

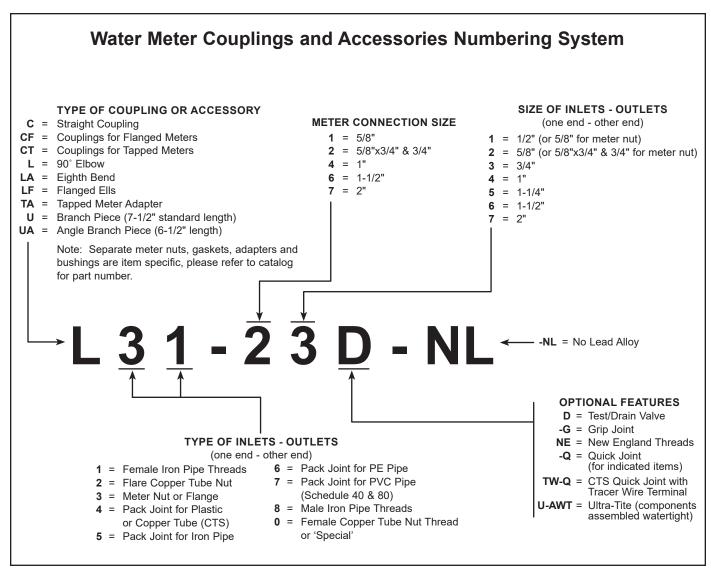


Ford Water Meter Couplings Section H and Accessories



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Note: See item listings in catalog section H to ensure desired sizes and options are available.

Ford offers many products that are classified to ANSI/NSF Standard 61. To verify if a product is classified to ANSI/NSF Standard 61, contact the Ford Meter Box Customer Service Department at 260-563-3171 or visit fordmeterbox.com. Ford Meter Box meets your need for ANSI/NSF Standard 61 approved items with products that are proven and reliable.

Due to design improvements, product images in the catalog do not always reflect the most current design detail.

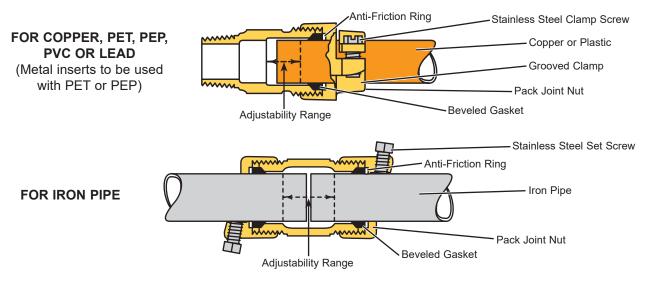
Parties responsible for monitoring and maintaining proper water system design must exercise full responsibility in understanding and upholding the full intent and scope of applicable lead laws.

*Pack Joint Connections

In a compression coupling, too much can hurt as much as too little. Excessive mechanical pullout resistance, for example, could mean ripping the corporation stop from the main if a backhoe catches the service line. Ford Pack Joints offer a balanced design on every type of pipe. Stab the pipe into the fitting, tighten the EPDM gasketed nut for a watertight seal, and tighten the clamp screw. You get all the pullout resistance you need for the heaviest backfill loads, but not more than you need.

Pack Joint Connections - How the Pack Joint Works

- 1. Tightening the large Pack Joint Nut compresses an EPDM beveled gasket to make it watertight around the pipe or tubing.
- 2. For copper or plastic tubing and pipe, the nut has a split clamp locking device, which is drawn down securely on the tubing or pipe by tightening a stainless steel screw. (For iron pipe, the nut has a stainless steel set screw to bite in and lock on the pipe.)
- 3. Machined grooves in the clamp provide additional gripping action.



Installation instructions are shipped with product and posted on the Ford Meter Box website. Consult pipe or tubing manufacturer for specific installation requirements.

*Quick Joint Connections

The Ford Quick Joint offers traditional Ford features of quality and reliability. This easy-to-use fitting is available on a wide variety of Ford products. Just stab the copper or plastic tubing into the fitting and tighten down the compression nut to the external stop. That's it! The Quick Joint provides excellent pullout resistance and superior hydraulic blow-off protection. Note: The Ford Quick Joint Nut IS NOT interchangeable with other compression fittings.

Quick Joint Connections - How the Quick Joint Works

- 1. A large gasket and stainless steel gripper ring are drawn together when the nut is tightened, providing the hydraulic seal and mechanical restraint.
- 2. A transparent fluorocarbon coating covers the interior of the nut, providing smooth torque transfer. This coating eliminates "back drive," reduces tightening torque and minimizes gasket distortion.
- 3. A positive, external and visual stop ensures correct installation, providing maximum performance.

For 3/4" - 2" copper, PET (SDR9) or 3/4" - 1" PEP (Metal inserts to be used with PET or PEP)

Nut Stop

Copper or Plastic

Adjustability Range

Stainless Steel

Gripper Ring

Spring Tip Gasket

^{**} Installation instructions are shipped with product, posted on the Ford Meter Box website and available by scanning QR code or visiting link below. Consult pipe or tubing manufacturer for specific installation requirements.



*See dimension comparison table on page H-8 for recommended PE pipe and tubing.

*Grip Joint Connections

Grip Joint Connections - How the Grip Joint Works

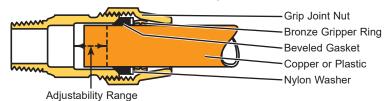
- 1. Tightening the Grip Joint nut compresses an EPDM beveled gasket to form a watertight seal around the pipe or tubing.
- 2. The bronze split ring is drawn down when the nut is tightened, providing the mechanical seal and lock on the pipe.
- 3. Grip Joint couplings are to be used only with 3/4" through 2" copper or PET, and 3/4" & 1" PEP.

ONE STEP COUPLING FOR COPPER. PET OR PEP

(Metal inserts to be used with PET or PEP)







*Ford Ultra-Tite Connections

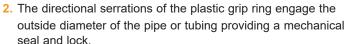
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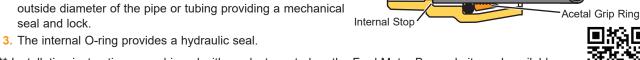
(No insert required or recommended.)

The Ford Ultra-Tite compression coupling provides an immediate lock onto Polyethylene Pipe (PEP/IPS) or Polyethylene Tubing (PET/CTS) when inserted to the internal stop. STAB COUPLING FOR 3/4" AND 1" PEP AND PET

Ford Ultra-Tite Connections -How the Ultra-Tite Works

1. An integral stop within the connection ensures full pipe insertion.





Installation instructions are shipped with product, posted on the Ford Meter Box website and available by scanning QR code or visiting link below. Consult pipe or tubing manufacturer for specific installation requirements.



Polyethylene Pipe

or Tubing

Ultra-Tite connections on corporation stops are assembled hand-tight and must be removed for drilling or tapping machine adaptation to corporation stop outlet thread. Once the tap is made, the Ultra-Tite should be securely tightened to the corporation stop outlet thread. Unless otherwise requested, corporation stops with Ultra-Tite connections require a drilling/tapping (insertion) machine adapter for male iron pipe thread outlets. Contact the factory for Ultra-Tite Corpration Stops with optional outlet thread connections.

Code Marks for Ford Compression Coupling Nuts

copper, polyethylene (PET) tubing

polyethylene (PEP) pipe

polyvinyl chloride (PVC) pipe (Schedule 40 and 80)/IPS PE (DR9 and DR11)



Ford Pack Joint

Types of Pipe and Tubing

Explanation of Abbreviations

Copper Tube - CTS - copper tubing is widely used as a service line and the outside diameter is closely held by manufacturers. The outside diameter of copper tubing has become a standard in the industry and is known as "copper tube size". (Pack Joint coded CTS.)

Plastic Tubing - CTS - flexible water service tubing in what is referred to as "copper tube size". Plastic tube refers to any plastic with the same outside diameter as corresponding sizes of copper tube such as PET - polyethylene tubing. (Pack Joint coded CTS.)

Plastic Pipe - PEP - flexible water service pipe in what is referred to as "pipe size". Plastic pipe refers to any pipe having the same inside diameter as corresponding sizes of standard iron pipe such as PEP - polyethylene pipe. (Pack Joint coded PEP.)

Plastic Pipe - IPS - flexible water service pipe in what is referred to as "iron pipe size" or "PVC size". Plastic pipe refers to any pipe having the same outside diameter as corresponding size of iron, PVC or steel pipe such as IPS PE - polyethylene pipe. (Pack Joint coded PVC.)

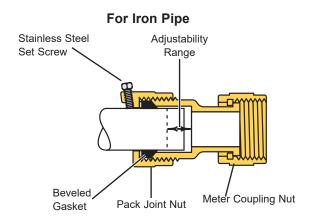
PVC Pipe - PVC - polyvinyl chloride rigid plastic pipe. PVC pipe refers to polyvinyl chloride rigid plastic pipe having the same outside diameter as corresponding sizes of standard iron pipe. (Pack Joint coded PVC.)

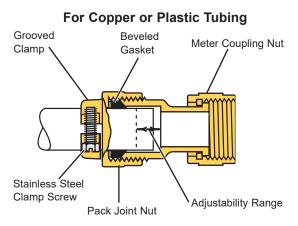
NOTE: Ford Pack Joints for PVC are recommended for use only with Schedule 40 and Schedule 80 PVC or DR9 and DR11 IPS PE with the use of the appropriate sized stainless steel insert.

Meter Couplings

Straight Meter Couplings with Pack Joints

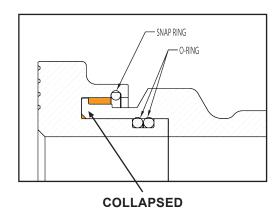
Connecting meters to iron, copper or plastic service lines, old or new, is expedited with Ford Pack Joint Meter Couplings. The Pack Joint connection makes a tight, permanent joint on copper, plastic or iron pipe *without flaring, soldering or threading*. The Pack Joint provides adjustability for inaccuracies in pipe length and alignment. See page 4 for further information on Pack Joint connections.

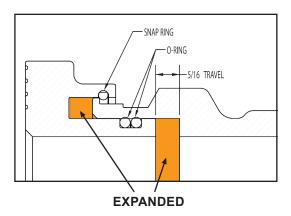




Adjustable Meter Flange (Patent # 18169305)

Adjustable meter flanges allow for up to 5/16" of adjustment during meter installation or change-outs.

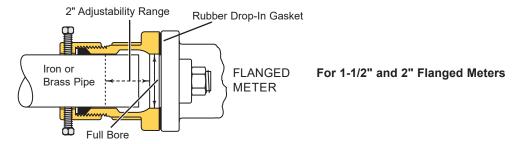




Adjustable meter flanges are rated to 300 psi, can rotate up to 360° and will hold position once pressurized. See page H-13 for available part numbers.

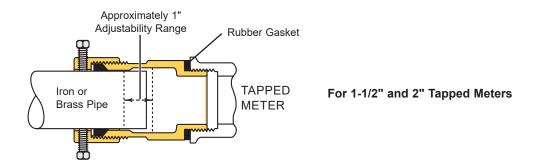
Lok-Pak Meter Couplings

Lok-Pak Couplings simplify the installation of 1-1/2" and 2" water meters and facilitate meter changes. They provide adjustability of spacing for the meter, and a measure of flexibility in the piping. Joints are dependably and permanently watertight and eliminate pipe threading and/or tube flaring.



As shown in the drawing, each Lok-Pak Coupling for a flanged meter has a lateral adjustment of 2".

The Pack Joint on all Lok-Pak Couplings tightens easily. The Pack Joint nut is locked in place on iron or brass pipe by two stainless steel set screws, and on copper or plastic by a grooved split clamp with a clamp screw. Details of the Ford Pack Joint are shown and described on page 4.

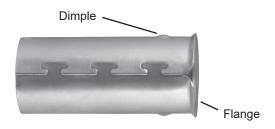


Each coupling for a tapped meter provides adjustment of about 1". To ensure space for retraction from the meter, each coupling for tapped meters has a line on the casting to show the limit to which iron, brass or copper pipe can be inserted.

Accessories

Insert Stiffeners

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



Before using Ford Insert Stiffeners, be sure inside tubing or pipe dimensions correspond to the table below.

Ford recommends using insert stiffeners with plastic pipe or tubing.

Note: Consult pipe or tubing manufacturer for specific installation requirements.

50 Series For Polyethylene <u>Tubing</u> (PET)

CATALOG	Nominal	PET
Number	Size	ID
INSERT-51	3/4"	0.681
INSERT-52	1"	0.875
* INSERT-53-72	1-1/4"	1.069
** NSERT-53-72-Q	1-1/4"	1.069
INSERT-54	1-1/2"	1.263
INSERT-55	2"	1.653
♦ INSERT-54-Q	1-1/2"	1.263
♦ INSERT-55-Q	2"	1 653

70 Series For Polyethylene Pipe (PEP)

CATALOG	Nominal	PEP
Number	Size	ID
INSERT-71	3/4"	0.824
* INSERT-53-72	1"	1.049
**♦ INSERT-53-72-Q	1"	1.049
INSERT-73	1-1/4"	1.380
INSERT-74	1-1/2"	1.610
INSERT-75	2"	2.067

Inserts For OD Controlled DR11 High Density Polyethylene (HDPE) Pipe with PVC O.D.

CATALOG Number	NOMINAL SIZE AND PIPE TYPE	DR	HDPE OD	Nominal ID	
* INSERT-53-72	1" IPS	11	1.315	1.06	
INSERT-73-DR11	1-1/4" IPS	11	1.660	1.34	
INSERT-74-DR11	1-1/2" IPS	11	1.900	1.53	
INSERT-75-DR11	2" IPS	11	2.375	1.92	

- * 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. They ARE NOT interchangeable for use with any other types of compression fittings.

DIMENSION COMPARISON TABLE FOR PLASTIC, COPPER AND GALVANIZED IRON

PIPE AN	D TUBING	PSI	SDR	CONTROL			0.	D.					LI	D.		
Түре		P31	SUK	CONTROL	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	200	CDDO	OD	0.625	0.875	1.125	1.375	1.625	2.125		0.681	0.875	1.069	1.263	1.653
PE1	PE4710	0 250 SDR9	OD	0.023	0.675	1.123	1.373	1.023	2.123	_	0.001	0.673	1.009	1.203	1.000	
PEP	PE3408	200	CIDDZ	ID		1.060	1.349	1.774	2.070	2.657		0.824	1.049	1.380	1.610	2.067
FEF	PE4710	250	SIDR7	םו ו	_	1.000	1.349	1.774	2.070	2.007	_	0.024	1.049	1.300	1.010	2.007
IPS PE	_	_	_	OD	0.840	1.050	1.315	1.660	1.900	2.375	_	_	_	_	_	_
PVC	_	_	_	OD	0.840	1.050	1.315	1.660	1.900	2.375	_	_	_	_	_	_
Galv IP	_	_	_	OD	0.840	1.050	1.315	1.660	1.900	2.375	_	_	_	_	_	_

Ford Pack Joints for PVC are recommended for use only with Schedule 40 and Schedule 80 PVC.

Copper Rounding Tool

When copper tubing is used, Ford recommends that it be checked to see if it is perfectly round. Compression couplings do not perform properly if the tubing is out-of-round. Unrounded copper can result in a marginal gasket seal that may eventually permit leakage. The Copper Rounding Tool forms the copper tubing for a proper fit.



CATALOG NUMBER	Tube Size	APPROX. Wt. Lbs.
CRT-3	3/4"	0.7
CRT-4	1"	1.4
CRT-5	1-1/4"	2.3
CRT-6	1-1/2"	3.8
CRT-7	2"	8.0

Meter Gaskets





CATALOG NUMBER	Description - Usage
GT-109	5/8" Composition Gasket - 5/8" Meter
GT-116	3/4" Composition Gasket - 5/8"x3/4" & 3/4" Meter
GT-121	1" Composition Gasket - 1" Meter
GT-167	5/8" Leather Gasket - 5/8" Meter
GT-113	3/4" Leather Gasket - 5/8"x3/4" & 3/4" Meter
GT-163	1" Leather Gasket - 1" Meter
GT-110	Leather Changeover Gasket for changing 5/8" Meter to 5/8"x3/4" Meter
GT-108	5/8" Rubber Gasket - 5/8" Meter
GT-114	3/4" Rubber Gasket - 5/8"x3/4" & 3/4" Meter
GT-120	1" Rubber Gasket - 1" Meter
GT-124	1-1/4" Rubber Gasket - 1-1/4" Meter
GT-140	1-1/2" Rubber Drop-In Gasket - 1-1/2" Flanged Meter
GT-141	2" Rubber Drop-In Gasket - 2" Flanged Meter
GT-131	1-1/2" Rubber Gasket - 1-1/2" Tapped Meter
GT-135	2" Rubber Gasket - 2" Tapped Meter
GT-126	1-1/2" Rubber Gasket - 1-1/2" Male Threaded Meter
GT-127	2" Rubber Gasket - 2" Male Threaded Meter

Gaskets are furnished with all meter connections. Rubber drop-in gaskets are furnished with all flanges. All gaskets are 1/8" thick.

Rubber Resetter Gaskets



CAT. No.	Description - Usage
GT-108	5/8" Rubber Resetter Gasket for 5/8" meter
GT-114	3/4" Rubber Resetter Gasket for 5/8"x3/4" and 3/4" meter
GT-120	1" Rubber Resetter Gasket for 1" meter

Hex Bars for Body Style C



CATALOG NUMBER	DESCRIPTION	WRENCH SIZE	APPROX. Wt. Lbs.
HBW-3	for 3/4" Couplings, body style C	11/16"	0.6
HBW-4	for 1" Couplings, body style C	13/16"	0.6

Dielectric Bushings (for insulating service lines)



CATALOG NUMBER	DESCRIPTION						
DB-34	3/4" Female Pipe Thread	Х	1" Male Pipe Thread	.02			
DB-45	1" Female Pipe Thread	Х	1-1/4" Male Pipe Thread	.04			
DB-56	1-1/4" Female Pipe Thread	Х	1-1/2" Male Pipe Thread	.03			
DB-67	1-1/2" Female Pipe Thread	Х	2" Male Pipe Thread	.07			
DB-78	2" Female Pipe Thread	Х	2-1/2" Male Pipe Thread	.13			

Examples: DB-34 and C31-24-NL assembly will insulate a 3/4" line, a DB-45 and C31-45-NL will insulate a 1" line.

Meter Coupling Nuts Only



CATALOG NUMBER	DESCRIPTION	APPROX. Wt. Lbs.
MN-1	5/8" Meter Coupling Nut Only for "A" and "C" Body Style Straight Meter Couplings	0.14
СМС	5/8" to 3/4" Changeover Meter Coupling Nut for Changing 5/8" "A" Body Style Coupling from 5/8" Meter to 5/8"x3/4" Meter	0.23
MN-2	3/4" Meter Coupling Nut Only for "A" and "C" Body Style Straight Meter Couplings	0.24
MN-4	1" Meter Coupling Nut Only for "A" and "C" Body Style Straight Meter Couplings	0.31
MN-7	2" Meter Coupling Nut Only for "A" and "C" Body Style Straight Meter Couplings	-

Straight Meter Couplings

Straight Meter Couplings by Male Iron Pipe Thread



Body Style A (wrench flats/grooves on barrel)



Body Style B (heavy wrench flats on barrel)



Body Style C (short with internal wrench hex)



Body Style A/C (wrench flats on barrel and internal wrench hex)

•	De	escription of Coupling		APPROX.
CATALOG Number	Body	MALE IRON PIPE	COUPLING	WEIGHT
HOWBER	STYLE	THREAD SIZE	LENGTH	LBS.
	FOF	R 5/8" METERS		
C38-11-2-NL	Α	1/2"	2"	0.3
C38-11-2-188-NL	Α	1/2"	2-3/16"	0.4
**C38-11-2-375-NL	Α	1/2"	2-3/8"	0.4
C38-13-2-188-NL	В	3/4"	2-3/16"	0.4
	FOR 5/8" x	3/4" AND 3/4" METERS		
C38-21-1-625-NL	A/C	1/2"	1-5/8"	0.5
C38-21-2-375-NL	Α	1/2"	2-3/8"	0.6
C38-23-1-437-NL	A/C	3/4"	1-7/16"	0.4
C38-23-1-5-NL	A/C	3/4"	1-1/2"	0.4
C38-23-1-625-NL	*	3/4"	1-5/8"	0.4
C38-23-2-NL	Α	3/4"	2"	0.5
C38-23-2-25-NL	Α	3/4"	2-1/4"	0.5
**C38-23-2-5-NL	Α	3/4"	2-1/2"	0.5
C38-23-2-75-NL	Α	3/4"	2-3/4"	0.5
C38-23-3-NL	Α	3/4"	3"	0.5
C38-23-8-5-NL	В	3/4"	8-1/2"	1.6
C38-23-12-NL	В	3/4"	12"	2.3
C38-24-2-5-NL	В	1"	2-1/2"	0.6
	FO	R 1" METERS		
C38-43-NL	A	3/4"	1-11/16"	0.6
C38-44-1-5-NL	A/C	1"	1-1/2"	0.6
C38-44-2-NL	A/C	1"	2"	0.6
C38-44-2-25-NL	В	1"	2-1/4"	0.8
**C38-44-2-625-NL	A	1"	2-5/8"	0.7
C38-44-3-5-NL	A	1"	3-1/2"	0.7
C38-44-8-5-NL	A	1"	8-1/2"	1.6
	FOR	1-1/4" METERS		
C38-54-2-75-NL	A	1"	2-3/4"	1.2
	FOR	1-1/2" METERS	_	
C38-66-2-875-NL	Α	1-1/2"	2-7/8"	1.8
	FO	R 2" METERS		
C38-77-NL	A	2"	3-1/16"	3.0

^{**} Standard coupling length

Straight Meter Couplings by Female Iron Pipe Thread and Flare Copper



Catalog Number	Description			Coupling Length	Approx. Wt. Lbs.
METER SWIVEL NUT BY FEMALE IRON PIPE T			HREAD		
C31-13-NL	5/8" Meter	Χ	3/4" Female Iron Pipe	1-7/8"	0.5
C31-23-NL	5/8"x3/4" & 3/4" Meter	Χ	3/4" Female Iron Pipe	1-3/4"	0.6
C31-24-NL	5/8"x3/4" & 3/4" Meter	Χ	1" Female Iron Pipe	2"	0.7
C31-44-NL	1" Meter	Х	1" Female Iron Pipe	2-3/8"	0.9
C31-45-NL	1" Meter	Χ	1-1/4" Female Iron Pipe	2-3/8"	1.1
	METER SWIV	EL N	NUT BY FLARE COPPER	1	
C32-13-NL	5/8" Meter	Х	3/4" Flare Copper	2-3/16"	0.8
C32-23-NL	5/8"x3/4" & 3/4" Meter	Х	3/4" Flare Copper	2-3/16"	0.9
C32-44-NL	1" Meter	Х	1" Flare Copper	2-1/2"	1.4

Note: Length of couplings for flare copper is measured less the copper tube nut.

Straight Meter Couplings with Integral Check Valves

Straight Meter Couplings by Male Iron Pipe Thread



CATALOG	Body	MALE IRON PIPE	COUPLING	NUMBER OF	APPROX.
Number	STYLE	THREAD SIZE	LENGTH	CHECK VALVES	Wt. Lbs.
For 5/8" x 3/4" and 3/4" Meters					
C38-23H1-2-5-NL	В	3/4"	2-1/2"	1	0.6
C38-23H2-2-5-NL	В	3/4"	2-1/2"	2	0.6
		For 1" Meter	'S		
C38-44H1-2-625-NL	В	1"	2-5/8"	1	0.8
C38-44H2-3-NL	В	1"	3"	2	1.0

^{*} Heavy wrench flats on barrel with internal wrench hex

Straight Meter Couplings With Pack Joints









	CATALOG	Desc	·DID	TION	Approx.
	Number				Wt. Lbs.
ME	TER SWIVEL NUT	BY PACK JOINT FOR	COI	PPER OR PLASTIC TU	BING (CTS)
	C34-11-NL	5/8" Meter	Х	1/2" CTS P.J.	0.7
▶+	C34-13-NL	5/8" Meter	Х	3/4" CTS P.J.	0.7
	C34-21-NL	5/8"x3/4" & 3/4" Meter	Χ	1/2" CTS P.J.	0.9
	C34-22-NL	5/8"x3/4" & 3/4" Meter	Χ	5/8" CTS P.J.	0.8
▶+	C34-23-NL	5/8"x3/4" & 3/4" Meter	Х	3/4" CTS P.J.	0.8
▶+	C34-24-NL	5/8"x3/4" & 3/4" Meter	Х	1" CTS P.J.	0.9
▶+	C34-44-NL	1" Meter	Х	1" CTS P.J.	1.2
+	C34-44-4-75-NL	1" Meter	Х	1" CTS P.J.	1.7
	C34-45-NL	1" Meter	Х	1-1/4" CTS P.J.	1.7
	METER SWIVEL NUT BY PACK JOINT FOR IRON PIPE				
	C35-11-NL	5/8" Meter	Х	1/2" Iron Pipe P.J.	0.6
	C35-13-NL	5/8" Meter	Х	3/4" Iron Pipe P.J.	0.6
	C35-21-NL	5/8"x3/4" & 3/4" Meter	Х	1/2" Iron Pipe P.J.	0.7
	C35-23-NL	5/8"x3/4" & 3/4" Meter	Х	3/4" Iron Pipe P.J.	0.8
	C35-23-4-875-NL	5/8"x3/4" & 3/4" Meter	Х	3/4" Iron Pipe P.J.	1.2
	C35-44-NL	1" Meter	Х	1" Iron Pipe P.J.	1.5
	C35-44-4-75-NL	1" Meter	Х	1" Iron Pipe P.J.	1.9
	METEI	R SWIVEL NUT BY PAC	K J	OINT FOR PE PIPE	
	C36-13-NL	5/8" Meter	Х	3/4" PE Pipe P.J.	0.9
•	C36-23-NL	5/8"x3/4" & 3/4" Meter	Х	3/4" PE Pipe P.J.	0.9
•	C36-44-NL	1" Meter	Х	1" PE Pipe P.J.	1.8
		SWIVEL NUT BY PACK	JO		
	C37-13-NL	5/8" Meter	Х	3/4" PVC Pipe P.J.	8.0
	C37-21-NL	5/8"x3/4" & 3/4" Meter	Х	1/2" PVC Pipe P.J.	0.7
	C37-23-NL	5/8"x3/4" & 3/4" Meter	Х	3/4" PVC Pipe P.J.	0.9
	C37-23-4-875-NL	5/8"x3/4" & 3/4" Meter	Х	3/4" PVC Pipe P.J.	1.4
	C37-44-NL	1" Meter	Х	1" PVC Pipe P.J.	1.7
	C37-44-4-75-NL	1" Meter	Χ	1" PVC Pipe P.J.	2.2

Grip Joint for CTS and PEP is available. Add "-G" to the catalog number.

- Quick Joint can be ordered by adding "-Q" to the catalog number.
 Note: Insert Stiffeners are listed on page 7 of this section.
- ► Ultra-Tite available. Add "-U-AWT" to the catalog number (consists of components assembled watertight).
- Extended coupling length (4-75 for 4-3/4" and 4-875 for 4-7/8")
- *** Ford Pack Joints for PVC are only recommended for Schedule 40 and Schedule 80 pipe.

Angle Meter Couplings









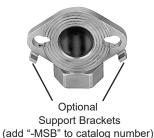
Number				
METER SWIVEL N	<u>UT BY FEMA</u>	LE	IRON PIPE THREAD	
	Meter	Х	3/4" Female Iron Pipe	0.6
L31-23-NL 5/8"x3/4"	& 3/4" Meter	Х	3/4" Female Iron Pipe	0.8
L31-23D-NL 5/8"x3/4"	& 3/4" Meter	х	3/4" Female Iron Pipe	0.9
(Test Valve) 5/8"x3/4"	& 3/4" Meter	X	1" Female Iron Pipe	0.9
L31-44-NL 1"	Meter	Х	1" Female Iron Pipe	1.2
METER SWIVEL NUT BY FLARE COPPER				
L32-13-NL 5/8"	Meter	Χ	3/4" Flare Copper	0.8
L32-23-NL 5/8"x3/4"	& 3/4" Meter	Х	3/4" Flare Copper	1.0
	Meter	Χ	1" Flare Copper	1.6
METER SWIVEL NUT BY MALE IRON PIPE THREAD				
L38-11-NL 5/8"	Meter	Х	1/2" Male Iron Pipe	0.4
	& 3/4" Meter	Х	3/4" Male Iron Pipe	0.7
	& 3/4" Meter	Х	1" Male Iron Pipe	0.7
	Meter	Х	1" Male Iron Pipe	1.1
	Meter	Χ	1-1/4" Male Iron Pipe	1.3
	" Meter	Х	1-1/2" Male Iron Pipe	3.0
METER SWIVEL NUT BY PACK		COF	PPER OR PLASTIC TUE	BING (CTS)
► L34-13-NL 5/8"	Meter	Х	3/4" CTS P.J.	0.8
► L34-23-NL 5/8"x3/4"	& 3/4" Meter	Χ	3/4" CTS P.J.	1.0
► ◆ L34-44-NL 1"	Meter	Χ	1" CTS P.J.	1.3
	Meter	Х	1-1/4" CTS P.J.	0.9
		ΚJ	OINT FOR PE PIPE	
	& 3/4" Meter	Χ	3/4" PE Pipe P.J.	1.1
► L36-44-NL 1"	Meter	Х	1" PE Pipe P.J.	1.9

Grip Joint for CTS and PEP is available. Add "-G" to the catalog number.

- ◆ Quick Joint can be ordered by adding "-Q" to the catalog number
- ▶ Ultra-Tite available. Add "-U-AWT" to the catalog number (consists of components assembled watertight).

Flanged Meter Couplings





Flanged Ells for 1-1/2" and 2" meters

CATALOG NUMBER	DESCRIPTION			APPROX. Wt. Lbs.	
	METER FLANGE BY FEMA	ALE II	RON PIPE THREAD		
LF31-66-NL	1-1/2" Meter Flange	Х	1-1/2" Female Iron Pipe	3.7	
LF31-67-NL	1-1/2" Meter Flange	Х	2" Female Iron Pipe	4.2	
LF31-77-NL	1-1/2" & 2" Meter Flange	Х	2" Female Iron Pipe	4.6	
	METER FLANGE BY FLARE COPPER				
LF32-66-NL	1-1/2" Meter Flange	Х	1-1/2" Flare Copper	5.1	
LF32-67-NL	1-1/2" Meter Flange	Х	2" Flare Copper	6.8	
LF32-77-NL	1-1/2" & 2" Meter Flange	Х	2" Flare Copper	7.5	
METER FL	METER FLANGE BY PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS)				
LF34-66-NL	1-1/2" Meter Flange	Х	1-1/2" CTS P.J.	4.3	
LF34-77-NL	1-1/2" & 2" Meter Flange	Х	2" CTS P.J.	6.2	

Grip Joint for CTS is available. Add "-G" to the catalog number.

For meter support brackets, two per flange, add "-MSB" to catalog number.

Lok-Pak Meter Couplings





Lok-Pak Meter Couplings for Flanged Meters

CATALOG NUMBER	DESCRIPTION			APPROX. Wt. Lbs.
METER FLANGE BY PACK JOINT FOR COPPER OR PLASTIC TUBIN				G (CTS)
CF34-66-NL	1-1/2" Meter Flange	Х	1-1/2" CTS P.J.	3.7
CF34-77-NL	2" Meter Flange	Х	2" CTS P.J.	4.8
METER FLANGE BY PACK JOINT FOR IRON PIPE				
CF35-66-NL	1-1/2" Meter Flange	Х	1-1/2" Iron Pipe P.J.	3.6
CF35-77-NL	2" Meter Flange	Х	2" Iron Pipe P.J.	5.1
	METER FLANGE BY PACK JOINT FOR PVC PIPE***			
CF37-66-NL	1-1/2" Meter Flange	Х	1-1/2" PVC Pipe P.J.	4.0
CF37-77-NL	2" Meter Flange	Х	2" PVC Pipe P.J.	6.0

Grip Joint for CTS is available. Add "-G" to the catalog number.

For Meter Support Brackets, two per flange, add "-MSB" to catalog number.

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





CATALOG NUMBER	Description			APPROX. Wt. Lbs.
CO	NNECTION FOR TAPPED METER	BY	PACK JOINT FOR COPPER	र
	OR PLASTIC TU	BING	G (CTS)	
CT34-66-NL	1-1/2" Tapped Meter Connection	Х	1-1/2" CTS P.J.	2.1
CT34-77-NL	2" Tapped Meter Connection	Х	2" CTS P.J.	3.4
CONN	CONNECTION FOR TAPPED METER BY PACK JOINT FOR IRON PIPE			
CT35-66-NL	1-1/2" Tapped Meter Connection	Х	1-1/2" Iron Pipe P.J.	2.2
CT35-77-NL	2" Tapped Meter Connection	Х	2" Iron Pipe P.J.	3.3

Grip Joint for CTS only is available. Add "-G" to the catalog number.

Gaskets are furnished with all meter couplings, flat drop-in gaskets for flanged meters, flat ring gaskets for tapped meters.

Steel bolts and nuts (5/8" x 2-1/2", zinc plated) for attaching 1-1/2" & 2" flanges and flanged ells are sold separately and are supplied in pairs. (Cat. No. **PSB**)

Meter Flanges



CF33-66S-2-125-NL



Female Iron Pipe



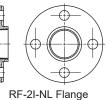
Male Iron Pipe

	Catalog Number	DESCRIPTION			
	CF31-66-NL	1-1/2" Meter Flange	Х	1-1/2" Female Iron Pipe Thread	2.2
	CF31-66-EXP-NL	1-1/2" Expanding Meter Flange	Χ	1-1/2" Female Iron Pipe Thread	-
	CF31-67-NL	1-1/2" Meter Flange	Χ	2" Female Iron Pipe Thread	1.9
+	CF31-77-NL	2" Meter Flange	Х	2" Female Iron Pipe Thread	2.8
	CF31-77-EXP-NL	2" Expanding Meter Flange	Χ	2" Female Iron Pipe Thread	5.5
	CF31-78-NL	2" Meter Flange	Х	2-1/2" Female Iron Pipe Thread	3.2
,	CF33-66S-2-125-NL	1-1/2" Meter Flange	Х	1-1/2" Meter Swivel Nut	7.0
	CF33-77S-2-25-NL	2" Meter Flange	Х	2" Meter Swivel Nut	8.5
*	CF38-66-2-NL	1-1/2" Meter Flange	Х	1-1/2" Male Iron Pipe Thread	2.4
	CF38-66-EXP-NL	1-1/2" Expanding Meter Flange	Х	1-1/2" Male Iron Pipe Thread	4.5
+	CF38-77-1-937-NL	2" Meter Flange	Х	2" Male Iron Pipe Thread	3.2
+	CF38-77-2-125-NL	2" Meter Flange	Х	2" Male Iron Pipe Thread	3.2
	CF38-77-EXP-NL	2" Expanding Meter Flange	Х	2" Male Iron Pipe Thread	5.7

^{*} Standard length

For meter support brackets, two per flange, add "-MSB" to the catalog number.

Note: Drop-in rubber gaskets are included with all 1-1/2" and 2" meter flanges and flanged ells. Flange couplings are not supplied with bolts. Steel bolts and nuts (5/8" x 2-1/2", zinc plated) for attaching 1-1/2" & 2" flanges and flanged ells are sold separately and are supplied in pairs. (Cat. No. **PSB**)



Four Bolt Round Flange

Catalog Number		DESCRIPTI	ON	APPROX. Wt. Lbs.
RF-2I-NL	2" 4-Bolt Meter Flange	Х	2" Female Iron Pipe Thread	4.4

Meter Adapters



A47-NL Adapter



Adapt from 1" to 2" meter with A47-NL Adapter



Adapt from 1" to 5/8" meter with A14-NL Adapter

Catalog Number	Description - Usage	APPROX. Wt. Lbs.
ADAPTE	R RINGS TO BUSH METER SPUDS (NO CHANGE IN METER LENGTH)	
□ A12S	Pair short adapter rings to bush 5/8" meter spuds to 5/8"x3/4" meter spud size	0.1
□ A12M	Pair medium adapter rings to bush 5/8" meter spuds to 5/8"x3/4" meter spud size	0.1
□ A12L	Pair long adapter rings to bush 5/8" meter spuds to 5/8"x3/4" meter spud size	0.2
□ A34S	Pair short adapter rings to bush 3/4" meter spuds to 1" meter spud size	0.3
□ A45	Pair adapter rings to bush 1" meter spuds to 1-1/4" meter spud size	0.2
A	ADAPTERS TO CHANGE METER SPUD SIZE AND/OR LENGTH	
* A13-NL	Pair adapters to change 5/8" meter to 3/4" meter spud size and length	0.5
* A14-NL	Pair adapters to change 5/8" meter to 1" meter spud size and length	0.8
* A21-NL	One adapter to change 5/8"x3/4" and 3/4" to 5/8" meter spud size	0.3
* A23-NL	One adapter to change 5/8"x3/4" meter to 3/4" meter length	0.4
* A24-NL	Pair adapters to change 5/8"x3/4" meter to 1" spud size and length	1.1
* A34-NL	Pair adapters to change 3/4" meter to 1" meter spud size and length	0.8
* A44-NL	One adapter to change 3/4"x1" meter to 1" meter length	0.8
* A46-NL	Pair adapters to change 1" meter to 1-1/2" flanged meter size and length	4.0
* A47-NL	Pair adapters to change 1" meter to 2" flanged meter size and length	7.1
A67-NL	Pair adapters to change 1-1/2" flanged meter to 2" flanged meter size and length	8.7
AUT-INL	(eight special length bolts included)	0.7
* A77-15-25-NL	Pair adapters to change 2" meter 17" length to 2" meter 15-1/4" length	7.2
* TA46-NL	Pair adapters to change 1" meter to 1-1/2" tapped meter size and length	1.5
* TA47-NL	Pair adapters to change 1" meter to 2" tapped meter size and length	3.0

Brass components that <u>do not</u> come in contact with potable water shall be cast of UNS C83600 85-5-5-5 and conform to AWWA Standard C800 (ASTM B62 and ASTM B584).

Note: Adapter numbers A21-NL, A23-NL and A44-NL extend the meter length only and therefore only one per meter is required. All other adapters are sold in pairs; the part number and weight reflects a pair.

⁺ Slotted bolt holes are available on 2" meter flanges to allow 1-1/2" meter installations.

^{*} Gasket included.

Meter Idlers







For 5/8" through 1" meters (plastic)

For 5/8" through 1" meters

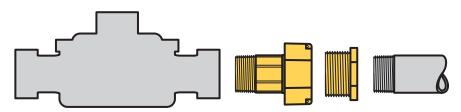
For 1-1/2" through 2" meters

CATALOG NUMBER	DESCRIPTION	APPROX. WT. LBS.
IDLER-1-NL	Replaces 5/8" Meter	0.6
IDLER-1P	Replaces 5/8" Meter (plastic)	0.1
IDLER-2-NL	Replaces 5/8" x 3/4" Meter	0.9
IDLER-2-4-NL	Replaces 5/8" x 3/4" Meter, 4" length	0.7
IDLER-2-5-75-NL	Replaces 5/8" x 3/4" Meter, 5-3/4" length	0.8
IDLER-2P	Replaces 5/8" x 3/4" Meter (plastic)	0.3
IDLER-3-NL	Replaces 3/4" Meter	1.0
IDLER-3-9-5-NL	Replaces 3/4" Meter, 9-1/2" length	1.0
IDLER-3P	Replaces 3/4" Meter (plastic)	0.4
IDLER-4-NL	Replaces 1" Meter	1.5
IDLER-4-6-875-NL	Replaces 1" Meter, 6-7/8" length	1.2
IDLER-4-9-NL	Replaces 1" Meter, 9" length	1.4
IDLER-4P	Replaces 1" Meter (plastic)	0.4
IDLER-4P-9	Replaces 1" Meter (plastic), 9" length	0.4
IDLER-6-NL	Replaces 1-1/2" Meter	6.2
IDLER-6-3-NL	Replaces 1-1/2" Meter, 3" length	4.4
IDLER-6-4-NL	Replaces 1-1/2" Meter, 4" length	4.5
IDLER-6-7-NL	Replaces 1-1/2" Meter, 7" length	5.6
IDLER-6-10-NL	Replaces 1-1/2" Meter, 10" length	5.9
IDLER-7-NL	Replaces 2" Flanged Meter	10.8
IDLER-7-3-NL	Replaces 2" Flanged Meter, 3" length	6.0
IDLER-7-6-875-NL	Replaces 2" Flanged Meter, 6-7/8" length	6.6
IDLER-7-8-NL	Replaces 2" Flanged Meter, 8" length	7.9
IDLER-7-10-NL	Replaces 2" Flanged Meter, 10" length	8.0
IDLER-7-13-313-NL	Replaces 2" Flanged Meter, 13-5/16" length	8.2
IDLER-7-15-25-NL	Replaces 2" Flanged Meter, 15-1/4" length	8.4
IDLER-7-15-75-NL	Replaces 2" Flanged Meter, 15-3/4" length	8.4
IDLER-7-18-5-NL	Replaces 2" Flanged Meter, 18-1/2" length	8.5

Note: Steel bolts and nuts (5/8" x 2-1/2", zinc plated) for attaching 1-1/2" and 2" Flange Lok-Pak couplings, adapters & idlers, must be ordered separately and are supplied in pairs. (Cat. No. PSB)

Meter Coupling Bushings





CATALOG NUMBER	Description	APPROX. Wt. Lbs.
BBIM-33-NL	3/4" Female Iron Pipe Thread x 3/4" Male Meter Thread	0.2
BBIM-34-NL	3/4" Female Iron Pipe Thread x 1" Male Meter Thread	0.5
BBIM-44-NL	1" Female Iron Pipe Thread x 1" Male Meter Thread	0.4
BBIM-66-NL	1-1/2" Female Iron Pipe Thread x 1-1/2" Meter Spud	1.0
BBIM-77-NL	2" Female Iron Pipe Thread x 2" Meter Spud	1.4

Example: The male iron pipe thread end of a C38-66-2-875-NL threads into an 1-1/2" tapped meter. The female iron pipe thread of a BBIM-66-NL will thread onto the service line. This allows a swivel connection between the swivel nut on the C38-66-2-875-NL and the male meter thread on the BBIM-66-NL.

Meter Plugs



CATALOG NUMBER	Description	APPROX. Wt. Lbs.	
MP-1-NL	5/8" Meter Thread x Square Wrench Head	0.1	
MP-23-NL	3/4" Meter Thread x Square Wrench Head	0.2	
MP-4-NL	1" Meter Thread x Square Wrench Head	0.4	

"U" Branch Pieces

(7-1/2" Standard Spacing) (6-1/2", 12-1/2" or 14" Spacing Optional)



CATALOG				APPROX. WEIGHT LBS.					
Number	DESCRIPTION		6-1/2"	7-1/2" STD	9"	12-1/2"	14"	18"	
NUMBER				SPACING	SPACING	SPACING	SPACING	SPACING	SPACING
"U" BRANCH PIECES									
U11-43-spacing-NL	1" Female Iron Pipe	Х	Two 3/4" Female Iron Pipe Outlets	2.2	2.3	N/A	2.4	N/A	N/A
U11-43-18-AWT-NL	1" Female Iron Pipe	Х	Two 3/4" Female Iron Pipe Outlets	N/A	N/A	N/A	N/A	N/A	3.4
U11-44-18-NL	1" Female Iron Pipe	Χ	Two 1" Female Iron Pipe Outlets	N/A	N/A	N/A	N/A	N/A	4.0
U18-33-spacing-NL	3/4" Female Iron Pipe	Χ	Two 3/4" Male Iron Pipe Outlets	1.8	1.9	N/A	N/A	N/A	N/A
U18-43-spacing-NL	1" Female Iron Pipe	Х	Two 3/4" Male Iron Pipe Outlets	1.6	1.8	N/A	2.8	2.9	N/A
U18-44-14-NL	1" Female Iron Pipe	Х	Two 1" Male Iron Pipe Outlets	N/A	N/A	N/A	N/A	3.1	N/A
U18-64-9-NL	1-1/2" Female Iron Pipe	Х	Two 1" Male Iron Pipe Outlets	N/A	N/A	3.6	N/A	N/A	N/A
U21-33-spacing-NL	3/4" Flare Copper	Х	Two 3/4" Female Iron Pipe Outlets	2.4	2.5	N/A	N/A	N/A	N/A
U21-43-spacing-NL	1" Flare Copper	Х	Two 3/4" Female Iron Pipe Outlets	2.1	2.8	N/A	3.5	3.5	N/A
U28-33-spacing-NL	3/4" Flare Copper	Х	Two 3/4" Male Iron Pipe Outlets	2.0	2.1	N/A	N/A	N/A	N/A
U28-43-spacing-NL	1" Flare Copper	Х	Two 3/4" Male Iron Pipe Outlets	2.1	2.2	N/A	3.4	3.5	N/A
U28-64-9-NL	1-1/2" Flare Copper	Х	Two 1" Male Iron Pipe Outlets	N/A	N/A	4.6	N/A	N/A	N/A
U88-33-spacing-NL	3/4" Male Iron Pipe	Χ	Two 3/4" Male Iron Pipe Outlets	1.5	1.8	N/A	N/A	3.2	N/A
U88-43-spacing-NL	1" Male Iron Pipe	Х	Two 3/4" Male Iron Pipe Outlets	2.0	1.7	N/A	N/A	2.8	N/A
U88-64-9-NL	1-1/2" Male Iron Pipe	Х	Two 1" Male Iron Pipe Outlets	N/A	N/A	3.0	N/A	N/A	N/A
"U" B	RANCH PIECES WITH	PA	CK JOINT INLETS FOR COPPE	R OR PL	ASTIC TUE	BING (CT	S)		
► U41-43-spacing-NL	1" CTS P.J.	Х	Two 3/4" Female Iron Pipe Outlets	2.1	2.4	N/A	N/A	N/A	N/A
► U48-33-spacing-NL	3/4" CTS P.J.	Χ	Two 3/4" Male Iron Pipe Outlets	1.8	2.1	N/A	N/A	N/A	N/A
♦ U48-43-spacing-NL	1" CTS P.J.	Х	Two 3/4" Male Iron Pipe Outlets	*1.8	♦ 1.9	N/A	2.9	♦ 3.1	N/A
U48-63-spacing-NL	1-1/2" CTS P.J.	Х	Two 3/4" Male Iron Pipe Outlets	N/A	3.2	N/A	N/A	N/A	N/A
♦ U48-64-9-NL	1-1/2" CTS P.J.	Х	Two 1" Male Iron Pipe Outlets	N/A	N/A	♦ 4.0	N/A	N/A	N/A
"U" BRANCH PIECES WITH PACK JOINT INLET FOR PE PIPE									
► U68-33-spacing-NL	3/4" PE Pipe P.J.	Х	Two 3/4" Male Iron Pipe Outlets	2.0	2.1	N/A	N/A	N/A	N/A
► U68-43-spacing-NL	1" PE Pipe P.J.	Х	Two 3/4" Male Iron Pipe Outlets	2.0	2.7	N/A	N/A	3.1	N/A
U68-53-NL	1-1/4" PE Pipe P.J.	Χ	Two 3/4" Male Iron Pipe Outlets	N/A	3.0	N/A	N/A	N/A	N/A

Grip Joint for CTS and PEP (3/4" & 1") is available. Add "-G" to the catalog number.

◆ Quick Joint can be ordered by adding "-Q" to the catalog number.

Note: To order, use the catalog number plus the desired spacing; 6-1/2", 7-1/2", 9", 12-1/2" or 14" as shown available in the table above. Example: U21-43-65-NL is a "U" branch with a 1" flare inlet and two 3/4" FIP outlets with a 6-1/2" spacing between the outlets.

A 7-1/2" spacing will be provided unless otherwise specified

- ▶ Ultra-Tite available. Add "-U-AWT" to the end of the catalog number (consists of components assembled watertight).
- * Ultra-Tite available. Add "-U" to the end of the catalog number.

Angle "U" Branch Pieces

(6-1/2" Spacing)



CATALOG NUMBER	DESCRIPTION								
ANGLE "U" BRANCH PIECES - 6-1/2" SPACING ONLY									
UA11-43-65-NL	1" Female Iron Pipe	Х	Two 3/4" Female Iron Pipe Outlets	2.0					
UA18-43-65-NL	1" Female Iron Pipe	Х	Two 3/4" Male Iron Pipe Outlets	1.8					
UA21-43-65-NL	1" Flare Copper	Х	Two 3/4" Female Iron Pipe Outlets	2.5					
UA28-43-65-NL	1" Flare Copper	Х	Two 3/4" Male Iron Pipe Outlets	2.2					
ANGLE "U" BRANCH PIECES WITH PACK JOINT INLET FOR COPPER OR PLASTIC TUBING (CTS									
► UA41-43-65-NL	1" CTS P.J.	Х	Two 3/4" Female Iron Pipe Outlets	2.2					
► UA48-43-65-NL	1" CTS P.J.	Х	Two 3/4" Male Iron Pipe Outlets	2.0					

Grip Joint for CTS is available. Add "-G" to the catalog number.

Note: All angle "U" branch pieces have 6-1/2" spacing.

► Ultra-Tite available. Add "-U-AWT" to the end of the catalog number (consists of components assembled watertight).

Section H

Ford Water Meter Couplings and Accessories

Warranty

All merchandise is warranted to be free from defects in material and factory workmanship for one year from date of shipment from our factory. We will provide, free of charge, new products in equal quantities for any that prove defective within one year from date of shipment from our factory. Manufacturer shall not be liable for any loss, damage, or injury, direct or consequential, arising out of the use of or the inability to use the product. Before using, user shall determine the suitability of the product for user's intended use and user assumes all risk and liability whatever in connection therewith. No claims for labor or consequential damage will be allowed. The foregoing may not be changed except by agreement signed by an officer of the manufacturer.

No other warranties are applicable or may be implied, including the implied warranty of merchantability and the implied warranty of fitness for particular purpose and any warranty relating to infringement or the like, all of which are disclaimed.

Please Note:

Consult the Ford Meter Box Company, Inc. website (www.fordmeterbox.com) for the most recent catalog information. The Ford Meter Box Company considers the information in this catalog to be correct at the time of publication. Items and option availability, including specifications, are subject to change without notice. Please verify that your product information is current.

