACK JOINT FOR IRON PIPE (REPLACES COPPER FLARE NUT)



| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|---------------------------|-----------------|--------------------|------------------|----------------|-----------------|
| | FEM. COP. THRD. | P.J. FOR IRON PIPE | | | |
| STRAIGHT COUPLINGS | | | | | |
| C05-33-NL | 3/4" | 3/4" | 0.6 | 20 | \$ 33.27 |
| C05-44-NL | 1" | 1" | 1.1 | - | 55.71 |
| C05-55-NL | 1-1/4" | 1-1/4" | 1.5 | - | 91.09 |
| C05-66-NL | 1-1/2" | 1-1/2" | 2.5 | - | 128.95 |
| C05-77-NL | 2" | 2" | 3.7 | - | 184.39 |

PACK JOINT (BOTH ENDS) FOR CONNECTING DISSIMILAR TYPES OF PIPE AND TUBING

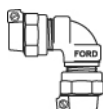
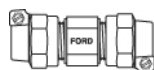
PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS) TO PE PIPE



| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|---------------------------|--------------|------------------|------------------|----------------|-----------------|
| | P.J. FOR CTS | P.J. FOR PE PIPE | | | |
| STRAIGHT COUPLINGS | | | | | |
| ▶ C46-33-NL | 3/4" | 3/4" | 1.0 | 12 | \$ 35.02 |
| C46-33-Q-NL | 3/4" | 3/4" | 1.2 | 18 | 40.33 |
| ▶ C46-34-NL | 3/4" | 1" | 1.7 | 6 | 55.32 |
| ▶ C46-43-NL | 1" | 3/4" | 1.2 | 10 | 36.52 |
| C46-43-Q-NL | 1" | 3/4" | 1.5 | 10 | 39.41 |
| ▶ C46-44-NL | 1" | 1" | 1.5 | 10 | 52.91 |
| C46-65-NL | 1-1/2" | 1-1/4" | 3.1 | - | 134.18 |
| ELL COUPLINGS | | | | | |
| ▶ L46-33-NL | 3/4" | 3/4" | 1.2 | 10 | 42.90 |
| ▶ L46-44-NL | 1" | 1" | 1.9 | - | 64.61 |

Grip Joint for CTS (3/4"-2") and PEP (3/4" and 1") can be ordered by inserting "-G" into the catalog number. Example: C46-33-G-NL

PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS) TO PVC PIPE



| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|--------------------------|--------------|-------------------|------------------|----------------|-----------------|
| | P.J. FOR CTS | P.J. FOR PVC PIPE | | | |
| STRAIGHT COUPLING | | | | | |
| C47-11-NL | 1/2" | 1/2" | 0.8 | 14 | \$ 32.10 |
| C47-31-NL | 3/4" | 1/2" | 0.9 | 14 | 39.35 |
| ▶♦ C47-33-NL | 3/4" | 3/4" | 1.0 | 12 | 39.62 |
| ▶ C47-34-NL | 3/4" | 1" | 1.7 | 8 | 55.44 |
| ▶ C47-43-NL | 1" | 3/4" | 1.2 | 10 | 41.82 |
| ▶ C47-44-NL | 1" | 1" | 1.5 | 10 | 57.25 |
| C47-45-NL | 1" | 1-1/4" | 2.0 | 8 | 60.96 |
| C47-66-NL | 1-1/2" | 1-1/2" | 3.5 | 4 | 154.32 |
| C47-77-NL | 2" | 2" | 5.3 | 4 | 180.16 |
| ELL COUPLINGS | | | | | |
| ▶ L47-33-NL | 3/4" | 3/4" | 1.3 | 10 | 47.05 |
| ▶ L47-34-NL | 3/4" | 1" | 1.8 | 8 | 66.06 |
| ▶ L47-44-NL | 1" | 1" | 1.9 | 5 | 71.07 |

Grip Joint for CTS can be ordered by inserting "-G" into the catalog number. Example: C47-33-G-NL

♦ Quick Joint is available for CTS. Insert "-Q" into the catalog number. Example: C47-33-Q-NL

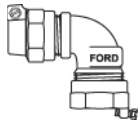
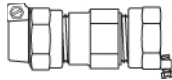
▶ Ultra-Tite is available. Insert "-U-AWT" into the catalog number (consists of components assembled watertight). Contact factory for pricing and availability. Example: C46-33-U-AWT-NL

Note: Ford Pack Joints for PVC are recommended for Schedule 40 and Schedule 80 pipe only.

PACK JOINT (BOTH ENDS) FOR CONNECTING DISSIMILAR TYPES OF PIPE AND TUBING (CONTINUED)

PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS) TO IRON PIPE

| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|---------------------------|--------------|--------------------|------------------|----------------|------------|
| | P.J. FOR CTS | P.J. FOR IRON PIPE | | | |
| STRAIGHT COUPLINGS | | | | | |
| C45-11-NL | 1/2" | 1/2" | 0.7 | 20 | \$ 30.74 |
| C45-13-NL | 1/2" | 3/4" | 0.9 | 15 | 31.47 |
| C45-31-NL | 3/4" | 1/2" | 0.8 | 16 | 31.47 |
| ▶♦C45-33-NL | 3/4" | 3/4" | 0.9 | 15 | 32.44 |
| ▶♦C45-34-NL | 3/4" | 1" | 1.4 | 10 | 44.77 |
| ▶ C45-43-NL | 1" | 3/4" | 1.0 | 12 | 36.48 |
| ▶ C45-44-NL | 1" | 1" | 1.2 | 8 | 43.53 |
| C45-45-NL | 1" | 1-1/4" | 1.6 | 6 | 54.44 |
| C45-66-NL | 1-1/2" | 1-1/2" | 3.0 | 4 | 145.10 |
| C45-77-NL | 2" | 2" | 4.2 | 2 | 157.68 |
| ELL COUPLINGS | | | | | |
| L45-31-NL | 3/4" | 1/2" | 0.9 | - | 45.35 |
| L45-33-NL | 3/4" | 3/4" | 1.0 | 12 | 42.33 |
| ▶ L45-34-NL | 3/4" | 1" | 1.5 | - | 61.32 |
| ▶ L45-43-NL | 1" | 3/4" | 1.3 | - | 69.92 |
| ▶ L45-44-NL | 1" | 1" | 1.5 | 6 | 63.93 |



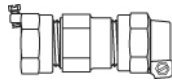
Grip Joint for CTS (3/4"-2") can be ordered by inserting "-G" into the catalog number.

Example: C45-33-G-NL

▶ **Quick Joint** is available for CTS. Insert "-Q" into the catalog number. Example: C45-33-Q-NL

PACK JOINT FOR IRON PIPE TO PE PIPE

| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|---------------------------|--------------------|------------------|------------------|----------------|------------|
| | P.J. FOR IRON PIPE | P.J. FOR PE PIPE | | | |
| STRAIGHT COUPLINGS | | | | | |
| ▶ C56-33-NL | 3/4" | 3/4" | 1.0 | 12 | \$ 39.86 |
| ▶ C56-34-NL | 3/4" | 1" | 1.4 | 8 | 55.82 |
| ▶ C56-44-NL | 1" | 1" | 1.9 | 6 | 67.55 |

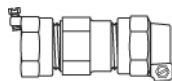


Grip Joint for PEP (3/4" and 1") can be ordered by inserting "-G" into the catalog number.

Example: C56-33-G-NL

PACK JOINT FOR IRON PIPE TO PVC PIPE

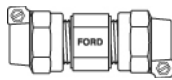
| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|---------------------------|--------------------|-------------------|------------------|----------------|------------|
| | P.J. FOR IRON PIPE | P.J. FOR PVC PIPE | | | |
| STRAIGHT COUPLINGS | | | | | |
| C57-11-NL | 1/2" | 1/2" | 0.9 | - | \$ 30.57 |
| C57-33-NL | 3/4" | 3/4" | 1.0 | 12 | 38.78 |
| C57-34-NL | 3/4" | 1" | 1.4 | 10 | 55.75 |
| C57-44-NL | 1" | 1" | 1.9 | 5 | 67.55 |
| C57-55-NL | 1-1/4" | 1-1/4" | 3.5 | - | 83.96 |
| C57-66-NL | 1-1/2" | 1-1/2" | 3.4 | - | 122.18 |
| C57-77-NL | 2" | 2" | 5.2 | 1 | 180.42 |



Note: Ford Pack Joints for PVC are recommended for Schedule 40 and Schedule 80 pipe only.

PACK JOINT FOR PE PIPE TO PVC PIPE

| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|---------------------------|------------------|-------------------|------------------|----------------|------------|
| | P.J. FOR PE PIPE | P.J. FOR PVC PIPE | | | |
| STRAIGHT COUPLINGS | | | | | |
| ▶ C67-33-NL | 3/4" | 3/4" | 1.2 | - | \$ 44.77 |
| ▶ C67-44-NL | 1" | 1" | 2.2 | 8 | 73.97 |



Grip Joint for PEP (3/4" and 1") can be ordered by inserting "-G" into the catalog number. Example: C67-33-G-NL

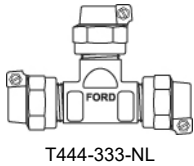
▶ **Ultra-Tite** is available. Insert "-U-AWT" into the catalog number (consists of components assembled watertight). Contact factory for pricing and availability. Example: C67-33-U-AWT-NL

Note: Ford Pack Joints for PVC are recommended for Schedule 40 and Schedule 80 pipe only.

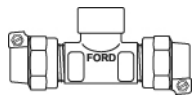
PACK JOINT TEES AND 'Y' BRANCHES

PACK JOINT TEES (ADDITIONAL TEES ARE LISTED ON PAGES J-13 AND J-20)

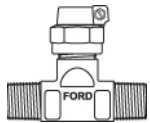
| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|--|--------------------------------------|-------------------------------------|------------------|----------------|------------|
| | BOTH ENDS (RUN) | X SIDE OUTLET | | | |
| PACK JOINT BOTH ENDS (RUN) BY PACK JOINT SIDE OUTLET | | | | | |
| ▶♦T444-333-NL | 3/4" Cop. or Plastic Tube (CTS) | x 3/4" Cop. or Plastic Tube (CTS) | 1.5 | 6 | \$ 70.92 |
| ▶♦T444-334-NL | 3/4" Cop. or Plastic Tube (CTS) | x 1" Cop. or Plastic Tube (CTS) | 1.7 | 4 | 75.56 |
| ▶♦T444-443-NL | 1" Cop. or Plastic Tube (CTS) | x 3/4" Cop. or Plastic Tube (CTS) | 1.8 | 4 | 77.92 |
| ▶♦T444-444-NL | 1" Cop. or Plastic Tube (CTS) | x 1" Cop. or Plastic Tube (CTS) | 2.0 | 4 | 75.90 |
| T444-445-NL | 1" Cop. or Plastic Tube (CTS) | x 1-1/4" Cop. or Plastic Tube (CTS) | 2.5 | 3 | 119.27 |
| T444-446-NL | 1" Cop. or Plastic Tube (CTS) | x 1-1/2" Cop. or Plastic Tube (CTS) | 3.0 | 3 | 158.70 |
| T444-666-NL | 1-1/2" Cop. or Plastic Tube (CTS) | x 1-1/2" Cop. or Plastic Tube (CTS) | 4.9 | 4 | 169.25 |
| ♦T444-774-NL | 2" Cop. or Plastic Tube (CTS) | x 1" Cop. or Plastic Tube (CTS) | 6.2 | 4 | 203.31 |
| +T444-777-NL | 2" Cop. or Plastic Tube (CTS) | x 2" Cop. or Plastic Tube (CTS) | 13.6 | 1 | 413.01 |
| T444-777-Q-NL | 2" Cop. or Plastic Tube (CTS) | x 2" Cop. or Plastic Tube (CTS) | 8.3 | 1 | 413.01 |
| T446-444-NL | 1" Cop. or Plastic Tube (CTS) | x 1" PE Pipe P.J. | 2.5 | - | 118.56 |
| T446-445-NL | 1" Cop. or Plastic Tube (CTS) | x 1-1/4" PE Pipe P.J. | 3.0 | - | 145.10 |
| ▶T666-333-NL | 3/4" PE Pipe P.J. | x 3/4" PE Pipe P.J. | 2.0 | 4 | 101.07 |
| ▶T666-334-NL | 3/4" PE Pipe P.J. | x 1" PE Pipe P.J. | 2.5 | 4 | 117.54 |
| ▶T666-443-NL | 1" PE Pipe P.J. | x 3/4" PE Pipe P.J. | 3.0 | 4 | 138.95 |
| ▶T666-444-NL | 1" PE Pipe P.J. | x 1" PE Pipe P.J. | 3.7 | 6 | 175.09 |
| T777-333-NL | 3/4" PVC P.J. | x 3/4" PVC P.J. | 2.0 | 4 | 116.22 |
| T777-444-NL | 1" PVC P.J. | x 1" PVC P.J. | 3.8 | 5 | 192.58 |
| T777-777-NL | 2" PVC P.J. | x 2" PVC P.J. | 12.2 | - | 488.12 |
| PACK JOINT BOTH ENDS (RUN) BY FEMALE IRON PIPE THREADS SIDE OUTLET | | | | | |
| ▶ T441-333-NL | 3/4" Cop. or Plastic Tube (CTS) | x 3/4" Female Iron Pipe | 1.2 | 8 | 58.52 |
| T441-333-Q-NL | 3/4" Cop. or Plastic Tube (CTS) Q.J. | x 3/4" Female Iron Pipe | 1.2 | 8 | 67.31 |
| ▶♦T441-334-NL | 3/4" Cop. or Plastic Tube (CTS) | x 1" Female Iron Pipe | 1.3 | 6 | 59.85 |
| ▶ T441-444-NL | 1" Cop. or Plastic Tube (CTS) | x 1" Female Iron Pipe | 1.7 | 4 | 72.56 |
| T441-444-Q-NL | 1" Cop. or Plastic Tube (CTS) | x 1" Female Iron Pipe | 2.2 | 4 | 83.43 |
| T441-663-NL | 1-1/2" Cop. or Plastic Tube (CTS) | x 3/4" Female Iron Pipe | 3.4 | 4 | 136.25 |
| T441-664-NL | 1-1/2" Cop. or Plastic Tube (CTS) | x 1" Female Iron Pipe | 3.4 | 4 | 136.25 |
| T441-773-NL | 2" Cop. or Plastic Tube (CTS) | x 3/4" Female Iron Pipe | 5.2 | 4 | 190.00 |
| T441-774-NL | 2" Cop. or Plastic Tube (CTS) | x 1" Female Iron Pipe | 5.3 | 4 | 190.00 |
| PACK JOINT BOTH ENDS (RUN) BY SIDE OUTLET TAPPED FOR AWWA/CC CORP STOP | | | | | |
| T440-663-NL | 1-1/2" Cop. or Plastic Tube (CTS) | x 3/4" Female AWWA Taper | 3.4 | - | 130.60 |
| T440-664-NL | 1-1/2" Cop. or Plastic Tube (CTS) | x 1" Female AWWA Taper | 3.4 | - | 130.60 |
| T440-773-NL | 2" Cop. or Plastic Tube (CTS) | x 3/4" Female AWWA Taper | 5.3 | 4 | 184.36 |
| T440-774-NL | 2" Cop. or Plastic Tube (CTS) | x 1" Female AWWA Taper | 5.3 | 4 | 182.51 |
| PACK JOINT BOTH ENDS (RUN) BY MALE IRON PIPE THREADS SIDE OUTLET | | | | | |
| T448-333-NL | 3/4" Cop. or Plastic Tube (CTS) | x 3/4" Male Iron Pipe | 1.1 | - | 58.52 |
| ▶ T448-334-NL | 3/4" Cop. or Plastic Tube (CTS) | x 1" Male Iron Pipe | 1.2 | 6 | 75.78 |
| T448-334-Q-NL | 3/4" Cop. or Plast. Tube (CTS) Q.J. | x 1" Male Iron Pipe | 1.3 | - | 87.18 |
| T448-446-NL | 1" Cop. or Plastic Tube (CTS) | x 1-1/2" Male Iron Pipe | 1.8 | 6 | 115.68 |
| MALE IRON PIPE THREADS BOTH ENDS (RUN) BY PACK JOINT SIDE OUTLET | | | | | |
| ▶ T884-333-NL | 3/4" Male Iron Pipe | x 3/4" Cop. or Plastic Tube (CTS) | 0.9 | - | 47.27 |
| ▶ T884-334-NL | 3/4" Male Iron Pipe | x 1" Cop. or Plastic Tube (CTS) | 1.0 | 10 | 53.56 |
| T884-334-Q-NL | 3/4" Male Iron Pipe | x 1" Cop. or Plastic Tube (CTS) | 1.2 | 10 | 61.60 |
| ▶ T884-444-NL | 1" Male Iron Pipe | x 1" Cop. or Plastic Tube (CTS) | 1.3 | 4 | 69.37 |
| T884-444-Q-NL | 1" Male Iron Pipe | x 1" Cop. or Plastic Tube (CTS) | 1.8 | - | 79.77 |
| FEMALE IRON PIPE TO MALE IRON PIPE THREAD (RUN) BY PACK JOINT SIDE OUTLET | | | | | |
| T184-664-NL | 1-1/2" FIP to 1-1/2" MIP | x 1" Cop. or Plastic Tube (CTS) | 2.3 | - | 128.52 |
| T184-774-NL | 2" FIP to 2" MIP | x 1" Cop. or Plastic Tube (CTS) | 2.6 | - | 143.19 |



T444-333-NL



T441-333-NL



T884-333-NL

J

Grip Joint for CTS (3/4"-2") or PEP (3/4" and 1") can be ordered by inserting "-G" into the catalog number. Example: T444-333-G-NL

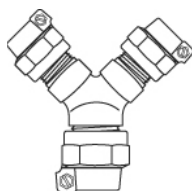
♦ **Quick Joint** is available. Insert "-Q" into the catalog number. Example: T444-333-Q-NL

▶ **Ultra-Tite** is available. Insert "-U-AWT" into the catalog number (consists of components assembled watertight). Contact factory for pricing and availability. Example: T444-333-U-AWT-NL

+ Uses Ballcorp style compression.

PACK JOINT TEES AND 'Y' BRANCHES

PACK JOINT 'Y' BRANCH (ADDITIONAL "Y" BRANCHES ARE LISTED ON PAGES J-19 AND J-20)



Y44-243-NL

| CATALOG NUMBER | DESCRIPTION | | APPROX. Wt. LBS. | STD. PKG. QTY. | LIST PRICE |
|----------------|-----------------------------------|-------------------------------------|------------------|----------------|------------|
| | SINGLE BRANCH END | MULTI-BRANCH END | | | |
| ◆Y44-233-NL | 3/4" Cop. or Plastic Tube (CTS) | Two 3/4" Cop. or Plastic Tube (CTS) | 1.6 | 6 | \$ 65.29 |
| ◆Y44-243-NL | 1" Cop. or Plastic Tube (CTS) | Two 3/4" Cop. or Plastic Tube (CTS) | 1.6 | 4 | 60.65 |
| ◆Y44-244-NL | 1" Cop. or Plastic Tube (CTS) | Two 1" Cop. or Plastic Tube (CTS) | 2.5 | 4 | 100.63 |
| Y44-254-NL | 1-1/4" Cop. or Plastic Tube (CTS) | Two 1" Cop. or Plastic Tube (CTS) | 3.1 | 6 | 137.72 |
| Y44-263-NL | 1-1/2" Cop. or Plastic Tube (CTS) | Two 3/4" Cop. or Plastic Tube (CTS) | 3.2 | 2 | 142.44 |
| Y44-264-NL | 1-1/2" Cop. or Plastic Tube (CTS) | Two 1" Cop. or Plastic Tube (CTS) | 3.6 | 2 | 146.71 |
| Y44-264-Q-NL | 1-1/2" Cop. or Plastic Tube (CTS) | Two 1" Cop. or Plastic Tube (CTS) | 3.7 | 2 | 168.73 |
| ◆Y44-274-NL | 2" Cop. or Plastic Tube (CTS) | Two 1" Cop. or Plastic Tube (CTS) | 4.1 | 2 | 169.58 |
| ◆Y48-234-NL | 1" Male Iron Pipe Thread | Two 3/4" Cop. or Plastic Tube (CTS) | 1.3 | 6 | 56.92 |
| Y48-246-NL | 1-1/2" Male Iron Pipe Thread | Two 1" Cop. or Plastic Tube (CTS) | 2.4 | 3 | 92.35 |
| Y48-247-NL | 2" Male Iron Pipe Thread | Two 1" Cop. or Plastic Tube (CTS) | 2.5 | - | 132.26 |
| Y48-347-NL | 2" Male Iron Pipe Thread | Three 1" Cop. or Plastic Tube (CTS) | 4.6 | 4 | 170.46 |
| ▶ Y66-243-NL | 1" PE Pipe P.J. | Two 3/4" PE Pipe P.J. | 3.1 | 2 | 125.21 |
| Y68-337-NL | 2" Male Iron Pipe Thread | Three 3/4" PE Pipe P.J. | 4.7 | - | 295.22 |

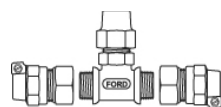
Grip Joint for CTS (3/4"-2") or PEP (3/4" and 1") can be ordered by inserting "-G" into the catalog number. Example: Y44-233-G-NL

◆ **Quick Joint** is available. Insert "-Q" into the catalog number. Example: Y44-233-Q-NL

▶ **Ultra-Tite** is available. Insert "-U-AWT" into the catalog number (consists of components assembled watertight). Contact factory for pricing and availability. Example: Y66-243-U-AWT-NL

● **Ultra-Tite** is available. Insert "-U" into the catalog number. Example: Y44-243-U-NL

CUT-IN TEES WITH DETACHABLE PACK JOINT ASSEMBLIES



TD442-333-NL

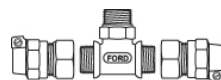
| CATALOG NUMBER | DESCRIPTION | | APPROX. Wt. LBS. | STD. PKG. QTY. | LIST PRICE |
|---|--------------------------------------|-------------------------------|------------------|----------------|------------|
| | BOTH ENDS (RUN) | SIDE OUTLET | | | |
| SIDE OUTLET FOR FLARE COPPER | | | | | |
| ◆TD442-113-NL | 1/2" Cop. or Plastic Tube (CTS) P.J. | 3/4" Flare Copper | 2.1 | - | \$ 78.47 |
| TD552-113-NL | 1/2" Iron Pipe P.J. | 3/4" Flare Copper | 2.0 | - | 70.96 |
| ◆TD442-333-NL | 3/4" Cop. or Plastic Tube (CTS) P.J. | 3/4" Flare Copper | 2.1 | - | 69.24 |
| TD552-333-NL | 3/4" Iron Pipe P.J. | 3/4" Flare Copper | 2.1 | - | 73.65 |
| TD442-443-NL | 1" Cop. or Plastic Tube (CTS) P.J. | 3/4" Flare Copper | 2.5 | - | 76.94 |
| TD552-443-NL | 1" Iron Pipe P.J. | 3/4" Flare Copper | 3.1 | - | 109.04 |
| *TD002-NL | Less P.J. Assemblies | 3/4" Flare Copper | 10.0 | - | 42.79 |
| SIDE OUTLET FOR FEMALE IRON PIPE THREADS | | | | | |
| ◆TD441-113-NL | 1/2" Cop. or Plastic Tube (CTS) P.J. | 3/4" Female Iron Pipe threads | 1.8 | - | 69.92 |
| TD551-113-NL | 1/2" Iron Pipe P.J. | 3/4" Female Iron Pipe threads | 1.6 | - | 55.11 |
| ▶◆TD441-333-NL | 3/4" Cop. or Plastic Tube (CTS) P.J. | 3/4" Female Iron Pipe threads | 1.8 | 6 | 64.16 |
| TD551-333-NL | 3/4" Iron Pipe P.J. | 3/4" Female Iron Pipe threads | 1.7 | - | 61.10 |
| ▶ TD441-443-NL | 1" Cop. or Plastic Tube (CTS) P.J. | 3/4" Female Iron Pipe threads | 2.3 | 4 | 71.94 |
| TD551-443-NL | 1" Iron Pipe P.J. | 3/4" Female Iron Pipe threads | 2.5 | - | 95.17 |
| *TD001-NL | Less P.J. Assemblies | 3/4" Female Iron Pipe threads | 0.7 | - | 27.08 |
| SIDE OUTLET FOR MALE IRON PIPE THREADS | | | | | |
| ◆TD448-113-NL | 1/2" Cop. or Plastic Tube (CTS) P.J. | 3/4" Male Iron Pipe threads | 1.8 | - | 64.64 |
| TD558-113-NL | 1/2" Iron Pipe P.J. | 3/4" Male Iron Pipe threads | - | - | 60.48 |
| ▶◆TD448-333-NL | 3/4" Cop. or Plastic Tube (CTS) P.J. | 3/4" Male Iron Pipe threads | 1.7 | 6 | 59.99 |
| TD558-333-NL | 3/4" Iron Pipe P.J. | 3/4" Male Iron Pipe threads | 2.3 | - | 63.58 |
| ▶ TD448-443-NL | 1" Cop. or Plastic Tube (CTS) P.J. | 3/4" Male Iron Pipe threads | 2.1 | 6 | 67.13 |
| TD558-443-NL | 1" Iron Pipe P.J. | 3/4" Male Iron Pipe threads | 2.8 | - | 97.87 |
| *TD008-NL | Less P.J. Assemblies | 3/4" Male Iron Pipe threads | 1.7 | - | 30.18 |

Grip Joint for CTS (3/4"-2") or PEP (3/4" and 1") can be ordered by inserting "-G" into the catalog number. Example: TD442-333-G-NL

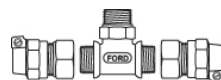
◆ **Quick Joint** is available for CTS. Insert "-Q" into the catalog number. Example: TD442-333-Q-NL

▶ **Ultra-Tite** is available. Insert "-U-AWT" into the catalog number (consists of components assembled watertight). Contact factory for pricing and availability. Example: TD441-333-U-AWT-NL

* **To purchase Pack Joint assemblies for PET, PEP, PVC and iron pipe, refer to section B under Pack Joint Assemblies for Kornerhorns.**



TD441-333-NL



TD448-333-NL

J

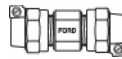
LEAD-PAK COUPLINGS



Q21-33-NL



Q1Q1-33-Q3Q3-22-NL



Q24-33-NL



Q36-23-NL

| CATALOG NUMBER | DESCRIPTION | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|---|--|------------------|----------------|------------|
| LEAD PIPE TO FEMALE IRON PIPE THREAD | | | | |
| * Q11-23-Q31-13-NL | 1/2" Dbl. Extra Strong Lead (XXS) x 3/4" Female Iron Pipe Thread or 5/8" Strong Lead (S) | 0.8 | 18 | \$ 40.77 |
| Q21-23-NL (C16-33-NL) | 5/8" Extra Strong Lead (XS) x 3/4" Female Iron Pipe Thread | 0.7 | 18 | 31.21 |
| * Q11-33-Q31-23-NL | 5/8" Dbl. Extra Strong Lead (XXS) x 3/4" Female Iron Pipe Thread or 3/4" Strong Lead (S) | 0.7 | 20 | 41.37 |
| Q21-33-NL | 3/4" Extra Strong Lead (XS) x 3/4" Female Iron Pipe Thread | 1.0 | 14 | 59.41 |
| Q31-33-NL | 3/4" Dbl. Extra Strong Lead (XXS) x 3/4" Female Iron Pipe Thread | 1.2 | 10 | 43.36 |
| Q21-44-NL | 1" Extra Strong Lead (XS) x 1" Female Iron Pipe Thread | 1.5 | 10 | 68.26 |
| LEAD PIPE TO SOLDER FITTING FOR COPPER TUBING | | | | |
| Q2S-13-NL | 1/2" Extra Strong Lead (XS) x 3/4" Solder Fit. Cop. Tubing | 0.5 | - | 26.91 |
| ○* Q1S-23-Q3S-13-NL | 1/2" Dbl. Extra Strong Lead (XXS) x 3/4" Solder Fit. Cop. Tubing or 5/8" Strong Lead (S) | 0.9 | - | 38.84 |
| ○ Q2S-23-NL | 5/8" Extra Strong Lead (XS) x 3/4" Solder Fit. Cop. Tubing | 0.7 | - | 36.58 |
| ○* Q1S-33-Q3S-23-NL | 5/8" Dbl. Extra Strong Lead (XXS) x 3/4" Solder Fit. Cop. Tubing or 3/4" Strong Lead (S) | 0.7 | - | 38.48 |
| ○ Q2S-33-NL | 3/4" Extra Strong Lead (XS) x 3/4" Solder Fit. Cop. Tubing | 1.0 | - | 42.62 |
| ○ Q1S-44-AWT-NL | 1" Strong Lead (S) x 1" Solder Fit. Cop. Tubing | 1.5 | - | 125.44 |
| ○** Q2S-44-AWT-NL | 1" Extra Strong Lead (XS) x 1" Solder Fit. Cop. Tubing | 2.0 | - | 89.76 |
| ○** Q3S-44-AWT-NL | 1" Dbl. Extra Strong Lead (XXS) x 1" Solder Fit. Cop. Tubing | 2.0 | - | 98.05 |
| LEAD PIPE TO LEAD PIPE | | | | |
| Q2Q2-11-NL (C44-33-NL) | 1/2" Extra Strong Lead (XS) x 1/2" Extra Strong Lead (XS) | 0.9 | 14 | 29.31 |
| * Q1Q1-22-Q3Q3-11-NL | 1/2" Dbl. Extra Strong Lead (XXS) x 1/2" Dbl. Extra Strong Lead (XXS) or 5/8" Strong Lead (S) | 1.1 | 12 | 50.89 |
| Q2Q2-22-NL (C66-33-NL) | 5/8" Extra Strong Lead (XS) x 5/8" Extra Strong Lead (XS) | 1.2 | 10 | 36.58 |
| * Q1Q1-33-Q3Q3-22-NL | 5/8" Dbl. Extra Strong Lead (XXS) x 5/8" Dbl. Extra Strong Lead (XXS) or 3/4" Strong Lead (S) | 1.2 | 12 | 49.21 |
| Q2Q2-33-NL | 3/4" Extra Strong Lead (XS) x 3/4" Extra Strong Lead (XS) | 1.7 | 6 | 60.21 |
| Q3Q3-33-NL | 3/4" Dbl. Extra Strong Lead (XXS) x 3/4" Dbl. Extra Strong Lead (XXS) | 2.2 | 4 | 73.12 |
| Q1Q1-44-NL | 1" Strong Lead (S) x 1" Strong Lead (S) | 2.8 | 6 | 102.89 |
| Q2Q2-44-NL | 1" Extra Strong Lead (XS) x 1" Extra Strong Lead (XS) | 2.8 | 6 | 113.24 |
| Q3Q3-44-NL | 1" Dbl. Extra Strong Lead (XXS) x 1" Dbl. Extra Strong Lead (XXS) | 2.8 | 8 | 119.58 |
| Q2Q2-55-NL (C66-55-NL) | 1-1/4" Extra Strong Lead (XS) x 1-1/4" Extra Strong Lead (XS) | 3.0 | 4 | 103.40 |
| Q2Q2-66-NL (C66-66-IDR7-NL) | 1-1/2" Extra Strong Lead (XS) x 1-1/2" Extra Strong Lead (XS) | 4.5 | 5 | 159.33 |
| LEAD PIPE TO PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS) | | | | |
| Q24-13-NL (C44-33-NL) | 1/2" Extra Strong Lead (XS) x 3/4" Cop. or Plastic Tub. (CTS) | 0.9 | 14 | 29.31 |
| Q14-22-NL | 1/2" Dbl. Extra Strong Lead (XXS) x 5/8" Cop. or Plastic Tub. (CTS) | 1.1 | - | 53.38 |
| * Q14-23-Q34-13-NL | 1/2" Dbl. Extra Strong Lead (XXS) x 3/4" Cop. or Plastic Tub. (CTS) or 5/8" Strong Lead (S) | 1.1 | 12 | 49.38 |
| Q24-23-NL (C46-33-NL) | 5/8" Extra Strong Lead (XS) x 3/4" Cop. or Plastic Tub. (CTS) | 1.0 | 12 | 35.02 |
| Q24-24-NL (C46-43-NL) | 5/8" Extra Strong Lead (XS) x 1" Cop. or Plastic Tub. (CTS) | 1.2 | 10 | 36.52 |
| Q34-24-NL | 5/8" Dbl. Extra Strong Lead (XXS) x 1" Cop. or Plastic Tub. (CTS) | 1.2 | 12 | 50.29 |
| * Q14-33-Q34-23-NL | 5/8" Dbl. Extra Strong Lead (XXS) x 3/4" Cop. or Plastic Tub. (CTS) or 3/4" Strong Lead (S) | 1.1 | 12 | 54.05 |
| Q24-33-NL | 3/4" Extra Strong Lead (XS) x 3/4" Cop. or Plastic Tub. (CTS) | 1.3 | 12 | 61.32 |
| Q34-33-NL | 3/4" Dbl. Extra Strong Lead (XXS) x 3/4" Cop. or Plastic Tub. (CTS) | 1.7 | 6 | 55.32 |
| Q24-43-NL | 1" Extra Strong Lead (XS) x 3/4" Cop. or Plastic Tub. (CTS) | 1.7 | 8 | 95.07 |
| Q34-43-NL | 1" Dbl. Extra Strong Lead (XXS) x 3/4" Cop. or Plastic Tub. (CTS) | 1.7 | 8 | 92.44 |
| Q14-44-NL | 1" Strong Lead (S) x 1" Cop. or Plastic Tub. (CTS) | 1.8 | 6 | 100.09 |
| Q24-34-NL | 3/4" Extra Strong Lead (XS) x 1" Cop. or Plastic Tub. (CTS) | 1.3 | 10 | 77.61 |
| Q24-44-NL | 1" Extra Strong Lead (XS) x 1" Cop. or Plastic Tub. (CTS) | 1.8 | 6 | 97.87 |
| Q34-44-NL | 1" Dbl. Extra Strong Lead (XXS) x 1" Cop. or Plastic Tub. (CTS) | 1.8 | 6 | 89.76 |
| Q24-56-C46-65-NL | 1-1/4" Extra Strong Lead (XS) x 1-1/2" Cop. or Plastic Tub. (CTS) | 3.0 | 4 | 134.18 |
| Q24-66-C46-66-IDR7-NL | 1-1/2" Extra Strong Lead (XS) x 1-1/2" Cop. or Plastic Tub. (CTS) | 3.8 | 6 | 157.91 |
| Q24-77-NL | 2" Extra Strong Lead (XS) x 2" Cop. or Plastic Tub. (CTS) | 6.3 | 3 | 255.07 |
| LEAD PIPE TO PACK JOINT FOR PE PIPE | | | | |
| Q26-13-NL (C46-33-NL) | 1/2" Extra Strong Lead (XS) x 3/4" PE Pipe P.J. | 1.0 | 12 | 35.02 |
| Q26-23-NL (C66-33-NL) | 5/8" Extra Strong Lead (XS) x 3/4" PE Pipe P.J. | 1.2 | 10 | 36.58 |
| Q36-23-NL | 5/8" Dbl. Extra Strong Lead (XXS) x 3/4" PE Pipe P.J. | 1.2 | 12 | 46.59 |
| Q36-33-NL | 3/4" Dbl. Extra Strong Lead (XXS) x 3/4" PE Pipe P.J. | 1.5 | - | 66.04 |
| Q36-34-NL | 3/4" Dbl. Extra Strong Lead (XXS) x 1" PE Pipe P.J. | 2.2 | - | 85.26 |
| Q26-66-NL (C66-66-IDR7-NL) | 1-1/2" Extra Strong Lead (XS) x 1-1/2" PE Pipe P.J. | 4.5 | 5 | 159.33 |

Grip Joint for CTS (3/4"-2") or PEP (3/4" and 1") can be ordered by inserting "-G" into the catalog number. Example: Q14-23-Q34-13-G-NL

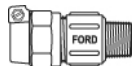
* These items fit two types/sizes of lead pipe as shown in the description. When ordering use complete catalog number.

** These items are not one piece but are two adapter pieces assembled watertight.

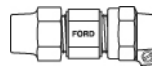
Note: Catalog numbers in (parentheses), that are used for other types of pipe and tubing, are identical to their corresponding lead-pak couplings, **however, the Grip Joint version of these items are incompatible with lead pipe.**

○ **Attention:** Special solder and procedures are required for best results. Contact factory for details.

LEAD-PAK COUPLINGS (CONTINUED)



Q28-33-NL



Q22-33-NL

| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|---|---|---------------------------------|------------------|----------------|------------|
| LEAD PIPE TO MALE IRON PIPE THREAD | | | | | |
| Q28-13-NL (C84-33-NL) | 1/2" Extra Strong Lead (XS) | x 3/4" Male Iron Pipe Threads | 0.6 | - | \$ 24.06 |
| * Q18-23-Q38-13-NL | 1/2" Dbl. Extra Strong Lead (XXS) or 5/8" Strong Lead (S) | x 3/4" Male Iron Pipe Threads | 0.7 | 18 | 40.96 |
| Q28-23-NL (C86-33-NL) | 5/8" Extra Strong Lead (XS) | x 3/4" Male Iron Pipe Threads | 0.8 | - | 31.86 |
| * Q18-33-Q38-23-NL | 5/8" Dbl. Extra Strong Lead (XXS) or 3/4" Strong Lead (S) | x 3/4" Male Iron Pipe Threads | 0.8 | 18 | 43.20 |
| Q28-33-NL | 3/4" Extra Strong Lead (XS) | x 3/4" Male Iron Pipe Threads | 1.0 | 14 | 44.39 |
| Q38-33-NL | 3/4" Dbl. Extra Strong Lead (XXS) | x 3/4" Male Iron Pipe Threads | 1.3 | 14 | 51.88 |
| Q18-44-NL | 1" Strong Lead (S) | x 1" Male Iron Pipe Threads | 1.5 | 8 | 77.98 |
| Q28-44-NL | 1" Extra Strong Lead (XS) | x 1" Male Iron Pipe Threads | 1.5 | 8 | 64.40 |
| Q38-44-NL | 1" Dbl. Extra Strong Lead (XXS) | x 1" Male Iron Pipe Threads | 1.5 | 8 | 72.67 |
| Q28-55-NL (C86-55-NL) | 1-1/4" Extra Strong Lead (XS) | x 1-1/4" Male Iron Pipe Threads | 1.7 | - | 70.17 |
| Q28-66-NL (C86-66-IDR7-NL) | 1-1/2" Extra Strong Lead (XS) | x 1-1/2" Male Iron Pipe Threads | 2.8 | - | 109.81 |
| Q28-77-NL | 2" Extra Strong Lead (XS) | x 2" Male Iron Pipe Threads | 4.7 | 5 | 218.46 |
| LEAD PIPE TO FLARE COPPER | | | | | |
| Q22-13-NL (C24-33-NL) | 1/2" Extra Strong Lead (XS) | x 3/4" Flare Copper | 0.9 | - | 40.33 |
| * Q12-23-Q32-13-NL | 1/2" Dbl. Extra Strong Lead (XXS) or 5/8" Strong Lead (S) | x 3/4" Flare Copper | 1.1 | 12 | 46.13 |
| Q22-23-NL (C26-33-NL) | 5/8" Extra Strong Lead (XS) | x 3/4" Flare Copper | 1.1 | - | 42.16 |
| Q22-24-NL | 5/8" Extra Strong Lead (XS) | x 1" Flare Copper | 1.6 | 8 | 49.46 |
| Q12-33-Q32-23-NL | 5/8" Dbl. Extra Strong Lead (XXS) or 3/4" Strong Lead (S) | x 3/4" Flare Copper | 1.1 | 12 | 45.08 |
| Q22-33-NL | 3/4" Extra Strong Lead (XS) | x 3/4" Flare Copper | 1.3 | 12 | 53.24 |
| Q32-33-NL | 3/4" Dbl. Extra Strong Lead (XXS) | x 3/4" Flare Copper | 1.6 | 12 | 62.81 |
| * Q12-34-Q32-24-NL | 5/8" Dbl. Extra Strong Lead (XXS) or 3/4" Strong Lead (S) | x 1" Flare Copper | 1.7 | 6 | 78.98 |
| Q22-34-NL | 3/4" Extra Strong Lead (XS) | x 1" Flare Copper | 1.7 | 10 | 76.09 |
| Q12-44-NL | 1" Strong Lead (S) | x 1" Flare Copper | 1.6 | 5 | 93.87 |
| Q22-44-NL | 1" Extra Strong Lead (XS) | x 1" Flare Copper | 2.0 | 5 | 66.95 |
| Q32-44-NL | 1" Dbl. Extra Strong Lead (XXS) | x 1" Flare Copper | 2.0 | 5 | 84.64 |

Grip Joint for CTS or PEP (3/4" and 1") can be ordered by inserting "-G" into the catalog number. Example: C86-33-G-NL

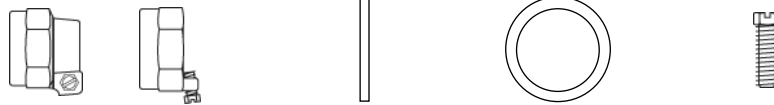
* These items fit two types/sizes of lead pipe as shown in the description. When ordering, use complete catalog number.

Note: Catalog numbers in (parentheses), that are used for other types of pipe and tubing, are identical to their corresponding Lead-Pak couplings, however, the **Grip Joint** version of these are incompatible with lead pipe.

| LEAD PIPE DIMENSIONS | |
|-----------------------------------|----------------------|
| SIZE (I.D.) AND TYPE OF LEAD PIPE | APPROX. AVERAGE O.D. |
| 1/2" Extra Strong | 0.876 |
| 1/2" Double Extra Strong | 1.012 |
| 5/8" Strong | 1.019 |
| 5/8" Extra Strong | 1.082 |
| 5/8" Double Extra Strong | 1.137 |
| 3/4" Strong | 1.156 |
| 3/4" Extra Strong | 1.212 |
| 3/4" Double Extra Strong | 1.336 |
| 1" Strong | 1.428 |
| 1" Extra Strong | 1.492 |
| 1" Double Extra Strong | 1.596 |
| 1-1/4" Extra Strong | 1.765 |
| 1-1/2" Extra Strong | 2.076 |
| 2" Extra Strong | 2.751 |

J

PACK JOINT NUTS AND PARTS



| PACK JOINT NUT SIZE AND TYPE | NUT & GASKET ASSEMBLY COMPLETE | | BEVELED RUBBER GASKET ONLY | | PLASTIC ANTI-FRICTION RING | | CLAMP / SET SCREW | |
|---------------------------------------|--------------------------------|---------|----------------------------|---------|----------------------------|---------|-------------------|---------|
| | CATALOG No. | PRICE | CAT. No. | PRICE | CAT. No. | PRICE | CAT. No. | PRICE |
| COPPER OR PLASTIC TUBING (CTS) | | | | | | | | |
| 1/2" | NG-AA4 | \$ 6.42 | GT-1 | \$ 1.04 | FR-A | \$ 0.22 | CS-A | \$ 0.48 |
| 5/8" | NG-B4 | 8.01 | GT-24 | 1.31 | FR-A-5 | 0.22 | CS-A | 0.48 |
| 3/4" | NG-D4 (bx. qty.50) | 7.07 | GT-1-5 | 0.62 | FR-A-5 | 0.22 | CS-A | 0.48 |
| 1" | NG-F4 | 8.04 | GT-5 | 0.83 | FR-D | 0.22 | CS-A | 0.48 |
| 1" (Corp/BallCorp) | NG-FF4 | 10.85 | GT-7 | 0.83 | FR-E | 0.22 | CS-A | 0.48 |
| 1-1/4" | NG-F6-NG-H4 | 15.12 | GT-10 | 1.94 | FR-F | 0.29 | CS-A | 0.48 |
| 1-1/4" (BallCorp) | NG-FF6-NG-HH4 | 19.40 | GT-10-5 | 2.65 | FR-G | 0.32 | CS-A | 0.48 |
| ** 1-1/2" | NG-J4 | 22.88 | GT-14 | 3.52 | FR-H | 0.41 | CS-B | 0.96 |
| 1-1/2" (BallCorp) | NG-JJJ4 | 34.12 | GT-28 | 4.07 | FR-T | 0.43 | CS-B | 0.96 |
| ** 2" | NG-K4 | 32.19 | GT-17 | 2.64 | FR-K | 0.44 | CS-B | 0.96 |
| 2" (BallCorp) | NG-KKK4 | 43.27 | GT-25 | 6.23 | FR-R | 0.63 | CS-B | 0.96 |
| 2-1/2" | NG-L4 | 55.02 | GT-61 | 3.19 | FR-S | 0.58 | CS-B | 0.96 |
| IRON PIPE | | | | | | | | |
| 1/2" | NG-A5 | 6.08 | GT-1-5 | 0.62 | FR-A-5 | 0.22 | SS-A | 0.92 |
| 3/4" | NG-D5 | 7.58 | GT-3 | 1.51 | FR-D | 0.22 | SS-A | 0.92 |
| 1" | NG-F5 | 13.14 | GT-9 | 1.61 | FR-F | 0.29 | SS-C | 1.37 |
| 1-1/4" | NG-H5 | 15.58 | GT-15 | 2.30 | FR-H | 0.41 | SS-C | 1.37 |
| 1-1/2" | NG-J5 | 24.64 | GT-16 | 2.56 | FR-J | 0.40 | SS-C | 1.37 |
| 2" | NG-K5 | 31.17 | GT-18 | 2.95 | FR-M | 0.48 | SS-C | 1.37 |
| PE PIPE | | | | | | | | |
| 3/4" | NG-D6 | 9.17 | GT-3 | 1.51 | FR-D | 0.22 | CS-A | 0.48 |
| 3/4" (Corp/BallCorp) | NG-DD6 | 11.80 | GT-4 | 2.84 | FR-E | 0.22 | CS-A | 0.48 |
| 1" | NG-F6-NG-H4 | 15.12 | GT-10 | 1.94 | FR-F | 0.29 | CS-A | 0.48 |
| 1" (Corp/BallCorp) | NG-FF6-NG-HH4 | 19.40 | GT-10-5 | 2.65 | FR-G | 0.32 | CS-A | 0.48 |
| 1-1/4" | NG-H6 | 20.83 | GT-15-5 | 1.80 | FR-H | 0.41 | CS-A | 0.48 |
| 1-1/4" (BallCorp) | NG-HH6 | 30.60 | GT-49 | 6.60 | FR-J | 0.40 | CS-A | 0.48 |
| 1-1/2" | NG-JJ6-IDR7 | 31.73 | GT-17 | 2.64 | FR-K | 0.44 | CS-B | 0.96 |
| 1-1/2" (BallCorp) | NG-JJJ6-IDR7 | 43.41 | GT-25 | 6.23 | FR-R | 0.63 | CS-B | 0.96 |
| 2" | NG-KK6-IDR7 | 41.34 | GT-27 | 3.69 | FR-S | 0.58 | CS-B | 0.96 |
| PVC PIPE | | | | | | | | |
| 1/2" | NG-A7 | 7.14 | GT-1-5 | 0.62 | FR-A-5 | 0.22 | CS-A | 0.48 |
| 3/4" | NG-D7 | 9.17 | GT-3 | 1.51 | FR-D | 0.22 | CS-A | 0.48 |
| 3/4" (Corp/BallCorp) | NG-DD7 | 11.80 | GT-4 | 2.84 | FR-E | 0.22 | CS-A | 0.48 |
| 1" | NG-F7 | 14.22 | GT-9 | 1.61 | FR-F | 0.29 | CS-A | 0.48 |
| 1" (Corp/BallCorp) | NG-FF7 | 19.38 | GT-10-5 | 2.65 | FR-G | 0.32 | CS-A | 0.48 |
| 1-1/4" | NG-H7 | 20.73 | GT-15 | 2.30 | FR-H | 0.41 | CS-B | 0.96 |
| 1-1/4" (BallCorp) | NG-HH7 | 38.12 | GT-48 | 6.42 | FR-J | 0.40 | CS-B | 0.96 |
| * 1-1/2" (BallCorp) | NG-JJ7 | 32.50 | GT-16 | 2.56 | FR-J | 0.40 | CS-B | 0.96 |
| 2" | NG-K7 | 37.86 | GT-18 | 2.95 | FR-M | 0.48 | CS-B | 0.96 |
| 2" (BallCorp) | NG-KK7 | 40.77 | GT-31 | 5.54 | FR-R | 0.63 | CS-B | 0.96 |
| LEAD PIPE | | | | | | | | |
| 1/2" XS | NG-AAX | 7.07 | GT-1-5 | 0.62 | FR-A-5 | 0.22 | CS-A | 0.48 |
| 1/2" XXS | NG-AAAX | 11.94 | GT-3 | 1.51 | FR-D | 0.22 | CS-A | 0.48 |
| 5/8" S | NG-BX | 11.94 | GT-3 | 1.51 | FR-D | 0.22 | CS-A | 0.48 |
| 5/8" XS | NG-BBX | 11.62 | GT-3 | 1.51 | FR-D | 0.22 | CS-A | 0.48 |
| 5/8" XXS | NG-BBBX | 11.52 | GT-5 | 0.83 | FR-D | 0.22 | CS-A | 0.48 |
| 3/4" S | NG-DX | 11.52 | GT-5 | 0.83 | FR-D | 0.22 | CS-A | 0.48 |
| 3/4" XS | NG-DDX | 15.77 | GT-39 | 1.61 | FR-X | 0.29 | CS-A | 0.48 |
| 3/4" XXS | NG-DDDX | 14.86 | GT-10 | 1.94 | FR-F | 0.29 | CS-A | 0.48 |
| 1" S | NG-FX | 19.62 | GT-12 | 1.87 | FR-G | 0.32 | CS-A | 0.48 |
| 1"XS | NG-FFX | 19.40 | GT-12 | 1.87 | FR-G | 0.32 | CS-A | 0.48 |
| 1" XXS | NG-FFFX | 19.40 | GT-13 | 1.79 | FR-G | 0.32 | CS-A | 0.48 |
| 1-1/4" S | NG-H7 | 20.73 | GT-15 | 2.30 | FR-H | 0.41 | CS-B | 0.96 |
| 1-1/4" XS | NG-HX | 21.13 | GT-15-5 | 1.80 | FR-H | 0.41 | CS-A | 0.48 |
| 1-1/2" XS | NG-JX | 38.46 | GT-17 | 2.64 | FR-K | 0.44 | CS-B | 0.96 |
| 2" XS | NG-KX | 66.44 | GT-26 | 6.63 | - | - | SS-C | 1.37 |

The price of products, sold less nuts, will be adjusted to reflect additional handling and packaging charges. Call Customer Service for pricing.

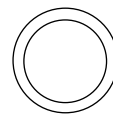
* All 1-1/2" PVC couplings, tees, ells, curb stops and flange valves will use a Ballcorp style Pack Joint nut, NG-JJ7.

** Some tees, ells, curb stops and flange valves require the Ballcorp style Pack Joint nut. See next page for listing of these products.

Products (other than BallCorps) that require BallCorp Pack Joint nuts or Grip Joint nuts

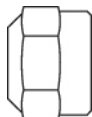
| CATALOG NUMBER | PACK JOINT NUT NUMBER | GRIP JOINT NUT NUMBER |
|----------------|-----------------------|-----------------------|
| FV43-666W-NL | NG-JJJ4 | GJCN4-6 |
| FV43-777W-NL | NG-KKK4 | GJCN4-7 |
| L44-77-NL | | |
| T444-777-NL | | |
| All 1-1/2" PVC | NG-JJ7 | - |

GRIP JOINT NUTS AND PARTS



| GRIP JOINT NUT SIZE AND TYPE | NUT, GASKET AND GRIPPER ASSEMBLY COMPLETE | | BEVELED RUBBER GASKET ONLY | | NYLON WASHER | | GRIPPER RING ONLY | |
|---------------------------------------|---|---------|----------------------------|---------|--------------|---------|-------------------|---------|
| | CATALOG NUMBER | PRICE | CAT. No. | PRICE | CAT. No. | PRICE | CAT. No. | PRICE |
| COPPER OR PLASTIC TUBING (CTS) | | | | | | | | |
| 3/4" | GJN4-3 (bx. qty. 72) | \$ 9.15 | GT-1-5 | \$ 0.62 | FG-AAT | \$ 0.32 | GJNGR4-3 | \$ 2.11 |
| 1" | GJN4-4 | 12.53 | GT-5 | 0.83 | FG-FFT | 0.41 | GJNGR4-4 | 2.20 |
| 1" (Corp/BallCorp) | GJCN4-4 | 14.94 | GT-7 | 0.83 | FG-GG | 0.80 | GJNGR4-4 | 2.20 |
| 1-1/4" | GJN6-4-GJN4-5 | 19.38 | GT-10 | 1.94 | FG-HH | 1.04 | GJNGR6-4 | 2.90 |
| 1-1/4" (BallCorp) | GJCN4-5 | 20.95 | GT-10-5 | 2.65 | FG-JJ | 1.04 | GJNGR6-4 | 2.90 |
| 1-1/2" | GJN4-6 | 26.77 | GT-14 | 3.52 | FG-RR | 1.48 | GJNGR4-6 | 4.56 |
| 1-1/2" (BallCorp) | GJCN4-6 | 36.45 | GT-28 | 4.07 | FG-SS | 1.48 | GJNGR4-6 | 4.56 |
| 2" | GJN4-7 | 37.02 | GT-17 | 2.64 | FG-TT | 1.52 | GJNGR4-7 | 5.59 |
| 2" (BallCorp) | GJCN4-7 | 44.13 | GT-25 | 6.23 | FG-VV | 3.34 | GJNGR4-7 | 5.59 |
| PE PIPE | | | | | | | | |
| 3/4" | GJN6-3 | 12.75 | GT-3 | 1.51 | FG-FF | 0.41 | GJNGR6-3 | 2.20 |
| 3/4" (Corp/BallCorp) | GJCN6-3 | 13.13 | GT-4 | 2.84 | FG-GG | 0.80 | GJNGR6-3 | 2.20 |
| 1" (1.409 ream) | GJN6-4-GJN4-5 | 19.38 | GT-10 | 1.94 | FG-HH | 1.04 | GJNGR6-4 | 2.90 |
| 1" (Corp/BallCorp) | GJCN6-4 | 20.95 | GT-10-5 | 2.65 | FG-JJ | 1.04 | GJNGR6-4 | 2.90 |

QUICK JOINT NUTS AND GASKETS



| QUICK JOINT NUT SIZE AND TYPE | NUT, GASKET & GRIPPER ASSEMBLY COMPLETE | | GASKET AND GRIPPER RING ASSEMBLY | |
|---------------------------------------|---|----------|----------------------------------|---------|
| | CATALOG No. | PRICE | CATALOG No. | PRICE |
| COPPER OR PLASTIC TUBING (CTS) | | | | |
| 1/2" | QJN4-1 | \$ 14.82 | QJNGA4-1 | \$ 7.35 |
| 5/8" | QJN4-2 | 7.79 | QJNGA4-2 | 3.52 |
| 3/4" | QJN4-3 | 10.85 | QJNGA4-3 | 4.22 |
| 1" | QJN4-4 | 13.31 | QJNGA4-4 | 5.06 |
| 1-1/4" | QJN4-5 | 21.80 | QJNGA4-5 | 6.70 |
| 1-1/2" | QJN4-6 | 28.37 | QJNGA4-6 | 10.80 |
| 2" | QJN4-7 | 39.23 | QJNGA4-7 | 14.87 |
| PE PIPE | | | | |
| 3/4" | QJN6-3 | 16.51 | QJNGA6-3 | 4.89 |
| 1" | QJN6-4 | 21.80 | QJNGA6-4 | 6.70 |

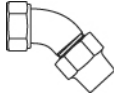
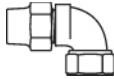
The price of products, sold less nuts, will be adjusted to reflect additional handling and packaging charges. Call Customer Service for pricing.



FLARE COPPER COUPLINGS

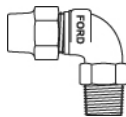
FLARE COPPER TO FEMALE IRON PIPE THREAD

| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|------------------------------|--------------|----------------|------------------|----------------|------------|
| | FLARE COPPER | FEM. IRON PIPE | | | |
| STRAIGHT COUPLINGS | | | | | |
| C21-11-NL | 1/2" | 1/2" | 0.4 | 50 | \$ 11.17 |
| C21-31-NL | 3/4" | 1/2" | 0.6 | 25 | 18.44 |
| C21-23-NL | 5/8" | 3/4" | 0.5 | 25 | 19.29 |
| C21-33-NL | 3/4" | 3/4" | 0.7 | 20 | 21.12 |
| C21-34-NL | 3/4" | 1" | 0.8 | 20 | 27.63 |
| C21-35-NL | 3/4" | 1-1/4" | 0.9 | 15 | 32.84 |
| C21-43-NL | 1" | 3/4" | 1.0 | 20 | 29.08 |
| C21-44-NL | 1" | 1" | 1.1 | 12 | 32.30 |
| C21-45-NL | 1" | 1-1/4" | 1.2 | 12 | 40.03 |
| C21-46-NL | 1" | 1-1/2" | 1.6 | 10 | 51.84 |
| C21-55-NL | 1-1/4" | 1-1/4" | 1.7 | 8 | 60.82 |
| C21-66-NL | 1-1/2" | 1-1/2" | 2.5 | 4 | 86.76 |
| C21-67-NL | 1-1/2" | 2" | 3.4 | 4 | 110.25 |
| C21-77-NL | 2" | 2" | 4.6 | 3 | 164.57 |
| C21-78-NL | 2" | 2-1/2" | 6.1 | - | 225.19 |
| ELL COUPLINGS | | | | | |
| L21-33-NL | 3/4" | 3/4" | 1.0 | 16 | 25.68 |
| L21-44-NL | 1" | 1" | 1.9 | 8 | 42.33 |
| L21-66-NL | 1-1/2" | 1-1/2" | 2.7 | 4 | 136.77 |
| L21-77-NL | 2" | 2" | 6.3 | 1 | 227.93 |
| EIGHTH BEND COUPLINGS | | | | | |
| LA21-33-NL | 3/4" | 3/4" | 0.8 | 18 | 29.39 |
| LA21-44-NL | 1" | 1" | 1.4 | 10 | 49.07 |



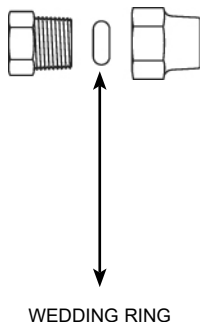
FLARE COPPER TO MALE IRON PIPE THREAD

| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|---------------------------|--------------|----------------|------------------|----------------|------------|
| | FLARE COPPER | MALE IRON PIPE | | | |
| STRAIGHT COUPLINGS | | | | | |
| C28-11-NL | 1/2" | 1/2" | 0.4 | 50 | \$ 14.07 |
| C28-13-NL | 1/2" | 3/4" | 0.5 | 36 | 16.84 |
| C28-21-NL | 5/8" | 1/2" | 0.5 | - | 19.50 |
| C28-23-NL | 5/8" | 3/4" | 0.6 | 30 | 19.50 |
| C28-31-NL | 3/4" | 1/2" | 0.6 | 25 | 20.88 |
| C28-33-NL | 3/4" | 3/4" | 0.7 | 20 | 21.41 |
| C28-34-NL | 3/4" | 1" | 0.7 | 20 | 24.63 |
| C28-43-NL | 1" | 3/4" | 1.0 | 15 | 32.62 |
| C28-44-NL | 1" | 1" | 1.1 | 10 | 30.57 |
| C28-54-NL | 1-1/4" | 1" | 1.4 | 8 | 48.27 |
| C28-55-NL | 1-1/4" | 1-1/4" | 1.6 | 6 | 60.95 |
| C28-65-NL | 1-1/2" | 1-1/4" | 2.9 | 4 | 91.23 |
| C28-66-NL | 1-1/2" | 1-1/2" | 2.9 | 4 | 94.27 |
| C28-77-NL | 2" | 2" | 5.0 | - | 173.00 |
| ELL COUPLINGS | | | | | |
| L28-11-NL | 1/2" | 1/2" | 0.5 | - | 21.62 |
| L28-33-NL | 3/4" | 3/4" | 0.8 | 16 | 22.94 |
| * L28-34-AWT-NL | 3/4" | 1" | 1.0 | - | 33.88 |
| L28-43-NL | 1" | 3/4" | 1.1 | 12 | 32.12 |
| L28-44-NL | 1" | 1" | 1.3 | 8 | 38.05 |
| L28-66-NL | 1-1/2" | 1-1/2" | 2.9 | 3 | 136.25 |
| L28-77-NL | 2" | 2" | 5.3 | 1 | 232.30 |



*This item is not one piece but is two adapter pieces assembled watertight.

FLARE COPPER TO FLARE COPPER (2 PART) COUPLINGS (SUPPLIED WITH WEDDING RING)

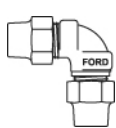
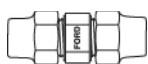


| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|---------------------------|--------------|--------------|------------------|----------------|------------|
| | FLARE COPPER | FLARE COPPER | | | |
| STRAIGHT COUPLINGS | | | | | |
| CS22-33-NL | 3/4" | 3/4" | 0.6 | 25 | \$ 23.84 |
| CS22-44-NL | 1" | 1" | 0.9 | 15 | 36.84 |
| CS22-55-NL | 1-1/4" | 1-1/4" | 0.9 | 10 | 66.94 |
| CS22-66-NL | 1-1/2" | 1-1/2" | 4.0 | 6 | 97.21 |
| CS22-77-NL | 2" | 2" | 6.7 | 3 | 171.82 |

WEDDING RING ONLY (FOR 2 PART COUPLINGS)

| CATALOG NUMBER | STYLE AND COUPLING APPLICATION | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|----------------|--------------------------------|------------------|----------------|------------|
| WR-3-NL | 3/4" for CS22-33 | 0.1 | 450 | \$ 4.63 |
| WR-4-NL | 1" for CS22-44 | 0.1 | 250 | 5.36 |
| WR-5-NL | 1-1/4" for CS22-55 | 0.1 | 100 | 6.68 |
| WR-6-NL | 1-1/2" for CS22-66 | 1.4 | 85 | 8.52 |
| WR-7-NL | 2" for CS22-77 | 2.2 | 40 | 16.29 |

FLARE COPPER TO FLARE COPPER (3 PART) COUPLINGS



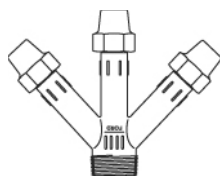
| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|---------------------------|--------------|--------------|------------------|----------------|------------|
| | FLARE COPPER | FLARE COPPER | | | |
| STRAIGHT COUPLINGS | | | | | |
| C22-11-NL | 1/2" | 1/2" | 0.6 | 30 | \$ 17.69 |
| C22-12-NL | 1/2" | 5/8" | 0.7 | - | 23.43 |
| C22-13-NL | 1/2" | 3/4" | 0.8 | 20 | 23.28 |
| C22-22-NL | 5/8" | 5/8" | 0.8 | - | 26.50 |
| C22-23-NL | 5/8" | 3/4" | 1.0 | 15 | 28.78 |
| C22-33-NL | 3/4" | 3/4" | 1.0 | 14 | 27.05 |
| C22-34-NL | 3/4" | 1" | 1.3 | 12 | 40.03 |
| C22-44-NL | 1" | 1" | 1.9 | 6 | 47.33 |
| C22-55-NL | 1-1/4" | 1-1/4" | 2.7 | 4 | 97.12 |
| C22-66-NL | 1-1/2" | 1-1/2" | 4.5 | 7 | 142.11 |
| C22-77-NL | 2" | 2" | 8.4 | 1 | 231.85 |
| ELL COUPLINGS | | | | | |
| L22-33-NL | 3/4" | 3/4" | 1.0 | 14 | 28.80 |
| L22-34-NL | 3/4" | 1" | 1.4 | 10 | 41.44 |
| L22-44-NL | 1" | 1" | 1.8 | 8 | 48.01 |
| L22-66-NL | 1-1/2" | 1-1/2" | 4.8 | 2 | 202.10 |
| L22-77-NL | 2" | 2" | 8.5 | 2 | 278.54 |

FLARE "Y" BRANCH CONNECTIONS

(PACK JOINT "Y" BRANCH CONNECTIONS ARE LISTED ON PAGE J-13)



Y22-247-NL



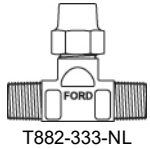
Y28-347-NL

| CATALOG NUMBER | DESCRIPTION | | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|---------------------------------|---------------------------|---|-------------------------|------------------|----------------|------------|
| | MULTI-BRANCH END | x | SINGLE BRANCH END | | | |
| TWO BRANCH CONNECTIONS | | | | | | |
| Y21-246-NL | Two 1" Flare Cop Conns. | x | 1-1/2" Female Iron Pipe | 2.7 | 2 | \$ 153.65 |
| Y21-247-NL | Two 1" Flare Cop Conns. | x | 2" Female Iron Pipe | 4.1 | 2 | 185.58 |
| Y22-243-NL | Two 3/4" Flare Cop Conns. | x | 1" Flare Copper | 1.8 | 5 | 58.39 |
| Y22-246-NL | Two 1" Flare Cop Conns. | x | 1-1/2" Flare Copper | 4.4 | 2 | 167.07 |
| Y22-247-NL | Two 1" Flare Cop Conns. | x | 2" Flare Copper | 6.0 | 4 | 213.97 |
| Y28-234-NL | Two 3/4" Flare Cop Conns. | x | 1" Male Iron Pipe | 1.3 | 8 | 52.26 |
| Y28-246-NL | Two 1" Flare Cop Conns. | x | 1-1/2" Male Iron Pipe | 2.7 | 4 | 142.63 |
| Y28-247-NL | Two 1" Flare Cop Conns. | x | 2" Male Iron Pipe | 2.7 | 2 | 137.33 |
| Y88-247-NL | Two 1" Male Iron Pipe | x | 2" Male Iron Pipe | 1.7 | 4 | 121.57 |
| THREE BRANCH CONNECTIONS | | | | | | |
| Y21-347-NL | Three 1" Flare Cop Conns. | x | 2" Female Iron Pipe | 5.7 | 5 | 248.07 |
| Y22-346-NL | Three 1" Flare Cop Conns. | x | 1-1/2" Flare Copper | 6.8 | 5 | 301.00 |
| Y22-347-NL | Three 1" Flare Cop Conns. | x | 2" Flare Copper | 8.6 | 5 | 373.13 |
| Y28-346-NL | Three 1" Flare Cop Conns. | x | 1-1/2" Male Iron Pipe | 5.3 | 4 | 249.95 |
| Y28-347-NL | Three 1" Flare Cop Conns. | x | 2" Male Iron Pipe | 5.1 | 5 | 239.78 |

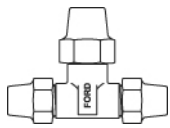
J

SERVICE TEES

(PACK JOINT TEES ARE LISTED ON PAGES J-12 & J-13)



T882-333-NL



T222-334-NL

| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|-------------------|---------------------------|-------------------------|------------------|----------------|------------|
| | BOTH ENDS (RUN) | X OUTLET SIDE | | | |
| T111-333-NL | 3/4" Female Iron Pipe | x 3/4" Female Iron Pipe | 0.6 | - | \$ 29.49 |
| T111-444-NL | 1" Female Iron Pipe | x 1" Female Iron Pipe | 2.0 | 9 | 42.04 |
| T181-333-NL | 3/4" FIP to 3/4" MIP | x 3/4" Female Iron Pipe | 0.6 | - | 29.49 |
| T181-664-NL | 1-1/2" FIP to 1-1/2" MIP | x 1" Female Iron Pipe | 2.0 | - | 83.11 |
| T181-774-NL | 2" FIP to 2" MIP | x 1" Female Iron Pipe | 2.2 | 4 | 94.79 |
| T222-113-NL | 1/2" Flare Copper | x 3/4" Flare Copper | 1.1 | - | 40.45 |
| T222-333-NL | 3/4" Flare Copper | x 3/4" Flare Copper | 1.5 | 8 | 50.74 |
| T222-334-NL | 3/4" Flare Copper | x 1" Flare Copper | 1.8 | 5 | 60.70 |
| T222-443-NL | 1" Flare Copper | x 3/4" Flare Copper | 2.1 | 6 | 68.29 |
| T222-444-NL | 1" Flare Copper | x 1" Flare Copper | 2.5 | 4 | 85.20 |
| T222-445-NL | 1" Flare Copper | x 1-1/4" Flare Copper | 3.6 | - | 100.85 |
| T222-664-NL | 1-1/2" Flare Copper | x 1" Flare Copper | 5.4 | 5 | 200.08 |
| T222-666-NL | 1-1/2" Flare Copper | x 1-1/2" Flare Copper | 7.1 | 4 | 222.45 |
| * T222-774-AWT-NL | 2" Flare Copper | x 1" Flare Copper | 14.1 | 2 | 510.67 |
| T222-777-NL | 2" Flare Copper | x 2" Flare Copper | 12.6 | 3 | 417.36 |
| T228-333-NL | 3/4" Flare Copper | x 3/4" Male Iron Pipe | 1.2 | 8 | 46.31 |
| T228-334-NL | 3/4" Flare Copper | x 1" Male Iron Pipe | 1.3 | - | 50.58 |
| T228-444-NL | 1" Flare Copper | x 1" Male Iron Pipe | 2.3 | 5 | 74.78 |
| T282-333-NL | 3/4" Fl. Cop. to 3/4" MIP | x 3/4" Flare Copper | 1.2 | - | 40.72 |
| T282-334-NL | 3/4" Fl. Cop. to 3/4" MIP | x 1" Flare Copper | 1.8 | - | 52.76 |
| T282-444-NL | 1" Fl. Cop. to 1" MIP | x 1" Flare Copper | 2.4 | - | 73.58 |
| T882-333-NL | 3/4" Male Iron Pipe | x 3/4" Flare Copper | 0.9 | - | 38.49 |
| T882-334-NL | 3/4" Male Iron Pipe | x 1" Flare Copper | 1.2 | 10 | 50.74 |
| T882-444-NL | 1" Male Iron Pipe | x 1" Flare Copper | 1.6 | - | 70.49 |
| T888-333-NL | 3/4" Male Iron Pipe | x 3/4" Male Iron Pipe | 0.6 | 20 | 29.49 |
| T888-334-NL | 3/4" Male Iron Pipe | x 1" Male Iron Pipe | 0.7 | 10 | 35.72 |
| T888-444-NL | 1" Male Iron Pipe | x 1" Male Iron Pipe | 0.9 | 10 | 46.15 |
| T888-445-NL | 1" Male Iron Pipe | x 1-1/4" Male Iron Pipe | 1.0 | 9 | 51.29 |
| T888-777-NL | 2" Male Iron Pipe | x 2" Male Iron Pipe | 3.9 | - | 201.30 |

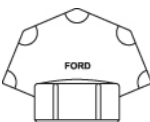
* This item is manufactured from two castings assembled watertight.

MULTI-SERVICE TEE



| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|----------------|-------------------------|-----------------------------|------------------|----------------|------------|
| | SINGLE INLET | X MULTI-OUTLET | | | |
| T11-663-NL | 1-1/2" Female Iron Pipe | x Six 3/4" Female Iron Pipe | 1.6 | 5 | \$ 88.41 |
| T11-674-NL | 2" Female Iron Pipe | x Six 1" Female Iron Pipe | 2.9 | 4 | 103.00 |

MULTI-SERVICE "Y"



| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|----------------|---------------------|----------------------------|------------------|----------------|------------|
| | SINGLE INLET | X MULTI-OUTLET | | | |
| Y11-474-NL | 2" Female Iron Pipe | x Four 1" Female Iron Pipe | 3.2 | 3 | \$ 118.29 |

**ADAPTERS FOR FLARE COPPER CONNECTIONS
(REPLACES COPPER FLARE NUT)**

| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|---|------------------------------------|------------------------------|------------------|----------------|------------|
| COPPER TUBE NUTS WITH MALE IRON PIPE THREADS | | | | | |
|  C08-33-NL | 3/4" Female Copper Thread | x 3/4" Male Iron Pipe | 0.3 | 40 | \$ 13.81 |
| C08-43-NL | 1" Female Copper Thread | x 3/4" Male Iron Pipe | 0.6 | 20 | 24.98 |
| C08-44-NL | 1" Female Copper Thread | x 1" Male Iron Pipe | 0.7 | 20 | 24.19 |
| C08-45-NL | 1" Female Copper Thread | x 1-1/4" Male Iron Pipe | 0.8 | 14 | 59.96 |
| C08-66-NL | 1-1/2" Female Copper Thread | x 1-1/2" Male Iron Pipe | 1.5 | 6 | 52.48 |
| C08-77-NL | 2" Female Copper Thread | x 2" Male Iron Pipe | 2.6 | 3 | 89.22 |
| COPPER TUBE NUTS WITH FEMALE IRON PIPE THREAD CONNECTIONS | | | | | |
| C01-11-NL | 1/2" Female Copper Thread | x 1/2" Female Iron Pipe | 0.4 | 42 | 14.88 |
| C01-13-NL | 1/2" Female Copper Thread | x 3/4" Female Iron Pipe | 0.4 | 44 | 17.49 |
| C01-33-NL | 3/4" Female Copper Thread | x 3/4" Female Iron Pipe | 0.4 | 40 | 17.49 |
| C01-34-NL | 3/4" Female Copper Thread | x 1" Female Iron Pipe | 0.7 | 25 | 29.25 |
| C01-43-NL | 1" Female Copper Thread | x 3/4" Female Iron Pipe | 0.7 | 15 | 34.45 |
| C01-44-NL | 1" Female Copper Thread | x 1" Female Iron Pipe | 0.8 | 15 | 29.53 |
| C01-55-NL | 1-1/4" Female Copper Thread | x 1-1/4" Female Iron Pipe | 1.0 | 10 | 46.10 |
| C01-65-NL | 1-1/2" Female Copper Thread | x 1-1/4" Female Iron Pipe | 1.7 | 6 | 72.45 |
| C01-66-NL | 1-1/2" Female Copper Thread | x 1-1/2" Female Iron Pipe | 1.4 | 8 | 62.81 |
| C01-67-NL | 1-1/2" Female Copper Thread | x 2" Female Iron Pipe | 1.5 | 5 | 71.44 |
| C01-75-NL | 2" Female Copper Thread | x 1-1/4" Female Iron Pipe | 3.1 | - | 128.15 |
| C01-77-NL | 2" Female Copper Thread | x 2" Female Iron Pipe | 2.6 | 3 | 107.70 |
| PIGGY BACK NUTS AND INCREASERS | | | | | |
| C02-23-NL | 5/8" Female Copper Thread | x 3/4" Flare Copper | 0.7 | 25 | 24.40 |
| C02-31-NL | 3/4" Female Copper Thread | x 1/2" Flare Copper | 0.5 | 30 | 17.86 |
| C02-32-NL | 3/4" Female Copper Thread | x 5/8" Flare Copper | 0.6 | 25 | 20.89 |
| C02-33-NL | 3/4" Female Copper Thread | x 3/4" Flare Copper | 0.7 | 20 | 33.73 |
| C02-34-NL | 3/4" Female Copper Thread | x 1" Flare Copper (with nut) | 1.0 | 15 | 32.38 |
| C02-43-NL | 1" Female Copper Thread | x 3/4" Flare Copper | 1.0 | 15 | 32.07 |
| C02-44-NL | 1" Female Copper Thread | x 1" Flare Copper | 1.3 | 12 | 46.27 |
| C02-45-NL | 1" Female Copper Thread | x 1-1/4" Flare Copper | 1.7 | 9 | 69.53 |
| C02-54-NL | 1-1/4" Female Copper Thread | x 1" Flare Copper | 1.4 | 10 | 57.33 |
| C02-64-NL | 1-1/2" Female Copper Thread | x 1" Flare Copper | 1.9 | 5 | 97.12 |
| C02-65-NL | 1-1/2" Female Copper Thread | x 1-1/4" Flare Copper | 2.4 | 8 | 112.41 |
| C02-74-NL | 2" Female Copper Thread | x 1" Flare Copper | 3.0 | 3 | 137.89 |
| C02-75-NL | 2" Female Copper Thread | x 1-1/4" Flare Copper | 3.8 | 4 | 167.35 |
| C02-76-NL | 2" Female Copper Thread | x 1-1/2" Flare Copper | 4.2 | 2 | 181.23 |
| ELL COUPLINGS | | | | | |
| L02-33-NL | 3/4" Female Copper Thread | x 3/4" Flare Copper | 1.0 | 15 | 31.82 |
| L02-33S-NL | 3/4" Female Copper Thread Swivel | x 3/4" Flare Copper | 1.1 | 14 | 42.47 |
| L02-44-NL | 1" Female Copper Thread | x 1" Flare Copper | 1.6 | 8 | 50.69 |
| L02-44S-NL | 1" Female Copper Thread Swivel | x 1" Flare Copper | 1.6 | 8 | 59.96 |
| L02-66-NL | 1-1/2" Female Copper Thread | x 1-1/2" Flare Copper | 3.5 | 2 | 160.60 |
| L02-66S-NL | 1-1/2" Female Copper Thread Swivel | x 1-1/2" Flare Copper | 4.6 | 2 | 175.55 |
| L02-77-NL | 2" Female Copper Thread | x 2" Flare Copper | 7.0 | 1 | 300.65 |
| L02-77S-NL | 2" Female Copper Thread Swivel | x 2" Flare Copper | 8.0 | 1 | 307.59 |
| EIGHTH BEND COUPLINGS | | | | | |
| LA02-33-NL | 3/4" Female Copper Thread | x 3/4" Flare Copper | 0.7 | 18 | 29.82 |
| LA02-33S-NL | 3/4" Female Copper Thread Swivel | x 3/4" Flare Copper | 1.0 | 18 | 38.28 |
| LA02-44-NL | 1" Female Copper Thread | x 1" Flare Copper | 1.3 | 10 | 43.91 |
| LA02-44S-NL | 1" Female Copper Thread Swivel | x 1" Flare Copper | 1.5 | 10 | 52.23 |
| LA02-66-NL | 1-1/2" Female Copper Thread | x 1-1/2" Flare Copper | 3.4 | 2 | 139.05 |
| LA02-66S-NL | 1-1/2" Female Copper Thread Swivel | x 1-1/2" Flare Copper | 4.3 | 2 | 236.54 |
| LA02-77-NL | 2" Female Copper Thread | x 2" Flare Copper | 6.4 | 3 | 256.84 |
| LA02-77S-NL | 2" Female Copper Thread Swivel | x 2" Flare Copper | 7.7 | 1 | 334.84 |

Note: Copper gaskets are included with 3/4"-2" female copper thread sizes.

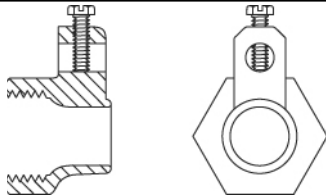
"Less Nut" can be ordered by inserting "-LN" into the catalog number. Example: C02-44-LN-NL

COPPER TUBE NUTS FOR FLARE CONNECTIONS



| CATALOG NUMBER | DESCRIPTION CONNECTION SIZE | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|----------------|-----------------------------|------------------|----------------|------------|
| CTN-1 | 1/2" | 0.2 | - | \$ 3.62 |
| CTN-2 | 5/8" | 0.2 | - | 5.71 |
| CTN-3 | 3/4" | 0.3 | 40 | 5.95 |
| CTN-4 | 1" | 0.5 | 16 | 9.84 |
| CTN-5 | 1-1/4" | 0.7 | 10 | 15.80 |
| CTN-6 | 1-1/2" | 1.2 | 7 | 27.49 |
| CTN-7 | 2" | 2.2 | 3 | 51.24 |

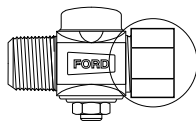
THAW WIRE COPPER TUBE NUTS FOR FLARE COPPER CONNECTIONS



These nuts have a lug attachment for connecting an electric thawing wire.

| CATALOG NUMBER | DESCRIPTION CONNECTION SIZE | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|----------------|-----------------------------|------------------|----------------|------------|
| CTN-3-THW | 3/4" | 0.4 | 35 | \$ 15.60 |
| CTN-4-THW | 1" | 0.7 | 15 | 19.49 |

BRASS END CAPS - TO CAP OFF A CORPORATION STOP OR COUPLING

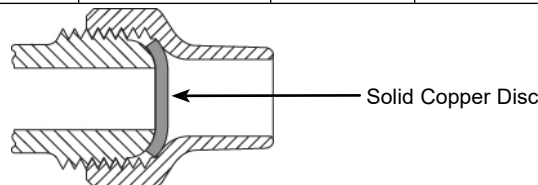


| CATALOG NUMBER | VALVE SIZE | TYPE OF CORPORATION STOPS/COUPLINGS | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|----------------|------------|---|------------------|----------------|------------|
| CAP-24-3-NL | 3/4" | Flare Copper Corp & CTS Compression Corps | 0.3 | 72 | \$ 38.46 |
| CAP-2-4-NL | 1" | Flare Copper Corp & CTS Compression Corps <i>- Also fits 3/4" PEP Corp & 3/4" PVC Corp</i> | 0.5 | 32 | 62.19 |
| CAP-4-4-NL | 1" | CTS Pack Joint Coupling & CTS Grip Joint Coupling | 0.6 | 32 | 62.19 |
| CAP-2-5-NL | 1-1/4" | Flare Copper Corp & CTS Compression Corp (excluding Quick Joint) <i>- Also fits 1" PEP Corp & 1" PVC Corp</i> | 0.7 | 24 | 71.86 |
| CAP-4-5-Q-NL | 1-1/4" | CTS Quick Joint Corp | 0.8 | 34 | 71.86 |
| CAP-4-5-NL | 1-1/4" | CTS Pack Joint Corp & CTS Grip Joint Coupling - <i>Also fits 1" PEP Cplg</i> | 0.9 | 24 | 71.86 |
| CAP-2-6-NL | 1-1/2" | Flare Copper Corp, CTS Compression Corp (excluding Quick Joint) & PVC Coupling | 1.0 | 20 | 92.46 |
| CAP-4-6-Q-NL | 1-1/2" | CTS Quick Joint Corp | 1.0 | 18 | 92.46 |
| CAP-2-7-NL | 2" | Flare Copper Corp, CTS Compression Corp (excluding Quick Joint) & PVC Corp - <i>Also fits 2-1/2" CTS Pack & Grip Coupling</i> | 1.6 | 9 | 121.71 |
| CAP-4-7-Q-NL | 2" | CTS Quick Joint Corp | 1.7 | 12 | 121.71 |
| CAP-4-7-NL | 2" | CTS Pack Joint Coupling & CTS Grip Joint Coupling - <i>Also fits 1-1/2" PEP Pack Joint (IDR7)</i> | 2.5 | 12 | 121.71 |

SOLID COPPER DISCS TO PLUG SERVICE AT FLARE COPPER CONNECTIONS



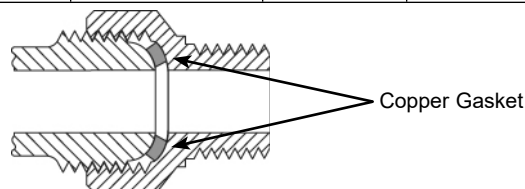
| CATALOG NUMBER | DESCRIPTION CONNECTION SIZE | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|----------------|-----------------------------|------------------|----------------|------------|
| DISC-2 | 5/8" | 0.01 | 100 | \$ 2.71 |
| DISC-3 | 3/4" | 0.04 | 100 | 2.24 |
| DISC-4 | 1" | 0.06 | 100 | 2.95 |
| DISC-5 | 1-1/4" | 0.07 | 25 | 4.39 |
| DISC-6 | 1-1/2" | 0.09 | 25 | 7.29 |
| DISC-7 | 2" | 0.18 | 25 | 8.09 |



COPPER GASKETS FOR FLARE COPPER CONNECTIONS
(for adapters that replace flare copper tube nut)



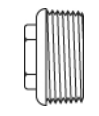
| CATALOG NUMBER | DESCRIPTION CONNECTION SIZE | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|----------------|-----------------------------|------------------|----------------|------------|
| SLC-3 | 3/4" | 0.01 | 100 | \$ 2.01 |
| SLC-4 | 1" | 0.02 | 100 | 2.85 |
| SLC-5 | 1-1/4" | 0.03 | - | 3.24 |
| SLC-6 | 1-1/2" | 0.04 | - | 4.60 |
| SLC-7 | 2" | 0.08 | - | 5.81 |



BRASS BUSHINGS*



C18-34-NL



C18-37-NL

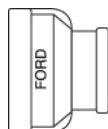
| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|----------------|-------------------------|-------------------------|------------------|----------------|------------|
| C18-13-NL | 1/2" Female Iron Pipe | x 3/4" Male Iron Pipe | 0.1 | 100 | \$ 6.00 |
| C18-14-NL | 1/2" Female Iron Pipe | x 1" Male Iron Pipe | 0.3 | 60 | 9.47 |
| C18-31-NL | 3/4" Female Iron Pipe | x 1/2" Male Iron Pipe | 0.4 | 30 | 7.47 |
| C18-34-NL | 3/4" Female Iron Pipe | x 1" Male Iron Pipe | 0.3 | 60 | 7.47 |
| C18-35-NL | 3/4" Female Iron Pipe | x 1-1/4" Male Iron Pipe | 0.4 | 35 | 17.86 |
| C18-36-NL | 3/4" Female Iron Pipe | x 1-1/2" Male Iron Pipe | 0.9 | 20 | 30.21 |
| C18-37-NL | 3/4" Female Iron Pipe | x 2" Male Iron Pipe | 0.7 | 16 | 31.48 |
| C18-43-NL | 1" Female Iron Pipe | x 3/4" Male Iron Pipe | 0.3 | 40 | 13.74 |
| C18-45-NL | 1" Female Iron Pipe | x 1-1/4" Male Iron Pipe | 0.4 | 35 | 14.38 |
| C18-46-NL | 1" Female Iron Pipe | x 1-1/2" Male Iron Pipe | 0.7 | 20 | 30.21 |
| C18-47-NL | 1" Female Iron Pipe | x 2" Male Iron Pipe | 0.7 | 16 | 29.16 |
| C18-54-NL | 1-1/4" Female Iron Pipe | x 1" Male Iron Pipe | 0.6 | 14 | 27.50 |
| C18-56-NL | 1-1/4" Female Iron Pipe | x 1-1/2" Male Iron Pipe | 0.7 | 20 | 20.82 |
| C18-57-NL | 1-1/4" Female Iron Pipe | x 2" Male Iron Pipe | 1.1 | 10 | 51.40 |
| C18-67-NL | 1-1/2" Female Iron Pipe | x 2" Male Iron Pipe | 0.8 | 15 | 29.08 |
| C18-76-NL | 2" Female Iron Pipe | x 1-1/2" Male Iron Pipe | 1.7 | 6 | 89.60 |
| C18-78-NL | 2" Female Iron Pipe | x 2-1/2" Male Iron Pipe | 1.4 | 6 | 46.65 |

* Also commonly referred to as a coupling (increasing or decreasing) for waterworks applications.

BRASS UNIONS

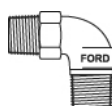
| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|----------------|-----------------------|-------------------------|------------------|----------------|------------|
| UNION-3-NL | 3/4" Female Iron Pipe | x 3/4" Female Iron Pipe | 0.8 | 25 | \$ 33.90 |
| UNION-4-NL | 1" Female Iron Pipe | x 1" Female Iron Pipe | 1.0 | 12 | 62.17 |

COUPLINGS AND REDUCING COUPLINGS



| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|----------------|-------------------------|---------------------------|------------------|----------------|------------|
| C11-33-NL | 3/4" Female Iron Pipe | x 3/4" Female Iron Pipe | 0.4 | 28 | \$ 16.98 |
| C11-43-NL | 1" Female Iron Pipe | x 3/4" Female Iron Pipe | 0.4 | 24 | 19.26 |
| C11-44-NL | 1" Female Iron Pipe | x 1" Female Iron Pipe | 0.5 | 1 | 21.55 |
| C11-54-NL | 1-1/4" Female Iron Pipe | x 1" Female Iron Pipe | 0.6 | 20 | 21.55 |
| C11-64-NL | 1-1/2" Female Iron Pipe | x 1" Female Iron Pipe | 0.7 | 15 | 30.74 |
| C11-66-NL | 1-1/2" Female Iron Pipe | x 1-1/2" Female Iron Pipe | 0.8 | 9 | 40.75 |
| C11-74-NL | 2" Female Iron Pipe | x 1" Female Iron Pipe | 1.5 | 8 | 62.89 |
| C11-75-NL | 2" Female Iron Pipe | x 1-1/4" Female Iron Pipe | 1.5 | 8 | 52.61 |
| C88-45-NL | 1-1/4" Male Iron Pipe | x 1" Male Iron Pipe | 0.6 | 24 | 34.80 |

ELL COUPLINGS



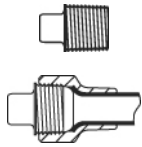
| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|----------------|--------------------------------------|-------------------------|------------------|----------------|------------|
| L18-33-NL | 3/4" Female Iron Pipe | x 3/4" Male Iron Pipe | 0.5 | 18 | \$ 18.55 |
| L18-44-NL | 1" Female Iron Pipe | x 1" Male Iron Pipe | 0.9 | 12 | 49.21 |
| L18-76S-NL | 2" Female Iron Pipe (swivel nut) | x 1-1/2" Male Iron Pipe | 3.2 | 4 | 128.61 |
| L18-87S-NL | 2-1/2" Female Iron Pipe (swivel nut) | x 2" Male Iron Pipe | 4.0 | 2 | 249.63 |
| L88-33-NL | 3/4" Male Iron Pipe | x 3/4" Male Iron Pipe | 0.5 | 30 | 17.93 |
| L88-77-NL | 2" Male Iron Pipe | x 2" Male Iron Pipe | 2.4 | 4 | 154.33 |

J

EIGHTH BEND COUPLINGS

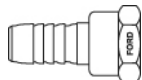
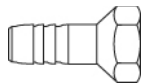
| CATALOG NUMBER | DESCRIPTION | | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|----------------|-------------------|-----------------------|------------------|----------------|------------|
| LA81-44-NL | 1" Male Iron Pipe | x 1" Female Iron Pipe | 0.9 | 15 | \$ 44.73 |

BRASS SERVICE PLUGS



| CATALOG NUMBER | DESCRIPTION | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|-----------------------------|---|------------------|----------------|------------|
| Pipe Plugs | | | | |
| CSP-3-I-NL | 3/4" Male Iron Pipe Thread x Square Wrench Head | 0.2 | 100 | \$ 11.59 |
| CSP-4-I-NL | 1" Male Iron Pipe Thread x Square Wrench Head | 0.4 | 50 | 18.49 |
| CSP-6-I-NL | 1-1/2" Male Iron Pipe Thread x Square Wrench Head | 0.4 | - | 42.67 |
| Copper Service Plugs | | | | |
| CSP-3-NL | Male Cop. Thrd. for 3/4" CTN x Square Wrench Head | 0.2 | 50 | 11.92 |
| CSP-4-NL | Male Cop. Thrd. for 1" CTN x Square Wrench Head | 0.4 | 35 | 19.11 |

* STRAIGHT RIBBED INSERT FITTINGS FOR SIDR-7 PE PLASTIC PIPE

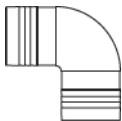


| CATALOG NUMBER | DESCRIPTION | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|--|--|------------------|----------------|------------|
| BOTH ENDS RIBBED INSERT FOR PE PIPE | | | | |
| PTP-1-NL | 3/4" PE Pipe x 3/4" PE Pipe | 0.3 | 60 | \$ 16.32 |
| PTP-21-NL | 3/4" PE Pipe x 1" PE Pipe | 0.4 | 40 | 22.60 |
| PTP-2-NL | 1" PE Pipe x 1" PE Pipe | 0.4 | 35 | 21.77 |
| PTP-3-NL | 1-1/4" PE Pipe x 1-1/4" PE Pipe | 0.5 | 25 | 29.04 |
| PTP-32-NL | 1-1/4" PE Pipe x 1" PE Pipe | 0.5 | 25 | 30.74 |
| PTP-4-NL | 1-1/2" PE Pipe x 1-1/2" PE Pipe | 0.8 | 12 | 42.79 |
| PTP-5-NL | 2" PE Pipe x 2" PE Pipe | 1.1 | 9 | 53.75 |
| FEMALE COPPER THREAD TO RIBBED INSERT FOR PE PIPE | | | | |
| PTC-1-NL | 3/4" Female Cop. Thrd. x 3/4" PE Pipe | 0.3 | 25 | 16.53 |
| PTC-21-NL | 3/4" Female Cop. Thrd. x 1" PE Pipe | 0.4 | 25 | 18.09 |
| PTC-2-NL | 1" Female Cop. Thrd. x 1" PE Pipe | 0.7 | 20 | 29.74 |
| PTC-4-NL | 1-1/2" Female Cop. Thrd. x 1-1/2" PE Pipe | 1.4 | 8 | 65.01 |
| PTC-5-NL | 2" Female Cop. Thrd. x 2" PE Pipe | 2.5 | 3 | 111.44 |
| MALE IRON PIPE THREAD TO RIBBED INSERT FOR PE PIPE | | | | |
| PTM-1-NL | 3/4" Male Iron Pipe x 3/4" PE Pipe | 0.3 | 45 | 13.59 |
| PTM-21-NL | 3/4" Male Iron Pipe x 1" PE Pipe | 0.4 | 36 | 18.97 |
| PTM-2-NL | 1" Male Iron Pipe x 1" PE Pipe | 0.5 | 25 | 22.28 |
| PTM-3-NL | 1-1/4" Male Iron Pipe x 1-1/4" PE Pipe | 0.8 | 18 | 36.99 |
| PTM-4-NL | 1-1/2" Male Iron Pipe x 1-1/2" PE Pipe | 1.0 | 12 | 35.94 |
| PTM-5-NL | 2" Male Iron Pipe x 2" PE Pipe | 1.1 | 8 | 38.04 |
| FEMALE IRON PIPE THREAD TO RIBBED INSERT FOR PE PIPE | | | | |
| PTF-1-NL | 3/4" Female Iron Pipe x 3/4" PE Pipe | 0.5 | 30 | 20.31 |
| PTF-21-NL | 3/4" Female Iron Pipe x 1" PE Pipe | 0.5 | 25 | 21.46 |
| PTF-2-NL | 1" Female Iron Pipe x 1" PE Pipe | 0.6 | 25 | 22.65 |
| SOLDER SOCKET FOR COPPER TO RIBBED INSERT FOR PE PIPE | | | | |
| ○ PTSS-1-NL | 3/4" Solder Socket for Cop. x 3/4" PE Pipe | 0.3 | - | 18.32 |
| ○ PTSS-2-NL | 1" Solder Socket for Cop. x 1" PE Pipe | 0.5 | 25 | 22.00 |
| ○ PTSS-3-NL | 1-1/4" Solder Socket for Cop. x 1-1/4" PE Pipe | 0.8 | - | 36.73 |
| SOLDER NOSE FOR COPPER TO RIBBED INSERT FOR PE PIPE | | | | |
| ○ PTS-1-NL | 3/4" Solder Nose for Cop. x 3/4" PE Pipe | 0.2 | 80 | 15.88 |
| ○ PTS-2-NL | 1" Solder Nose for Cop. x 1" PE Pipe | 0.3 | 50 | 19.52 |
| ○ PTS-3-NL | 1-1/4" Solder Nose for Cop. x 1-1/4" PE Pipe | 0.8 | - | 38.09 |

○ **Attention:** Special solder and procedures are required for best results. Contact factory or see website for installation instructions.

* For use, specifically, with stainless steel screw-type clamps.

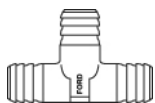
* ELL RIBBED INSERT FITTINGS FOR SIDR-7 PE PLASTIC PIPE



| CATALOG NUMBER | DESCRIPTION | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|--|---------------------------------|------------------|----------------|------------|
| BOTH ENDS RIBBED INSERT FOR PE PIPE | | | | |
| PTPL-4-NL | 1-1/2" PE Pipe x 1-1/2" PE Pipe | 1.0 | 6 | \$ 54.54 |
| PTPL-5-NL | 2" PE Pipe x 2" PE Pipe | 1.5 | 6 | 84.33 |

* For use, specifically, with stainless steel screw-type clamps.

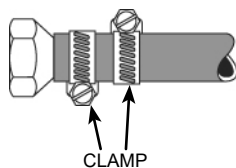
*** SERVICE TEE RIBBED INSERT FITTING FOR 1" SIDR-7 PE PLASTIC PIPE**



| CATALOG NUMBER | DESCRIPTION | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|----------------|--------------------------------------|------------------|----------------|------------|
| PTPT-2-NL | 1" PE Pipe x 1" PE Pipe x 1" PE Pipe | 0.7 | 18 | \$ 50.99 |

* For use, specifically, with stainless steel screw-type clamps.

STAINLESS STEEL SCREW-TYPE CLAMPS FOR PE PLASTIC PIPE



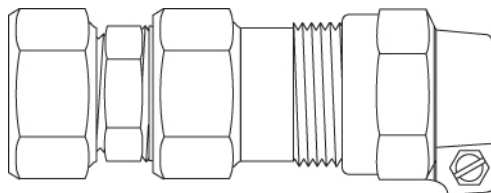
| CATALOG NUMBER | DESCRIPTION | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|----------------|--------------------|------------------|----------------|------------|
| CLAMP-16 | For 3/4" PE Pipe | 0.05 | 100 | \$ 4.84 |
| CLAMP-20 | For 1" PE Pipe | 0.05 | 75 | 4.84 |
| CLAMP-24 | For 1-1/4" PE Pipe | 0.05 | 70 | 4.84 |
| CLAMP-32 | For 1-1/2" PE Pipe | 0.06 | 40 | 4.84 |
| CLAMP-40 | For 2" PE Pipe | 0.07 | 35 | 4.84 |

FLARE NUTS FOR SIDR-7 PE PIPE (REPLACES COPPER FLARE NUT)



| CATALOG NUMBER | DESCRIPTION | APPROX. WT. LBS. | STD. PKG. QTY. | LIST PRICE |
|----------------|------------------|------------------|----------------|------------|
| FPN-3 | For 3/4" PE Pipe | 0.4 | 35 | \$ 12.86 |
| FPN-4 | For 1" PE Pipe | 0.7 | - | 20.14 |

SERVICE INSULATOR COUPLINGS



| CATALOG NUMBER | DESCRIPTION | COMPONENTS | LIST PRICE |
|--------------------|---|--|------------|
| SI-C02-33-AWT-NL | 3/4" Female Copper Thread x 3/4" Flare Copper | C08-33-NL/DB-34/C21-34-NL AWT | \$ 57.60 |
| ◆ SI-C04-44-AWT-NL | 1" Female Copper Thread x 1" Pack Joint (CTS) | C08-44-NL/DB-45/C14-54-NL AWT | 80.81 |
| ◆ SI-C04-66-AWT-NL | 1-1/2" Female Copper Thread x 1-1/2" Pack Joint (CTS) | C08-66-NL/DB-67/C14-76-NL AWT | 189.26 |
| ◆ SI-C04-77-AWT-NL | 2" Female Copper Thread x 2" Pack Joint (CTS) | C08-77-NL/DB-78/C14-87-NL AWT | 310.72 |
| SI-C22-33-AWT-NL | 3/4" Flare Copper x 3/4" Flare Copper | C21-34-NL/DB-34/C28-33-NL AWT | 63.81 |
| SI-C22-44-AWT-NL | 1" Flare Copper x 1" Flare Copper | C21-45-NL/DB-45/C28-44-NL AWT | 90.29 |
| ◆ SI-C44-33-AWT-NL | 3/4" Pack Joint (CTS) x 3/4" Pack Joint (CTS) | C14-43-NL/DB-34/C84-33-NL AWT | 68.91 |
| ◆ SI-C44-44-AWT-NL | 1" Pack Joint (CTS) x 1" Pack Joint (CTS) | C84-44-NL/DB-45/PJA4-44-C14-54-NL AWT | 89.09 |
| ◆ SI-C44-55-AWT-NL | 1-1/4" Pack Joint (CTS) x 1-1/4" Pack Joint (CTS) | C84-55-NL/DB-56/C21-66-LN-NL/C01-65-NL/C84-55-NL AWT | 276.15 |
| SI-C44-66-AWT-NL | 1-1/2" Pack Joint (CTS) x 1-1/2" Pack Joint (CTS) | C84-66-NL/DB-67/C14-76-NL AWT | 209.39 |
| SI-C44-77-AWT-NL | 2" Pack Joint (CTS) x 2" Pack Joint (CTS) | C84-77-NL/DB-78/C14-87-NL AWT | 328.86 |
| SI-C44-77-AWT-Q-NL | 2" Quick Joint (CTS) x 2" Quick Joint (CTS) | C84-77-Q-NL/DB-78/C14-87-Q-NL AWT | 357.21 |
| SI-C77-44-AWT-NL | 1" Pack Joint (PVC) x 1" Pack Joint (PVC) | C17-54-NL/DB45/C87-44-NL AWT | 112.49 |

Note: These products are manufactured from components assembled watertight.

Grip Joint for CTS is available. Insert "-G" into the catalog number. Example: SI-C04-44-G-NL

◆ Quick Joint is available. Insert "-Q" into the catalog number. Example: SI-C04-44-Q-NL