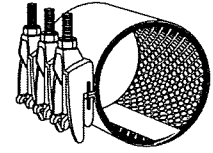


# SUBMITTAL INFORMATION

## Repair Clamps - (F1-xxx-length-E3 style)



### 2" TO 4" STAINLESS STEEL REPAIR CLAMPS WITH EPOXY-COATED DUCTILE IRON LUGS

#### Optional Stainless Taps

ASTM A240 type 304 stainless steel  
TIG welded to band. Available  
with AWWA, or I.P. threads.

#### Band

ASTM A240 type  
304 stainless  
steel

#### Lugs

Ductile Iron per ASTM A536  
Finish: Epoxy applied via the e-coat process

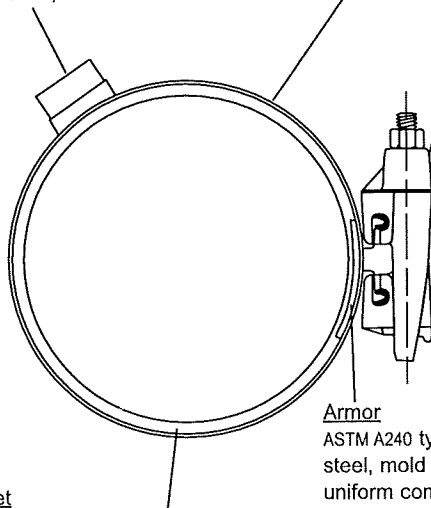


#### Nuts and Bolts

Low alloy steel per ASTM  
A242 and AWWA  
C111/A21.11

#### Optional

304 Stainless Steel Bolts  
and Nuts

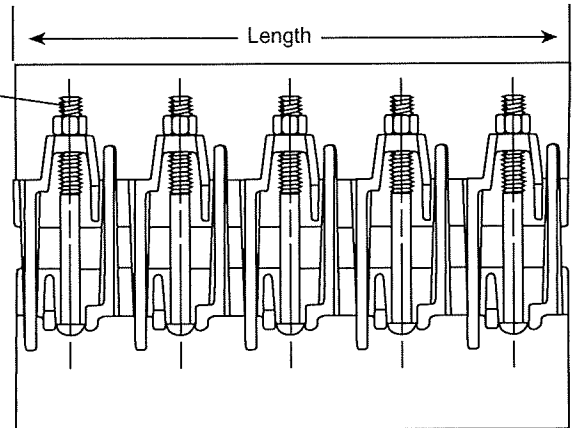


#### Armor

ASTM A240 type 304 heavy gauge stainless  
steel, mold bonded into the gasket to insure  
uniform compression against the pipe

#### Gasket

Gridded Virgin SBR compounded for  
water service, per ASTM D2000. Buna-N,  
Nitrile, is available as optional material.



#### OUTLET THREAD TAP CODE

CC (AWWA) Thread			IP Thread		
THREAD	CODE NUMBER	MIN. CLAMP SZ.	THREAD	CODE NUMBER	MIN. CLAMP SZ.
3/4" CC	-CC3	2.63	3/4" IP	-IP3	2.63
1" CC	-CC4	2.63	1" IP	-IP4	2.63
1-1/4" CC	-CC5	3.70	1-1/4" IP	-IP5	3.70
1-1/2" CC	-CC6	4.25	1-1/2" IP	-IP6	3.70
2" CC	-CC7	4.73	2" IP	-IP7	4.25

NOM. PIPE SIZE	PIPE O.D. RANGE	LENGTH AND APPROXIMATE WEIGHT (LBS.)						BOLT SIZE	BAND THICKNESS	CATALOG NUMBER F1-XXX-LENGTH-E3	✓ SUBMITTED ITEM(S)
		7.5"	10"	12.5"	15"	20"	30"				
2"	2.35 - 2.63	7	9	12	14	n/a	n/a	5/8" x 6-1/2"	24 GA.	F1-263-	
2-1/4" - 2-1/2"	2.70 - 3.00	7	10	12	14	n/a	n/a			F1-300-	
3"	2.97 - 3.25	8	10	12	14	n/a	n/a			F1-325-	
	3.46 - 3.70									F1-370-	
	3.73 - 4.00									F1-400-	
3" - 4"	3.96 - 4.25	8	11	13	15	n/a	n/a			F1-425-	
	4.45 - 4.73									F1-473-	
	4.74 - 5.14									F1-514-	
4"	4.95 - 5.35	11	15	18	22	29	44		24 GA.	F1-535-	
	5.22 - 5.62									F1-562-	
Number of Bolts		3	4	5	6	8	12				

#### FEATURES

- Drop-in bolt design allows bolts to remain attached - no loose parts to lose in the ditch.
- Also available in two- and three- section clamps for a wider range of pipe sizes and tolerances.
- Optional Outlet Taps are available for repair of service line pull-outs. Add tapping code to catalog number.
- All welds are fully passivated to restore corrosion resistant characteristics of stainless steel.
- Removable Lugs, epoxy coated via the e-coat process
- UL Classified to ANSI/NSF Standard 61

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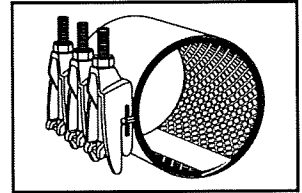
**The Ford Meter Box Company, Inc.**  
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Overseas Fax: 260-563-0167  
<http://www.fordmeterbox.com>

08/01/12

Submitted By:

# SUBMITTAL INFORMATION

## Repair Clamps - (F1-xxx-length-E3 style)



### 6" TO 8" STAINLESS STEEL REPAIR CLAMPS WITH EPOXY-COATED DUCTILE IRON LUGS



#### Optional Stainless Taps

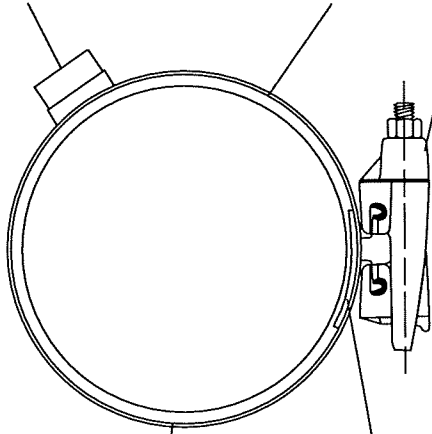
ASTM A240 type 304 stainless steel TIG welded to band. Available with AWWA, or I.P. threads.

#### Band

ASTM A240 type 304 stainless steel

#### Lugs

Ductile Iron per ASTM A536  
Finish: Epoxy applied via the e-coat process

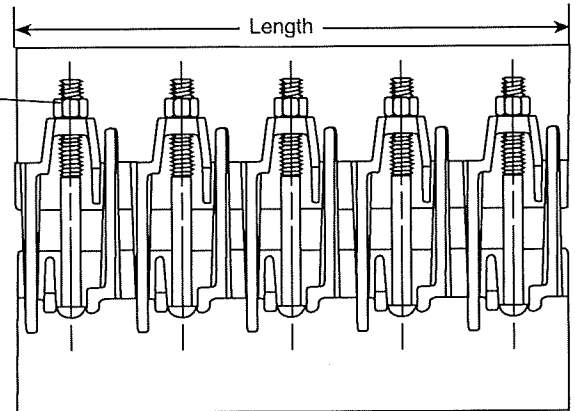


#### Nuts and Bolts

Low alloy steel per ASTM A242 and AWWA C111/A21.11

#### Optional

304 Stainless Steel Bolts and Nuts



#### Gasket

Gridded Virgin SBR compounded for water service, per ASTM D2000. Buna-N, Nitrile, is available as optional material.

#### Armor

ASTM A240 type 304 heavy gauge stainless steel, mold bonded into the gasket to insure uniform compression against the pipe

#### OUTLET THREAD TAP CODE

CC (AWWA) THREAD		IP THREAD	
THREAD	CODE NUMBER	THREAD	CODE No.
3/4" CC	-CC3	3/4" IP	-IP3
1" CC	-CC4	1" IP	-IP4
1-1/4" CC	-CC5	1-1/4" IP	-IP5
1-1/2" CC	-CC6	1-1/2" IP	-IP6
2" CC	-CC7	2" IP	-IP7

NOM. PIPE SIZE	PIPE O.D. RANGE	LENGTH AND APPROXIMATE WEIGHT (LBS.)						BOLT	BAND	CATALOG NUMBER	✓ SUBMITTED
		7.5"	10"	12.5"	15"	20"	30"	SIZE	THICKNESS	F1-xxx-LENGTH-E3	ITEM(s)
6"	5.95 - 6.35	12	16	20	24	32	48	5/8" x 6-1/2"	20 GA.	F1-635-	
	6.56 - 6.96									F1-696-	
	6.84 - 7.24									F1-724-	
	7.05 - 7.45									F1-745-	
	7.45 - 7.85									F1-785-	
8"	7.95 - 8.35	14	19	23	28	37	55			F1-835-	
	8.00 - 8.40									F1-840-	
	8.54 - 8.94									F1-894-	
	8.99 - 9.39									F1-939-	
	9.27 - 9.67	15	20	25	29	38	58			F1-967-	
	9.70 - 10.10									F1-1010-	
	Number of Bolts		3	4	5	6	8	12			

#### FEATURES

- Drop-in bolt design allows bolts to remain attached - no loose parts to lose in the ditch
- Also available in two- and three- section clamps for a wider range of pipe sizes and tolerances
- Optional Outlet Taps are available for repair of service line pull-outs. Add tapping code to catalog number
- All welds are fully passivated to restore corrosion resistant characteristics of stainless steel
- Removable lugs, epoxy coated via the e-coat process
- UL Classified to ANSI/NSF Standard 61

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#### The Ford Meter Box Company, Inc.

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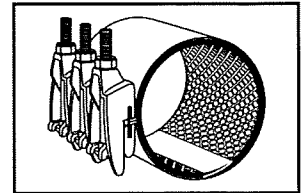
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08/01/12

Submitted By:

# SUBMITTAL INFORMATION

## Repair Clamps - (F1-xxxx-length-E3 style)

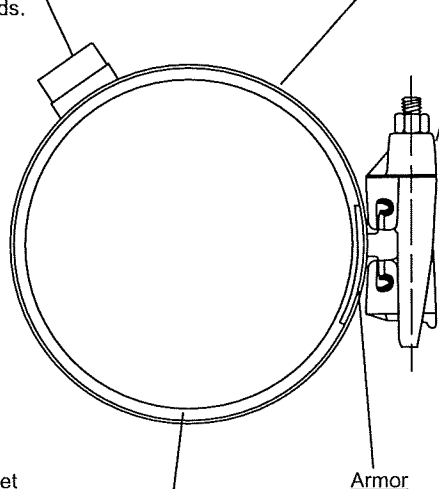


### 10" AND 12" STAINLESS STEEL REPAIR CLAMPS WITH EPOXY-COATED DUCTILE IRON LUGS

**Optional Stainless Taps**  
ASTM A240 type 304 stainless steel TIG welded to band. Available with AWWA, or I.P. threads.

**Band**  
ASTM A240 type 304 stainless steel

**Lugs**  
Ductile Iron per ASTM A536  
Finish: Epoxy applied via the e-coat process

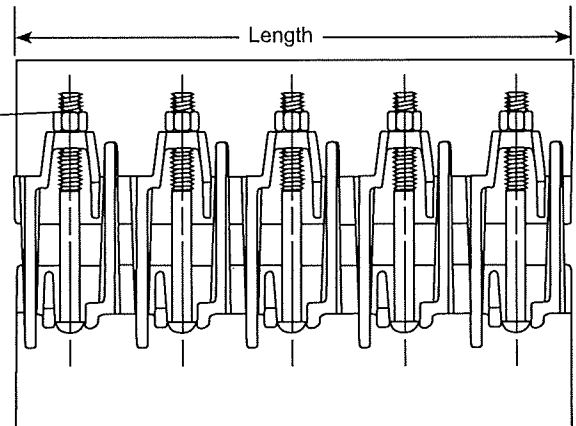


**Gasket**  
Gridded Virgin SBR compounded for water service, per ASTM D2000. Buna-N, Nitrile, is available as optional material.

**Armor**  
ASTM A240 type 304 heavy gauge stainless steel, mold bonded into the gasket to insure uniform compression against the pipe

**Nuts and Bolts**  
Low alloy steel per ASTM A242 and AWWA C111/A21.11

**Optional**  
304 Stainless Steel Bolts and Nuts



#### OUTLET THREAD TAP CODE

CC (AWWA) Thread		IP Thread	
THREAD	CODE NUMBER	THREAD	CODE No.
3/4" CC	-CC3	3/4" IP	-IP3
1" CC	-CC4	1" IP	-IP4
1-1/4" CC	-CC5	1-1/4" IP	-IP5
1-1/2" CC	-CC6	1-1/2" IP	-IP6
2" CC	-CC7	2" IP	-IP7

NOM. PIPE SIZE	PIPE O.D. RANGE	LENGTH AND APPROXIMATE WEIGHT (LBS.)						BOLT SIZE	BAND THICKNESS	CATALOG NUMBER F1-XXXX-LENGTH-E3	✓ SUBMITTED ITEM(S)
		7.5"	10"	12.5"	15"	20"	30"				
10"	10.10 - 10.50	16	21	26	31	41	62	5/8" x 6-1/2"	20 GA.	F1-1050-	
	10.64 - 11.04									F1-1104-	
	11.04 - 11.44									F1-1144-	
	11.34 - 11.74									F1-1174-	
	11.75 - 12.15									F1-1215-	
12"	12.00 - 12.40	17	22	28	33	44	67			F1-1240-	
	12.10 - 12.50									F1-1250-	
	12.62 - 13.02									F1-1302-	
	13.10 - 13.50									F1-1350-	
	13.40 - 13.80	18	23	29	35	46	70			F1-1380-	
	13.70 - 14.10									F1-1410-	
	14.00 - 14.40									F1-1440-	
Number of Bolts		3	4	5	6	8	12				

#### FEATURES

- Drop-in bolt design allows bolts to remain attached - no loose parts to lose in the ditch
- Also available in two- and three- section clamps for a wider range of pipe sizes and tolerances
- Optional Outlet Taps are available for repair of service line pull-outs. Add tapping code to catalog number
- All welds are fully passivated to restore corrosion resistant characteristics of stainless steel
- Removable lugs, epoxy coated via the e-coat process
- UL Classified to ANSI/NSF Standard 61

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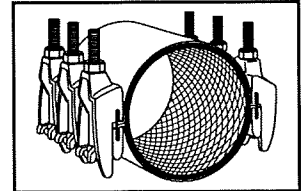
**The Ford Meter Box Company, Inc.**  
P.O. Box 443, Wabash, Indiana U.S.A. 46992-0443  
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Overseas Fax: 260-563-0167  
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08/01/12

Submitted By:

# SUBMITTAL INFORMATION

## Repair Clamps - (F2-xxx-length-E3-N style)



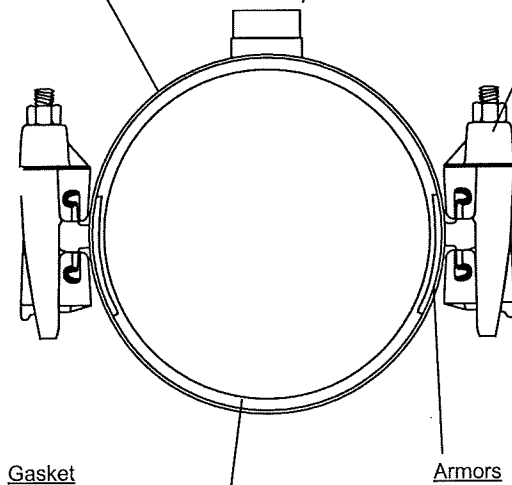
### 4" TO 8" - TWO SECTION STAINLESS STEEL REPAIR CLAMPS WITH EPOXY-COATED DUCTILE IRON LUGS

**Band**  
18-8 type 304 stainless steel

**Optional Stainless Taps**  
18-8 type 304 stainless steel TIG welded to band. Available with AWWA, or I.P. threads.

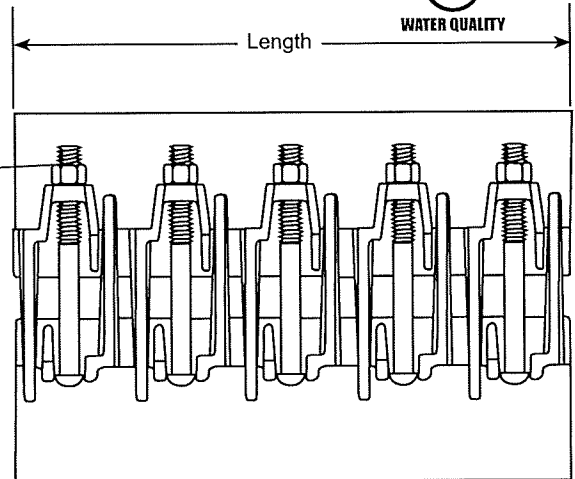
**Lugs**  
Ductile Iron per ASTM A536  
Finish: Epoxy applied via the e-coat process.  
Note: Lug set on one side of clamp will be closed style. Lug set on other side will consist of one open and one closed style.

**Nuts and Bolts**  
Low alloy steel per ASTM A242 and AWWA C111



**Gasket**  
Gridded NBR compounded for water service, per ASTM D2000.

**Armors**  
Heavy gage 18-8 type 304 stainless steel, are mold bonded into the gasket to insure uniform compression against the pipe.



#### OPTIONAL OUTLET THREAD TAP CODE

CC (AWWA) Thread		IP Thread	
THREAD	CODE NUMBER	THREAD	CODE NUMBER
3/4" CC	-CC3	3/4" IP	-IP3
1" CC	-CC4	1" IP	-IP4
1-1/4" CC	-CC5	1-1/4" IP	-IP5
1-1/2" CC	-CC6	1-1/2" IP	-IP6
2" CC	-CC7	2" IP	-IP7

NOM. PIPE SIZE	PIPE O.D. RANGE	LENGTH AND APPROXIMATE WEIGHT (LBS.)						BOLT SIZE	BAND THICKNESS	CATALOG NUMBER ADD LENGTH	✓ SUBMITTED ITEM(S)
		7.5"	10"	12.5"	15"	20"	30"				
4"	*4.45 - 5.25	20	27	32	40	53	80	5/8" x 6-1/2"	20 GA	*F2-525-xxx-E3-N	
	4.74 - 5.57									F2-557-xxx-E3-N	
4" Special	4.45 - 5.60		27		40	53	80			F2W-560-xxx-E3-N	
	6.62 - 7.42									F2-742-xxx-E3-N	
6"	6.84 - 7.64	22	29	36	43	57	86			F2-764-xxx-E3-N	
	7.60 - 8.40									F2-840-xxx-E3-N	
8"	8.62 - 9.42	23	29	38	46	61	92			F2-942-xxx-E3-N	
	8.99 - 9.79									F2-979-xxx-E3-N	
Number of Bolts		6	8	10	12	16	24				

\* 1-1/2" Outlet Tap is the largest available on this size clamp.

#### FEATURES

- Drop-in bolt design allows bolts to remain attached - no loose parts to lose in the ditch
- Optional outlet taps are available for repair of service line pull-outs. Add tapping code to catalog number
- All welds are fully passivated to restore corrosion resistant characteristics of stainless steel
- Removable lugs, epoxy-coated via the e-coat process
- UL Classified to ANSI/NSF Standard 61

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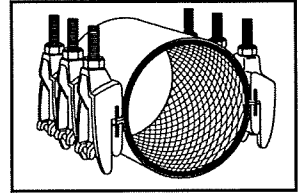
**The Ford Meter Box Company, Inc.**  
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09/16/16

Submitted By:

# SUBMITTAL INFORMATION

## Repair Clamps - (F2-xxxx-length-BBN style)



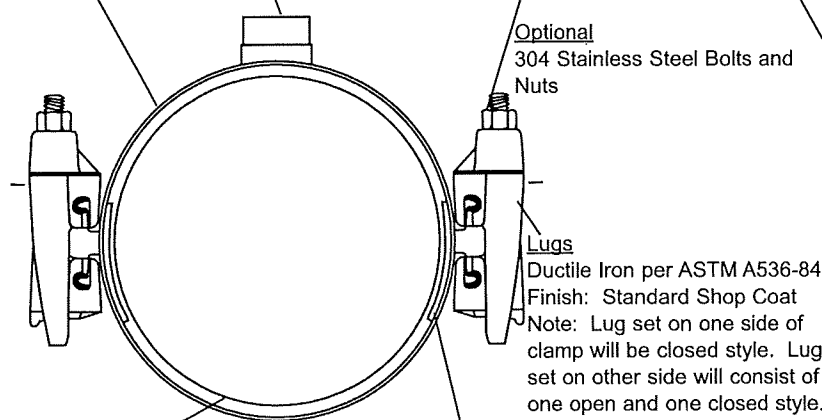
### 10" AND 12" TWO SECTION STAINLESS STEEL REPAIR CLAMPS WITH DUCTILE IRON LUGS AND BLUE FLUOROCARBON-COATED ACCESSORIES

**Band**  
18-8 type 304 stainless steel

**Optional Stainless Taps**  
18-8 type 304 stainless steel TIG welded to band. Available with AWWA, or I.P. threads.

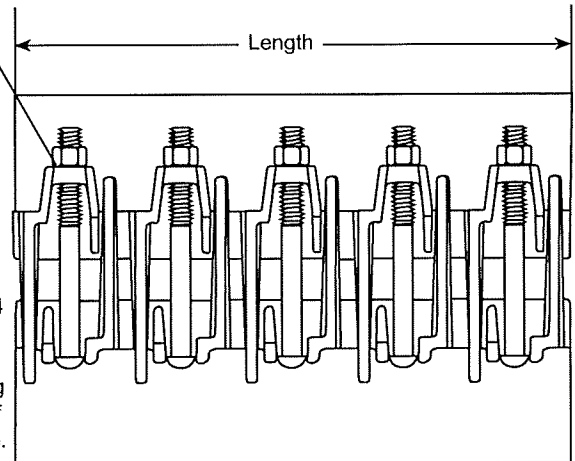
**Nuts and Bolts**  
Blue fluorocarbon-coated low alloy steel per ASTM A242-91a and AWWA C111/A21.11-95

**Optional**  
304 Stainless Steel Bolts and Nuts



**Gasket**  
Gridded Virgin SBR compounded for water service, per ASTM D2000. Buna-N, Nitrile, is optional.

**Armors**  
Heavy gage 18-8 type 304 stainless steel, are mold bonded into the gasket to insure uniform compression against the pipe.



CC (AWWA) Thread		IP Thread	
THREAD	CODE NUMBER	THREAD	CODE No.
3/4" CC	-CC3	3/4" IP	-IP3
1" CC	-CC4	1" IP	-IP4
1-1/4" CC	-CC5	1-1/4" IP	-IP5
1-1/2" CC	-CC6	1-1/2" IP	-IP6
2" CC	-CC7	2" IP	-IP7

NOM. PIPE SIZE	PIPE O.D. RANGE	LENGTH AND APPROXIMATE WEIGHT (LBS.)						BOLT SIZE	BAND THICKNESS	CATALOG NUMBER ADD LENGTH	✓ SUBMITTED ITEM(S)
		7.5"	10"	12.5"	15"	20"	30"				
10"	10.70 - 11.50	24	30	42	46	69	98	5/8" x 6-1/2"	20 GA	F2-1150-	
	11.04 - 11.84									F2-1184-	
	11.60 - 12.40									F2-1240-	
*10" Special	11.04 - 12.24	X	48	X		71	95	3/4" x 8-1/2"	18 GA	F2-1224-	
12"	12.70 - 13.50	27	30	44	47	70	100	5/8" x 6-1/2"	20 GA	F2-1350-	
	13.14 - 13.94									F2-1394-	
	13.65 - 14.45									F2-1445-	
*12" Special	13.14 - 14.34	X	50	X		75	98	3/4" x 8-1/2"	18 GA	F2-1434-	
Number of Bolts		6	8	10	12	16	18				

### FEATURES

- Drop-in bolt design allows bolts to remain attached - no loose parts to lose in the ditch.
- Optional outlet taps are available for repair of service line pull-outs. Add tap code to catalog number.
- All welds are fully passivated to restore corrosion resistant characteristics of stainless steel.
- Removable lugs are standard \*(except 10" special and 12" special - removable lugs are optional).
- Blue fluorocarbon-coated high strength low alloy steel per ASTM A242 or AWWA C111.

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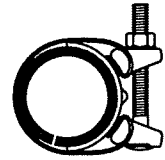
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07/02/14

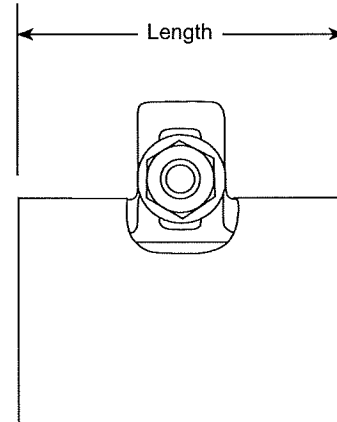
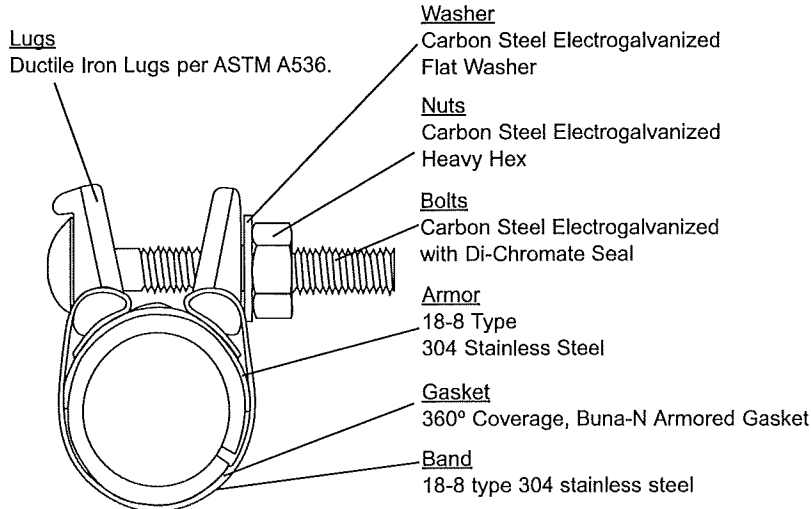
Submitted By:

# SUBMITTAL INFORMATION

## Wrap Clamps - (FSC-xxx-xR style)



### STAINLESS STEEL REPAIR CLAMPS WITH FULL WRAP GASKETS



NOM. PIPE SIZE	PIPE O.D. RANGE	LENGTH AND APPROXIMATE WEIGHT (LBS.)		BOLT SIZE	CATALOG NUMBER	✓ SUBMITTED ITEM(S)
		3"	6"			
1/2"	0.625	.74	N/A	3/8"X3-1/2"	FSC-063-3R	
	0.84	.70	-		FSC-084-3R	
		-	1.42		FSC-084-6R	
3/4"	0.875	.70	-		FSC-088-3R	
		-	1.41		FSC-088-6R	
	1.05	.78	-		FSC-105-3R	
		-	1.56		FSC-105-6R	
1"	1.125	.76	-		FSC-113-3R	
		-	1.52		FSC113-6R	
	1.32	.76	-		FSC-132-3R	
		-	1.58		FSC-132-6R	
1-1/4"	1.375	0.83	-		FSC-138-3R	
		-	1.55		FSC138-6R	
	1.66	.92	-		FSC-166-3R	
		-	1.87		FSC-166-6R	
1-1/2"	1.625	.94	-		FSC-163-3R	
		-	1.90		FSC163-6R	
	1.90	1.03	-		FSC-190-3R	
		-	2.04		FSC-190-6R	
2"	2.125	1.60	-	7/16"x4"	FSC-213-3R	
		-	3.20		FSC-213-6R	
	2.38	1.48	-		FSC-238-3R	
		-	2.96		FSC-238-6R	
Bolt Quantity		1	2			

### FEATURES AND OPTIONS

- Drop-in bolt design allows bolts to remain attached - no loose parts to lose in the ditch
- Gaskets are light-grid design and extend lug to lug
- Stainless Steel hardware is optional. Add "-SH" to the end of the catalog number

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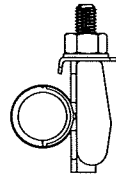
**The Ford Meter Box Company, Inc.**  
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<http://www.fordmeterbox.com>

11/16/10

Submitted By:

# SUBMITTAL INFORMATION

## Small Repair Clamps - (FSC1-xxx-xR style)



### STAINLESS STEEL REPAIR CLAMPS WITH FULL WRAP GASKETS

#### Lugs & Lifter Bar

ASTM A240 type 304 heavy gauge 304 stainless steel

#### Nuts & Washers

ASTM A240 type 304 stainless steel nuts and washers. Nuts are coated to prevent galling

#### Studs

ASTM A240 type 304 stainless steel

#### Armor

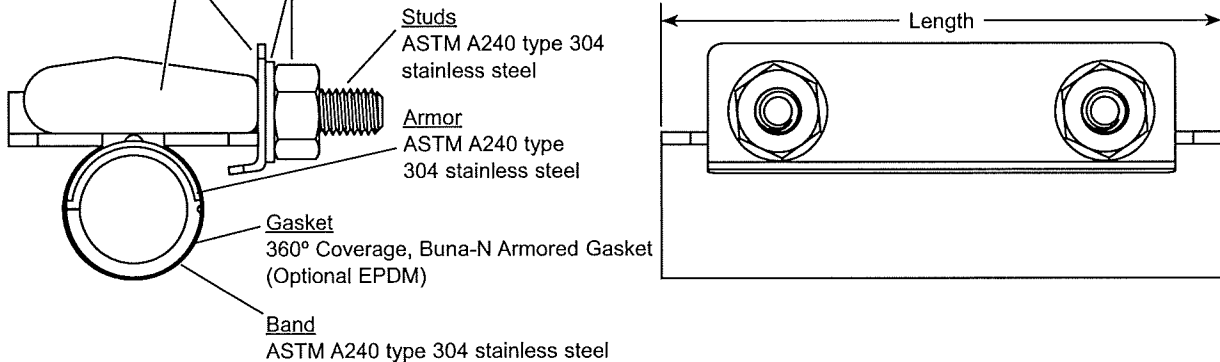
ASTM A240 type 304 stainless steel

#### Gasket

360° Coverage, Buna-N Armored Gasket (Optional EPDM)

#### Band

ASTM A240 type 304 stainless steel



NOM. PIPE SIZE	PIPE O.D. RANGE	LENGTH AND APPROXIMATE WEIGHT (LBS.)		BOLT SIZE	CATALOG NUMBER	✓ SUBMITTED ITEM(S)
		3"	6"			
1/2"	0.625	.74	-	3/8"x3-1/2"	FSC1-063-3R	
		-	1.42		FSC1-063-6R	
3/4"	0.84	.70	-		FSC1-084-3R	
		-	1.42		FSC1-084-6R	
	0.875	.70	-		FSC1-088-3R	
		-	1.41		FSC1-088-6R	
1"	1.05	.78	-		FSC1-105-3R	
		-	1.56		FSC1-105-6R	
	1.125	.76	-		FSC1-113-3R	
		-	1.52		FSC1-113-6R	
1-1/4"	1.32	.76	-		FSC1-132-3R	
		-	1.58		FSC1-132-6R	
	1.375	0.83	-		FSC1-138-3R	
		-	1.55		FSC1-138-6R	
1-1/2"	1.66	.92	-		FSC1-166-3R	
		-	1.87		FSC1-166-6R	
	1.625	.94	-		FSC1-163-3R	
		-	1.90		FSC1-163-6R	
2"	1.90	1.03	-		FSC1-190-3R	
		-	2.04		FSC1-190-6R	
	2.125	1.60	-	7/16"x4"	FSC1-213-3R	
		-	3.20		FSC1-213-6R	
2"	2.38	1.48	-		FSC1-238-3R	
		-	2.96		FSC1-238-6R	
Bolt Quantity		1	2			

### FEATURES AND OPTIONS

- All welds are fully passivated to restore corrosion resistant characteristics of stainless steel
- Lifter bar assists user by providing more leverage in difficult to reach areas
- EPDM gasket or type 316 stainless steel optional

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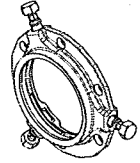
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11/12/15

Submitted By:

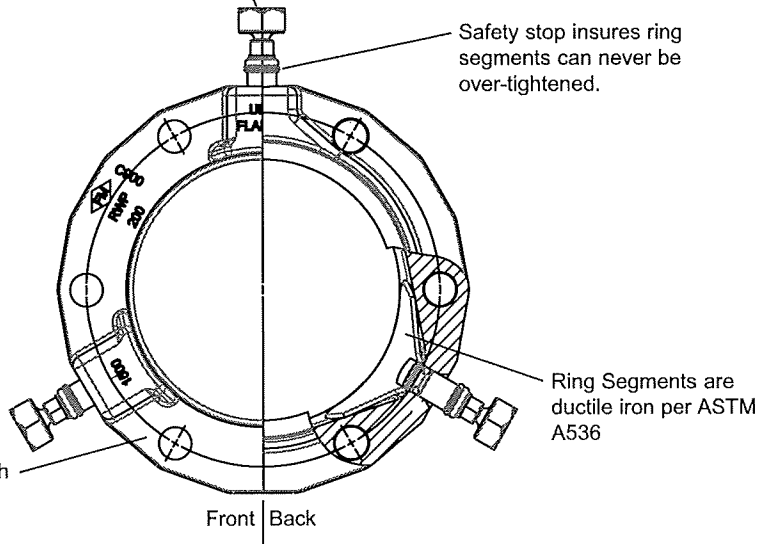
# SUBMITTAL INFORMATION

## Mechanical Joint Retainer (UFR1500R-x-I style)

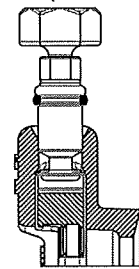


### 3" - 6" SERIES UFR1500R RAPID INSTALL CIRCLE-LOCK MECHANICAL JOINT RESTRAINT FOR C900 AND IPS PVC

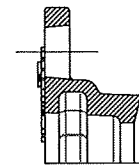
Ductile iron actuating screw, with the Auto-Tork break-away head design, insures proper torque during installation.



Auto-Tork Bolt



Restraint Segment



Bolt Hole Cross Section

NOM. PIPE SIZE	O.D.	CATALOG NUMBER	NO. OF RESTRAINT SEGMENTS	APPROX. WEIGHT (LBS.)	P1*	P2**		BC	D	PRESSURE RATING					✓ SUBMITTED ITEM(S)
						C900	IPS			C900			ASTM D2241		
										DR-14	DR-18	DR-25	SDR-21	SDR-26	
3"	3.50	UFR1500R-3-I	2	7.00	11.50"	-	9.00"	6.19"	4.06"	-	-	-	200 PSI	160 PSI	
4"	4.50"-4.80"	UFR1500R-4-I	2	8.06	13.00"	10.25"	9.25"	7.50"	4.90"	305 PSI	235 PSI	165 PSI	200 PSI	160 PSI	
6"	6.63"-6.90"	UFR1500R-6-I	3	11.37	15.13"	12.17"	11.90"	9.50"	7.00"	305 PSI	235 PSI	165 PSI	200 PSI	160 PSI	

\*Maximum O.D. of gland on pipe before Auto-Tork heads are removed (as shipped).

\*\*Maximum O.D. of gland on pipe after Auto-Tork heads are removed.

### FEATURES

- Fits C900 PVC and ASTM D2241 IPS PVC
- "Auto-Tork" actuating screws with heads specially designed to twist off at the correct installation torque, leaving a hex head in case future system maintenance or removal is required
- Restraining segments are mechanically retained in pockets
- Series 1500 eliminates the need to pour expensive and time consuming concrete thrust blocks
- UL listed and FM approved for use on listed and approved C900 PVC pipe
- Not approved for use on C909 PVC
- Imported ductile iron castings
- Gland, screws and segments are black epoxy coated using the e-coat process
- Gland colored red for identification purposes
- Assembled, inspected and packaged in the U.S.A.

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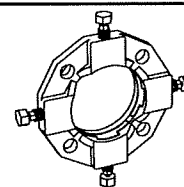
11/05/12

Submitted By:



# SUBMITTAL INFORMATION

## Mechanical Joint Retainer (UFR1500-x-I style)

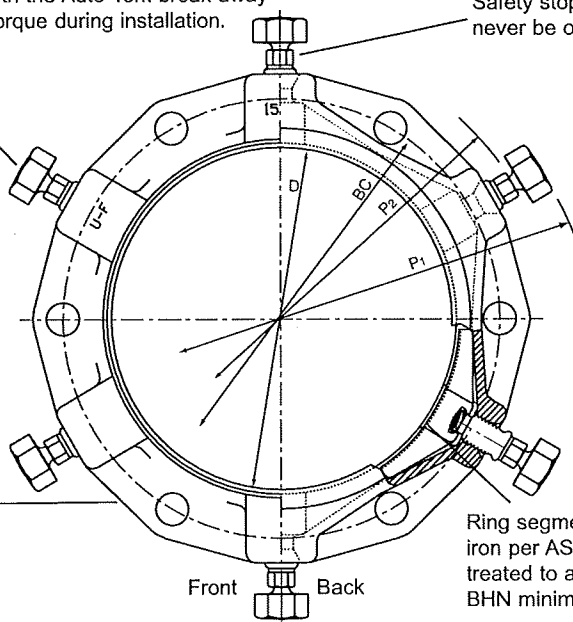


### 3" - 12" SERIES UFR1500 CIRCLE-LOCK MECHANICAL JOINT RESTRAINT FOR C900, C909 AND IPS PVC

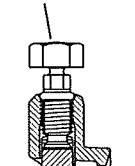
Ductile iron actuating screw, with the Auto-Tork break-away head design, ensures proper torque during installation.

Safety stop ensures ring segments can never be over-tightened.

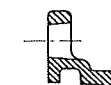
Gland body is of high strength ductile iron per ASTM A536, grade 65-45-12. Compatible with all mechanical joints conforming to ANSI / AWWA C111 / A21.11.



Auto-Tork Bolt



Restraint Segment



Bolt Hole Cross Section

Ring segments are ductile iron per ASTM A536 and heat treated to a hardness of 370 BHN minimum.

NOM. PIPE SIZE	O.D.	CATALOG NUMBER	NO. OF RESTRAINT SEGMENTS	APPROX. WEIGHT (LBS.)	P1*	P2**		BC	D	PRESSURE RATING					✓ SUBMITTED ITEM(S)
						C900 C909	IPS			C900		C909	ASTM D2241		
										DR-18	DR-14	PC-235	SDR-26	SDR-21	
3"	3.50"	UFR1500-3-I	4	9	11.50"	-	9.00"	6.19"	4.06"	-	-	-	160 PSI	200 PSI	
4"	4.50"-4.80"	UFR1500-4-I	4	10	13.00"	9.40"	9.25"	7.50"	4.90"	235 PSI	305 PSI	-	160 PSI	200 PSI	
6"	6.63"-6.90"	UFR1500-6-I	6	14	15.13"	11.60"	11.65"	9.50"	7.00"	235 PSI	305 PSI	235 PSI	160 PSI	200 PSI	
8"	8.63"-9.05"	UFR1500-8-I	6	18	17.25"	13.75"	13.60"	11.75"	9.15"	235 PSI	305 PSI	235 PSI	160 PSI	200 PSI	
10"	10.75"-11.10"	UFR1500-10-I	8	25	19.38"	16.00"	15.85"	14.00"	11.20"	235 PSI	305 PSI	235 PSI	160 PSI	200 PSI	
12"	12.75"-13.20"	UFR1500-12-I	8	29	21.50"	18.05"	17.85"	16.25"	13.30"	235 PSI	305 PSI	235 PSI	160 PSI	200 PSI	

\*Maximum O.D. of gland on pipe before Auto-Tork heads are removed (as shipped).

\*\*Maximum O.D. of gland on pipe after Auto-Tork heads are removed.

## FEATURES

- Fits C900, C909 and ASTM D2241 IPS PVC
- Full circle contact and support of the pipe wall
- "Auto-Tork" actuating screws with heads specially designed to twist off at the correct installation torque, leaving a hex head in case future system maintenance or removal is required
- Restraining segments are mechanically retained in pockets
- Series 1500 eliminates the need to pour expensive and time consuming concrete thrust blocks
- Series 1500 UL/FM approved, 4"-12" nominal size C900 PVC, for use on listed and approved PVC pipe
- Imported ductile iron castings
- Gland, screws and segments are protected with black Armorguard e-coat
- Gland colored red for identification purposes
- Assembled, inspected and packaged in the U.S.A.

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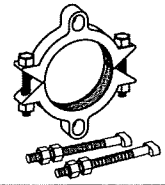


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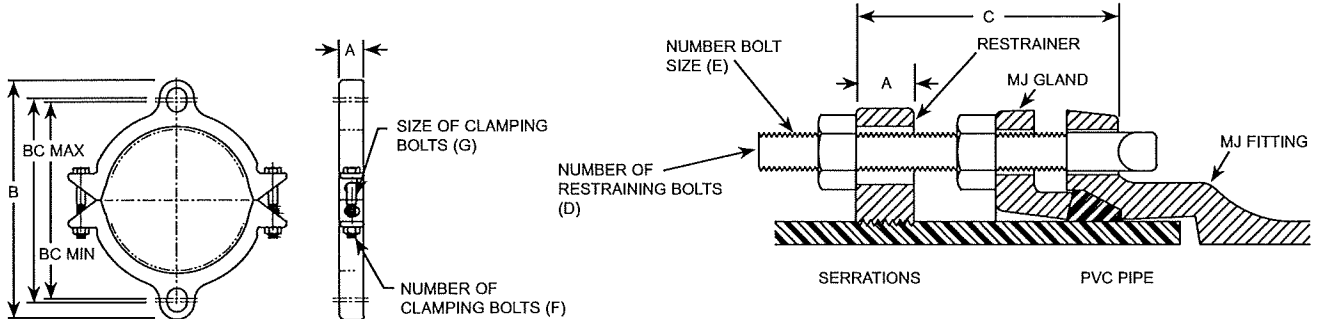
Submitted By:

# SUBMITTAL INFORMATION

## Restrainer (UFR1300-C-x-I style)



SERIES 1300-C 4" - 12" RESTRAINT DEVICE FOR C900 PVC PIPE, C906 HDPE AND DUCTILE IRON PIPE  
USED WITH MECHANICAL JOINT / PUSH-ON FITTINGS



NOM PIPE SIZE	PVC PIPE WITH DUCTILE IRON PIPE OD STYLE 1300-C		A	B APPROX.	C MAX	RESTRAINING BOLTS		CLAMPING BOLTS		BC MAX	BC MIN	APPROX. WT. LBS.	✓SUBMITTED ITEM(S)
	OD	CATALOG No.				No. D	SIZE E	No. F	SIZE G				
4"	4.80	UFR1300-C-4-I	1-1/8"	9-1/8"	6"	2	3/4" x 7"	2	5/8" x 3-1/2"	7.50"	7.14"	8.5	
6"	6.90	UFR1300-C-6-I	1-1/8"	11-1/8"	6"	2	3/4" x 7"	2	5/8" x 3-1/2"	9.50"	9.14"	10.0	
8"	9.05	UFR1300-C-8-I	1-1/4"	13-7/8"	6"	2	3/4" x 7"	2	3/4" x 4"	12.98"	11.36"	15.5	
10"	11.10	UFR1300-C-10-I	1-3/8"	16-5/8"	6"	4	3/4" x 7"	2	7/8" x 5"	15.00"	13.50"	26.5	
12"	13.20	UFR1300-C-12-I	1-3/8"	19-1/4"	6"	4	3/4" x 7"	2	7/8" x 5"	17.62"	15.62"	28.5	

### FEATURES

- 4" - 12" sizes: cast ductile iron per ASTM A536 grade 65-45-12
- Black e-coat epoxy coating
- 360° contact and support of the pipe wall
- Ideal companion for push-on fittings with restraining ears
- T-Bolts (included) - High strength, low alloy steel ANSI / AWWA C111 / A21.11
- Side Clamping Bolts and Nuts - Grade 5, zinc-plated
- Rated at full-rated pressure of any class of PVC pipe, minimum 2:1 safety factor
- Rated at 250 psi on ductile iron pipe in sizes 4" through 8" and 200 psi in size 10" and 12"
- Rated at full-rated pressure of any class C906 HDPE (provided an insert is used that extends completely beneath the restraint)

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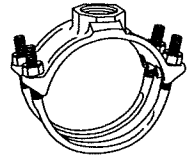


06/27/16

Submitted By:

# SUBMITTAL INFORMATION

## Iron Service Saddles - (F202-xxx-TAP-E-I style)



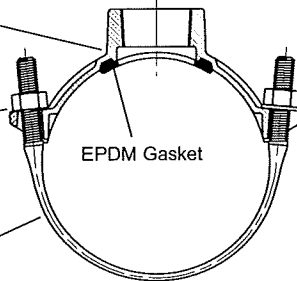
### F202 DOUBLE STRAP IRON SERVICE SADDLES

Finish: Black fusion-bonded epoxy

Closed lug

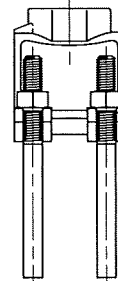
EPDM Gasket

Zinc plated carbon steel strap



Zinc plated steel nuts

Zinc plated washers (open lug side)



NOM. PIPE SIZE	O.D. RANGE	APPROX. WT. LBS.	CATALOG NUMBER	✓ SUBMITTED ITEM(S)
2"	*2.35 - 2.50	2.8	F202-250-TAP-E-I	
2-1/2"	*2.75 - 2.90	2.8	F202-290-TAP-E-I	
3"	**3.46 - 3.80	4.8	F202-380-TAP-E-I	
	**3.80 - 4.25	5.5	F202-425-TAP-E-I	
4"	**4.26 - 4.80	5.4	F202-480-TAP-E-I	
	**4.74 - 5.26	5.4	F202-526-TAP-E-I	
6"	**5.94 - 6.69	6.5	F202-669-TAP-E-I	
	**6.63 - 6.90	6.5	F202-690-TAP-E-I	
	**6.84 - 7.60	6.8	F202-760-TAP-E-I	
8"	*7.93 - 8.71	7.4	F202-871-TAP-E-I	
	8.63 - 9.05	7.4	F202-905-TAP-E-I	
	8.99 - 9.79	8.2	F202-979-TAP-E-I	
10"	10.00 - 10.75	10.4	F202-1075-TAP-E-I	
	10.75 - 11.10	11.5	F202-1110-TAP-E-I	
	11.10 - 12.12	11.5	F202-1212-TAP-E-I	
12"	12.00 - 12.75	12.5	F202-1275-TAP-E-I	
	12.75 - 13.20	12.5	F202-1320-TAP-E-I	
	13.20 - 14.38	12.5	F202-1438-TAP-E-I	

#### OUTLET TAP CODE

##### CC (AWWA) THREAD

THREAD	CODE NUMBER	✓ SUBMITTED ITEM(S)
3/4" CC	CC3	
1" CC	CC4	
1-1/4" CC	Δ CC5	
1-1/2" CC	CC6	
2" CC	CC7	

##### IP THREAD

THREAD	CODE NUMBER	✓ SUBMITTED ITEM(S)
3/4" IP	IP3	
1" IP	IP4	
1-1/4" IP	Δ IP5	
1-1/2" IP	IP6	
2" IP	IP7	
2-1/2" IP	IP8	

Δ Contact factory for availability

I = Imported casting

\* Saddles for this pipe range are only available with 3/4" and 1" taps

\*\* Saddles for this pipe range are not available with 2" CC (CC7) or 2-1/2" IP (IP8) taps.

### FEATURES

- Body made of high strength ductile iron per ASTM A536
- Straps are 5/8" AISI C1010 steel, zinc plated with Di-chromate or Trivalent seal. Each strap has 5/8" flat bearing surface. 1/2" straps are furnished on saddles 3" and smaller
- Gasket is EPDM rubber, ASTM D2000
- Finish on saddle body is fusion-bonded epoxy. Applied per AWWA C213
- UL Classified to ANSI/NSF Standard 61

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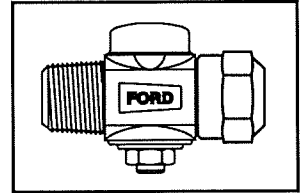
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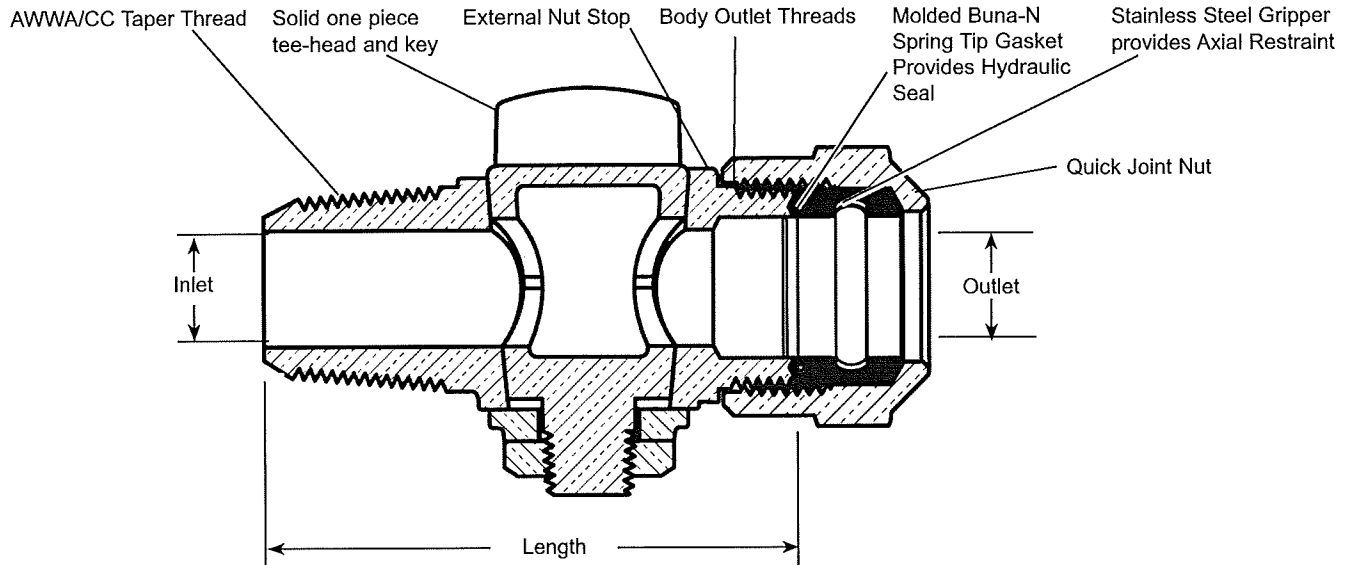
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# SUBMITTAL INFORMATION

## Corporation Stops - (F1000-x-Q-NL style)



AWWA/CC TAPER THREAD INLET BY QUICK JOINT FOR COPPER OR PLASTIC TUBING (CTS) OUTLET



VALVE SIZE	INLET SIZE	OUTLET SIZE	VALVE LENGTH	BODY OUTLET THREADS	APPROX. WT. LBS	PART NUMBER	✓ SUBMITTED ITEM(S)
1/2"	1/2"	1/2"	3-1/8"	1/2" Flare Copper	0.9	F1000-1-Q-NL	
5/8"	5/8"	5/8"	3-3/8"	5/8" Flare Copper	1.4	F1000-2-Q-NL	
3/4"	3/4"	5/8"	3-3/4"	5/8" Flare Copper	1.7	F1000-32-Q-NL	
3/4"	3/4"	3/4"	3-3/4"	3/4" Flare Copper	1.7	F1000-3-Q-NL	
3/4"	3/4"	1"	4-1/16"	1" Flare Copper	1.9	F1000-34-Q-NL	
1"	1"	1"	4-9/16"	1" Flare Copper	2.7	F1000-4-Q-NL	

**Note:** Ford recommends using insert stiffeners with plastic pipe or tubing.

### FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (ASTM B584, UNS C89833)
- The product has the letters "NL" cast into the main body for lead-free identification
- Certified to NSF/ANSI Standard 61 and NSF/ANSI Standard 372 where applicable
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B62 and ASTM B584, UNS C83600, 85-5-5-5)
- Body design provides larger, more rugged wrench flats for proper installation
- Meets 100 PSI working pressure requirement of AWWA Standard C800

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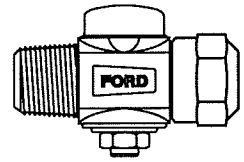
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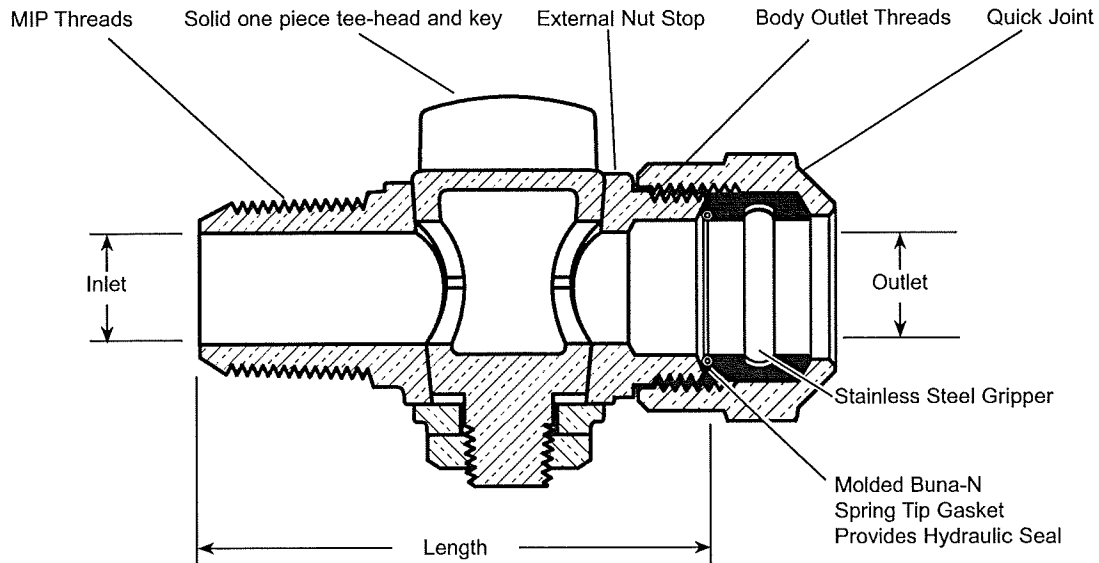
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# SUBMITTAL INFORMATION

## Corporation Stops - (F1100-x-Q-NL style)



MALE IRON PIPE THREAD INLET BY QUICK JOINT FOR COPPER OR PLASTIC TUBING (CTS) OUTLET



VALVE SIZE	INLET SIZE	OUTLET SIZE	VALVE LENGTH	BODY OUTLET THREADS	APPROX. WT. LBS	PART NUMBER	✓ SUBMITTED ITEM(S)
3/4"	3/4"	3/4"	3-3/4"	3/4" Flare Copper	1.7	F1100-3-Q-NL	
1"	1"	1"	4-9/16"	1" Flare Copper	2.7	F1100-4-Q-NL	

**Note:** Ford recommends insert stiffeners when using plastic pipe or tubing.

### FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (UNS NO C89833)
- The product has the letters "NL" cast into the main body for proper identification
- UL Classified to ANSI/NSF Standard 61 and Standard 61 Annex G (NSF/ANSI 372)
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B-62 and ASTM B-584, UNS NO C83600 - 85-5-5-5)
- Body design provides larger, more rugged wrench flats for proper installation
- Meets 100 PSI working pressure requirement of AWWA Standard C800

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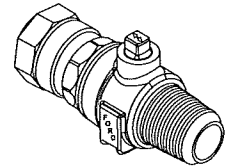
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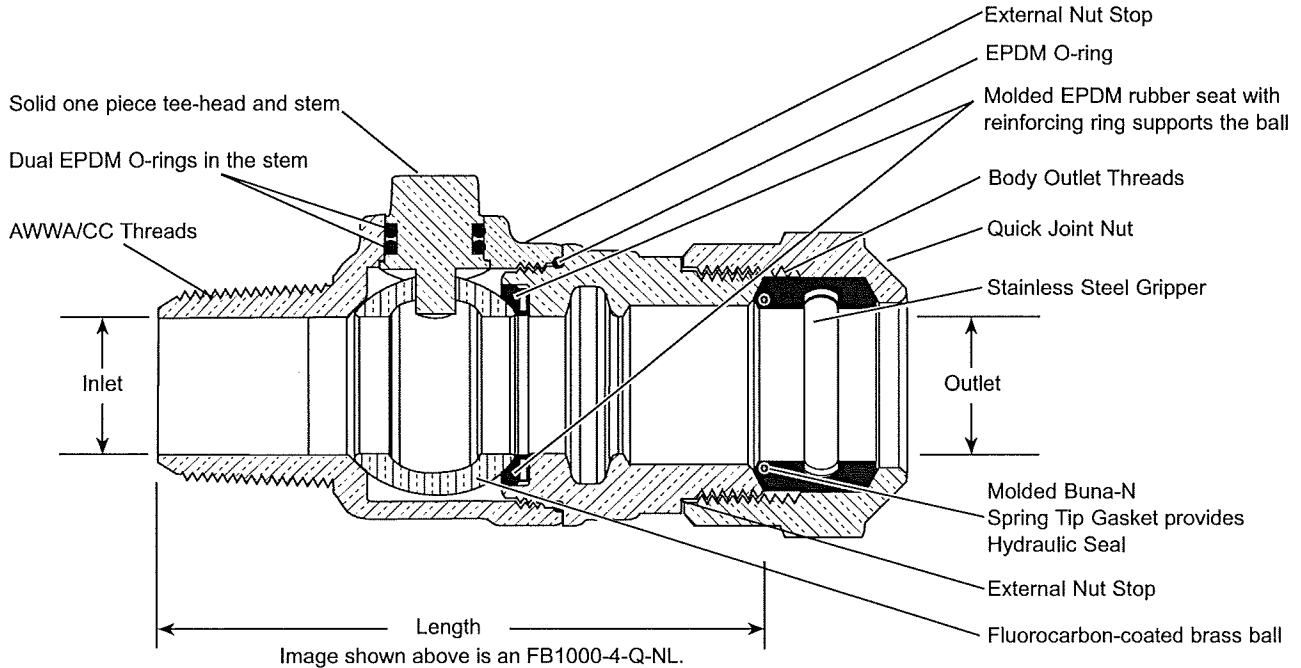
Submitted By:

# SUBMITTAL INFORMATION

## Ballcorp Corporation Stops - (FB1000-xx-Q-NL style)



### AWWA/CC TAPER THREAD INLET BY QUICK JOINT FOR COPPER OR PLASTIC TUBING (CTS) OUTLET



VALVE SIZE	INLET SIZE	OUTLET SIZE	VALVE LENGTH	BODY OUTLET THREADS	APPROX. WT. LBS	PART NUMBER	✓ SUBMITTED ITEM(S)
3/4"	3/4"	3/4"	4-19/64"	3/4" Flare Copper	1.6	FB1000-3-Q-NL	
1"	1"	1"	4-31/64"	1" Flare Copper	2.6	FB1000-4-Q-NL	
1"	1"	1-1/4"	4-5/16"	1-1/4" Special Thread	3.4	*FB1000-45-Q-NL	
1-1/4"	1-1/4"	1-1/4"	5-21/32"	1-1/4" Special Thread	4.3	*FB1000-5-Q-NL	
1-1/2"	1-1/2"	1-1/2"	5-45/64"	1-1/2" Special Thread	5.4	FB1000-6-Q-NL	
2"	2"	2"	7-1/16"	2" Special Thread	8.2	FB1000-7-Q-NL	

**Note:** Ford recommends using insert stiffeners with plastic pipe or tubing.

\* 1-1/4" Quick Joint has EPDM spring tip gasket.

## FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (ASTM B584, UNS C89833)
- The product has the letters "NL" cast into the main body for lead-free identification
- Certified to NSF/ANSI Standard 61 and NSF/ANSI Standard 372 where applicable
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B62 and ASTM B584, UNS C83600, 85-5-5-5)
- Ends are integral or secured with adhesive to prevent unintentional disassembly
- 300 PSI working pressure

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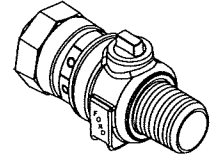
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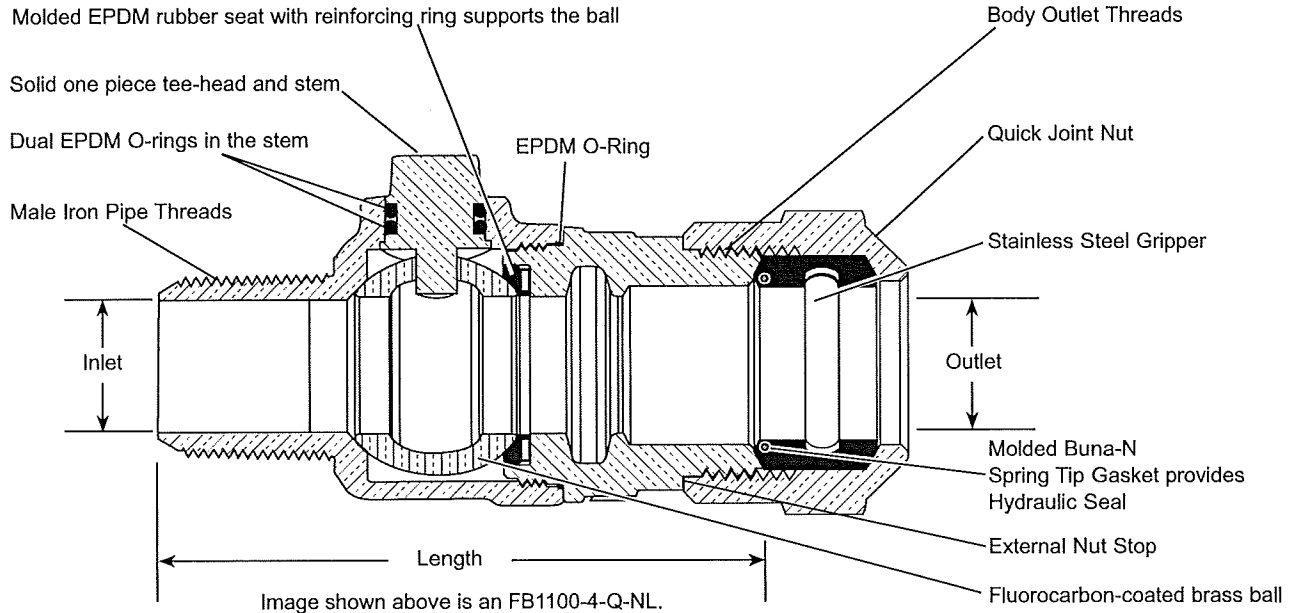
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# SUBMITTAL INFORMATION

## Ballcorp Corporation Stops - (FB1100-xx-Q-NL style)



### MALE IRON PIPE THREAD INLET BY QUICK JOINT FOR COPPER OR PLASTIC TUBING (CTS) OUTLET



VALVE SIZE	INLET SIZE	OUTLET SIZE	VALVE LENGTH	BODY OUTLET THREADS	APPROX. Wt. LBS	PART NUMBER	✓ SUBMITTED ITEM(S)
3/4"	3/4"	3/4"	4-19/64"	3/4" Flare Copper	1.8	FB1100-3-Q-NL	
1"	1"	1"	4-13/64"	1" Flare Copper	2.7	FB1100-4-Q-NL	
1-1/2"	1-1/2"	1-1/2"	5-11/16"	1-1/2" Special Thread	4.9	FB1100-6-Q-NL	
2"	2"	2"	7-1/32"	2" Special Thread	7.9	FB1100-7-Q-NL	

**Note:** Ford recommends using insert stiffeners with plastic pipe or tubing.

\* 1-1/4" Quick Joint has EPDM spring tip gasket.

### FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (ASTM B584, UNS C89833)
- The product has the letters "NL" cast into the main body for lead-free identification
- Certified to NSF/ANSI Standard 61 and NSF/ANSI Standard 372 where applicable
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B62 and ASTM B584, UNS C83600, 85-5-5-5)
- Ends are integral or secured with adhesive to prevent unintentional disassembly
- 300 PSI working pressure

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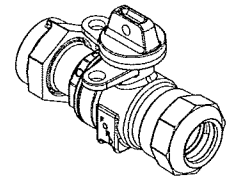
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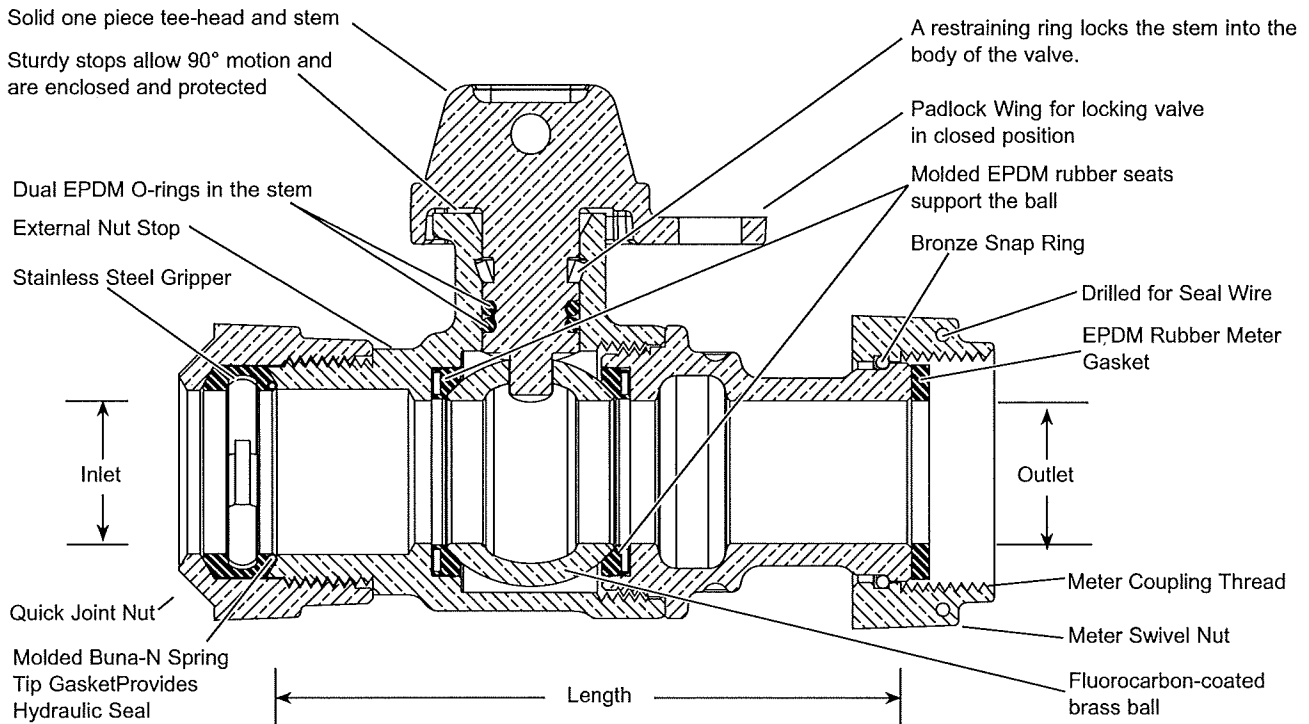
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# SUBMITTAL INFORMATION

## Straight Ball Meter Valves - (B43-xxxW-Q-NL style)



### QUICK JOINT FOR COPPER OR PLASTIC TUBING (CTS) INLET BY METER SWIVEL NUT OUTLET



VALVE SIZE	SERVICE LINE SIZE INLET	METER SIZE OUTLET	LENGTH	APPROX. WT. LBS	PART NUMBER	✓ SUBMITTED ITEM(S)
5/8"	3/4"	5/8"x3/4" & 3/4"	3-1/4"	1.7	B43-232W-Q-NL	
3/4"	3/4"	5/8" x 3/4" x 3/4"	3-7/8"	1.8	B43-332W-Q-NL	
3/4"	1"	5/8" x 3/4" x 3/4"	4-5/64"	2.5	B43-342W-Q-NL	
3/4"	1"	1"	3-25/32"	2.6	B43-344W-Q-NL	
1"	1"	1"	4-1/2"	3.0	B43-444W-Q-NL	

**Note:** Ford recommends using insert stiffeners with plastic pipe or tubing.

### FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (ASTM B584, UNS C89833)
- The product has the letters "NL" cast into the main body for lead-free identification
- Certified to NSF/ANSI Standard 61 and NSF/ANSI Standard 372 where applicable
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B62 and ASTM B584, UNS C83600, 85-5-5-5)
- Valve is non-directional and is watertight with flow in either direction
- Ends are integral or secured with adhesive to prevent unintentional disassembly
- Padlock Wing for locking valve in closed position
- Hole for attaching handle is provided in the tee-head
- 300 PSI working pressure

**Optional full 360° tee-head rotation.** Insert "R" into part number. Example: B43-444WR-Q-NL

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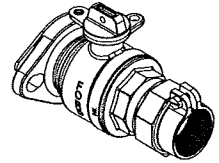
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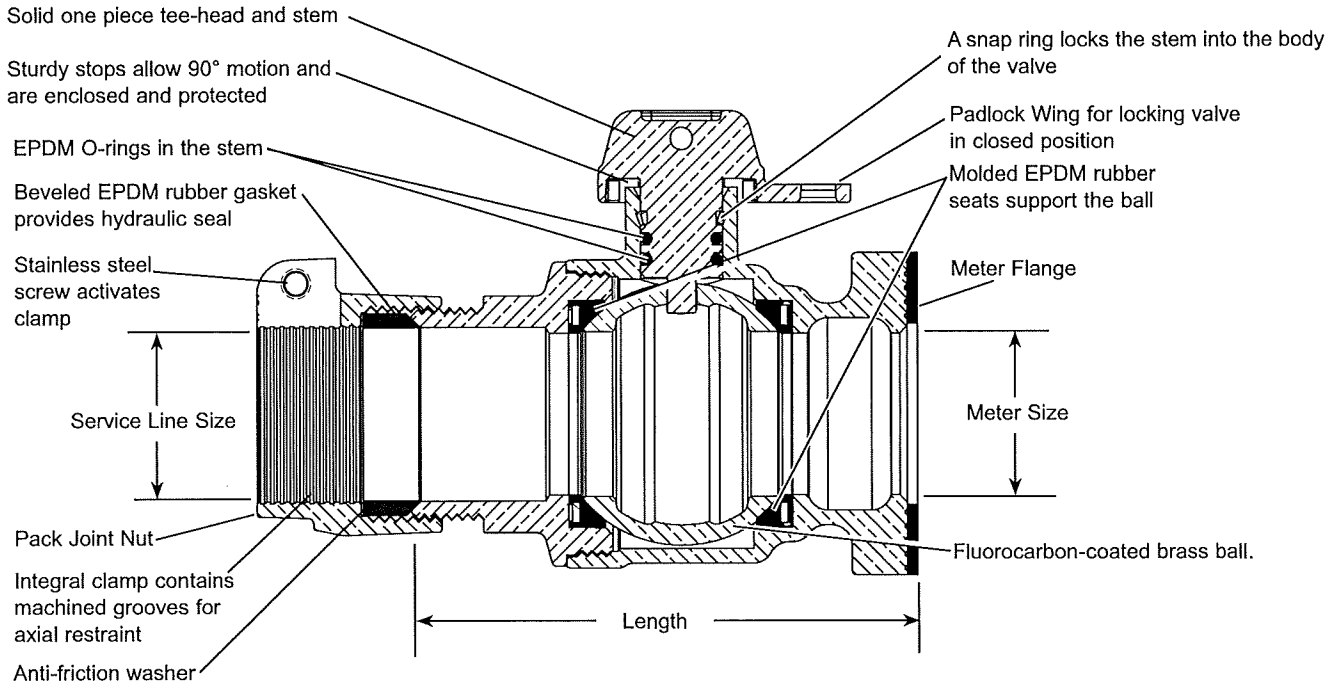


# SUBMITTAL INFORMATION

## Straight Ball Flange Meter Valves - (BF43-xxxW-NL style)



### PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS) INLET BY METER FLANGE OUTLET



VALVE SIZE	SERVICE LINE SIZE	METER SIZE	LENGTH	APPROX. WT. LBS	PART NUMBER	✓ SUBMITTED ITEM(S)
1-1/2"	1-1/2"	1-1/2"	5-23/64"	8.0	BF43-666W-NL	
1-1/2"	2"	1-1/2"	5-31/64"	8.5	BF43-676W-NL	
2"	2"	1-1/2" and 2"	6-13/64"	10.9	BF43-777W-NL	

**Note:** Ford recommends using insert stiffeners with plastic pipe or tubing.

### FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (ASTM B584, UNS C89833)
- The product has the letters "NL" cast into the main body for lead-free identification
- Certified to NSF/ANSI Standard 61 and NSF/ANSI Standard 372 where applicable
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B62 and ASTM B584, UNS C83600, 85-5-5-5)
- Valve is non-directional and is watertight with flow in either direction
- Ends are integral or secured with adhesive to prevent unintentional disassembly
- Padlock wing for locking valve in closed position
- Hole for attaching handle is provided in the tee-head
- 300 PSI working pressure
- Furnished with flat EPDM drop-in meter gasket
- Slotted holes are standard on 2" Flanged Meter Valves, allowing 1-1/2" Flange Meter connection

**Optional full 360° tee-head rotation.** Add "R" to end of part number.

**Optional Meter Support Brackets.** Add "- MSB" to end of part number.

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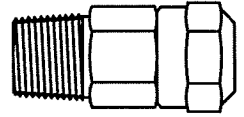
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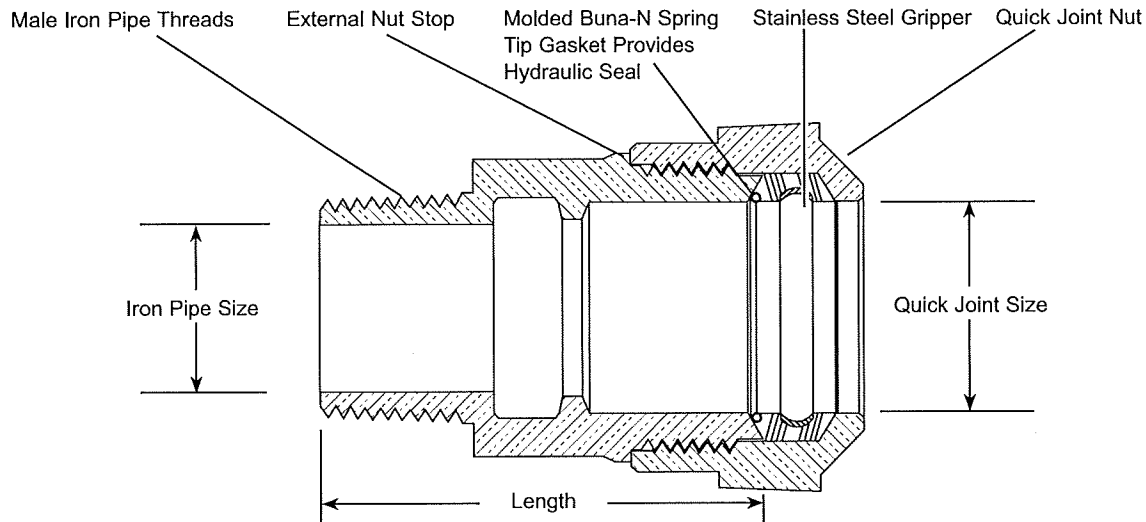
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# SUBMITTAL INFORMATION

## Quick Joint Coupling - (C84-xx-Q-NL style)



### MALE IRON PIPE THREAD BY QUICK JOINT FOR COPPER OR PLASTIC TUBING (CTS)



DESCRIPTION		LENGTH	APPROX. WT. LBS	PART NUMBER	✓ SUBMITTED ITEM(S)
MALE IRON PIPE	Q.J. FOR CTS				
1/2"	1/2"	2"	.5	C84-11-Q-NL	
3/4"	1/2"	2-7/32"	.5	C84-31-Q-NL	
3/4"	5/8"	2-1/4"	.6	C84-32-Q-NL	
3/4"	3/4"	2-1/4"	.6	C84-33-Q-NL	
3/4"	1"	2-3/8"	.7	C84-34-Q-NL	
1"	3/4"	2-19/32"	.7	C84-43-Q-NL	
1"	1"	2-9/16"	.8	C84-44-Q-NL	
1"	1-1/2"	2-9/16"	1.5	C84-46-Q-NL	
1-1/4"	1-1/4"	2-5/8"	1.4	* C84-55-Q-NL	
1-1/2"	1-1/2"	3"	1.8	C84-66-Q-NL	
2"	2"	3-1/4"	2.3	C84-77-Q-NL	

**Note:** Ford recommends insert stiffeners when using plastic pipe or tubing.

\* 1-1/4" Quick Joint has EPDM spring tip gasket.

## FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (ASTM B584, UNS C89833)
- The product has the letters "NL" cast into the main body for lead-free identification
- Certified to NSF/ANSI Standard 61 and NSF/ANSI Standard 372 where applicable
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B62 and ASTM B584, UNS C83600, 85-5-5-5)
- Body design provides octagonal wrench flats for proper installation

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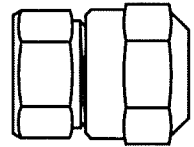
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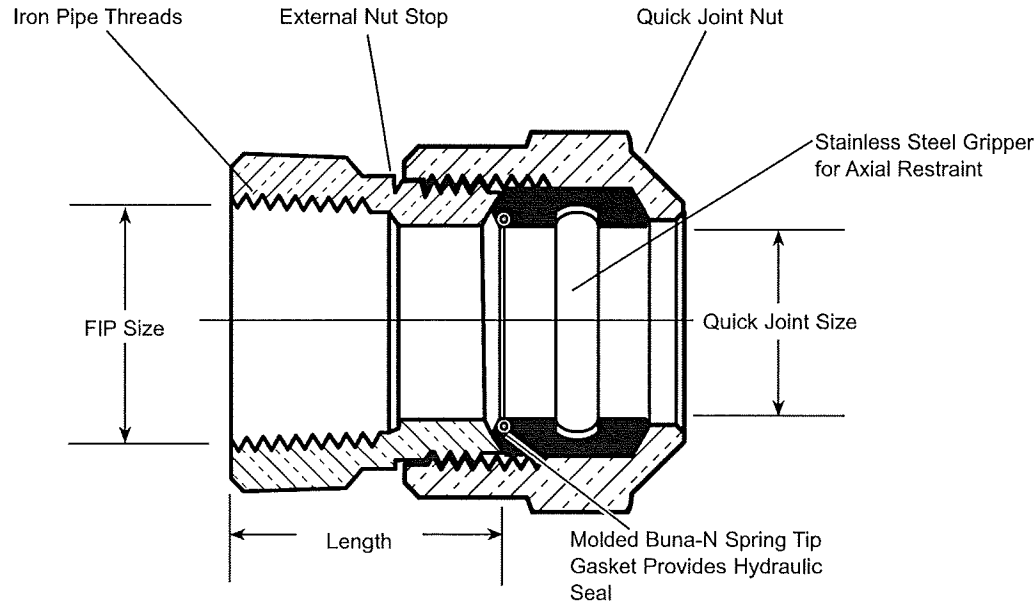
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# SUBMITTAL INFORMATION

## Quick Joint Coupling - (C14-xx-Q-NL style)



FEMALE IRON PIPE THREAD BY QUICK JOINT FOR COPPER OR PLASTIC TUBING (CTS)



DESCRIPTION		LENGTH	APPROX. WT. LBS	PART NUMBER	✓ SUBMITTED ITEM(S)
FEMALE IRON PIPE	Q.J. FOR CTS				
1/2"	1/2"	1-9/16"	0.4	C14-11-Q-NL	
3/4"	3/4"	1-1/4"	0.6	C14-33-Q-NL	
3/4"	1"	1-3/4"	0.9	C14-34-Q-NL	
1"	3/4"	1-3/4"	0.7	C14-43-Q-NL	
1"	1"	2-1/8"	0.9	C14-44-Q-NL	
1-1/4"	1-1/4"	2-3/16"	1.5	* PJA4-45-C14-55-Q-NL	
1-1/2"	1-1/2"	2-7/16"	2.3	C14-66-Q-NL	
2"	2"	2-5/8"	2.8	C14-77-Q-NL	

**Note:** Ford recommends insert stiffeners when using plastic pipe or tubing

\* 1-1/4" Quick Joint has EPDM spring tip gasket

### FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (ASTM B584, UNS C89833)
- The product has the letters "NL" cast into the main body for lead-free identification
- Certified to NSF/ANSI Standard 61 and NSF/ANSI Standard 372 where applicable
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B62 and ASTM B584, UNS C83600, 85-5-5-5)
- Sleeve design provides hexagonal wrench flats for proper installation

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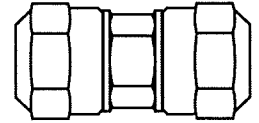
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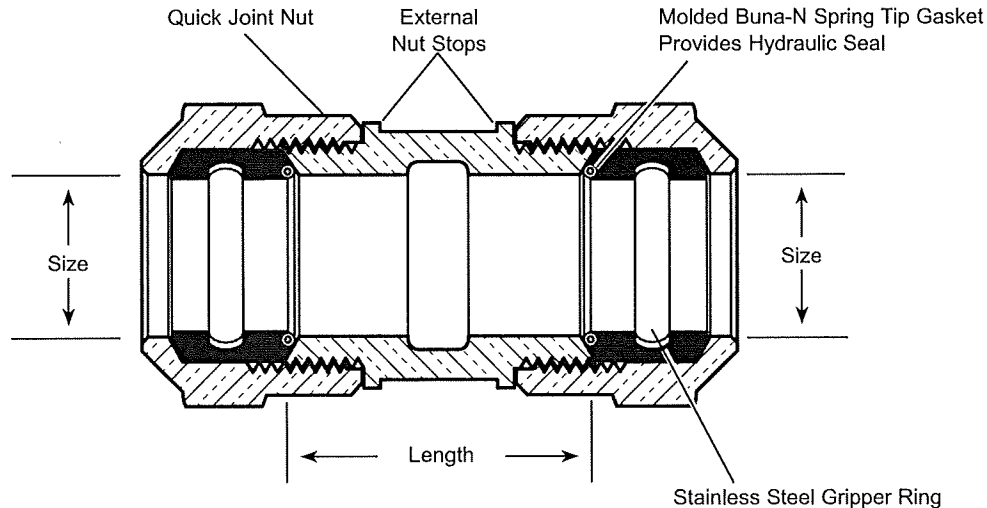
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# SUBMITTAL INFORMATION

## Quick Joint Coupling - (C44-xx-Q-NL style)



### QUICK JOINT FOR COPPER OR PLASTIC TUBING (CTS) BOTH ENDS



DESCRIPTION		LENGTH	APPROX. WT. LBS	PART NUMBER	✓ SUBMITTED ITEM(S)
Q.J. FOR CTS	Q.J. FOR CTS				
1/2"	1/2"	2-1/16"	.8	C44-11-Q-NL	
1/2"	3/4"	2-1/4"	.8	C44-13-Q-NL	
5/8"	5/8"	2-3/32"	.9	C44-22-Q-NL	
5/8"	3/4"	2-3/32"	.9	C44-23-Q-NL	
3/4"	3/4"	2-3/32"	.9	C44-33-Q-NL	
3/4"	1"	2-3/32"	1.0	C44-34-Q-NL	
1"	1"	2-13/32"	1.1	C44-44-Q-NL	
1-1/4"	1-1/4"	2-1/2"	2.0	C44-55-Q-NL	
1-1/2"	1-1/2"	3-3/8"	2.6	C44-66-Q-NL	
2"	2"	3-1/2"	3.3	C44-77-Q-NL	

**Note:** Ford recommends insert stiffeners when using plastic pipe or tubing.

### FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (ASTM B584, UNS C89833)
- The product has the letters "NL" cast into the main body for lead-free identification
- Certified to NSF/ANSI Standard 61 and NSF/ANSI Standard 372 where applicable
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B62 and ASTM B584, UNS C83600, 85-5-5-5)
- Body design provides larger, more rugged wrench flats for proper installation

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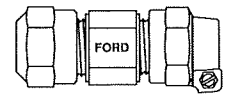
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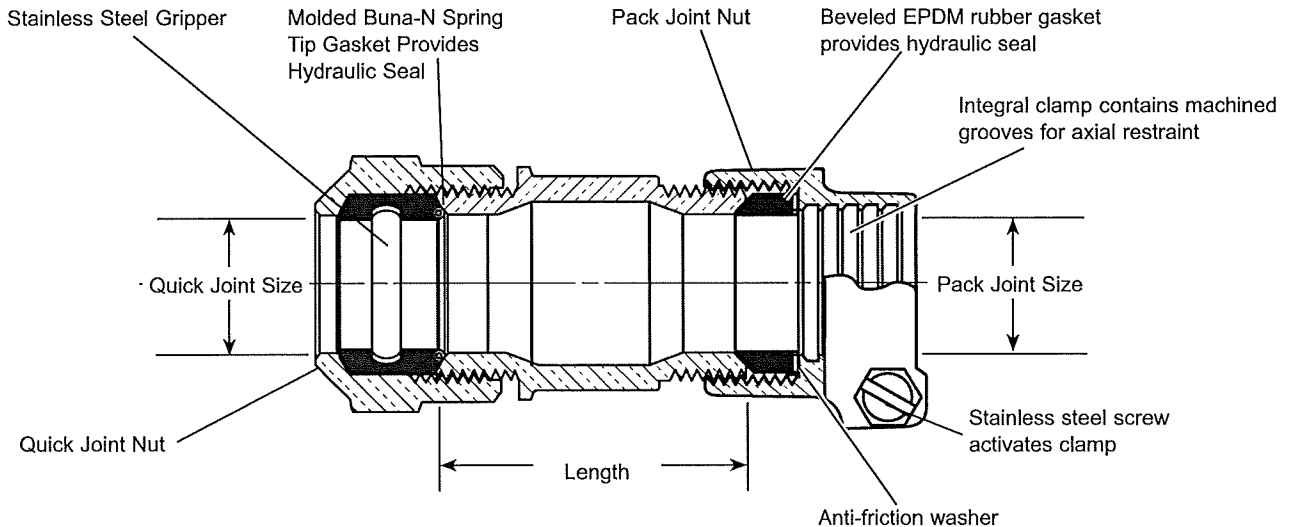
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# SUBMITTAL INFORMATION

## Quick Joint Coupling - (C47-33-Q-NL style)



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



DESCRIPTION		LENGTH	APPROX. WT. LBS	PART NUMBER	✓ SUBMITTED ITEM(S)
Q.J. FOR CTS	P.J. FOR PVC PIPE				
3/4"	3/4"	2-1/8"	1.2	C47-33-Q-NL	

**Note:** Ford recommends insert stiffeners when using plastic pipe or tubing  
Ford Pack Joints for PVC are only recommended for Schedule 40 and Schedule 80 pipe.

### FFEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (UNS NO C89833)
- The product has the letters "NL" cast into the main body for proper identification
- UL Classified to ANSI/NSF Standard 61 and Standard 61 Annex G (NSF/ANSI 372)
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B-62 and ASTM B-584, UNS NO C83600 - 85-5-5-5)
- Sleeve design provides larger, more rugged wrench flats for proper installation

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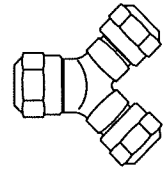
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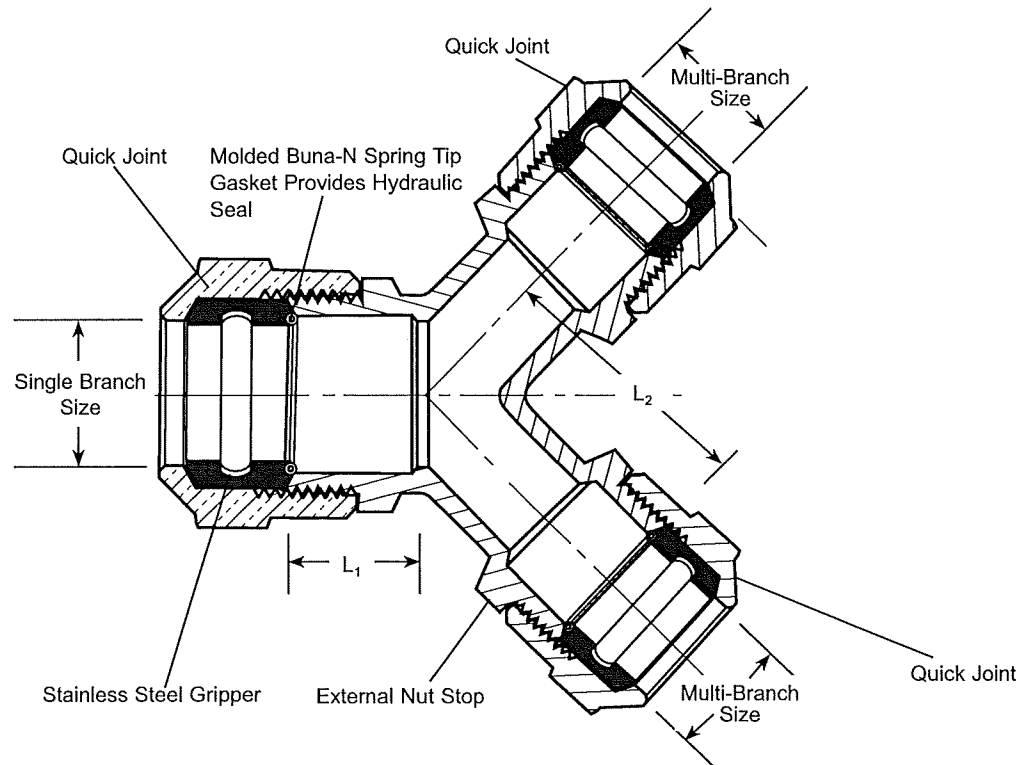
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# SUBMITTAL INFORMATION

## Quick Joint 'Y' Branch - (Y44-2xx-Q-NL style)



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



SINGLE BRANCH END	MULTI- BRANCH END	SINGLE BRANCH LENGTH (L <sub>1</sub> )	MULTI-BRANCH LENGTH (L <sub>2</sub> )	APPROX. WT. LBS.	PART NUMBER	✓ SUBMITTED ITEM(S)
3/4"	Two - 3/4"	1-3/32"	2-3/64"	1.7	Y44-233-Q-NL	
1"	Two - 3/4"	1-1/16"	2"	1.8	Y44-243-Q-NL	

**Note:** Ford recommends insert stiffeners when using plastic pipe or tubing.

### FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (ASTM B584, UNS C89833)
- The product has the letters "NL" cast into the main body for lead-free identification
- Certified to NSF/ANSI Standard 61 and NSF/ANSI Standard 372 where applicable
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B62 and ASTM B584, UNS C83600, 85-5-5-5)

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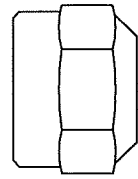
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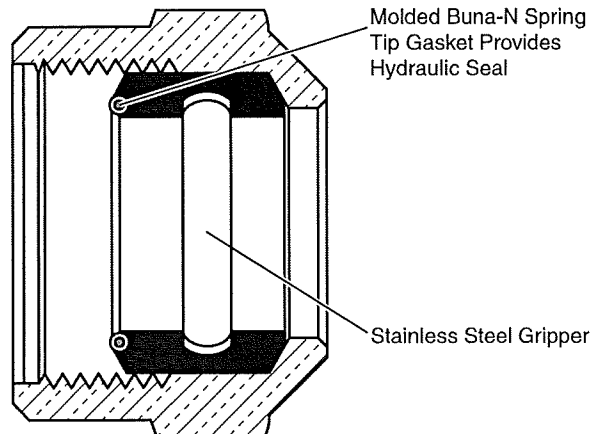
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## SUBMITTAL INFORMATION

### Quick Joint Nut - (QJN4-x style)



QUICK JOINT NUT FOR COPPER OR PLASTIC TUBING (CTS)



SIZE	APPROX. WT. LBS.	PART NUMBER	✓ SUBMITTED ITEM(S)
1/2"	0.2	QJN4-1	
3/4"	0.3	QJN4-3	
1"	0.4	QJN4-4	
1-1/4"	0.6	QJN4-5	
1-1/2"	0.7	QJN4-6	
2"	0.9	QJN4-7	

### FEATURES

- All brass conforms to AWWA Standard C800 (ASTM B-62 and ASTM B-584, UNS NO C83600 - 85-5-5-5)

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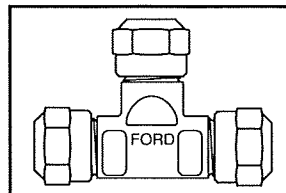
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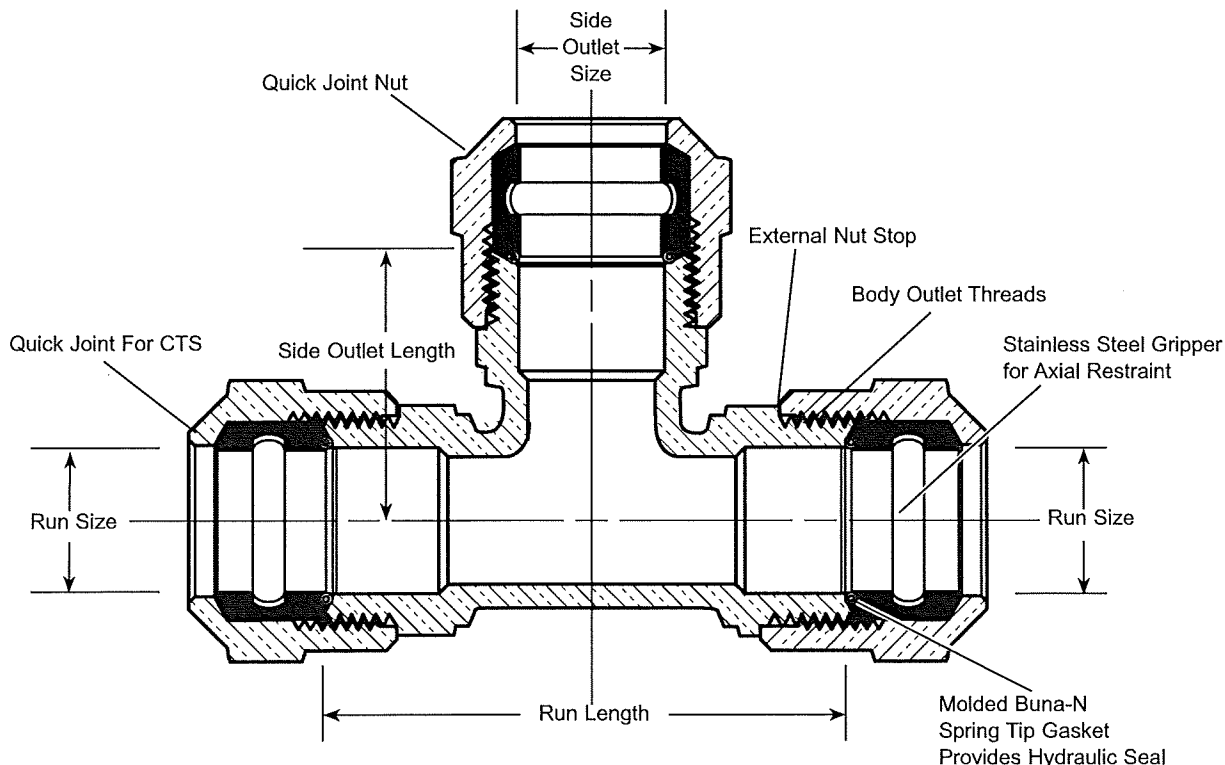
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# SUBMITTAL INFORMATION

## Quick Joint Tee - (T444-xxx-Q-NL style)



QUICK JOINT FOR CTS TO QUICK JOINT FOR CTS BY QUICK JOINT FOR CTS



BOTH ENDS (RUN SIZE)	SIDE OUTLET SIZE	RUN LENGTH	SIDE OUTLET LENGTH	APPROX Wt. LBS.	PART NUMBER	✓ SUBMITTED ITEM(S)
3/4"	3/4"	3-5/16"	1-5/8"	1.5	T444-333-Q-NL	
3/4"	1"	3-5/8"	1-15/16"	1.8	T444-334-Q-NL	
1"	1"	4-1/16"	2-1/16"	2.5	T444-444-Q-NL	
2"	2"	7-3/8"	3-11/16"	8.7	T444-777-Q-NL	

**Note:** Ford recommends using insert stiffeners with plastic pipe or tubing.



### FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (UNS NO C89833)
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B-62 and ASTM B-584, UNS NO C83600 - 85-5-5-5)
- UL Classified to ANSI/NSF Standard 61 and Annex G
- The product has the letters "NL" cast into the main body for proper identification

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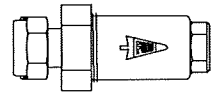
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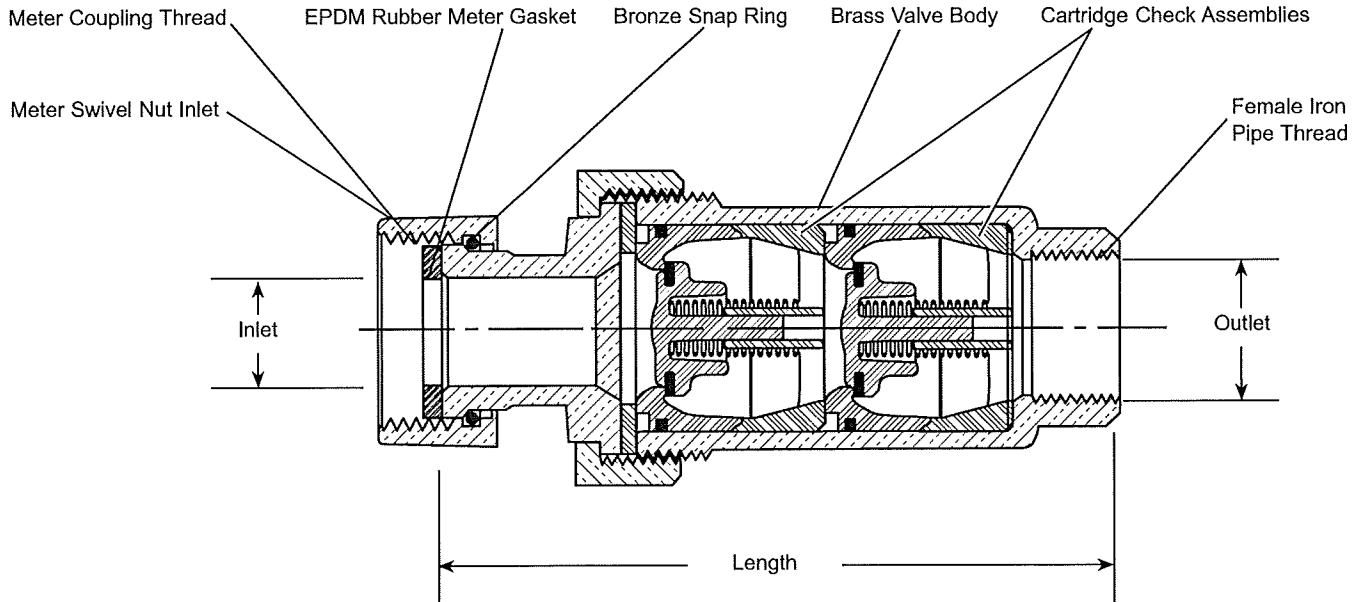


# SUBMITTAL INFORMATION

## Straight Dual Cartridge Check Valve - (HHC31-xxx-NL style)



### METER SWIVEL NUT INLET BY FEMALE IRON PIPE OUTLET



VALVE SIZE	METER INLET SIZE	OUTLET SIZE	LENGTH	APPROX. WT. LBS	PART NUMBER	✓ SUBMITTED ITEM(S)
3/4"	5/8"	3/4"	4-11/16"	1.6	HHC31-313-NL	
3/4"	5/8"x3/4" & 3/4"	3/4"	4-3/4"	1.7	HHC31-323-NL	
1"	1"	1"	4-15/16"	2.7	HHC31-444-NL	

### FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (ASTM B584, UNS C89833)
- The product has the letters "NL" cast into the main body for lead-free identification
- Certified to NSF/ANSI Standard 61 and NSF/ANSI Standard 372 where applicable
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B62 and ASTM B584, UNS C83600, 85-5-5-5)
- ASSE 1024 approved
- Accessible through the union swivel inlet for inspection and replacement of internal working parts. Replacement kits are available.
- 175 PSI maximum working water pressure
- 180 degree Fahrenheit maximum constant temperature
- Conforms to AWWA C700 for meter threads

The Ford Meter Box Company considers the information in this submittal form to be correct at the time of publication. Item and option availability, including specifications, are subject to change without notice. Please verify that your product information is current.



#### The Ford Meter Box Company, Inc.

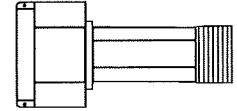
P.O. Box 443, Wabash, Indiana U.S.A. 46992-0443  
 Phone: 260-563-3171 / Fax: 800-826-3487  
 Overseas Fax: 260-563-0167  
 www.fordmeterbox.com

09/23/16

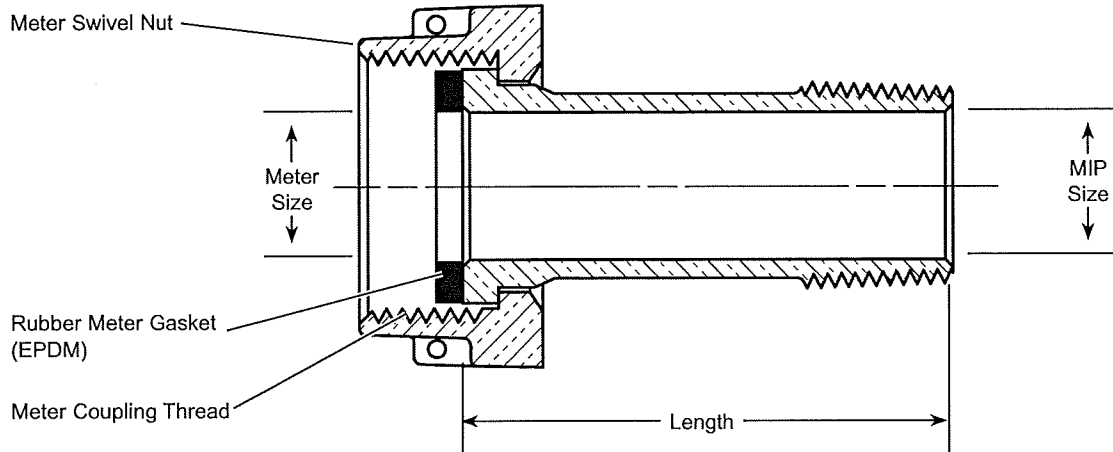
Submitted By:

# SUBMITTAL INFORMATION

## Straight Meter Coupling - (C38-xx-xx-NL style A)



### METER SWIVEL NUT BY MALE IRON PIPE THREAD



METER SIZE	MIP SIZE	LENGTH	APPROX. Wt. LBS	PART NUMBER	✓ SUBMITTED ITEM(S)
5/8"	1/2"	2"	.3	C38-11-2-NL	
5/8"	1/2"	2-3/16"	.4	C38-11-2-188-NL	
5/8"	1/2"	2-3/8"	.4	C38-11-2-375-NL	
5/8"x3/4" & 3/4"	3/4"	2"	.4	C38-23-2-NL	
5/8"x3/4" & 3/4"	3/4"	2-1/4"	.4	C38-23-2-25-NL	
5/8"x3/4" & 3/4"	3/4"	2-1/2"	.4	C38-23-2-5-NL	
5/8"x3/4" & 3/4"	3/4"	2-3/4"	.5	C38-23-2-75-NL	
5/8"x3/4" & 3/4"	3/4"	3"	.5	C38-23-3-NL	
5/8"x3/4" & 3/4"	3/4"	8-1/2"	1.0	C38-23-8-5-NL	
1"	1"	2-1/4"	.7	C38-44-2-25-NL	
1"	1"	2-5/8"	.8	C38-44-2-625-NL	
1"	1"	3-1/2"	.7	C38-44-3-5-NL	
1"	1"	8-1/2"	1.9	C38-44-8-5-NL	
1-1/4"	1"	2-3/4"	1.3	C38-54-2-75-NL	
1-1/2"	1-1/2"	2-7/8"	1.8	C38-66-2-875-NL	
2"	2"	2-1/4"	2.0	C38-77-2-25-NL	
2"	2"	3-1/16"	3.0	C38-77-NL	

### FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (ASTM B584, UNS C89833)
- The product has the letters "NL" cast into the main body for lead-free identification
- Certified to NSF/ANSI Standard 61 and NSF/ANSI Standard 372 where applicable
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B62 and ASTM B584, UNS C83600, 85-5-5-5)
- Style "A" Coupling is long body style with hex on barrel
- Slip-on Meter Swivel Nut
- Conforms to AWWA C700 for Meter Threads

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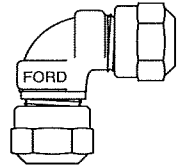
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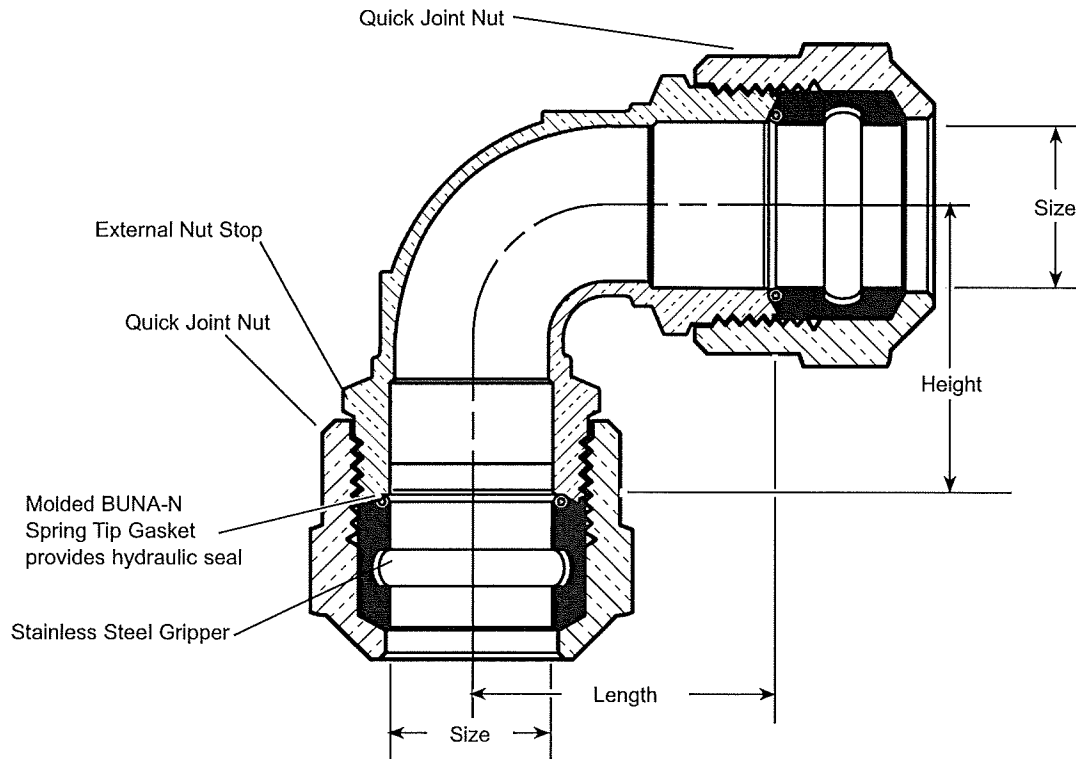
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# SUBMITTAL INFORMATION

## Quick Joint Ell Coupling - (L44-xx-Q-NL style)



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



DESCRIPTION		LENGTH	HEIGHT	APPROX. Wt. LBS	PART NUMBER	✓ SUBMITTED ITEM(s)
Q.J. FOR CTS	Q.J. FOR CTS					
3/4"	3/4"	1-5/8"	1-5/8"	1.0	L44-33-Q-NL	
3/4"	1"	2-3/64"	2-1/8"	1.6	L44-34-Q-NL	
1"	1"	2-1/8"	2-1/8"	1.8	L44-44-Q-NL	
1-1/2"	1-1/2"	2-7/16"	2-7/16"	3.1	L44-66-Q-NL	
2"	2"	2-13/16"	2-13/16"	4.2	L44-77-Q-NL	

**Note:** Ford recommends insert stiffeners when using plastic pipe or tubing.

### FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (ASTM B584, UNS C89833)
- The product has the letters "NL" cast into the main body for lead-free identification
- Certified to NSF/ANSI Standard 61 and NSF/ANSI Standard 372 where applicable
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B62 and ASTM B584, UNS C83600, 85-5-5-5)

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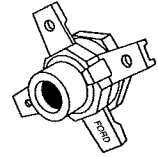
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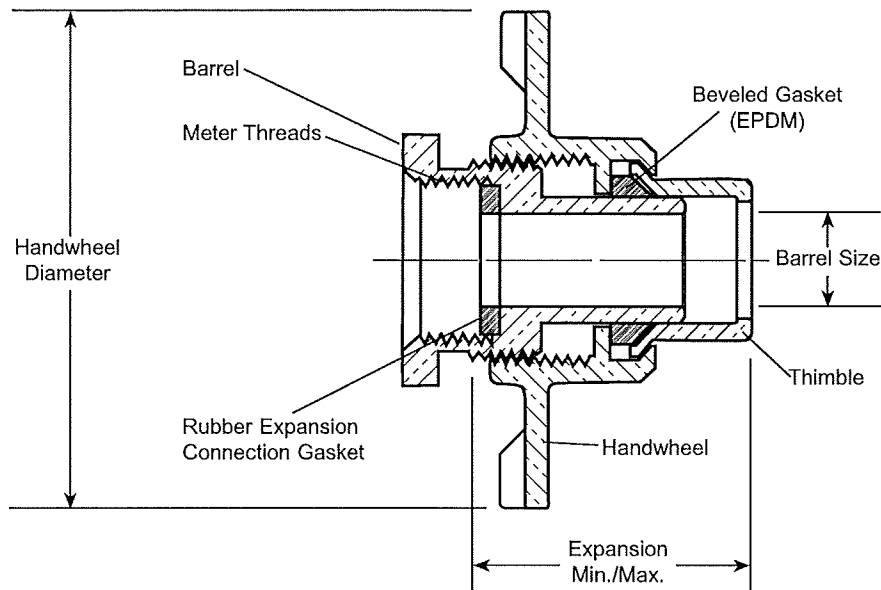
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# SUBMITTAL INFORMATION

## Expansion Connection - (EC-x-NL style)



### HANDWHEEL TYPE



METER SIZE	BARREL SIZE	HANDWHEEL DIAMETER	EXPANSION		APPROX. WT. LBS.	CATALOG NUMBER	✓ SUBMITTED ITEM(S)
			MIN.	MAX.			
5/8"	19/32"	3-1/4"	1-7/16"	1-3/4"	0.7	EC-1-NL	
5/8"x3/4" & 3/4"	3/4"	3-1/2"	1-5/8"	2"	0.9	EC-23-NL	
1"	1"	4-1/4"	1-15/16"	2-3/8"	1.6	EC-4-NL	

### FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (UNS NO C89833)
- The product has the letters "NL" cast into the main body for proper identification
- UL Classified to ANSI/NSF Standard 61 and Standard 61 Annex G (NSF/ANSI 372)
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B-62 and ASTM B-584, UNS NO C83600 - 85-5-5-5)
- Expansion Connection attaches to the meter. Together, they are installed as an expandable unit
- Meter and Expansion Connection unit can be installed or removed with one hand, without a wrench
- Enhanced security when the expansion connection is removed along with the meter
- Thimble nose piece does not rotate after contact with the rubber yoke end gasket. No "walking out."

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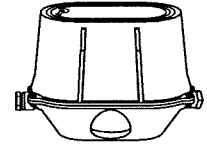
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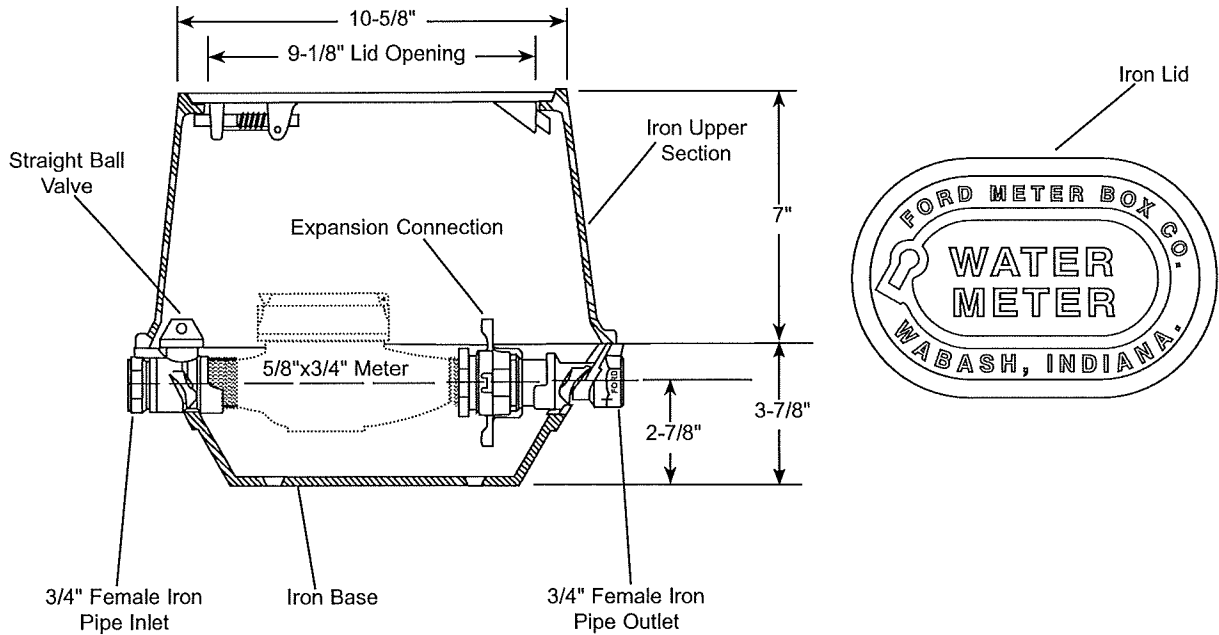
# SUBMITTAL INFORMATION

## Yokebox - (YLB111-233-NL style)



FEMALE IRON PIPE THREAD INLET AND OUTLET

STRAIGHT BALL VALVE BY STRAIGHT OUTLET



METER SIZE	FIP INLET	FIP OUTLET	APPROX. Wt. LBS.	CATALOG NUMBER	✓ SUBMITTED ITEM(S)
5/8"x3/4"	3/4"	3/4"	34.0	YLB111-233-NL	

### FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (UNS NO C89833)
- The product has the letters "NL" cast into the main body for proper identification
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B-62 and ASTM B-584, UNS NO C83600 - 85-5-5-5)
- Base, upper section and lid are cast iron per ASTM A48, Class 25
- The brass end fittings are permanently and properly spaced and aligned for the meter
- Finish is black E-coating
- Locking lid is standard
- Lockless lid is available; add "-LL" to catalog number

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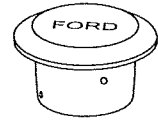
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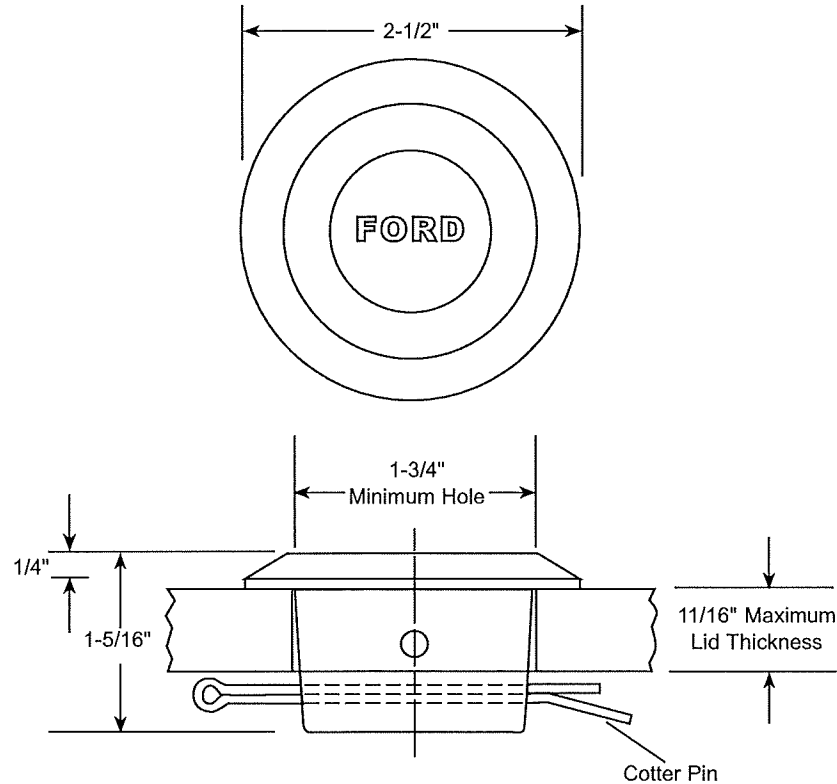
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# SUBMITTAL INFORMATION

## Plug for EMR Hole - (TP style)



### REMOVABLE CAST IRON PLUG FOR ELECTRONIC METER READING LID



PLUG		LID		COTTER PIN		
DESCRIPTION	APPROX. WT. LBS.	MAXIMUM THICKNESS	MINIMUM HOLE DIAMETER	SIZE	CATALOG NUMBER	✓ SUBMITTED ITEM(S)
Cast Iron Plug	0.5	11/16"	1-3/4"	5/32" x 2-1/2"	TP	

## FEATURES

- Made from cast iron ASTM A48, Class 25
- Finish is black E-coating
- Secured with a 5/32" x 2-1/2" brass cotter pin on underside of lid (included)

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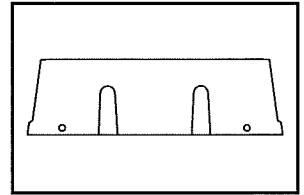
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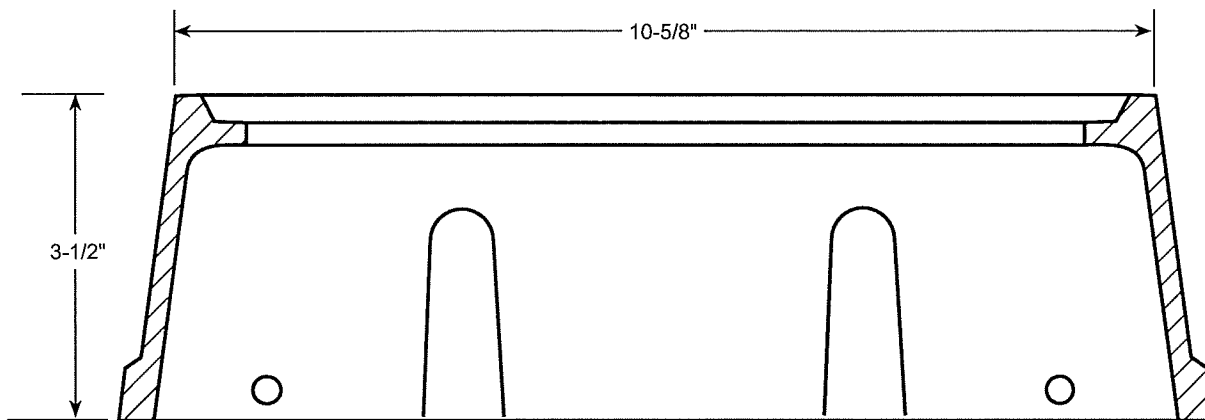
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## SUBMITTAL INFORMATION

### Yokebox Grade Adjuster - (9501 style)



GRADE ADJUSTER MOUNTS TO TOP OF UPPER SECTION



APPROX. WT. LBS.	CATALOG NUMBER	✓ SUBMITTED ITEM(S)
8	9501	

### FEATURES

- Allows 1-1/2" to 3" additional height to the grade level for Yokeboxes, 2" to 3" for Gulfboxes
- Made from cast iron per ASTM A48, Class 25
- Finish is black E-coating
- Secured with stainless steel set screws

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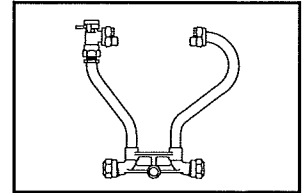
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03/15/10

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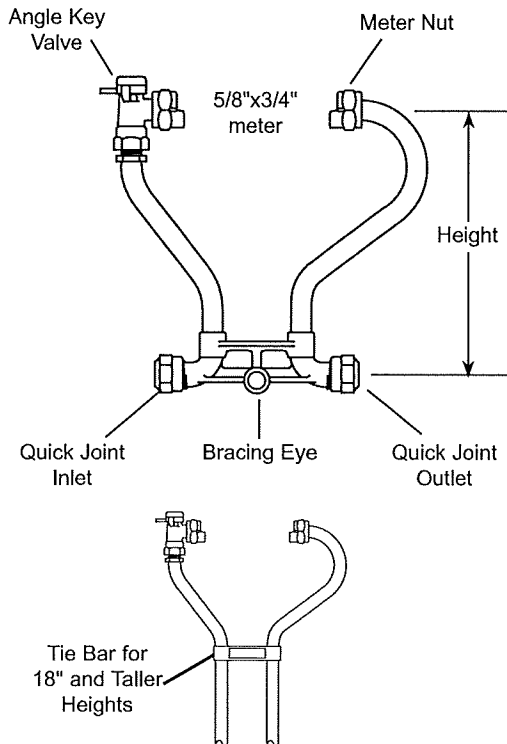
# SUBMITTAL INFORMATION

## 70 Series Coppersetter - (V72-xxW-44-33-Q-NL style)



ANGLE KEY VALVE BY METER NUT (5/8" X 3/4" METER)

QUICK JOINT FOR COPPER OR PLASTIC TUBING (CTS) INLET AND OUTLET



### Coppersetter Part Number

HEIGHT (INCHES)	APPROX. Wt. LBS.	CATALOG NUMBER	✓ SUBMITTED ITEM(S)
7	4.2	V72-7W-44-33-Q-NL	
9	4.4	V72-9W-44-33-Q-NL	
12	4.6	V72-12W-44-33-Q-NL	
15	4.8	V72-15W-44-33-Q-NL	
18	5.5	V72-18W-44-33-Q-NL	
21	5.7	V72-21W-44-33-Q-NL	
24	6.0	V72-24W-44-33-Q-NL	
27	6.2	V72-27W-44-33-Q-NL	
30	6.5	V72-30W-44-33-Q-NL	
33	6.8	V72-33W-44-33-Q-NL	
36	7.0	V72-36W-44-33-Q-NL	
39	7.3	V72-39W-44-33-Q-NL	
42	7.6	V72-42W-44-33-Q-NL	

### Service Line Size

INLET	OUTLET
3/4" (CTS) Q.J.	3/4" (CTS) Q.J.

Note: Ford recommends using insert stiffeners with plastic pipe or tubing

### FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (UNS NO C89833)
- The product has the letters "NL" cast into the main body for proper identification
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B-62 and ASTM B-584, UNS NO C83600 - 85-5-5-5)
- Saddle Nuts hold the meter in place for tightening
- Bracing Eye is standard on all 70 Series Coppersetters
- Tie Bar is standard for 18" and taller Coppersetter heights (72 Series)
- 13/16" Copper Risers provide more flow capacity
- All Ford Setters are assembled with lead-free solder
- Copper conforms to ASTM B-75, Copper Alloy #122

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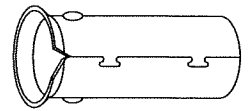
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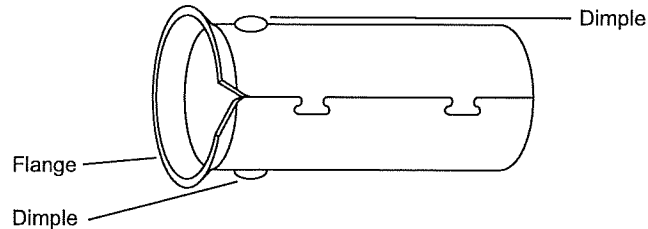


# SUBMITTAL INFORMATION

## Stainless Steel Inserts - (Insert-xx style)



### STAINLESS STEEL INSERTS FOR POLYETHYLENE PIPE (PEP) OR TUBING (PET)



#### 70 Series For Polyethylene Pipe (PEP)

CATALOG NUMBER	NOMINAL SIZE	PEP ID	LENGTH	✓ SUBMITTED ITEM(S)
INSERT-71	3/4"	0.824	1-11/16"	
** INSERT-53-72	1"	1.049	2-5/16"	
♦** INSERT-53-72-Q	1"	1.049	1-31/32"	
INSERT-73	1-1/4"	1.380	2-5/16"	
INSERT-74	1-1/2"	1.610	2-59/64"	
INSERT-75	2"	2.067	2-15/16"	

#### 50 series For Polyethylene Tubing (PET)

CATALOG NUMBER	NOMINAL SIZE	PET ID	LENGTH	✓ SUBMITTED ITEM(S)
INSERT-51	3/4"	0.681	1-35/64"	
INSERT-52	1"	0.875	1-43/64"	
** INSERT-53-72	1-1/4"	1.069	2-5/16"	
♦** INSERT-53-72-Q	1-1/4"	1.069	1-31/32"	
INSERT-54	1-1/2"	1.263	2-15/16"	
INSERT-55	2"	1.653	2-15/16"	
♦ INSERT-54-Q	1-1/2"	1.263	2-7/16"	
♦ INSERT-55-Q	2"	1.653	2-7/16"	

\* Weights for insert stiffeners are for standard package quantities.

\*\*Insert -53 and -72 fit both 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 with other Compression Fittings.

### FEATURES

- Insert stiffeners conform to the AWWA Standard C901 for Polyethylene (PE) Pressure Pipe and Tubing
- Insert stiffeners are solid 304 tubular stainless steel (ASTM 240-92B)
- Dimpled and flanged to retain placement within the service line
- Key lock construction with a minimum of two key locks to maintain solid structural integrity
- Manufactured in the United States of America

**Note:** Consult pipe or tubing manufacturer for specific installation requirements. Ford recommends using insert stiffeners when using plastic pipe or tubing

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10/30/12

Submitted By:

# JCM INDUSTRIES

P. O. Box 1220, Nash, TX 75569-1220

Phone 800-527-8482 or 903-832-2581

Fax 800-874-9524 or 903-838-6260

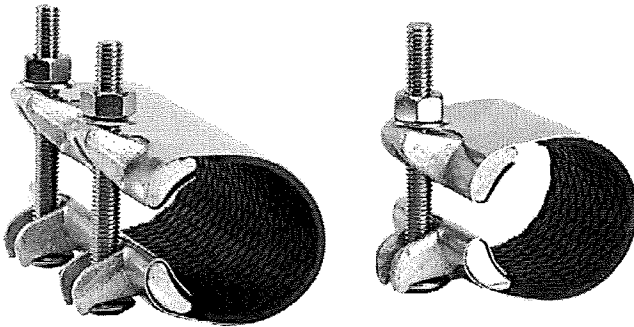
[www.jcmindustries.com](http://www.jcmindustries.com)

## Typical Specification

### JCM 110 Patch Clamp

All circumferential single band repair clamps 1/2" and larger shall have a minimum material standard of certifiable prime 304 stainless steel band; low profile Ductile Iron Lugs per ASTM A536; lug shall be drop-in design with open receiver slot; replaceable, track head electro-galvanized steel bolt, nut and washer, and a gridded gasket. Clamps 1/2" thru 2" shall have lug to lug gasket. Clamps shall be JCM 110 Patch Clamp or approved equal.

JCM 100 Series Clamps are ANSI/NSF Standard 61 and ANSI/NSF Standard 61 Annex G Certified.



JCM 110 Patch Clamps  
6" width and 3" width

*This typical specification, provided by JCM Industries, is a proposed guideline for use by specifying agencies to ensure significant design and material features of this product are included within the agencies' individual specifications.*



Effective 02.07.11

# JCM INDUSTRIES

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[www.jcmindustries.com](http://www.jcmindustries.com)

## Material Specification

### JCM 110 Patch Clamp

- LUG:** Ductile Iron ASTM A-536.  
Optional CF8 Stainless Steel, equal to 304.
- GASKET:** Nitrile Butadiene Rubber (NBR, Buna-N) per ASTM D2000. Molded virgin rubber for natural gas, oil, mild acids, bases, water and sewage. Gasket temperature range -40°F to 180°F (-40°C – 82°C). For applications on high temperatures or chemical pipelines, contact JCM Industries Technical Services.
- BAND:** 18-8 Type 304 Stainless Steel
- HARDWARE:** Electro-galvanized Steel.  
Optional Stainless Steel available.

JCM 100 Series Clamps are ANSI/NSF Standard 61 and ANSI/NSF Standard 61 Annex G Certified.



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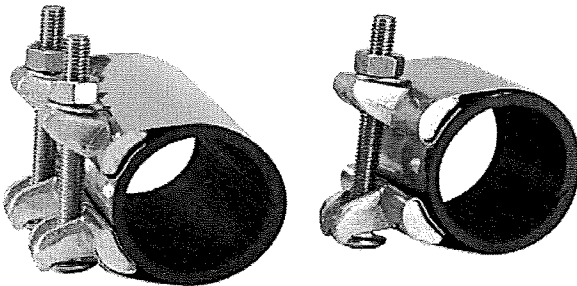
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## Typical Specification

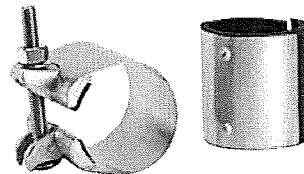
### JCM 111 Full-Repair Clamp

All circumferential single band repair clamps 1/2" and larger shall have a minimum material standard of certifiable prime 304 stainless steel band; low profile Ductile Iron Lugs per ASTM A536; lug shall be drop-in design with open receiver slot; replaceable, track head electro-galvanized steel bolt, nut and washer, and a gridded gasket. Clamp shall have separate full circumferential gasket insert with molded stainless steel armor with alignment buttons. Clamps shall be JCM 111 Full-Repair Clamps or approved equal.

JCM 100 Series Clamps are ANSI/NSF Standard 61 and ANSI/NSF Standard 61 Annex G, ANSI/NSF 372 Certified.



JCM 111 Full-Repair Clamp  
6" and 3" Widths



*This typical specification, provided by JCM Industries, is a proposed guideline for use by specifying agencies to ensure significant design and material features of this product are included within the agencies' individual specifications.*



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[www.jcmindustries.com](http://www.jcmindustries.com)

## Material Specification

### JCM 111 Full-Repair Clamp

- LUG:** Ductile Iron ASTM A-536.  
Optional CF8 Stainless Steel, equal to 304.
- GASKET:** Nitrile Butadiene Rubber (NBR, Buna-N) per ASTM D2000. Molded virgin rubber for natural gas, oil, mild acids, bases, water and sewage. Gasket temperature range -40°F to 180°F (-40°C – 82°C). For applications on high temperatures or chemical pipelines, contact JCM Industries Technical Services.
- BAND:** 18-8 Type 304 Stainless Steel
- HARDWARE:** Electro-galvanized Steel.  
Optional Stainless Steel available.

JCM 100 Series Clamps are ANSI/NSF Standard 61 and ANSI/NSF Standard 61 Annex G, ANSI/NSF 372 Certified.



Effective 02.07.11

## ADS POTABLE WATER SERVICE TUBING (CTS) PIPE SPECIFICATIONS

### Scope

This specification describes ADS Potable Water Service Tubing (CTS) pipe SDR 9 for use in potable water service applications.

### Pipe Requirements

ADS potable water service tubing shall meet the requirements of ASTM D2737, AWWA C901 and NSF Standards 14 and 61. Pipe dimensions shall meet Copper Tubing Size (CTS) standards.

### Material Properties

Tubing material shall be high-density polyethylene conforming to the minimum requirements of cell classification 445574E as defined and described in ASTM D3350. The resin shall have a material designation code of PE4710 by the Plastic Pipe Institute.

### Disinfection/Maintenance

The active chlorine content of disinfecting solutions shall not exceed 12%. All disinfecting solution must be flushed from all lines within the system. Industry accepted procedures, like ANSI/AWWA C651 *Disinfecting Water Mains*, should be followed for both new and repaired potable water lines.

### Installation

Installation is similar to other flexible tubing/pipe products. Methods including direct bury, plowing or pulling are applicable per local, state or federal guidelines for the application.

### Tubing Properties

		3/4"	1"	1 1/4"	1 1/2"	2"
SDR 9	Outside Diameter, in (mm)	0.875 ±0.004 (22.2 ±0.10)	1.125 ±0.005 (28.6 ±0.13)	1.375 ±0.005 (34.9 ±0.13)	1.625 ±0.006 (41.3 ±0.15)	2.125 ±0.006 (54.0 ±0.51)
	Wall Thickness, in (mm)	0.097 ±0.010 (2.5 ±0.25)	0.125 ±0.012 (3.2 ±0.30)	0.153 ±0.015 (3.9 ±0.38)	0.181 ±0.018 (4.6 ±0.46)	0.236 ±0.024 (6.0 ±0.61)
	Pressure Rating @ 73°F, psi (kPa)	250 (1724)	250 (1724)	250 (1724)	250 (1724)	250 (1724)
	Weight, gm/ft (gm/m)	46 ±2 (151 ±7)	78 ±3 (256 ±10)	125 ±4 (410 ±13)	162 ±4 (531 ±13)	275 ±5 (902 ±16)



Gentlemen:

To the best of our belief, all stainless steel nipples manufactured in the U.S.A by Merit Brass Co., Cleveland, OH, are dual certified and conform to specification ASTM A733. Threads conform to the requirements of ANSI B1.20.1, except for close nipples, which are not covered under ANSI.

Stainless steel pipe nipples are manufactured from stainless steel pipe that conforms to specification ASTM A312/SA312. We can produce objective evidence of this compliance as it is on file and available for review by appropriate parties

Sincerely,

MERIT BRASS COMPANY

A handwritten signature in cursive script that reads "Marc Schlessinger".

Marc Schlessinger  
President

ISO 9001:2000



Certificate No. 8375

P.O. Box 43127 • One Merit Drive • Cleveland, OH 44143

Phone: 216 261 9800 • Toll Free: 800 726 9800 • Fax: 800 726 9880 • [www.meritbrass.com](http://www.meritbrass.com)



December 18, 2013

To our valued customer:

We hereby certify that to the best of our knowledge and belief all brass nipples manufactured by Merit Brass Company in Cleveland, Ohio conform to specification ASTM B687-88.

Nipples are threaded with American Standard taper pipe threads (NPT) in accordance with screw-threaded standard for Federal Services Handbook H-28.

Brass nipples have a weighted average lead content of  $\leq .25\%$  and are in compliance with lead content requirements for lead free plumbing as defined by the U.S. Safe Drinking Water Act.

Sincerely,

Alan Lipp,

Chief Operating Officer



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001-001  
001-001

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