

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 (SIDR7) PE Pipe
- 7 = Pack Joint for PVC/IPS PE 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

NO-LEAD

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 (SIDR7) 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"

G = Grip Joint (3/4" - 2"
CTS and 3/4" and 1" PEP)

Q = Quick Joint (for
indicated items)

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

Ford Tee Numbering System

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

T = Tee
TD = Cut-In Tee

Run
Side Outlet

NO-LEAD

Lead Pipe on One End

Q 2 1 - 3 3 - NL

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 (SIDR7) PE Pipe
- 8 = Male Iron Pipe Thread
- S = Solder

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"

NO-LEAD

Lead Pipe on Both Ends

Q 3 Q 3 - 4 4 - NL

Ford Lead-Pak Numbering System

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

Note: Ford Pack, Quick and Grip Joint compression connections, when used on copper, are designed for Type K or Type L copper only.

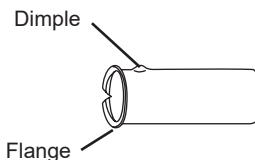
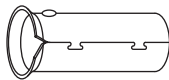
INSERT STIFFENERS

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

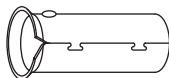
CATALOG NUMBER	NOMINAL SIZE	PET AVE ID	APPROX. WT. LBS.	STD *PKG. QTY.	LIST PRICE
INSERT-51	3/4"	0.669	4.8	200	\$ 3.41
INSERT-52	1"	0.860	4.2	100	3.61
** INSERT-53-72	1-1/4"	1.051	2.9	50	4.44
*** INSERT-53-72-Q	1-1/4"	1.051	2.9	50	4.44
INSERT-54	1-1/2"	1.241	3.1	25	4.97
◆ INSERT-54-Q	1-1/2"	1.625	2.6	30	4.97
INSERT-55	2"	1.241	6.0	40	4.97
◆ INSERT-55-Q	2"	1.125	5.8	50	4.97



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

70 SERIES FOR POLYETHYLENE PIPE

CATALOG NUMBER	NOMINAL SIZE	PEP AVE ID	APPROX. WT. LBS.	STD *PKG. QTY.	LIST PRICE
INSERT-71	3/4"	0.824	4.4	100	\$ 3.84
** INSERT-53-72	1"	1.049	2.9	50	4.44
*** INSERT-53-72-Q	1"	1.049	2.9	50	4.44
INSERT-73	1-1/4"	1.380	5.8	75	6.59
INSERT-74	1-1/2"	1.610	5.5	45	7.25
INSERT-75	2"	2.067	9.7	50	7.94



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

CATALOG NUMBER	NOMINAL SIZE AND PIPE TYPE	DR	HDPE O.D.	AVERAGE I.D.	LIST PRICE
INSERT-51	1/2" IPS	11	0.840	0.679	\$ 3.41
INSERT-52	3/4" IPS	11	1.050	0.849	3.61
** INSERT-53-72	1" IPS	11	1.315	1.061	4.44
INSERT-73-DR11	1-1/4" IPS	11	1.660	1.340	7.25
INSERT-74-DR11	1-1/2" IPS	11	1.900	1.533	7.77
INSERT-75-DR11	2" IPS	11	2.375	1.917	8.79

INSERTS FOR OD CONTROLLED DR9 HIGH DENSITY POLYETHYLENE (HDPE) PIPE WITH IPS O.D.

CATALOG NUMBER	NOMINAL SIZE AND PIPE TYPE	DR	HDPE OD	AVERAGE ID	STD. PKG. QTY.	LIST PRICE
INSERT-71	3/4" IPS	9	1.050	0.802	100	\$ 3.84
INSERT-72-DR9	1" IPS	9	1.315	1.005	200	4.26

* Weights for insert stiffeners are for standard package quantities.

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

*** INSERT-53-72-Q fits 1-1/4" plastic tubing (1.069 I.D.) and 1" plastic pipe (1.049 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, polyethylene (PET) tubing
PEP	-	polyethylene (PEP) pipe
PVC	-	polyvinyl chloride (PVC) pipe (Schedule 40 and 80)/IPS PE (DR9 and DR11)
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.						AVERAGE 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	0.479	0.669	0.860	1.051	1.241	1.625
PEP	PE3408 200	SIDR7	ID	0.800	1.060	1.349	1.774	2.070	2.657	0.622	0.824	1.049	1.380	1.610	2.067
IPS PE	PE4710 250	SDR9	OD	0.840	1.050	1.315	1.660	1.900	2.375	0.643	0.802	1.005	1.270	1.453	1.815
SDR11	PE4710 200	SDR11	OD	0.840	1.050	1.315	1.660	1.900	2.375	0.679	0.849	1.061	1.340	1.533	1.917
PVC (SCH40)	—	—	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	—	—	—	—	—	—

Ford Pack Joints for PVC are recommended for use only with Schedule 40 and Schedule 80 PVC / IPS PE (DR9 AND DR11).

COPPER ROUNDING TOOLS

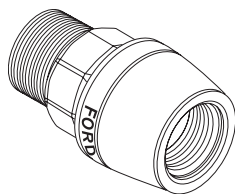


CATALOG NUMBER	TUBE SIZE	APPROX. WT. LBS.	LIST PRICE
CRT-3	3/4"	0.7	\$ 110.30
CRT-4	1"	1.4	120.47
CRT-5	1-1/4"	2.3	160.59
CRT-6	1-1/2"	3.8	170.82
CRT-7	2"	8.0	200.92

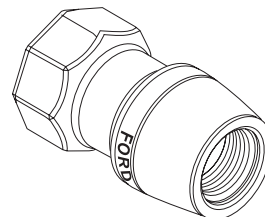
NOTE: Ford copper rounding tools are designed for use on Type K copper only.

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
with Flow-Thru Port**

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	0.2	\$ 113.50
PECTS-4-CTS	0.580" x 1.060"	1" PET/CTS	1.120 - 1.130	0.2	117.53
PECTS-3-IPS	0.580" x 1.020"	3/4" PEP/IPS	1.045 - 1.110	0.2	122.56
PECTS-4-IPS	0.680" x 1.320"	1" PEP/IPS	1.329 - 1.399	0.2	123.56

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

PECT-BLADE-230910	\$ 46.18
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**Gripper Ring
Removal Tool**

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	\$ 20.09 pr.

1" size requires the use of two removal tools.

Note: Ford Pack, Quick and Grip Joint compression connections, when used on copper, are designed for Type K or Type L copper only.

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)	\$ 2.22
UTGR4-4	1" PET Gripper Ring (red)	2.48
UTGR6-3	3/4" PEP Gripper Ring (white)	2.34
UTGR6-4	1" PEP Gripper Ring (white)	2.73
ORING-650405-EP	3/4" CTS EPDM O-ring	3.59
ORING-650407-EP	1" CTS EPDM O-ring	4.81
ORING-650420-EP	3/4" IP EPDM O-ring	4.03
ORING-650422-EP	1" IP EPDM O-ring	4.17

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.

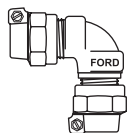
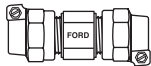
NOMINAL SIZE OF CONNECTION	MATERIAL	TUBING OR PIPE O.D. RANGE (IN.)	TUBING OR PIPE WALL THICKNESS RANGE (IN.)	TUBING OR PIPE I.D. RANGE (IN.)
3/4" CTS PE	Polyethylene (PE)	0.871 - 0.879	0.097 - 0.107	0.657 - 0.685
1" CTS PE	Polyethylene (PE)	1.120 - 1.130	0.125 - 0.137	0.846 - 0.880
3/4" IPS PE	Polyethylene (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.

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"	0.7	20	\$ 45.60
◆C44-12-NL	1/2"	5/8"	0.8	16	50.63
*◆C44-13-NL	1/2"	3/4"	0.8	16	44.69
*C44-14-NL	1/2"	1"	1.0	14	52.68
◆C44-22-NL	5/8"	5/8"	1.0	14	55.43
*◆C44-23-NL	5/8"	3/4"	0.9	14	49.56
◆◆C44-33-NL	3/4"	3/4"	0.8	14	43.69
C44-33S-Q-NL	3/4"	3/4"	0.9	20	43.69
‡◆C44-33-4-75-NL	3/4"	3/4"	1.3	12	72.08
▶◆C44-34-NL	3/4"	1"	0.9	12	50.77
C44-35-NL	3/4"	1-1/4"	1.6	6	82.64
◆◆C44-44-NL	1"	1"	1.0	10	49.97
C44-44S-Q-NL	1"	1"	1.4	10	49.97
‡◆C44-44-4-75-NL	1"	1"	1.6	-	82.46
◆C44-45-NL	1"	1-1/4"	1.4	10	73.72
◆C44-46-NL	1"	1-1/2"	2.0	4	119.49
◆◆C44-55-NL	1-1/4"	1-1/4"	2.0	4	86.29
C44-56-NL	1-1/4"	1-1/2"	2.6	6	138.37
◆C44-66-NL	1-1/2"	1-1/2"	3.0	10	167.24
C44-66S-Q-NL	1-1/2"	1-1/2"	2.6	6	167.24
C44-67-NL	1-1/2"	2"	3.5	2	182.21
◆C44-77-NL	2"	2"	4.2	6	225.75
C44-77S-Q-NL	2"	2"	3.4	6	225.75
C44-88-NL	2-1/2"	2-1/2"	6.9	1	334.29



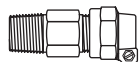
ELL COUPLINGS					
▶◆L44-33-NL	3/4"	3/4"	0.9	12	56.46
▶◆L44-34-NL	3/4"	1"	1.1	10	64.68
▶◆L44-44-NL	1"	1"	1.4	6	72.51
L44-55-NL	1-1/4"	1-1/4"	2.1	4	131.05
◆L44-66-NL	1-1/2"	1-1/2"	3.4	3	232.88
◆L44-77-NL	2"	2"	5.8	1	471.16

EIGHTH BEND COUPLINGS

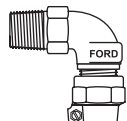
◆LA44-33-NL	3/4"	3/4"	0.9	-	63.62
◆LA44-44-NL	1"	1"	1.3	-	110.41

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	\$ 34.85
C84-12-NL	1/2"	5/8"	0.6	15	39.01
◆C84-13-NL	1/2"	3/4"	0.5	25	33.07
◆C84-31-NL	3/4"	1/2"	0.5	30	34.86
◆C84-32-NL	3/4"	5/8"	0.7	20	41.73
◆◆C84-33-NL	3/4"	3/4"	0.6	20	35.87
‡◆C84-33-4-75-NL	3/4"	3/4"	1.0	15	59.19
◆◆C84-34-NL	3/4"	1"	0.7	18	39.72
C84-42-NL	1"	5/8"	0.7	-	44.50
▶◆C84-43-NL	1"	3/4"	0.6	20	39.19
◆◆C84-44-NL	1"	1"	0.8	14	42.48
‡◆C84-44-4-75-NL	1"	1"	1.3	6	70.12
◆◆C84-45-NL	1"	1-1/4"	1.3	12	69.23
◆C84-46-NL	1"	1-1/2"	1.8	5	99.67
C84-54-NL	1-1/4"	1"	1.0	5	80.51
◆C84-55-NL	1-1/4"	1-1/4"	1.4	8	81.22
C84-56-NL	1-1/4"	1-1/2"	1.8	5	105.74
◆C84-66-NL	1-1/2"	1-1/2"	2.0	8	116.38
C84-67-NL	1-1/2"	2"	2.7	4	140.10
◆C84-77-NL	2"	2"	2.8	4	169.57



ELL COUPLINGS					
L84-11-Q-NL	1/2"	1/2"	0.6	25	50.76
▶◆L84-33-NL	3/4"	3/4"	0.7	16	39.29
▶ L84-34-NL	3/4"	1"	0.8	12	53.30
▶◆L84-44-NL	1"	1"	1.0	10	65.36
◆L84-66-NL	1-1/2"	1-1/2"	2.5	4	189.82
◆L84-77-NL	2"	2"	3.6	2	272.05



EIGHTH BEND COUPLINGS					
◆LA84-33-NL	3/4"	3/4"	0.7	15	43.69
LA84-44-NL	1"	1"	0.8	12	59.41

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.

▶ 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")

Note: Ford Pack, Quick and Grip Joint compression connections, when used on copper, are designed for Type K or Type L copper only.

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"	0.4	36	\$ 33.53
C14-12-NL	1/2"	5/8"	0.5	25	41.81
C14-13-NL	1/2"	3/4"	0.5	25	35.87
C14-31-NL	3/4"	1/2"	0.6	25	43.62
●◆C14-33-NL	3/4"	3/4"	0.5	25	37.74
●◆C14-34-NL	3/4"	1"	0.7	18	44.45
●C14-35-NL	3/4"	1-1/4"	1.1	10	77.12
►◆C14-43-NL	1"	3/4"	0.6	20	44.92
●◆C14-44-NL	1"	1"	0.8	15	51.20
●C14-45-NL	1"	1-1/4"	1.1	10	72.96
►*PJA4-44-C14-54-NL	1-1/4"	1"	0.9	12	54.87
* PJA4-44-C14-54-Q-NL	1-1/4"	1"	1.0	12	54.87
*◆PJA4-45-C14-55-NL	1-1/4"	1-1/4"	1.3	10	93.47
* PJA4-46-C14-56-NL	1-1/4"	1-1/2"	1.8	10	116.90
◆C14-66-NL	1-1/2"	1-1/2"	2.2	5	148.86
C14-67-NL	1-1/2"	2"	2.6	3	168.06
C14-76-NL	2"	1-1/2"	2.8	4	159.65
◆C14-77-NL	2"	2"	2.7	3	177.25
◆C14-87-NL	2-1/2"	2"	4.9	3	272.33
C14-87-Q-NL	2-1/2"	2"	4.4	-	272.33
C14-88-NL	2-1/2"	2-1/2"	5.3	2	311.33
ELL COUPLINGS					
L14-11-Q-NL	1/2"	1/2"	0.6	-	45.27
►◆L14-33-NL	3/4"	3/4"	0.9	16	50.90
► L14-43-NL	1"	3/4"	1.0	12	52.55
L14-43-Q-NL	1"	3/4"	1.0	12	56.22
►◆L14-44-NL	1"	1"	1.2	8	82.99
◆L14-54-NL	1-1/4"	1"	1.4	8	87.37
◆L14-66-NL	1-1/2"	1-1/2"	3.3	2	210.12
◆L14-77-NL	2"	2"	4.7	2	300.36
EIGHTH BEND COUPLINGS					
◆LA14-33-NL	3/4"	3/4"	0.7	18	57.66
►◆LA14-43-NL	1"	3/4"	0.6	18	55.80
◆LA14-44-NL	1"	1"	1.2	10	111.63
► LA14-54-NL	1-1/4"	1"	1.1	-	77.21
LA14-76-NL	2"	1-1/2"	2.8	4	210.04
LA14-87-NL	2-1/2"	2"	5.1	2	335.46

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	\$ 50.63
► C24-33-NL	3/4"	3/4"	0.9	14	60.13
► C24-34-NL	3/4"	1"	1.0	12	63.68
► C24-44-NL	1"	1"	1.5	10	97.34
C24-45-NL	1"	1 1/4"	1.7	6	110.24
ELL COUPLINGS					
► ♦L24-33-NL	3/4"	3/4"	1.0	14	64.04
► ♦L24-44-NL	1"	1"	1.6	8	88.20

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

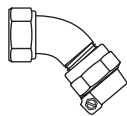
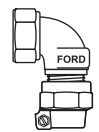
• **Ultra-Tite** is available. Insert "-U" into the catalog number. Example: C14-44-U-NL

Note: Ford Pack, Quick and Grip Joint compression connections, when used on copper, are designed for Type K or Type L copper only.

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"	0.6	20	\$ 45.63
◆C04-33-NL	3/4"	3/4"	0.6	20	40.80
● C04-34-NL	3/4"	1"	0.7	18	47.55
C04-34-Q-NL	3/4"	1"	0.9	18	52.81
◆C04-43-NL	1"	3/4"	0.8	14	50.90
◆◆C04-44-NL	1"	1"	0.9	12	59.99
◆◆C04-45-NL	1"	1-1/4"	1.3	10	80.00
◆C04-54-NL	1-1/4"	1"	1.1	10	64.64
◆C04-55-NL	1-1/4"	1-1/4"	1.5	8	99.39
◆C04-66-NL	1-1/2"	1-1/2"	2.6	4	138.63
◆C04-77-NL	2"	2"	4.1	2	216.19
ELL COUPLINGS					
►L04-33-NL	3/4"	3/4"	0.8	15	52.55
L04-33-Q-NL	3/4"	3/4"	0.8	-	58.85
L04-34-NL	3/4"	1"	0.9	10	53.73
►L04-44-NL	1"	1"	1.3	8	79.70
L04-45-NL	1"	1-1/4"	1.6	6	89.18
L04-66-NL	1-1/2"	1-1/2"	3.6	2	243.64
L04-77-NL	2"	2"	6.1	2	408.63
ELL COUPLINGS WITH SWIVEL					
►◆L04-33S-NL	3/4"	3/4"	1.0	12	71.95
►◆L04-44S-NL	1"	1"	1.4	8	98.14
◆L04-66S-NL	1-1/2"	1-1/2"	3.9	2	254.83
◆L04-77S-NL	2"	2"	6.2	1	430.12
EIGHTH BEND COUPLINGS					
►LA04-33-NL	3/4"	3/4"	0.6	18	47.14
►LA04-44-NL	1"	1"	1.1	10	76.28
LA04-66-NL	1-1/2"	1-1/2"	2.5	4	188.70
LA04-77-NL	2"	2"	4.3	2	289.02
EIGHTH BEND COUPLING WITH SWIVEL					
►◆LA04-33S-NL	3/4"	3/4"	0.9	15	64.42
► LA04-44S-NL	1"	1"	1.2	10	91.56
◆LA04-66S-NL	1-1/2"	1-1/2"	3.8	2	320.88
◆LA04-77S-NL	2"	2"	6.2	1	454.20



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

▶ **Ultra-Tite** is available. Insert "-U2-AWT" into the catalog number (consists of components assembled watertight). Contact factory for pricing and availability. Example: L04-44-U2-AWT-NL

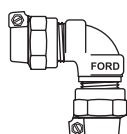
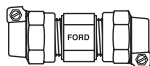
● **Ultra-Tite** is available. Insert "-U" into the catalog number. Example: C04-44-U-NL

Note: Ford Pack, Quick and Grip Joint compression connections, when used on copper, are designed for Type K or Type L copper only.

PACK JOINT COUPLINGS FOR (SIDR7) 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"	1.1	10	\$ 54.52
▶C66-34-NL	3/4"	1"	1.4	8	84.40
◆◆C66-44-NL	1"	1"	2.0	4	108.99
C66-55-NL	1-1/4"	1-1/4"	2.4	4	154.13
C66-66-IDR7-NL	1-1/2"	1-1/2"	4.4	5	237.50
C66-77-IDR7-NL	2"	2"	6.6	6	320.00
ELL COUPLINGS					
▶L66-33-NL	3/4"	3/4"	1.1	8	79.52
▶L66-44-NL	1"	1"	2.0	6	123.45
L66-66-IDR7-NL	1-1/2"	1-1/2"	4.4	3	325.59
L66-77-IDR7-NL	2"	2"	6.6	2	527.27



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

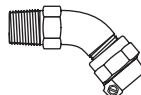
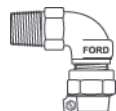
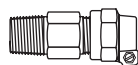
▶ **Ultra-Tite** is available. Insert "-U-AWT" into the catalog number (consists of components assembled watertight). Contact factory for pricing and availability. Example: L66-44-U-AWT-NL

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

PACK JOINT COUPLINGS FOR (SIDR7) PE PIPE (CONTINUED)

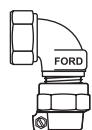
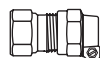
MALE IRON PIPE THREAD TO PACK JOINT FOR POLYETHYLENE PIPE

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	\$ 47.49
● C86-34-NL	3/4"	1"	1.2	10	77.33
C86-34-Q-NL	3/4"	1"	1.2	12	87.42
●◆C86-44-NL	1"	1"	1.3	12	69.03
C86-54-NL	1-1/4"	1"	1.4	8	92.77
C86-55-NL	1-1/4"	1-1/4"	1.5	5	104.60
C86-65-NL	1-1/2"	1-1/4"	1.7	5	117.35
C86-66-IDR7-NL	1-1/2"	1-1/2"	2.8	3	163.70
C86-77-IDR7-NL	2"	2"	4.6	5	260.04
ELL COUPLINGS					
▶ L86-33-NL	3/4"	3/4"	0.9	14	61.30
▶ L86-44-NL	1"	1"	1.4	8	100.07
L86-77-IDR7-NL	2"	2"	5.2	2	260.57
EIGHTH BEND COUPLINGS					
LA86-44-NL	1"	1"	1.5	8	99.93



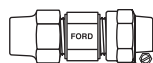
FEMALE IRON PIPE THREAD TO PACK JOINT FOR PE PIPE

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	\$ 46.53
● C16-34-NL	3/4"	1"	1.1	10	64.64
●♦C16-44-NL	1"	1"	1.1	10	59.41
▶*PJA6-44-C16-54-NL	1-1/4"	1"	1.3	10	73.12
*PJA6-45-C16-55-NL	1-1/4"	1-1/4"	1.5	8	85.67
*PJA6-44-C16-56-IDR7-NL	1-1/4"	1-1/2"	2.6	-	126.66
C16-65-NL	1-1/2"	1-1/4"	1.9	8	113.63
C16-66-IDR7-NL	1-1/2"	1-1/2"	2.7	3	146.13
C16-77-IDR7-NL	2"	2"	4.5	2	235.89
ELL COUPLINGS					
▶ L16-33-NL	3/4"	3/4"	1.0	15	61.73
▶ L16-44-NL	1"	1"	1.9	5	92.90



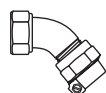
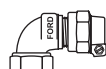
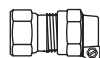
FLARE COPPER TO PACK JOINT FOR PE PIPE

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	\$ 62.83
▶ C26-34-NL	3/4"	1"	1.6	8	93.64
▶ C26-44-NL	1"	1"	1.7	6	102.68



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	\$ 49.56
● C06-34-NL	3/4"	1"	1.1	10	71.02
► C06-43-NL	1"	3/4"	0.9	12	62.00
● C06-44-NL	1"	1"	1.3	8	80.00
C06-44-Q-NL	1"	1"	1.4	10	92.91
C06-45-NL	1"	1-1/4"	1.7	6	98.47
C06-55-NL	1-1/4"	1-1/4"	1.7	6	114.18
C06-66-IDR7-NL	1-1/2"	1-1/2"	3.0	3	177.00
C06-77-IDR7-NL	2"	2"	5.1	2	305.76
ELL COUPLINGS					
► L06-33-NL	3/4"	3/4"	0.8	12	56.05
► L06-44-NL	1"	1"	1.3	6	97.96
EIGHTH BEND COUPLINGS					
► LA06-33-NL	3/4"	3/4"	0.8	15	61.07
► LA06-44-NL	1"	1"	1.5	5	107.24



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

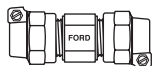
* Pack Joint compression assemblies also used on 1" Kornerhorns and 270 series coppersettors.

▶ **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

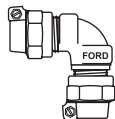
● **Ultra-Tite** is available. Insert "-U" into the catalog number. Example: C06-44-U-NL

PACK JOINT COUPLINGS FOR PVC/IPS PE PIPE

PACK JOINT FOR PVC/IPS PE PIPE BOTH ENDS

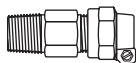


CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
	P.J. FOR PVC/IPS PE PIPE	P.J. FOR PVC/IPS PE PIPE			
STRAIGHT COUPLINGS					
C77-11-NL	1/2"	1/2"	0.9	14	\$ 43.69
C77-33-NL	3/4"	3/4"	1.1	10	63.83
C77-34-NL	3/4"	1"	1.5	8	87.05
C77-44-NL	1"	1"	2.2	5	108.33
C77-55-NL	1-1/4"	1-1/4"	2.8	4	155.46
C77-66-NL	1-1/2"	1-1/2"	3.7	3	211.37
C77-77-NL	2"	2"	5.6	1	319.72

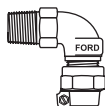


ELL COUPLINGS					
L77-11-NL	1/2"	1/2"	0.9	-	66.00
L77-33-NL	3/4"	3/4"	1.5	6	75.48
L77-44-NL	1"	1"	2.2	4	133.33
L77-66-NL	1-1/2"	1-1/2"	5.2	2	315.67
L77-77-NL	2"	2"	8.1	1	527.27

MALE IRON PIPE THREAD TO PACK JOINT FOR PVC/IPS PE PIPE



CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
	MALE IRON PIPE	P.J. FOR PVC/IPS PE PIPE			
STRAIGHT COUPLINGS					
C87-11-NL	1/2"	1/2"	0.5	-	\$ 38.10
C87-31-NL	3/4"	1/2"	0.6	20	43.47
C87-33-NL	3/4"	3/4"	0.8	18	47.49
‡ C87-33-4-75-NL	3/4"	3/4"	1.1	15	70.80
C87-34-NL	3/4"	1"	1.1	10	70.92
C87-43-NL	1"	3/4"	0.9	14	63.95
C87-44-NL	1"	1"	1.4	12	74.17
C87-45-NL	1"	1-1/4"	1.7	5	88.14
C87-46-NL	1"	1-1/2"	2.1	4	132.61
C87-47-NL	1"	2"	3.0	3	139.38
C87-54-NL	1-1/4"	1"	1.4	6	83.48
C87-55-NL	1-1/4"	1-1/4"	1.7	5	113.40
C87-65-NL	1-1/2"	1-1/4"	2.0	5	139.54
C87-66-NL	1-1/2"	1-1/2"	2.4	4	145.80
C87-77-NL	2"	2"	3.4	3	211.87



ELL COUPLINGS					
L87-31-NL	3/4"	1/2"	0.8	-	54.09
L87-33-NL	3/4"	3/4"	0.9	14	52.43
L87-34-NL	3/4"	1"	1.4	8	76.00
L87-44-NL	1"	1"	1.5	8	85.71
L87-77-NL	2"	2"	5.2	-	294.01

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

FEMALE IRON PIPE THREAD TO PACK JOINT FOR PVC/IPS PE PIPE



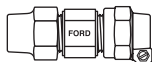
CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
	FEMALE IRON PIPE	P.J. FOR PVC/IPS PE PIPE			
STRAIGHT COUPLINGS					
C17-31-NL	3/4"	1/2"	0.5	-	\$ 43.12
C17-33-NL	3/4"	3/4"	0.7	18	47.17
C17-34-NL	3/4"	1"	1.2	10	74.30
C17-36-NL	3/4"	1-1/2"	2.2	4	131.75
C17-44-NL	1"	1"	1.1	10	72.75
* PJA7-44-C17-54-NL	1-1/4"	1"	1.3	10	62.76
* PJA7-45-C17-55-NL	1-1/4"	1-1/4"	1.7	8	88.81
* PJA7-46-C17-56-NL	1-1/4"	1-1/2"	2.3	4	135.86
C17-66-NL	1-1/2"	1-1/2"	2.5	4	181.07
C17-77-NL	2"	2"	4.2	3	243.42



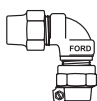
ELL COUPLINGS					
L17-31-NL	3/4"	1/2"	1.0	-	54.10
L17-33-NL	3/4"	3/4"	1.1	12	61.73
L17-44-NL	1"	1"	1.9	8	75.98
L17-66-NL	1-1/2"	1-1/2"	3.6	2	213.05

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

FLARE COPPER TO PACK JOINT FOR PVC/IPS PE PIPE



CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
	FLARE COPPER	P.J. FOR PVC/IPS PE PIPE			
STRAIGHT COUPLINGS					
C27-31-NL	3/4"	1/2"	0.9	-	\$ 66.18
C27-33-NL	3/4"	3/4"	1.1	14	65.89
C27-34-NL	3/4"	1"	1.6	-	111.11
C27-44-NL	1"	1"	0.5	6	116.11



ELL COUPLINGS					
L27-31-NL	3/4"	1/2"	1.1	-	70.39

Note: Ford Pack Joints for PVC are recommended for Schedule 40 and Schedule 80 pipe and IPS PE DR9 and DR11.

PACK JOINT COUPLINGS FOR PVC/IPS PE PIPE (CONTINUED)**FEMALE COPPER THREAD TO PACK JOINT FOR PVC/IPS PE PIPE (REPLACES COPPER FLARE NUT)**

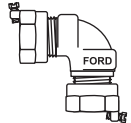
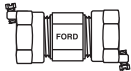
CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
	FEM. COP. THRD.	P.J. FOR PVC/IPS PE PIPE			
STRAIGHT COUPLINGS					
C07-11-NL	1/2"	1/2"	0.6	20	\$ 39.88
C07-13-NL	1/2"	3/4"	0.6	-	46.16
C07-33-NL	3/4"	3/4"	0.8	18	49.56
C07-34-NL	3/4"	1"	1.2	10	73.99
C07-44-NL	1"	1"	1.4	10	80.00
C07-54-NL	1-1/4"	1"	1.6	-	88.82
C07-55-NL	1-1/4"	1-1/4"	1.8	-	114.18
C07-66-NL	1-1/2"	1-1/2"	3.0	4	170.43
C07-77-NL	2"	2"	4.6	3	265.13



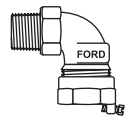
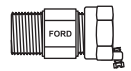
Note: Ford Pack Joints for PVC are recommended for Schedule 40 and Schedule 80 pipe and IPS PE DR9 and DR11.

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"	0.7	20	\$ 43.82
C55-13-NL	1/2"	3/4"	0.8	18	45.96
C55-33-NL	3/4"	3/4"	0.8	15	48.15
C55-34-NL	3/4"	1"	1.1	10	62.11
C55-44-NL	1"	1"	1.8	6	84.94
C55-55-NL	1-1/4"	1-1/4"	2.2	4	114.42
C55-66-NL	1-1/2"	1-1/2"	2.8	4	165.72
C55-77-NL	2"	2"	4.1	2	218.12
ELL COUPLINGS					
L55-11-NL	1/2"	1/2"	0.9	-	53.24
L55-33-NL	3/4"	3/4"	1.2	9	66.77
L55-44-NL	1"	1"	1.8	4	129.19
L55-77-NL	2"	2"	6.6	1	515.00

**MALE IRON PIPE THREAD TO PACK JOINT FOR IRON PIPE**

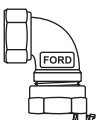
CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
	MALE IRON PIPE	P.J. FOR IRON PIPE			
STRAIGHT COUPLINGS					
C85-11-NL	1/2"	1/2"	0.5	30	\$ 36.10
C85-31-NL	3/4"	1/2"	0.5	25	39.42
C85-33-NL	3/4"	3/4"	0.6	20	43.29
‡ C85-33-4-75-NL	3/4"	3/4"	1.0	15	68.43
C85-34-NL	3/4"	1"	0.9	14	63.68
C85-43-NL	1"	3/4"	0.8	18	50.84
C85-44-NL	1"	1"	1.2	12	66.09
C85-55-NL	1-1/4"	1-1/4"	1.4	8	93.32
C85-66-NL	1-1/2"	1-1/2"	1.9	5	133.52
C85-77-NL	2"	2"	2.6	3	174.04
ELL COUPLINGS					
L85-31-NL	3/4"	1/2"	0.7	-	40.69
L85-33-NL	3/4"	3/4"	0.7	14	45.27
L85-44-NL	1"	1"	1.2	8	79.96



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

FEMALE IRON PIPE THREAD TO PACK JOINT FOR IRON PIPE

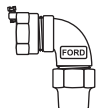
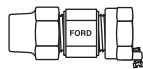
CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
	FEMALE IRON PIPE	P.J. FOR IRON PIPE			
STRAIGHT COUPLINGS					
C15-11-NL	1/2"	1/2"	0.4	25	\$ 35.87
C15-31-NL	3/4"	1/2"	0.4	25	37.96
C15-33-NL	3/4"	3/4"	0.6	25	42.96
C15-34-NL	3/4"	1"	1.0	10	59.46
C15-44-NL	1"	1"	0.9	12	62.13
* PJA5-44-C15-54-NL	1-1/4"	1"	1.1	10	62.76
* PJA5-45-C15-55-NL	1-1/4"	1-1/4"	1.4	8	77.08
* PJA5-46-C15-56-NL	1-1/4"	1-1/2"	1.8	6	109.33
C15-66-NL	1-1/2"	1-1/2"	2.0	6	148.86
C15-77-NL	2"	2"	3.4	3	208.74
ELL COUPLINGS					
L15-31-NL	3/4"	1/2"	0.8	-	52.68
L15-44-NL	1"	1"	1.7	-	65.39



* Pack Joint compression assemblies also used on 1" Kornehorns 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	-	\$ 49.97
C25-31-NL	3/4"	1/2"	0.9	16	58.92
C25-33-NL	3/4"	3/4"	0.9	14	61.73
C25-34-NL	3/4"	1"	1.4	10	110.94
C25-44-NL	1"	1"	1.6	8	99.19
C25-45-NL	1"	1-1/4"	1.9	5	109.91
ELL COUPLINGS					
L25-33-NL	3/4"	3/4"	1.0	12	62.48

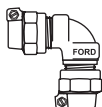
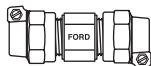
FEMALE COPPER THREAD TO PACK JOINT FOR IRON PIPE (REPLACES COPPER FLARE NUT)



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	\$ 49.59
C05-44-NL	1"	1"	1.2	-	83.05
C05-55-NL	1-1/4"	1-1/4"	1.5	-	135.78
C05-66-NL	1-1/2"	1-1/2"	2.5	-	192.23
C05-77-NL	2"	2"	3.8	-	274.87

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

PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS) TO (SIDR7) PE PIPE

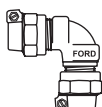
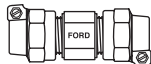


CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
	P.J. FOR CTS	P.J. FOR PE PIPE			
STRAIGHT COUPLINGS					
▶ C46-33-NL	3/4"	3/4"	0.9	12	\$ 52.21
▶ C46-33-Q-NL	3/4"	3/4"	1.3	18	60.13
▶ C46-34-NL	3/4"	1"	1.6	6	82.47
▶ C46-43-NL	1"	3/4"	1.1	10	54.44
C46-43-Q-NL	1"	3/4"	1.5	10	58.75
▶♦ C46-44-NL	1"	1"	1.4	10	78.88
C46-65-NL	1-1/2"	1-1/4"	3.1	-	200.02
ELL COUPLINGS					
▶ L46-33-NL	3/4"	3/4"	1.1	10	63.95
▶ L46-44-NL	1"	1"	1.7	-	96.33

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

♦ Quick Joint is available for CTS. Insert "-Q" into the catalog number. Example: C46-44-Q-NL

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



CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
	P.J. FOR CTS	P.J. FOR PVC/IPS PE PIPE			
STRAIGHT COUPLING					
C47-11-NL	1/2"	1/2"	0.8	14	\$ 47.85
C47-31-NL	3/4"	1/2"	0.8	14	58.65
▶♦C47-33-NL	3/4"	3/4"	1.0	12	59.07
▶ C47-34-NL	3/4"	1"	1.7	8	82.64
▶ C47-43-NL	1"	3/4"	1.1	10	62.36
▶ C47-44-NL	1"	1"	1.4	10	85.34
C47-45-NL	1"	1-1/4"	2.0	8	90.88
C47-66-NL	1-1/2"	1-1/2"	3.4	4	230.04
C47-77-NL	2"	2"	4.9	4	268.56
ELL COUPLINGS					
▶ L47-33-NL	3/4"	3/4"	1.2	10	70.15
▶ L47-34-NL	3/4"	1"	1.7	8	98.47
▶ L47-44-NL	1"	1"	1.7	5	105.94

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

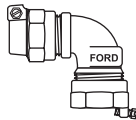
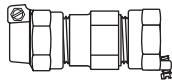
♦ Quick Joint is available for CTS. Insert "-Q" into the catalog number. Example: C47-33-Q-NL

▶ 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 and IPS PE DR9 and DR11.

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	\$ 45.82
C45-13-NL	1/2"	3/4"	0.9	15	46.92
C45-31-NL	3/4"	1/2"	0.8	16	46.92
▶ ♦C45-33-NL	3/4"	3/4"	0.8	15	48.36
▶ ♦C45-34-NL	3/4"	1"	1.5	10	66.73
▶ C45-43-NL	1"	3/4"	0.9	12	54.39
▶ C45-44-NL	1"	1"	1.2	8	64.89
C45-45-NL	1"	1-1/4"	1.7	6	81.15
C45-66-NL	1-1/2"	1-1/2"	3.0	4	216.31
C45-77-NL	2"	2"	4.1	2	235.06
ELL COUPLINGS					
L45-31-NL	3/4"	1/2"	0.9	-	67.60
L45-33-NL	3/4"	3/4"	1.0	12	63.09
▶ L45-34-NL	3/4"	1"	1.5	-	91.41
▶ L45-43-NL	1"	3/4"	1.3	-	104.22
▶ L45-44-NL	1"	1"	1.5	6	95.29

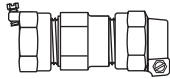
Grip Joint for CTS (3/4"-2") can be ordered by inserting "-G" into the catalog number.

Example: C45-33-G-NL

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

Note: Ford Pack, Quick and Grip Joint compression connections, when used on copper, are designed for Type K or Type L copper only.

PACK JOINT FOR IRON PIPE TO (SIDR7) PE PIPE

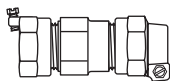


CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
	P.J. FOR IRON PIPE	P.J. FOR PE PIPE			
STRAIGHT COUPLINGS					
▶ C56-33-NL	3/4"	3/4"	1.0	12	\$ 59.41
▶ C56-34-NL	3/4"	1"	1.3	8	83.20
▶ C56-44-NL	1"	1"	1.9	6	100.70

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

Example: C56-33-G-NL

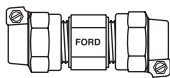
PACK JOINT FOR IRON PIPE TO PVC/IPS PE PIPE



CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
	P.J. FOR IRON PIPE	P.J. FOR PVC/IPS PE PIPE			
STRAIGHT COUPLINGS					
C57-11-NL	1/2"	1/2"	1.0	-	\$ 45.57
C57-33-NL	3/4"	3/4"	0.9	12	57.79
C57-34-NL	3/4"	1"	1.3	10	83.10
C57-44-NL	1"	1"	2.0	5	100.70
C57-55-NL	1-1/4"	1-1/4"	2.5	2	125.16
C57-66-NL	1-1/2"	1-1/2'	2.8	3	182.14
C57-77-NL	2"	2"	4.9	1	268.94

Note: Ford Pack Joints for PVC are recommended for Schedule 40 and Schedule 80 pipe and IPS PE DR9 and DR11.

PACK JOINT FOR (SIDR7) PE PIPE TO PVC/IPS PE PIPE



CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
	P.J. FOR PE PIPE	P.J. FOR PVC/IPS PE PIPE			
STRAIGHT COUPLINGS					
▶ C67-33-NL	3/4"	3/4"	1.1	12	\$ 66.73
▶ C67-44-NL	1"	1"	2.1	8	110.27

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

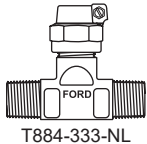
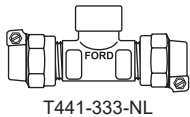
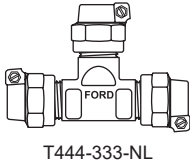
Note: Ford Pack Joints for PVC are recommended for Schedule 40 and Schedule 80 pipe and IPS PE DR9 and DR11.

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)	1.4	6	\$ 105.72
▶♦T444-334-NL	3/4" Cop. or Plastic Tube (CTS)	x 1" Cop. or Plastic Tube (CTS)	1.5	4	112.63
▶♦T444-443-NL	1" Cop. or Plastic Tube (CTS)	x 3/4" Cop. or Plastic Tube (CTS)	1.7	4	116.14
▶♦T444-444-NL	1" Cop. or Plastic Tube (CTS)	x 1" Cop. or Plastic Tube (CTS)	1.9	4	113.14
T444-445-NL	1" Cop. or Plastic Tube (CTS)	x 1-1/4" Cop. or Plastic Tube (CTS)	2.2	3	177.79
T444-446-NL	1" Cop. or Plastic Tube (CTS)	x 1-1/2" Cop. or Plastic Tube (CTS)	2.8	3	236.56
T444-447-NL	1" Cop. or Plastic Tube (CTS)	x 2" Cop. or Plastic Tube (CTS)	2.7	3	297.35
T444-666-NL	1-1/2" Cop. or Plastic Tube (CTS)	x 1-1/2" Cop. or Plastic Tube (CTS)	4.8	4	252.30
♦T444-774-NL	2" Cop. or Plastic Tube (CTS)	x 1" Cop. or Plastic Tube (CTS)	5.8	4	303.07
T444-777-NL	2" Cop. or Plastic Tube (CTS)	x 2" Cop. or Plastic Tube (CTS)	8.3	1	615.66
T444-777-Q-NL	2" Cop. or Plastic Tube (CTS)	x 2" Cop. or Plastic Tube (CTS)	7.0	1	615.66
T446-444-NL	1" Cop. or Plastic Tube (CTS)	x 1" PE Pipe P.J.	2.2	-	176.73
T446-445-NL	1" Cop. or Plastic Tube (CTS)	x 1-1/4" PE Pipe P.J.	2.6	-	216.31
▶ T666-333-NL	3/4" PE Pipe P.J.	x 3/4" PE Pipe P.J.	2.0	4	150.66
▶ T666-334-NL	3/4" PE Pipe P.J.	x 1" PE Pipe P.J.	2.3	4	175.21
▶ T666-443-NL	1" PE Pipe P.J.	x 3/4" PE Pipe P.J.	2.8	4	207.13
▶ T666-444-NL	1" PE Pipe P.J.	x 1" PE Pipe P.J.	3.4	6	261.00
T777-333-NL	3/4" PVC/IPS PE P.J.	x 3/4" PVC/IPS PE P.J.	2.0	4	173.24
T777-444-NL	1" PVC/IPS PE P.J.	x 1" PVC/IPS PE P.J.	3.7	5	287.07
T777-777-NL	2" PVC/IPS PE P.J.	x 2" PVC/IPS PE P.J.	11.5	-	727.64
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	1.1	8	87.22
T441-333-Q-NL	3/4" Cop. or Plastic Tube (CTS) Q.J.	x 3/4" Female Iron Pipe	1.3	8	100.35
▶♦T441-334-NL	3/4" Cop. or Plastic Tube (CTS)	x 1" Female Iron Pipe	1.3	6	89.22
▶ T441-444-NL	1" Cop. or Plastic Tube (CTS)	x 1" Female Iron Pipe	1.6	4	108.16
T441-444-Q-NL	1" Cop. or Plastic Tube (CTS)	x 1" Female Iron Pipe	2.2	4	124.37
T441-663-NL	1-1/2" Cop. or Plastic Tube (CTS)	x 3/4" Female Iron Pipe	3.4	4	203.12
T441-664-NL	1-1/2" Cop. or Plastic Tube (CTS)	x 1" Female Iron Pipe	3.4	4	203.12
T441-773-NL	2" Cop. or Plastic Tube (CTS)	x 3/4" Female Iron Pipe	5.0	4	283.23
T441-774-NL	2" Cop. or Plastic Tube (CTS)	x 1" Female Iron Pipe	4.9	4	283.23
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	-	194.68
T440-664-NL	1-1/2" Cop. or Plastic Tube (CTS)	x 1" Female AWWA Taper	3.3	-	194.68
T440-773-NL	2" Cop. or Plastic Tube (CTS)	x 3/4" Female AWWA Taper	5.0	4	274.82
T440-774-NL	2" Cop. or Plastic Tube (CTS)	x 1" Female AWWA Taper	4.8	4	272.05
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	-	87.22
▶ T448-334-NL	3/4" Cop. or Plastic Tube (CTS)	x 1" Male Iron Pipe	1.2	6	112.97
T448-334-Q-NL	3/4" Cop. or Plast. Tube (CTS) Q.J.	x 1" Male Iron Pipe	1.3	-	129.96
T448-446-NL	1" Cop. or Plastic Tube (CTS)	x 1-1/2" Male Iron Pipe	1.7	6	172.44
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)	0.8	-	70.46
▶ T884-334-NL	3/4" Male Iron Pipe	x 1" Cop. or Plastic Tube (CTS)	1.0	10	79.84
T884-334-Q-NL	3/4" Male Iron Pipe	x 1" Cop. or Plastic Tube (CTS)	1.2	10	91.83
▶ T884-444-NL	1" Male Iron Pipe	x 1" Cop. or Plastic Tube (CTS)	1.2	4	103.41
T884-444-Q-NL	1" Male Iron Pipe	x 1" Cop. or Plastic Tube (CTS)	1.8	-	118.91
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	-	191.58
T184-774-NL	2" FIP to 2" MIP	x 1" Cop. or Plastic Tube (CTS)	2.5	-	213.45



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

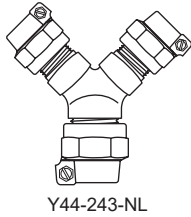
♦ **Quick Joint** is available. Insert "-Q" into the catalog number. Example: T444-333-Q-NL

▶ **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

Note: Ford Pack, Quick and Grip Joint compression connections, when used on copper, are designed for Type K or Type L copper only.

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)	1.4	9	\$ 97.33
◆Y44-243-NL	1" Cop. or Plastic Tube (CTS)	Two 3/4" Cop. or Plastic Tube (CTS)	1.5	4	90.41
◆Y44-244-NL	1" Cop. or Plastic Tube (CTS)	Two 1" Cop. or Plastic Tube (CTS)	2.2	4	150.00
Y44-254-NL	1-1/4" Cop. or Plastic Tube (CTS)	Two 1" Cop. or Plastic Tube (CTS)	2.9	6	205.30
◆Y44-263-NL	1-1/2" Cop. or Plastic Tube (CTS)	Two 3/4" Cop. or Plastic Tube (CTS)	3.2	2	212.35
Y44-264-NL	1-1/2" Cop. or Plastic Tube (CTS)	Two 1" Cop. or Plastic Tube (CTS)	3.3	2	218.70
Y44-264-Q-NL	1-1/2" Cop. or Plastic Tube (CTS)	Two 1" Cop. or Plastic Tube (CTS)	3.5	2	251.52
◆Y44-274-NL	2" Cop. or Plastic Tube (CTS)	Two 1" Cop. or Plastic Tube (CTS)	3.9	2	252.78
◆Y48-234-NL	1" Male Iron Pipe Thread	Two 3/4" Cop. or Plastic Tube (CTS)	1.2	6	84.84
Y48-246-NL	1-1/2" Male Iron Pipe Thread	Two 1" Cop. or Plastic Tube (CTS)	2.2	3	137.67
Y48-247-NL	2" Male Iron Pipe Thread	Two 1" Cop. or Plastic Tube (CTS)	2.3	-	197.16
Y48-347-NL	2" Male Iron Pipe Thread	Three 1" Cop. or Plastic Tube (CTS)	4.4	4	254.10
►Y66-243-NL	1" PE Pipe P.J.	Two 3/4" PE Pipe P.J.	2.9	2	186.66
Y68-337-NL	2" Male Iron Pipe Thread	Three 3/4" PE Pipe P.J.	4.5	-	440.08

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

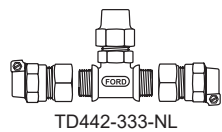
◆ **Quick Joint** is available. Insert "-Q" into the catalog number. Example: Y44-233-Q-NL

► **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

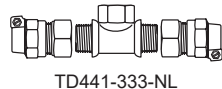
Note: Ford Pack, Quick and Grip Joint compression connections, when used on copper, are designed for Type K or Type L copper only.

CUT-IN TEES WITH DETACHABLE PACK JOINT ASSEMBLIES

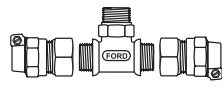


TD442-333-NL

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	-	\$ 116.99
TD552-113-NL	1/2" Iron Pipe P.J.	3/4" Flare Copper	2.0	-	105.78
◆TD442-333-NL	3/4" Cop. or Plastic Tube (CTS) P.J.	3/4" Flare Copper	2.1	-	103.20
TD552-333-NL	3/4" Iron Pipe P.J.	3/4" Flare Copper	2.1	-	109.78
TD442-443-NL	1" Cop. or Plastic Tube (CTS) P.J.	3/4" Flare Copper	2.5	-	114.70
TD552-443-NL	1" Iron Pipe P.J.	3/4" Flare Copper	3.1	-	162.55
*TD002-NL	Less P.J. Assemblies	3/4" Flare Copper	10.0	-	63.80
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	-	104.22
TD551-113-NL	1/2" Iron Pipe P.J.	3/4" Female Iron Pipe threads	1.6	-	82.16
▶◆TD441-333-NL	3/4" Cop. or Plastic Tube (CTS) P.J.	3/4" Female Iron Pipe threads	1.7	6	95.64
TD551-333-NL	3/4" Iron Pipe P.J.	3/4" Female Iron Pipe threads	1.6	-	91.07
▶ TD441-443-NL	1" Cop. or Plastic Tube (CTS) P.J.	3/4" Female Iron Pipe threads	2.1	4	107.24
TD551-443-NL	1" Iron Pipe P.J.	3/4" Female Iron Pipe threads	2.6	-	141.86
*TD001-NL	Less P.J. Assemblies	3/4" Female Iron Pipe threads	0.6	16	40.36
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	-	96.36
TD558-113-NL	1/2" Iron Pipe P.J.	3/4" Male Iron Pipe threads	1.7	-	90.15
▶◆TD448-333-NL	3/4" Cop. or Plastic Tube (CTS) P.J.	3/4" Male Iron Pipe threads	1.8	6	89.42
TD558-333-NL	3/4" Iron Pipe P.J.	3/4" Male Iron Pipe threads	1.7	-	94.77
▶ TD448-443-NL	1" Cop. or Plastic Tube (CTS) P.J.	3/4" Male Iron Pipe threads	2.3	6	100.07
TD558-443-NL	1" Iron Pipe P.J.	3/4" Male Iron Pipe threads	2.7	-	145.90
*TD008-NL	Less P.J. Assemblies	3/4" Male Iron Pipe threads	0.7	12	44.99



TD441-333-NL



TD448-333-NL

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/IPS PE and iron pipe, refer to section B under Pack Joint Assemblies for Kornerhorns.**

Note: Ford Pack, Quick and Grip Joint compression connections, when used on copper, are designed for Type K or Type L copper only.

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 or 5/8" Strong Lead (S)	3/4" Female Iron Pipe Thread	0.7	18	\$ 60.78	
Q21-23-NL (C16-33-NL)	5/8" Extra Strong Lead (XS) x	3/4" Female Iron Pipe Thread	0.7	18	46.53	
* Q11-33-Q31-23-NL	5/8" Dbl. Extra Strong Lead (XXS) x or 3/4" Strong Lead (S)	3/4" Female Iron Pipe Thread	0.6	20	61.67	
Q21-33-NL	3/4" Extra Strong Lead (XS) x	3/4" Female Iron Pipe Thread	1.0	14	88.56	
Q31-33-NL	3/4" Dbl. Extra Strong Lead (XXS) x	3/4" Female Iron Pipe Thread	1.1	10	64.64	
Q21-44-NL	1" Extra Strong Lead (XS) x	1" Female Iron Pipe Thread	1.4	10	101.75	
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	-	40.11	
○* Q1S-23-Q3S-13-NL	1/2" Dbl. Extra Strong Lead (XXS) x or 5/8" Strong Lead (S)	3/4" Solder Fit. Cop. Tubing	0.9	-	57.90	
○ Q2S-23-NL	5/8" Extra Strong Lead (XS) x	3/4" Solder Fit. Cop. Tubing	0.7	-	54.52	
○* Q1S-33-Q3S-23-NL	5/8" Dbl. Extra Strong Lead (XXS) x or 3/4" Strong Lead (S)	3/4" Solder Fit. Cop. Tubing	0.7	-	57.36	
○ Q2S-33-NL	3/4" Extra Strong Lead (XS) x	3/4" Solder Fit. Cop. Tubing	1.0	-	63.53	
○** Q1S-44-AWT-NL	1" Strong Lead (S) x	1" Solder Fit. Cop. Tubing	1.5	-	186.99	
○** Q2S-44-AWT-NL	1" Extra Strong Lead (XS) x	1" Solder Fit. Cop. Tubing	2.0	-	133.80	
○** Q3S-44-AWT-NL	1" Dbl. Extra Strong Lead (XXS) x	1" Solder Fit. Cop. Tubing	2.0	-	146.16	
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	43.69	
* Q1Q1-22-Q3Q3-11-NL	1/2" Dbl. Extra Strong Lead (XXS) x or 5/8" Strong Lead (S)	1/2" Dbl. Extra Strong Lead (XXS) or 5/8" Strong Lead (S)	1.0	12	75.87	
Q2Q2-22-NL (C66-33-NL)	5/8" Extra Strong Lead (XS) x	5/8" Extra Strong Lead (XS)	1.2	10	54.52	
* Q1Q1-33-Q3Q3-22-NL	5/8" Dbl. Extra Strong Lead (XXS) x or 3/4" Strong Lead (S)	5/8" Dbl. Extra Strong Lead (XXS) or 3/4" Strong Lead (S)	1.0	12	73.35	
Q2Q2-33-NL	3/4" Extra Strong Lead (XS) x	3/4" Extra Strong Lead (XS)	1.7	6	89.75	
Q3Q3-33-NL	3/4" Dbl. Extra Strong Lead (XXS) x	3/4" Dbl. Extra Strong Lead (XXS)	2.1	4	108.99	
Q1Q1-44-NL	1" Strong Lead (S) x	1" Strong Lead (S)	3.0	6	153.39	
Q2Q2-44-NL	1" Extra Strong Lead (XS) x	1" Extra Strong Lead (XS)	2.7	6	168.81	
Q3Q3-44-NL	1" Dbl. Extra Strong Lead (XXS) x	1" Dbl. Extra Strong Lead (XXS)	2.5	8	178.24	
Q2Q2-55-NL (C66-55-NL)	1-1/4" Extra Strong Lead (XS) x	1-1/4" Extra Strong Lead (XS)	3.0	4	154.13	
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	237.50	
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)	0.8	14	43.69	
Q14-22-Q34-12-NL	1/2" Dbl. Extra Strong Lead (XXS) x or 5/8" Dbl. Extra Strong Lead (XXS)	5/8" Cop. or Plastic Tub. (CTS)	1.0	-	79.56	
* Q14-23-Q34-13-NL	1/2" Dbl. Extra Strong Lead (XXS) x or 5/8" Strong Lead (S)	3/4" Cop. or Plastic Tub. (CTS)	1.0	12	73.61	
◆ Q24-23-NL (C46-33-NL)	5/8" Extra Strong Lead (XS) x	3/4" Cop. or Plastic Tub. (CTS)	0.9	12	52.21	
◆ Q24-24-NL (C46-43-NL)	5/8" Extra Strong Lead (XS) x	1" Cop. or Plastic Tub. (CTS)	1.2	10	54.44	
Q34-24-NL	5/8" Dbl. Extra Strong Lead (XXS) x	1" Cop. or Plastic Tub. (CTS)	1.2	12	74.96	
* Q14-33-Q34-23-NL	5/8" Dbl. Extra Strong Lead (XXS) x or 3/4" Strong Lead (S)	3/4" Cop. or Plastic Tub. (CTS)	1.0	12	80.57	
◆ Q24-33-NL	3/4" Extra Strong Lead (XS) x	3/4" Cop. or Plastic Tub. (CTS)	1.2	12	91.41	
Q34-33-NL	3/4" Dbl. Extra Strong Lead (XXS) x	3/4" Cop. or Plastic Tub. (CTS)	1.6	6	82.47	
Q24-43-NL	1" Extra Strong Lead (XS) x	3/4" Cop. or Plastic Tub. (CTS)	1.6	8	141.71	
Q34-43-NL	1" Dbl. Extra Strong Lead (XXS) x	3/4" Cop. or Plastic Tub. (CTS)	1.5	8	137.81	
Q14-44-NL	1" Strong Lead (S) x	1" Cop. or Plastic Tub. (CTS)	1.8	6	149.20	
Q24-34-NL	3/4" Extra Strong Lead (XS) x	1" Cop. or Plastic Tub. (CTS)	1.2	10	115.69	
Q24-44-NL	1" Extra Strong Lead (XS) x	1" Cop. or Plastic Tub. (CTS)	1.7	6	145.90	
Q34-44-NL	1" Dbl. Extra Strong Lead (XXS) x	1" Cop. or Plastic Tub. (CTS)	1.5	6	133.80	
Q24-56-C46-65-NL	1-1/4" Extra Strong Lead (XS) x	1-1/2" Cop. or Plastic Tub. (CTS)	2.7	4	200.02	
Q24-66-C46-66-IDR7-NL	1-1/2" Extra Strong Lead (XS) x	1-1/2" Cop. or Plastic Tub. (CTS)	3.6	6	235.39	
Q24-77-NL	2" Extra Strong Lead (XS) x	2" Cop. or Plastic Tub. (CTS)	6.1	3	380.22	
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	52.21	
Q26-23-NL (C66-33-NL)	5/8" Extra Strong Lead (XS) x	3/4" PE Pipe P.J.	1.2	10	54.52	
Q36-23-NL	5/8" Dbl. Extra Strong Lead (XXS) x	3/4" PE Pipe P.J.	1.1	12	69.45	
Q36-33-NL	3/4" Dbl. Extra Strong Lead (XXS) x	3/4" PE Pipe P.J.	1.5	6	98.45	
Q36-34-NL	3/4" Dbl. Extra Strong Lead (XXS) x	1" PE Pipe P.J.	2.1	-	127.09	
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	237.50	

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

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

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

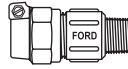
** These items are not one piece but are two adapter pieces assembled watertight.

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.

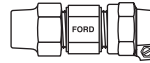
○ Attention: Special solder and procedures are required for best results. Contact factory for details.

Note: Ford Pack, Quick and Grip Joint compression connections, when used on copper, are designed for Type K for Type L copper only.

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	-	\$ 35.87
* 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	61.06
Q28-23-NL (C86-33-NL)	5/8" Extra Strong Lead (XS)	x	3/4" Male Iron Pipe Threads	0.8	-	47.49
* 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	0.7	18	64.39
Q28-33-NL	3/4" Extra Strong Lead (XS)	x	3/4" Male Iron Pipe Threads	1.0	14	66.18
Q38-33-NL	3/4" Dbl. Extra Strong Lead (XXS)	x	3/4" Male Iron Pipe Threads	1.2	14	77.33
Q18-44-NL	1" Strong Lead (S)	x	1" Male Iron Pipe Threads	1.5	8	116.23
Q28-44-NL	1" Extra Strong Lead (XS)	x	1" Male Iron Pipe Threads	1.4	8	96.00
Q38-44-NL	1" Dbl. Extra Strong Lead (XXS)	x	1" Male Iron Pipe Threads	1.3	8	108.33
Q28-55-NL (C86-55-NL)	1-1/4" Extra Strong Lead (XS)	x	1-1/4" Male Iron Pipe Threads	1.7	-	104.60
Q28-66-NL (C86-66-IDR7-NL)	1-1/2" Extra Strong Lead (XS)	x	1-1/2" Male Iron Pipe Threads	2.8	-	163.70
Q28-77-NL	2" Extra Strong Lead (XS)	x	2" Male Iron Pipe Threads	4.7	5	325.65
LEAD PIPE TO FLARE COPPER						
Q22-13-NL (C24-33-NL)	1/2" Extra Strong Lead (XS)	x	3/4" Flare Copper	0.9	-	60.13
* Q12-23-Q32-13-NL	1/2" Dbl. Extra Strong Lead (XXS) or 5/8" Strong Lead (S)	x	3/4" Flare Copper	1.0	12	68.76
Q22-23-NL (C26-33-NL)	5/8" Extra Strong Lead (XS)		3/4" Flare Copper	1.1	-	62.83
Q22-24-NL	5/8" Extra Strong Lead (XS)	x	1" Flare Copper	1.5	8	73.72
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	67.21
Q22-33-NL	3/4" Extra Strong Lead (XS)	x	3/4" Flare Copper	1.3	12	79.37
Q32-33-NL	3/4" Dbl. Extra Strong Lead (XXS)	x	3/4" Flare Copper	1.5	12	93.64
* Q12-34-Q32-24-NL	5/8" Dbl. Extra Strong Lead (XXS) or 3/4" Strong Lead (S)	x	1" Flare Copper	1.4	6	117.73
Q22-34-NL	3/4" Extra Strong Lead (XS)	x	1" Flare Copper	1.6	10	113.42
Q12-44-NL	1" Strong Lead (S)	x	1" Flare Copper	2.0	5	139.92
Q22-44-NL	1" Extra Strong Lead (XS)	x	1" Flare Copper	1.9	5	99.81
Q32-44-NL	1" Dbl. Extra Strong Lead (XXS)	x	1" Flare Copper	1.8	5	126.18

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.

Note: Ford Pack, Quick and Grip Joint compression connections, when used on copper, are designed for Type K tor Type L copper only.

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

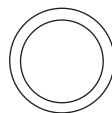
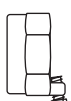
NO-CONTACT COUPLINGS (patent 10,371,296)

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
*Q11-33-Q31-23-NC-NL	5/8" dbl. extra strong lead (XXS) or 3/4" strong lead (S)	x	3/4" female iron pipe thread	1.1	10	110.71
*Q14-33-Q34-23-NC-NL	5/8" dbl. extra strong lead (XXS) or 3/4" strong lead (S)	x	3/4" cop. or plastic tubing (CTS)	1.4	10	129.62
*Q18-33-Q38-23-NC-NL	5/8" dbl. extra strong lead (XXS) or 3/4" strong lead (S)	x	3/4" male iron pipe threads	1.2	-	113.43
Q22-33-NC-NL	3/4" extra strong lead (XS)	x	3/4" flare copper	1.4	10	128.41
Q22-34-NC-NL	3/4" extra strong lead (XS)	x	1" flare copper	1.6	6	162.48
Q24-33-NC-NL	3/4" extra strong lead (XS)	x	3/4" cop. or plastic tubing (CTS)	1.2	10	140.45
Q24-34-NC-NL	3/4" extra strong lead (XS)	x	1" cop. or plastic tubing (CTS)	1.4	8	164.73
Q28-33-NC-NL	3/4" extra strong lead (XS)	x	3/4" male iron pipe threads	1.1	11	115.21
Q21-44-NC-NL	1" extra strong lead (XS)	x	1" female iron pipe thread	1.7	-	150.80
Q22-44-NC-NL	1" extra strong lead (XS)	x	1" flare copper	2.3	4	148.82
Q24-44-NC-NL	1" extra strong lead (XS)	x	1" cop. or plastic tubing (CTS)	2.0	4	194.94
Q28-44-NC-NL	1" extra strong lead (XS)	x	1" male iron pipe threads	1.7	7	145.04

*These items fit two types/sizes of lead pipe as shown in the description.

Note: Ford Pack, Quick and Grip Joint compression connections, when used on copper, are designed for Type K tor Type L copper only.

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 NUMBER	LIST PRICE	CATALOG NUMBER	LIST PRICE	CATALOG NUMBER	LIST PRICE	CATALOG NUMBER	LIST PRICE
COPPER OR PLASTIC TUBING (CTS)								
1/2"	NG-AA4	\$ 9.57	GT-1	\$ 1.54	FR-A	\$ 0.32	CS-A	\$ 0.71
5/8"	NG-B4	11.96	GT-24	1.94	FR-A-5	0.32	CS-A	0.71
3/4"	NG-D4 (bx. qty.50)	10.55	GT-1-5	0.92	FR-A-5	0.32	CS-A	0.71
1"	NG-F4	11.99	GT-5	1.23	FR-D	0.32	CS-A	0.71
1" (Corp/BallCorp)	NG-FF4	16.17	GT-7	1.23	FR-E	0.32	CS-A	0.71
1-1/4"	NG-F6-NG-H4	22.54	GT-10	2.89	FR-F	0.42	CS-A	0.71
1-1/4" (BallCorp)	NG-FF6-NG-HH4	28.92	GT-10-5	3.95	FR-G	0.49	CS-A	0.71
** 1-1/2"	NG-J4	34.11	GT-14	5.25	FR-H	0.62	CS-B	1.43
1-1/2" (BallCorp)	NG-JJJ4	50.87	GT-28	6.07	FR-T	0.64	CS-B	1.43
** 2"	NG-K4	47.98	GT-17	3.94	FR-K	0.65	CS-B	1.43
2" (BallCorp)	NG-KKK4	64.50	GT-25	9.29	FR-R	0.93	CS-B	1.43
2-1/2"	NG-L4	82.03	GT-61	4.75	FR-S	0.87	CS-B	1.43
IRON PIPE								
1/2"	NG-A5	9.06	GT-1-5	0.92	FR-A-5	0.32	SS-A	1.37
3/4"	NG-D5	11.30	GT-3	2.25	FR-D	0.32	SS-A	1.37
1"	NG-F5	19.58	GT-9	2.40	FR-F	0.42	CS-B	1.43
1-1/4"	NG-H5	23.22	GT-15	3.43	FR-H	0.62	CS-B	1.43
1-1/2"	NG-J5	36.72	GT-16	3.82	FR-J	0.59	CS-B	1.43
2"	NG-K5	46.46	GT-18	4.40	FR-M	0.71	CS-B	1.43
PE PIPE								
3/4"	NG-D6	13.68	GT-3	2.25	FR-D	0.32	CS-A	0.71
3/4" (Corp/BallCorp)	NG-DD6	17.57	GT-4	4.22	FR-E	0.32	CS-A	0.71
1"	NG-F6-NG-H4	22.54	GT-10	2.89	FR-F	0.42	CS-A	0.71
1" (Corp/BallCorp)	NG-FF6-NG-HH4	28.92	GT-10-5	3.95	FR-G	0.49	CS-A	0.71
1-1/4"	NG-H6	31.05	GT-15-5	2.68	FR-H	0.62	CS-A	0.71
1-1/4" (BallCorp)	NG-HH6	45.62	GT-49	9.85	FR-J	0.59	CS-A	0.71
1-1/2"	NG-JJ6-IDR7	47.30	GT-17	3.94	FR-K	0.65	CS-B	1.43
1-1/2" (BallCorp)	NG-JJJ6-IDR7	64.71	GT-25	9.29	FR-R	0.93	CS-B	1.43
2"	NG-KK6-IDR7	61.61	GT-27	5.51	FR-S	0.87	CS-B	1.43
PVC/IPS PE PIPE								
1/2"	NG-A7	10.65	GT-1-5	0.92	FR-A-5	0.32	CS-A	0.71
3/4"	NG-D7	13.68	GT-3	2.25	FR-D	0.32	CS-A	0.71
3/4" (Corp/BallCorp)	NG-DD7	17.57	GT-4	4.22	FR-E	0.32	CS-A	0.71
1"	NG-F7	21.19	GT-9	2.40	FR-F	0.42	CS-A	0.71
1" (Corp/BallCorp)	NG-FF7	28.90	GT-10-5	3.95	FR-G	0.49	CS-A	0.71
1-1/4"	NG-H7	30.89	GT-15	3.43	FR-H	0.62	CS-B	1.43
1-1/4" (BallCorp)	NG-HH7	56.83	GT-48	9.57	FR-J	0.59	CS-B	1.43
* 1-1/2" (BallCorp)	NG-JJ7	48.45	GT-16	3.82	FR-J	0.59	CS-B	1.43
2"	NG-K7	56.44	GT-18	4.40	FR-M	0.71	CS-B	1.43
2" (BallCorp)	NG-KK7	60.78	GT-31	8.27	FR-R	0.93	CS-B	1.43
LEAD PIPE								
1/2" XS	NG-AAX	10.55	GT-1-5	0.92	FR-A-5	0.32	CS-A	0.71
1/2" XXS	NG-AAAX	17.81	GT-3	2.25	FR-D	0.32	CS-A	0.71
5/8" S	NG-BX	17.81	GT-3	2.25	FR-D	0.32	CS-A	0.71
5/8" XS	NG-BBX	17.32	GT-3	2.25	FR-D	0.32	CS-A	0.71
5/8" XXS	NG-BBBX	17.16	GT-5	1.23	FR-D	0.32	CS-A	0.71
3/4" S	NG-DX	17.16	GT-5	1.23	FR-D	0.32	CS-A	0.71
3/4" XS	NG-DDX	23.51	GT-39	2.40	FR-X	0.42	CS-A	0.71
3/4" XXS	NG-DDDX	22.16	GT-10	2.89	FR-F	0.42	CS-A	0.71
1" S	NG-FX	29.26	GT-12	2.79	FR-G	0.49	CS-A	0.71
1"XS	NG-FFX	28.92	GT-12	2.79	FR-G	0.49	CS-A	0.71
1" XXS	NG-FFFX	28.92	GT-13	2.66	FR-G	0.49	CS-A	0.71
1-1/4" S	NG-H7	30.89	GT-15	3.43	FR-H	0.62	CS-B	1.43
1-1/4" XS	NG-HX	31.51	GT-15-5	2.68	FR-H	0.62	CS-A	0.71
1-1/2" XS	NG-JX	57.34	GT-17	3.94	FR-K	0.65	CS-B	1.43
2" XS	NG-KX	99.05	GT-26	9.88	-	-	CS-B	1.43

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

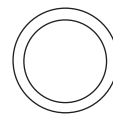
* All 1-1/2" PVC/IPS PE couplings, tees, ells, curb stops and flange valves will use a Ballcorp style Pack Joint nut, NG-JJ7.

** 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

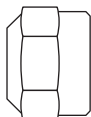
CATALOG NUMBER	PACK JOINT NUT NUMBER	GRIP JOINT NUT NUMBER
FV43-666W-NL	NG-JJJ4	GJCN4-6
FV43-777W-NL	NG-KKK4	GJCN4-7
L44-77-NL	NG-K4	
T444-777-NL		
All 1-1/2" PVC/IPS PE	NG-JJ7	-

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	CATALOG NUMBER	PRICE	CATALOG NUMBER	PRICE	CATALOG NUMBER	PRICE
COPPER OR PLASTIC TUBING (CTS)								
3/4"	GJN4-3 (bx. qty. 72)	\$ 13.64	GT-1-5	\$ 0.92	FG-AAT	\$ 0.49	GJNGR4-3	\$ 3.14
1"	GJN4-4	18.68	GT-5	1.23	FG-FFT	0.62	GJNGR4-4	3.28
1" (Corp/BallCorp)	GJCN4-4	22.27	GT-7	1.23	FG-GG	1.20	GJNGR4-4	3.28
1-1/4"	GJN6-4-GJN4-5	28.90	GT-10	2.89	FG-HH	1.54	GJNGR6-4	4.33
1-1/4" (BallCorp)	GJCN4-5	31.23	GT-10-5	3.95	FG-JJ	1.54	GJNGR6-4	4.33
1-1/2"	GJN4-6	39.91	GT-14	5.25	FG-RR	2.21	GJNGR4-6	6.79
1-1/2" (BallCorp)	GJCN4-6	54.33	GT-28	6.07	FG-SS	2.21	GJNGR4-6	6.79
2"	GJN4-7	55.18	GT-17	3.94	FG-TT	2.26	GJNGR4-7	8.34
2" (BallCorp)	GJCN4-7	65.78	GT-25	9.29	FG-VV	4.98	GJNGR4-7	8.34
PE PIPE								
3/4"	GJN6-3	19.02	GT-3	2.25	FG-FF	0.62	GJNGR6-3	3.28
3/4" (Corp/BallCorp)	GJCN6-3	19.57	GT-4	4.22	FG-GG	1.20	GJNGR6-3	3.28
1"	GJN6-4-GJN4-5	28.90	GT-10	2.89	FG-HH	1.54	GJNGR6-4	4.33
1" (Corp/BallCorp)	GJCN6-4	31.23	GT-10-5	3.95	FG-JJ	1.54	GJNGR6-4	4.33

QUICK JOINT NUTS AND GASKETS



QUICK JOINT NUT SIZE AND TYPE	NUT, GASKET & GRIPPER ASSEMBLY COMPLETE		GASKET AND GRIPPER RING ASSEMBLY	
	CATALOG NUMBER	PRICE	CATALOG NUMBER	PRICE
COPPER OR PLASTIC TUBING (CTS)				
1/2"	QJN4-1	\$ 22.08	QJNGA4-1	\$ 10.96
5/8"	QJN4-2	11.61	QJNGA4-2	5.25
3/4"	QJN4-3	16.17	QJNGA4-3	6.29
1"	QJN4-4	19.83	QJNGA4-4	7.55
1-1/4"	QJN4-5	32.49	QJNGA4-5	9.99
1-1/2"	QJN4-6	42.30	QJNGA4-6	16.10
2"	QJN4-7	58.47	QJNGA4-7	22.17
PE PIPE				
3/4"	QJN6-3	24.61	QJNGA6-3	7.28
1"	QJN6-4	32.49	QJNGA6-4	9.99

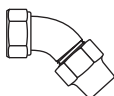
The price of products, sold less nuts, will be adjusted to reflect additional handling and packaging charges. Call Customer Service for pricing.

Note: Ford Pack, Quick and Grip Joint compression connections, when used on copper, are designed for Type K or Type L copper only.

FLARE COPPER COUPLINGS

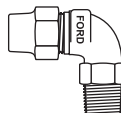
FLARE COPPER TO FEMALE IRON PIPE THREAD

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	\$ 16.64
C21-31-NL	3/4"	1/2"	0.5	25	27.50
C21-23-NL	5/8"	3/4"	0.5	25	28.75
C21-33-NL	3/4"	3/4"	0.7	20	31.49
C21-34-NL	3/4"	1"	0.9	20	41.19
C21-35-NL	3/4"	1-1/4"	0.9	15	48.96
C21-43-NL	1"	3/4"	0.9	20	43.35
C21-44-NL	1"	1"	1.0	12	48.16
C21-45-NL	1"	1-1/4"	1.1	12	59.67
C21-46-NL	1"	1-1/2"	1.5	10	77.28
C21-55-NL	1-1/4"	1-1/4"	1.7	8	90.66
C21-66-NL	1-1/2"	1-1/2"	2.6	4	129.33
C21-67-NL	1-1/2"	2"	3.4	4	164.34
C21-77-NL	2"	2"	4.9	3	245.33
C21-78-NL	2"	2-1/2"	6.4	-	335.69
ELL COUPLINGS					
L21-33-NL	3/4"	3/4"	1.0	16	38.29
L21-44-NL	1"	1"	1.5	8	63.09
L21-66-NL	1-1/2"	1-1/2"	3.7	4	203.89
L21-77-NL	2"	2"	6.2	1	339.78
EIGHTH BEND COUPLINGS					
LA21-33-NL	3/4"	3/4"	0.8	18	43.82
LA21-44-NL	1"	1"	1.4	10	73.15



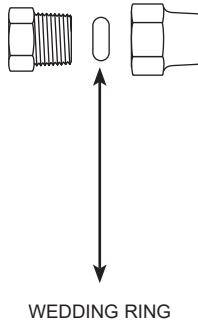
FLARE COPPER TO MALE IRON PIPE THREAD

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	\$ 20.97
C28-13-NL	1/2"	3/4"	0.4	36	25.10
C28-21-NL	5/8"	1/2"	0.5	-	29.06
C28-23-NL	5/8"	3/4"	0.6	30	29.06
C28-31-NL	3/4"	1/2"	0.6	25	31.14
C28-33-NL	3/4"	3/4"	0.7	20	31.91
C28-34-NL	3/4"	1"	0.7	20	36.71
C28-43-NL	1"	3/4"	0.9	15	48.64
C28-44-NL	1"	1"	1.1	10	45.57
C28-54-NL	1-1/4"	1"	1.4	8	71.95
C28-55-NL	1-1/4"	1-1/4"	1.6	6	90.86
C28-65-NL	1-1/2"	1-1/4"	2.6	4	135.99
C28-66-NL	1-1/2"	1-1/2"	2.8	4	140.53
C28-77-NL	2"	2"	4.8	-	257.88
ELL COUPLINGS					
L28-11-NL	1/2"	1/2"	0.5	-	32.23
L28-33-NL	3/4"	3/4"	0.8	16	34.19
* L28-34-AWT-NL	3/4"	1"	1.0	-	50.50
L28-43-NL	1"	3/4"	1.0	12	47.88
L28-44-NL	1"	1"	1.3	8	56.72
L28-66-NL	1-1/2"	1-1/2"	3.0	3	203.12
L28-77-NL	2"	2"	5.4	1	346.28



*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)

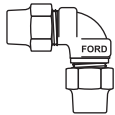
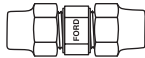


CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
	FLARE COPPER	FLARE COPPER			
STRAIGHT COUPLINGS					
CS22-33-NL	3/4"	3/4"	0.6	25	\$ 35.54
CS22-44-NL	1"	1"	0.8	15	54.92
CS22-55-NL	1-1/4"	1-1/4"	1.6	10	99.79
CS22-66-NL	1-1/2"	1-1/2"	2.5	6	144.91
CS22-77-NL	2"	2"	4.8	3	256.13

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-NL	0.0	200	\$ 6.89
WR-4-NL	1" for CS22-44-NL	0.0	180	7.99
WR-5-NL	1-1/4" for CS22-55-NL	0.1	100	9.95
WR-6-NL	1-1/2" for CS22-66-NL	0.1	85	12.69
WR-7-NL	2" for CS22-77-NL	0.3	40	24.28

FLARE COPPER TO FLARE COPPER (3 PART) COUPLINGS



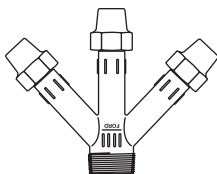
CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
	FLARE COPPER	FLARE COPPER			
STRAIGHT COUPLINGS					
C22-11-NL	1/2"	1/2"	0.6	30	\$ 26.37
C22-12-NL	1/2"	5/8"	0.7	-	34.92
C22-13-NL	1/2"	3/4"	0.8	20	34.70
C22-22-NL	5/8"	5/8"	0.8	-	39.50
C22-23-NL	5/8"	3/4"	0.9	15	42.90
C22-33-NL	3/4"	3/4"	1.0	14	40.33
C22-34-NL	3/4"	1"	1.2	12	59.67
C22-44-NL	1"	1"	1.7	6	70.56
C22-55-NL	1-1/4"	1-1/4"	2.7	4	144.76
C22-66-NL	1-1/2"	1-1/2"	4.0	7	211.85
C22-77-NL	2"	2"	7.4	1	345.61
ELL COUPLINGS					
L22-33-NL	3/4"	3/4"	1.0	14	42.93
L22-34-NL	3/4"	1"	1.2	10	61.77
L22-44-NL	1"	1"	1.7	8	71.57
L22-66-NL	1-1/2"	1-1/2"	4.0	2	301.28
L22-77-NL	2"	2"	7.4	2	415.22

FLARE "Y" BRANCH CONNECTIONS

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



Y22-247-NL

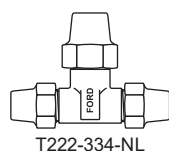
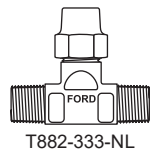


Y28-347-NL

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	3.2	2	\$ 229.04
Y21-247-NL	Two 1" Flare Cop Conns.	x	2" Female Iron Pipe	3.9	2	276.65
Y22-243-NL	Two 3/4" Flare Cop Conns.	x	1" Flare Copper	1.8	5	87.05
Y22-246-NL	Two 1" Flare Cop Conns.	x	1-1/2" Flare Copper	4.2	2	249.05
Y22-247-NL	Two 1" Flare Cop Conns.	x	2" Flare Copper	5.8	4	318.96
Y28-234-NL	Two 3/4" Flare Cop Conns.	x	1" Male Iron Pipe	1.3	8	77.91
Y28-246-NL	Two 1" Flare Cop Conns.	x	1-1/2" Male Iron Pipe	2.7	4	212.61
Y28-247-NL	Two 1" Flare Cop Conns.	x	2" Male Iron Pipe	2.8	2	204.72
Y88-247-NL	Two 1" Male Iron Pipe	x	2" Male Iron Pipe	1.6	4	181.22
THREE BRANCH CONNECTIONS						
Y21-347-NL	Three 1" Flare Cop Conns.	x	2" Female Iron Pipe	5.5	5	369.79
Y22-346-NL	Three 1" Flare Cop Conns.	x	1-1/2" Flare Copper	6.5	5	448.69
Y22-347-NL	Three 1" Flare Cop Conns.	x	2" Flare Copper	8.4	5	556.21
Y28-346-NL	Three 1" Flare Cop Conns.	x	1-1/2" Male Iron Pipe	5.0	4	372.59
Y28-347-NL	Three 1" Flare Cop Conns.	x	2" Male Iron Pipe	5.0	5	357.45

SERVICE TEES

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



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	0.7	-	\$ 43.96
T111-444-NL	1" Female Iron Pipe	x	1" Female Iron Pipe	1.1	9	62.66
T111-777-NL	2" FIP to 2" FIP	x	2" Female Iron Pipe	3.6	-	300.08
T181-333-NL	3/4" FIP to 3/4" MIP	x	3/4" Female Iron Pipe	0.6	-	43.96
T181-664-NL	1-1/2" FIP to 1-1/2" MIP	x	1" Female Iron Pipe	2.1	-	123.90
T181-774-NL	2" FIP to 2" MIP	x	1" Female Iron Pipe	2.3	4	141.31
T222-113-NL	1/2" Flare Copper	x	3/4" Flare Copper	1.1	-	60.30
T222-333-NL	3/4" Flare Copper	x	3/4" Flare Copper	1.6	8	75.62
T222-334-NL	3/4" Flare Copper	x	1" Flare Copper	1.8	5	90.49
T222-443-NL	1" Flare Copper	x	3/4" Flare Copper	2.2	6	101.80
T222-444-NL	1" Flare Copper	x	1" Flare Copper	2.6	4	127.01
T222-445-NL	1" Flare Copper	x	1-1/4" Flare Copper	2.6	-	150.34
T222-664-NL	1-1/2" Flare Copper	x	1" Flare Copper	5.2	5	298.25
T222-666-NL	1-1/2" Flare Copper	x	1-1/2" Flare Copper	6.9	4	331.61
* T222-774-AWT-NL	2" Flare Copper	x	1" Flare Copper	13.0	2	761.25
T222-777-NL	2" Flare Copper	x	2" Flare Copper	12.3	3	622.14
T228-333-NL	3/4" Flare Copper	x	3/4" Male Iron Pipe	1.3	8	69.03
T228-334-NL	3/4" Flare Copper	x	1" Male Iron Pipe	1.3	-	75.41
T228-444-NL	1" Flare Copper	x	1" Male Iron Pipe	2.0	5	111.48
T282-333-NL	3/4" Fl. Cop. to 3/4" MIP	x	3/4" Flare Copper	1.3	-	60.70
T282-334-NL	3/4" Fl. Cop. to 3/4" MIP	x	1" Flare Copper	1.8	-	78.65
T282-444-NL	1" Fl. Cop. to 1" MIP	x	1" Flare Copper	2.4	-	109.68
T882-333-NL	3/4" Male Iron Pipe	x	3/4" Flare Copper	0.9	-	57.38
T882-334-NL	3/4" Male Iron Pipe	x	1" Flare Copper	1.2	10	75.62
T882-444-NL	1" Male Iron Pipe	x	1" Flare Copper	1.5	-	105.07
T888-333-NL	3/4" Male Iron Pipe	x	3/4" Male Iron Pipe	0.6	20	43.96
T888-334-NL	3/4" Male Iron Pipe	x	1" Male Iron Pipe	0.6	10	53.24
T888-444-NL	1" Male Iron Pipe	x	1" Male Iron Pipe	0.8	10	68.79
T888-445-NL	1" Male Iron Pipe	x	1-1/4" Male Iron Pipe	1.0	9	76.46
T888-777-NL	2" Male Iron Pipe	x	2" Male Iron Pipe	4.0	-	300.08

* This item is manufactured from two castings assembled watertight.

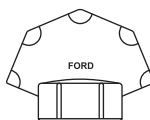
MULTI-SERVICE TEE



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	\$ 131.78
T11-674-NL	2" Female Iron Pipe	x	Six 1" Female Iron Pipe	3.0	4	153.54

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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	\$ 176.33

ADAPTERS FOR FLARE COPPER CONNECTIONS (REPLACES COPPER FLARE NUT)

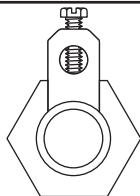
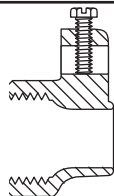
CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
COPPER TUBE NUTS WITH MALE IRON PIPE THREADS						
C08-33-NL	3/4" Female Copper Thread	x	3/4" Male Iron Pipe	0.3	40	\$ 20.58
C08-43-NL	1" Female Copper Thread	x	3/4" Male Iron Pipe	0.5	20	37.23
C08-44-NL	1" Female Copper Thread	x	1" Male Iron Pipe	0.6	20	36.06
C08-45-NL	1" Female Copper Thread	x	1-1/4" Male Iron Pipe	0.7	14	89.39
C08-66-NL	1-1/2" Female Copper Thread	x	1-1/2" Male Iron Pipe	1.5	6	78.22
C08-77-NL	2" Female Copper Thread	x	2" Male Iron Pipe	2.8	3	132.99
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	22.18
C01-13-NL	1/2" Female Copper Thread	x	3/4" Female Iron Pipe	0.4	44	26.07
C01-33-NL	3/4" Female Copper Thread	x	3/4" Female Iron Pipe	0.4	40	26.07
C01-34-NL	3/4" Female Copper Thread	x	1" Female Iron Pipe	0.7	25	43.62
C01-43-NL	1" Female Copper Thread	x	3/4" Female Iron Pipe	0.6	15	51.34
C01-44-NL	1" Female Copper Thread	x	1" Female Iron Pipe	0.8	15	44.03
C01-55-NL	1-1/4" Female Copper Thread	x	1-1/4" Female Iron Pipe	1.0	10	68.72
C01-65-NL	1-1/2" Female Copper Thread	x	1-1/4" Female Iron Pipe	1.8	6	108.00
C01-66-NL	1-1/2" Female Copper Thread	x	1-1/2" Female Iron Pipe	1.4	8	93.64
C01-67-NL	1-1/2" Female Copper Thread	x	2" Female Iron Pipe	1.6	5	106.49
C01-75-NL	2" Female Copper Thread	x	1-1/4" Female Iron Pipe	2.7	-	191.03
C01-77-NL	2" Female Copper Thread	x	2" Female Iron Pipe	2.5	3	160.55
PIGGY BACK NUTS AND INCREASERS						
C02-23-NL	5/8" Female Copper Thread	x	3/4" Flare Copper	0.7	25	36.37
C02-31-NL	3/4" Female Copper Thread	x	1/2" Flare Copper	0.5	30	26.63
C02-32-NL	3/4" Female Copper Thread	x	5/8" Flare Copper	0.5	25	31.15
C02-33-NL	3/4" Female Copper Thread	x	3/4" Flare Copper	0.6	20	50.28
C02-34-NL	3/4" Female Copper Thread	x	1" Flare Copper (with nut)	0.9	15	48.27
C02-43-NL	1" Female Copper Thread	x	3/4" Flare Copper	0.9	15	47.80
C02-44-NL	1" Female Copper Thread	x	1" Flare Copper	1.1	12	68.98
C02-45-NL	1" Female Copper Thread	x	1-1/4" Flare Copper	1.7	9	103.65
C02-54-NL	1-1/4" Female Copper Thread	x	1" Flare Copper	1.3	10	85.46
C02-64-NL	1-1/2" Female Copper Thread	x	1" Flare Copper	1.8	5	144.76
C02-65-NL	1-1/2" Female Copper Thread	x	1-1/4" Flare Copper	2.4	8	167.55
C02-74-NL	2" Female Copper Thread	x	1" Flare Copper	2.8	3	205.55
C02-75-NL	2" Female Copper Thread	x	1-1/4" Flare Copper	3.8	4	249.47
C02-76-NL	2" Female Copper Thread	x	1-1/2" Flare Copper	4.1	2	270.15
ELL COUPLINGS						
L02-33-NL	3/4" Female Copper Thread	x	3/4" Flare Copper	0.9	15	47.44
L02-33S-NL	3/4" Female Copper Thread Swivel	x	3/4" Flare Copper	1.1	14	63.31
L02-44-NL	1" Female Copper Thread	x	1" Flare Copper	1.5	8	75.57
L02-44S-NL	1" Female Copper Thread Swivel	x	1" Flare Copper	1.6	8	89.39
L02-66-NL	1-1/2" Female Copper Thread	x	1-1/2" Flare Copper	3.6	2	239.40
L02-66S-NL	1-1/2" Female Copper Thread Swivel	x	1-1/2" Flare Copper	4.4	2	261.68
L02-77-NL	2" Female Copper Thread	x	2" Flare Copper	6.7	1	448.17
L02-77S-NL	2" Female Copper Thread Swivel	x	2" Flare Copper	7.9	1	458.52
EIGHTH BEND COUPLINGS						
LA02-33-NL	3/4" Female Copper Thread	x	3/4" Flare Copper	0.9	18	44.45
LA02-33S-NL	3/4" Female Copper Thread Swivel	x	3/4" Flare Copper	1.1	18	57.07
LA02-44-NL	1" Female Copper Thread	x	1" Flare Copper	1.5	10	65.46
LA02-44S-NL	1" Female Copper Thread Swivel	x	1" Flare Copper	1.6	10	77.85
LA02-66-NL	1-1/2" Female Copper Thread	x	1-1/2" Flare Copper	3.6	2	207.27
LA02-66S-NL	1-1/2" Female Copper Thread Swivel	x	1-1/2" Flare Copper	4.4	2	352.61
LA02-77-NL	2" Female Copper Thread	x	2" Flare Copper	6.7	3	382.86
LA02-77S-NL	2" Female Copper Thread Swivel	x	2" Flare Copper	7.9	1	499.14

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

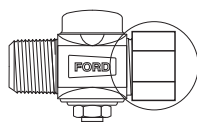
COPPER TUBE NUTS FOR FLARE CONNECTIONS

CATALOG NUMBER	SIZE	APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
CTN-1	1/2"	0.2	-	\$ 5.40
CTN-2	5/8"	0.2	-	8.51
CTN-3	3/4"	0.3	40	8.87
CTN-4	1"	0.4	16	14.68
CTN-5	1-1/4"	0.7	10	23.57
CTN-6	1-1/2"	1.1	7	40.99
CTN-7	2"	2.1	3	76.39

THAW WIRE COPPER TUBE NUTS FOR FLARE COPPER CONNECTIONS

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

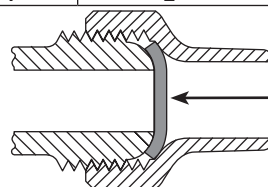
CATALOG NUMBER	SIZE	APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
CTN-3-THW	3/4"	0.4	35	\$ 23.25
CTN-4-THW	1"	0.7	15	29.05

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	\$ 57.34
CAP-2-4-NL	1"	Flare Copper Corp & CTS Compression Corps - Also fits 3/4" PEP Corp & 3/4" PVC/IPS PE Corp	0.5	32	92.72
CAP-4-4-NL	1"	CTS Pack Joint Coupling & CTS Grip Joint Coupling	0.6	32	92.72
CAP-2-5-NL	1-1/4"	Flare Copper Corp & CTS Compression Corp (excluding Quick Joint) - Also fits 1" PEP Corp & 1" PVC/IPS PE Corp	0.7	24	107.13
CAP-4-5-Q-NL	1-1/4"	CTS Quick Joint Corp	0.8	34	107.13
CAP-4-5-NL	1-1/4"	CTS Pack Joint Corp & CTS Grip Joint Coupling - Also fits 1" PEP Cplg	0.9	24	107.13
CAP-2-6-NL	1-1/2"	Flare Copper Corp, CTS Compression Corp (excluding Quick Joint) & PVC/IPS PE Coupling	1.0	20	137.83
CAP-4-6-Q-NL	1-1/2"	CTS Quick Joint Corp	1.0	18	137.83
CAP-2-7-NL	2"	Flare Copper Corp, CTS Compression Corp (excluding Quick Joint) & PVC/IPS PE Corp - Also fits 2-1/2" CTS Pack & Grip Cplg and 1-1/2" and 2" Corp	1.6	9	181.42
CAP-4-7-Q-NL	2"	CTS Quick Joint Corp	1.7	12	181.42
CAP-4-7-NL	2"	CTS Pack Joint Coupling & CTS Grip Joint Coupling - Also fits 1-1/2" PEP Pack Joint (IDR7) Coupling	2.5	12	181.42

SOLID COPPER DISCS TO PLUG SERVICE AT FLARE COPPER CONNECTIONS

CATALOG NUMBER	SIZE	APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
DISC-2	5/8"	0.1	100	\$ 4.04
DISC-3	3/4"	0.1	100	3.33
DISC-4	1"	0.1	100	4.40
DISC-5	1-1/4"	0.1	25	6.56
DISC-6	1-1/2"	0.1	25	10.86
DISC-7	2"	0.2	25	12.06



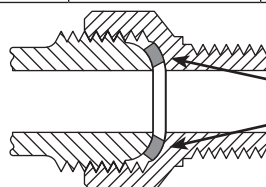
Solid Copper Disc

COPPER GASKETS FOR FLARE COPPER CONNECTIONS

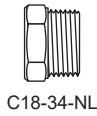
(for adapters that replace flare copper tube nut)



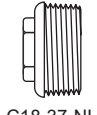
CATALOG NUMBER	SIZE	APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
SLC-3	3/4"	0.1	100	\$ 3.00
SLC-4	1"	0.1	100	4.26
SLC-5	1-1/4"	0.1	500	4.84
SLC-6	1-1/2"	0.1	200	6.86
SLC-7	2"	0.1	-	8.66



Copper Gasket

BRASS BUSHINGS*

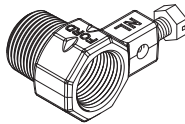
C18-34-NL



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	\$ 8.95
C18-14-NL	1/2" Female Iron Pipe	x 1" Male Iron Pipe	0.3	60	14.12
C18-31-NL	3/4" Female Iron Pipe	x 1/2" Male Iron Pipe	0.4	30	11.12
C18-34-NL	3/4" Female Iron Pipe	x 1" Male Iron Pipe	0.2	60	11.12
C18-35-NL	3/4" Female Iron Pipe	x 1-1/4" Male Iron Pipe	0.4	35	26.63
C18-36-NL	3/4" Female Iron Pipe	x 1-1/2" Male Iron Pipe	0.8	20	45.04
C18-37-NL	3/4" Female Iron Pipe	x 2" Male Iron Pipe	0.7	16	46.94
C18-43-NL	1" Female Iron Pipe	x 3/4" Male Iron Pipe	0.3	40	20.48
C18-45-NL	1" Female Iron Pipe	x 1-1/4" Male Iron Pipe	0.4	35	21.44
C18-46-NL	1" Female Iron Pipe	x 1-1/2" Male Iron Pipe	0.7	20	45.04
C18-47-NL	1" Female Iron Pipe	x 2" Male Iron Pipe	0.6	16	43.47
C18-54-NL	1-1/4" Female Iron Pipe	x 1" Male Iron Pipe	0.5	14	41.00
C18-56-NL	1-1/4" Female Iron Pipe	x 1-1/2" Male Iron Pipe	0.5	20	31.04
C18-57-NL	1-1/4" Female Iron Pipe	x 2" Male Iron Pipe	1.2	10	76.63
C18-67-NL	1-1/2" Female Iron Pipe	x 2" Male Iron Pipe	0.7	15	43.35
C18-76-NL	2" Female Iron Pipe	x 1-1/2" Male Iron Pipe	1.7	6	133.55
C18-78-NL	2" Female Iron Pipe	x 2-1/2" Male Iron Pipe	1.5	6	69.54

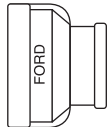
* Also commonly referred to as a coupling (increasing or decreasing) for waterworks applications.

BRASS COUPLINGS SIZE-ON-SIZE WITH TRACER WIRE TERMINAL

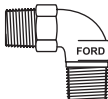
CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
C18-33-TW-NL	3/4" Female Iron Pipe	x 3/4" Male Iron Pipe	0.4	-	\$ 31.21
C18-44-TW-NL	1" Female Iron Pipe	x 1" Male Iron Pipe	0.5	-	51.71

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	0.7	25	\$ 50.52
UNION-4-NL	1" Female Iron Pipe	x 1" Female Iron Pipe	1.2	12	92.70

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	0.3	28	\$ 25.32
C11-43-NL	1" Female Iron Pipe	x 3/4" Female Iron Pipe	0.4	24	28.72
C11-44-NL	1" Female Iron Pipe	x 1" Female Iron Pipe	0.5	1	32.13
C11-54-NL	1-1/4" Female Iron Pipe	x 1" Female Iron Pipe	0.6	20	32.13
C11-64-NL	1-1/2" Female Iron Pipe	x 1" Female Iron Pipe	0.7	15	45.82
C11-66-NL	1-1/2" Female Iron Pipe	x 1-1/2" Female Iron Pipe	1.4	9	60.74
C11-74-NL	2" Female Iron Pipe	x 1" Female Iron Pipe	1.5	8	93.75
C11-75-NL	2" Female Iron Pipe	x 1-1/4" Female Iron Pipe	1.4	8	78.42
C11-87-NL	2-1/2" Female Iron Pipe	x 2" Female Iron Pipe	3.6	8	238.74
C88-45-NL	1-1/4" Male Iron Pipe	x 1" Male Iron Pipe	0.6	24	51.87

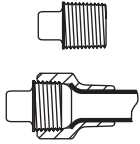
ELL COUPLINGS

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	\$ 27.66
L18-44-NL	1" Female Iron Pipe	x 1" Male Iron Pipe	0.7	12	73.35
L18-76S-NL	2" Female Iron Pipe (swivel nut)	x 1-1/2" Male Iron Pipe	3.0	4	191.71
L18-87S-NL	2-1/2" Female Iron Pipe (swivel nut)	x 2" Male Iron Pipe	3.9	2	372.12
L88-33-NL	3/4" Male Iron Pipe	x 3/4" Male Iron Pipe	0.4	30	26.73
L88-77-NL	2" Male Iron Pipe	x 2" Male Iron Pipe	2.4	4	230.05

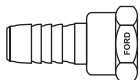
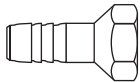
EIGHTH BEND COUPLINGS

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	\$ 66.67

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BRASS SERVICE PLUGS

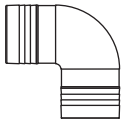
CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
Pipe Plugs						
CSP-3-I-NL	3/4" Male Iron Pipe Thread	x	Square Wrench Head	0.2	100	\$ 17.28
CSP-4-I-NL	1" Male Iron Pipe Thread	x	Square Wrench Head	0.3	50	27.56
CSP-6-I-NL	1-1/2" Male Iron Pipe Thread	x	Square Wrench Head	0.4	-	63.60
Flare Copper Service Plugs						
CSP-3-NL	Male Cop. Thrd. for 3/4" CTN	x	Square Wrench Head	0.2	50	17.78
CSP-4-NL	Male Cop. Thrd. for 1" CTN	x	Square Wrench Head	0.5	35	28.49

*** STRAIGHT RIBBED INSERT FITTINGS FOR (SIDR7) 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	\$ 24.31
PTP-21-NL	3/4" PE Pipe	x 1" PE Pipe	0.4	40	33.67
PTP-2-NL	1" PE Pipe	x 1" PE Pipe	0.4	35	32.45
PTP-3-NL	1-1/4" PE Pipe	x 1-1/4" PE Pipe	0.5	25	43.29
PTP-32-NL	1-1/4" PE Pipe	x 1" PE Pipe	0.5	25	45.82
PTP-4-NL	1-1/2" PE Pipe	x 1-1/2" PE Pipe	0.8	12	63.80
PTP-5-NL	2" PE Pipe	x 2" PE Pipe	1.0	9	80.11
FEMALE COPPER THREAD TO RIBBED INSERT FOR PE PIPE					
PTC-1-NL	3/4" Female Cop. Thrd.	x 3/4" PE Pipe	0.4	25	24.63
PTC-21-NL	3/4" Female Cop. Thrd.	x 1" PE Pipe	0.4	25	26.95
PTC-2-NL	1" Female Cop. Thrd.	x 1" PE Pipe	0.7	20	44.33
PTC-4-NL	1-1/2" Female Cop. Thrd.	x 1-1/2" PE Pipe	1.3	8	96.91
PTC-5-NL	2" Female Cop. Thrd.	x 2" PE Pipe	2.7	3	166.11
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	20.26
PTM-21-NL	3/4" Male Iron Pipe	x 1" PE Pipe	0.4	36	28.26
PTM-2-NL	1" Male Iron Pipe	x 1" PE Pipe	0.5	25	33.22
PTM-3-NL	1-1/4" Male Iron Pipe	x 1-1/4" PE Pipe	0.7	18	55.14
PTM-4-NL	1-1/2" Male Iron Pipe	x 1-1/2" PE Pipe	0.9	12	53.57
PTM-5-NL	2" Male Iron Pipe	x 2" PE Pipe	1.1	8	56.71
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	30.28
PTF-21-NL	3/4" Female Iron Pipe	x 1" PE Pipe	0.5	25	31.99
PTF-2-NL	1" Female Iron Pipe	x 1" PE Pipe	0.5	25	33.77
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	-	27.31
○ PTSS-2-NL	1" Solder Socket for Cop.	x 1" PE Pipe	0.5	25	32.79
○ PTSS-3-NL	1-1/4" Solder Socket for Cop.	x 1-1/4" PE Pipe	0.8	-	54.76
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	23.67
○ PTS-2-NL	1" Solder Nose for Cop.	x 1" PE Pipe	0.4	50	29.11
○ PTS-3-NL	1-1/4" Solder Nose for Cop.	x 1-1/4" PE Pipe	0.8	-	56.76

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

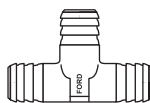
* For use, specifically, with stainless steel screw-type clamps.

*** ELL RIBBED INSERT FITTINGS FOR (SIDR7) 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	\$ 81.30
PTPL-5-NL	2" PE Pipe	x 2" PE Pipe	1.5	6	125.71

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

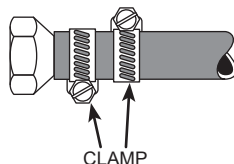
* SERVICE TEE RIBBED INSERT FITTING FOR 1" (SIDR7) PE PLASTIC PIPE



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	0.6	18	\$ 76.00

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

STAINLESS STEEL SCREW-TYPE CLAMPS FOR PE (SIDR7) PLASTIC PIPE



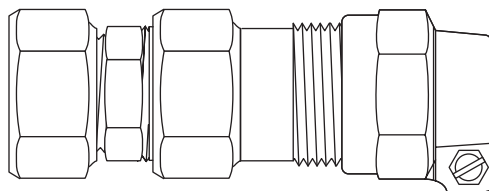
CATALOG NUMBER	DESCRIPTION	APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
CLAMP-16	For 3/4" PE Pipe	0.1	100	\$ 7.23
CLAMP-20	For 1" PE Pipe	0.1	75	7.23
CLAMP-24	For 1-1/4" PE Pipe	0.1	70	7.23
CLAMP-32	For 1-1/2" PE Pipe	0.1	40	7.23
CLAMP-40	For 2" PE Pipe	0.1	35	7.23

FLARE NUTS FOR (SIDR7) PE PIPE (REPLACES COPPER FLARE NUT)



CATALOG NUMBER	DESCRIPTION	APPROX. WT. LBS.	STD. PKG. QTY.	LIST PRICE
FPN-3	For 3/4" PE Pipe	0.3	35	\$ 19.17
FPN-4	For 1" PE Pipe	0.6	-	30.02

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	\$ 85.86
◆ SI-C04-44-AWT-NL	1" Female Copper Thread x 1" Pack Joint (CTS)	C08-44-NL/DB-45/C14-54-NL AWT	118.65
◆ 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	282.13
◆ SI-C04-77-AWT-NL	2" Female Copper Thread x 2" Pack Joint (CTS)	C08-77-NL/DB-78/C14-87-NL AWT	463.18
SI-C22-33-AWT-NL	3/4" Flare Copper x 3/4" Flare Copper	C21-34-NL/DB-34/C28-33-NL AWT	95.13
SI-C22-44-AWT-NL	1" Flare Copper x 1" Flare Copper	C21-45-NL/DB-45/C28-44-NL AWT	134.58
◆ 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	102.73
◆ 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	125.07
◆ 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	411.64
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	312.12
SI-C44-77-AWT-NL	2" Pack Joint (CTS) x 2" Pack Joint (CTS)	C84-77-NL/DB-78/C14-87-NL AWT	483.11
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	483.11
SI-C77-44-AWT-NL	1" Pack Joint (PVC/IPS PE) x 1" Pack Joint (PVC/IPS PE)	C17-54-NL/DB45/C87-44-NL AWT	167.69

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-AWT-G-NL

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

Note: Ford Pack, Quick and Grip Joint compression connections, when used on copper, are designed for Type K or Type L copper only.