



The Ford Meter Box Company, Inc.

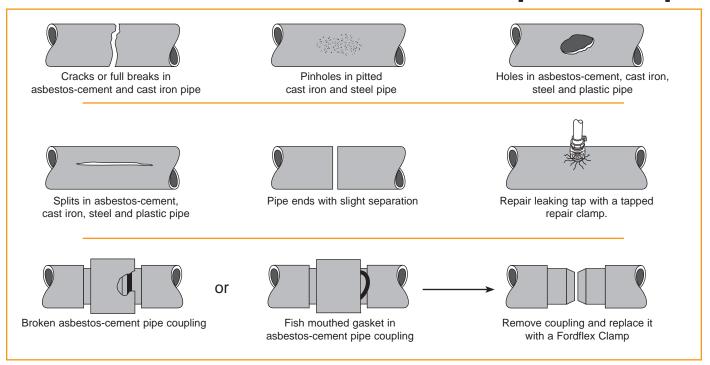
775 Manchester Avenue, P.O. Box 443, Wabash, Indiana, USA 46992-0443 Telephone: 260-563-3171 FAX: 800-826-3487 Overseas FAX: 260-563-0167 http://www.fordmeterbox.com



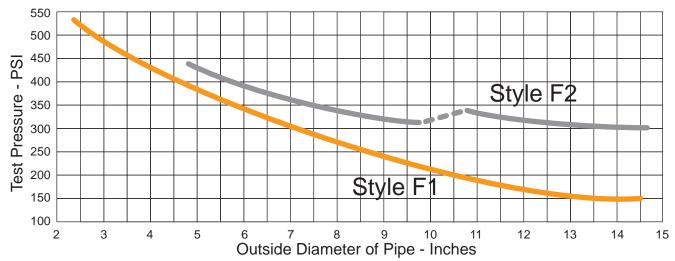
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TYPE OF CLAMP F1 = Single Band Stainless Steel Clamp with Ductile Iron Lugs F2 = Double Band Stainless Steel Clamp with Ductile Iron Lugs F2W = Special Range Double Band Stainless Steel Clamp with Ductile F3 = Triple Band Stainless Steel Clamp with Ductile Iron Lugs F51 = Single Band All Stainless Steel Clamp F52 = Double Band All Stainless Steel Clamp F53 = Triple Band All Stainless Steel Clamp F54 = Snap Clamp F55 = Snap Clamp F56 = All Stainless Steel Snap Clamp F66 = Repair Clamp for Coupling Solvent Weld PVC F67 = Bell Joint Leak Clamp F186 = Repair Clamp for Integral Bell Solvent Weld PVC FF7 = 939 O.D. SIZE For most clamp styles, the O.D. size number indicates the top end of the range. Use listed Catalog sizes.	CLAMP LENGTH (Lengths are not required on styles FBC, FCC and FIBC) 3 = 3" (FSC, FSC-R and FLSC only) 6 = 6" (FSC, FSC-R and FLSC) 75 = 7-1/2" 9 = 9" (FSC, FSC-R and FLSC only) 10 = 10" 12 = 12" (FSC, FSC-R and FLSC only) 125 = 12-1/2" 15 = 15" 20 = 20" 24 = 24" 30 = 30" CC3 = 3/4" AWWA Tapped Thread CC4 = 1" AWWA Tapped Thread CC5 = 1-1/4" AWWA Tapped Thread CC5 = 1-1/4" AWWA Tapped Thread CC7 = 2" AWWA Tapped Thread CC7 = 2" AWWA Tapped Thread CS = Conductivity Strips EPDM = EPDM Rubber Gasket for Repair Clamp E3 = E-Coated Lugs (F1, F2, F3, FCC and FIBC) IP3 = 3/4" Iron Pipe Tapped Thread IP4 = 1" Iron Pipe Tapped Thread IP5 = 1-1/4" Iron Pipe Tapped Thread IP6 = 1-1/2" Iron Pipe Tapped Thread IP7 = 2" Iron Pipe Tapped Thread IP8 = Wrap Clamp, features a 360° gasket SH = Stainless Steel Nuts & Bolts (for ductile lug clamps)

Typical Problems Solved With Ford Repair Clamps



Hydrostatic Test Pressures – Average



Conditions of Test

- Test Pipe: asbestos-cement, cast iron or steel
- Two pieces of test pipe with average space of 1/8" between ends, coupled together with 7-1/2" wide Fordflex Clamp
- 5/8" bolts (clamps up through 4.73" O.D.) tightened to a torque of 30-35 ft. lbs., 5/8" bolts (clamps over 4.73 O.D.) to 70-80 ft. lbs., and 3/4" bolts to 90-100 ft. lbs.

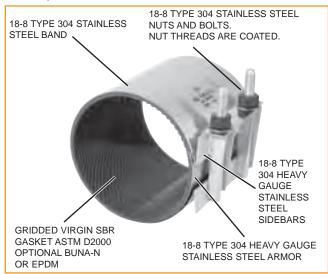
Ford offers more than 10,000 products that are Classified by Underwriters Laboratories Inc. to ANSI/NSF Standard 61. To verify if a product is classified to this Standard, contact the Ford Meter Box Customer Service Department at 260-563-3171 or go to http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm to view our compliant product listings. The UL marking will be on the box label to indicate that the product is classified to the ANSI/NSF Standard 61. Ford Meter Box meets your needs for products that are proven and reliable.



Ford Quality Circle Repair Clamps

The Ford Styles FS1, FS2 and FS3 All Stainless Steel Repair Clamp combines the corrosion-resistant characteristics of stainless steel and the sealing capabilities of rubber to provide a strong, dependable and versatile repair clamp.

The All Stainless design is lightweight and easy to handle under adverse conditions associated with almost every main break. The fixed bolt position provides uniform bolt control and fewer parts to fall into the trench. The sliding lifter bar is retained on the bolts by the heavy hex nuts and facilitates the installation by serving as a handle to hold while installing the clamp.



Specifications:

Band: 18-8 Type 304 Stainless Steel.

Bolts and Heavy Hex Nuts: 18-8 Type 304 Stainless Steel. Nut threads are coated to prevent galling. Bolts are permanently attached to the clamp sidebar by means of a

Metal Inert Gas (MIG) weld.

Lugs: 18-8 Type 304 heavy gauge Stainless Steel, MIG

welded to clamp sidebar.

Sidebars: 18-8 Type 304 heavy gauge Stainless Steel

Tungsten Inert Gas (TIG) welded to form a strong, permanent fusion with the repair clamp band.

Lifter Bar: 18-8 Type 304 heavy gauge Stainless Steel. Lip

curve holds bolts in position while tightening and serves as a bearing surface for nuts and

Nylatron GS™ self lubricating washers.

Gasket: Gridded virgin Styrene Butadene Rubber (SBR)

compounded for water service, ASTM D2000. Gasket ends are tapered for a dependable seal. SBR is suitable for temperatures of 150°F constant, 180°F intermittent. An optional Buna-N, nitrile gasket is recommended for 220°F constant

and/or 240°F intermittent.

Armor: 1/4 hard 18-8 Type 304 heavy gauge Stainless

Steel vulcanized and recessed into the gasket to ensure uniform compression against the pipe.

Passivated: All clamps are fully passivated by means of a

chemical technique which restores the corrosion resistant characteristics of the stainless steel.

Options: • Conductivity Strips

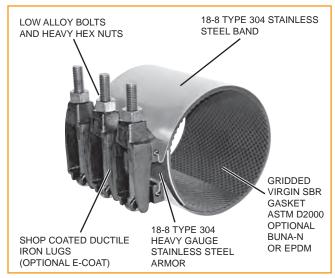
Buna-N Gasket

(suitable for natural gas applications)

EPDM Gasket

Ford Styles F1, F2 and F3 Repair Clamps provide a simple and economical method of repairing holes or breaks in water mains, particularly where corrosion is not a factor. Ford clamps offer heavy-duty lug construction for maximum strength and a drop-in bolt design that does not require bolt removal when installing the clamp. There are never any loose parts to lose in the ditch.

Ford Repair Clamps come in a wide variety of styles and cover a wide range of pipe diameters; other fine features of Ford Repair Clamps are shown below.



Specifications:

Band: 18-8 Type 304 Stainless Steel.

Bolts and Heavy Hex

Nuts: Low alloy per ASTM A242 and AWWA C111.

Lugs: Ductile iron ASTM A536. Lugs can be temporarily

removed to assist installation in tight spaces.

Gasket: Gridded virgin Styrene Butadene Rubber (SBR)

compounded for water service ASTM D2000.
Gasket ends are tapered for a dependable seal.
SBR is suitable for temperatures of 150°F
constant, 180°F intermittent. An optional Buna-N,
nitrile gasket is recommended for 220°F constant

and/or 240°F intermittent.

Armor: 1/4 hard 18-8 Type 304 heavy gauge Stainless

Steel vulcanized and recessed in the gasket to ensure uniform compression against the pipe.

Finish: Shop Coat.

Options: • Stainless Steel Nuts and bolts

Conductivity Strips

 Buna-N Gasket (suitable for natural gas applications)

EPDM Gasket

E-Coated Lugs

ANSI/NSF Standard 61 see page L-3

Installation Guide

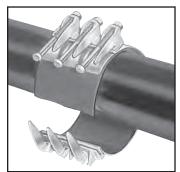
Ford Style F Quality Circle Repair Clamps and Ford Style FS All Stainless Steel Quality Circle Repair Clamps

The successful application of a repair clamp depends heavily on the installer. We suggest the following guidelines as routine practice.

- 1. CHECK DIAMETER OF PIPE TO MAKE CERTAIN YOU ARE USING THE CORRECT SIZE CLAMP.
- 2. Scrape pipe to remove as much dirt and corrosion as possible so surface is smooth.
- 3. Make certain the gasket is free of foreign material and that nothing becomes lodged between the gasket and the pipe. Lubricate the pipe and/or gasket with soapy water to achieve maximum results.
- 4. Avoid loose fitting wrenches and wrenches that are too short to achieve proper torque of nuts. A torque wrench is recommended.
- 5. Although threads are coated to prevent galling between bolt and nut, keep threads free of foreign material to facilitate tightening.
- 6. Tighten all sections of a multi-section clamp evenly to the recommended torque.
- 7. ALWAYS RECHECK TORQUE AND PRESSURE TEST FOR LEAKS BEFORE BACKFILLING.
- 8. Backfill and compact carefully around clamp according to pipe manufacturer's instructions.

Caution: Repair clamps are not designed to restrain axial pipe movement. Make sure proper restraint is applied when necessary.

Installing an F1 Repair Clamp



Back off nuts to end of bolts, but DO NOT remove them. Separate clamp and position on the pipe with the bolt lug section on top.



Hook the middle bolt into the receiver lug and tighten the nut until the bolt is secure.



ROTATE THE CLAMP in the direction of the arrow approximately 1/4 turn to ensure proper gasket positioning.



Squeeze the two lug sections together. Tighten the bolts evenly with incremental torque settings, up to the recommended torque.

RECOMMENDED TORQUE									
Clamp Top Bolt Diameter Approx.									
Range	Boil Diameter	Torque							
Thru 5.62"	5/8"	30 / 35 ft. lbs.							
6.35" & Above	5/8"	75 ft. lbs.							

Installing an FS1 All Stainless Steel Repair Clamp



Back off nuts to end of bolts, but DO NOT remove them. Separate clamp and wrap it around the pipe by holding the lifter bar and bolts above the pipe and sliding the receiver section under the pipe.



Bring the lifter bar and receiver section together at a convenient position on top of the pipe.



Slide the lifter bar up the receiver lugs and snap into place. Spin one of the nuts hand tight.



Tighten all nuts evenly with incremental torque settings, up to the recommended torque.

For a proper installation Ford recommends that bolts be tightened to the following torque values; for 1/2" bolts - 50-60 Ft. Lbs., 5/8" bolts (clamps up through 4.73" O.D.) - 30-35 Ft. Lbs., 5/8" bolts (clamps over 4.73" O.D.) - 70-80 Ft. Lbs., and 3/4" bolts - 90-100 Ft. Lbs.

Ford All Stainless Steel Quality Circle Repair Clamps

ANSI/NSF Standard 61 see page L-3

Style FS1 (single section)
Operating Range .40" (4" and larger)

To order: Specify Catalog Number x Length of clamp desired.

Example: FS1-724 x 12.5 would be a one-section clamp for pipe with an O.D. of

between 6.84 and 7.24, and the length of the clamp would be 12.5".

Options Include: Buna-N Gasket - add "-N" to Catalog Number

EPDM Gasket - add "-EPDM" to Catalog Number Conductivity Strips - add "-CS" to Catalog Number

Note: Sizes and lengths not listed (including metric) are available upon request. Contact the Ford Meter Box Customer Service Department for information.



Nom. PIPE	PIPE O.D.	CATALOG		LE	NGTH AND A	APPROXIMAT	E SHIPPING	WEIGHT L	.BS.	
Size	RANGE	Number	6"	7.5"	10"	12.5"	15"	20"	24"	30"
2"	2.05-2.25	FS1-225xLength	4 Lbs.	4 Lbs.	5 Lbs.	5 Lbs.	N/A	N/A	N/A	N/A
	2.35-2.63	FS1-263xLength	4	4	5 5	5	7	IN/A	IN/A	IN/A
2-1/4"x2-1/2"	2.70-3.00	FS1-300xLength	4	5	5	6	8	N/A	N/A	N/A
	2.97-3.25	FS1-325xLength								
3"	3.46-3.70	FS1-370xLength	4	5	5	6	9	N/A	N/A	N/A
	3.73-4.00	FS1-400xLength								
3"- 4"	3.96-4.25	FS1-425xLength	5	5	6	7	9	N/A	N/A	N/A
J - 4	4.45-4.73	FS1-473xLength	3	3	0	'	9	IN/A	IN/A	IN/A
	4.74-5.14	FS1-514xLength								
4"	4.95-5.35	FS1-535xLength	5	6	7	8	10	14	16	21
	5.22-5.62	FS1-562xLength								
	5.95-6.35	FS1-635xLength								
	6.56-6.96	FS1-696xLength								
6"	6.84-7.24	FS1-724xLength	N/A	7	9	10	14	17	21	27
	7.05-7.45	FS1-745xLength								
	7.45-7.85	FS1-785xLength								
	7.95-8.35	FS1-835xLength								
8"	8.54-8.94	FS1-894xLength	N/A	_	10	11	4.5	40	0.4	20
8"	8.99-9.39	FS1-939xLength	IN/A	8	10	111	15	19	24	30
	9.27-9.67	FS1-967xLength								
	9.70-10.10	FS1-1010xLength								
	10.60-11.04	FS1-1104xLength								
10"	11.04-11.44	FS1-1144xLength	N/A	11	14	16	24	28	32	42
	11.34-11.74	FS1-1174xLength								
	11.75-12.15	FS1-1215xLength								
	12.00-12.40	FS1-1240xLength								
	12.60-13.02	FS1-1302xLength								
	13.10-13.50	FS1-1350xLength								
12"	13.40-13.80	FS1-1380xLength	N/A	13	16	18	27	30	36	48
	13.70-14.10	FS1-1410xLength								
	14.00-14.40	FS1-1440xLength								
	NUMBER OF ST		2	2	3	3-4*	4	6	7	9

^{*12.5&}quot; long clamps in the 10" and 12" Nominal Pipe Size have 4 studs.

Tapped Repair Clamps



	CC (AWV	VA) THREA	.D	IP THREAD				
Size	CODE	MIN. CL	AMP SIZE	Size	CODE	MIN. CLAMP SIZE		
SIZE	NUMBER	FS1	FS2	SIZE	NUMBER	FS1	FS2	
3/4"	CC3	2.63	5.24	3/4"	IP3	2.63	5.24	
1"	CC4	2.63	5.24	1"	IP4	2.63	5.24	
1-1/4"	CC5	3.70	5.24	1-1/4"	IP5	3.70	5.24	
1-1/2"	CC6	4.25	5.24	1-1/2"	IP6	3.70	5.24	
2"	CC7	4.73	5.57	2"	IP7	4.25	5.57	

Tapping Codes

OUTLET TAPS for corporation stops are available on Ford Stainless Steel Clamps. The Minimum Clamp Size for each tap type and size is listed in the Tapping Code table above. The tapped outlet is 18-8 Type 304 stainless steel and is "fused" to the clamp band by a fully passivated TIG weld.

To Order: 1. Select the proper code from table to match desired size and type of thread.

2. Add code to catalog number of repair clamp.

Example: The number for an FS1-724-12.5 with a 3/4" CC tap is FS1-724-125-CC3.

Note: Tapped Repair Clamps are non-returnable.

Ford All Stainless Steel Quality Circle **Repair Clamps**

ANSI/NSF Standard 61 see page L-3



Style FS2 (double section) **Operating Range .80"**

To order: Specify Catalog Number x Length of clamp desired.

Example: FS2-764 x 10 would be a two-section clamp for pipe with an O.D. of between 6.84 and 7.64, and the length of the clamp would

Options Include: Buna-N Gasket - add "-N" to Catalog Number EPDM Gasket - add "-EPDM" to Catalog Number Conductivity Strips (FS2-979 and larger) add "-CS" to Catalog Number

Note: Sizes and lengths not listed (including metric) are available upon request. Contact the Ford Meter Box Customer Service Department for information.

Nom. Pipe	PIPE O.D.	CATALOG		LENGTH A	ND APPRO	XIMATE SH	IIPPING W	EIGHT LBS	
SIZE	RANGE	Number	7.5"	10"	12.5"	15"	20"	24"	30"
4"	4.44-5.24	FS2-524xLength	11 Lbs.	14 Lbs.	18 Lbs.	26 Lbs.	32 Lbs.	38 Lbs.	N/A
4	4.74-5.57	FS2-557xLength	III LDS.	14 LDS.	TO LUS.	20 LDS.	32 LDS.	30 LDS.	IN/A
6"	6.62-7.42	FS2-742xLength	12	15	19	28	35	42	45
	6.84-7.64	FS2-764xLength	12	15	19	20	33	42	45
8"	8.62-9.42	FS2-942xLength	13	17	21	30	38	46	51
	8.99-9.79	FS2-979xLength	13	17	21	30	30	40	31
	10.70-11.50	FS2-1150xLength						50	
10"	11.04-11.84	FS2-1184xLength	N/A	18	23	32	41		54
	11.60-12.40	FS2-1240xLength							
	12.70-13.50	FS2-1350xLength							
12"	13.14-13.94	FS2-1394xLength	N/A	19	25	34	44	54	57
	13.65-14.45	FS2-1445xLength							
14"	15.07-15.82	FS2-1582xLength	N/A	20	27	36	47	58	63
16"	16" 17.15-17.90 FS2-1790xLength		N/A	22	29	38	50	62	66
	NUMBER OF ST	TUDS	4	6	6-8*	8	12	14	18

^{* 12.5&}quot; long clamps in the 10" thru 16" Nominal Pipe Size have 8 studs.

Style FS3 (triple section) **Operating Range 1.20"**

To order: Specify Catalog Number x Length of clamp desired.

Example: FS3-1920 x 24 would be a three-section clamp for pipe with an O.D. between 18.00 and 19.20, and the length of the clamp would

be 24".

Options Include: Buna-N Gasket - add "-N" to Catalog Number

EPDM Gasket - add "-EPDM" to Catalog Number Conductivity Strips - add "-CS" to Catalog Number

Note: Sizes and lengths not listed (including metric) are available upon request. Contact the Ford Meter Box Customer Service Department for information.



Nom. PIPE	PIPE O.D.	CATALOG	LENGTH AND APPROXIMATE SHIPPING WEIGHT LBS						
SIZE	RANGE	Number	12.5"	15"	20"	24"	30"		
16"	17.10-18.30	FS3-1830xLength	31 Lbs.	40 Lbs.	52 Lbs.	64 Lbs.	77 Lbs.		
18"	18.00-19.20	FS3-1920xLength	35	44	56	68	84		
10	19.50-20.70	FS3-2070xLength	35	44	36	00	04		
20"	21.60-22.80	FS3-2280xLength	41	48	60	73	89		
24"	25.80-27.00	FS3-2700xLength	46	53	65	79	102		
	Number of Studs			12	18	21	27		

Ford Quality Circle Repair Clamps

Style F1 (single section) Operating Range .40" (4" and larger)

ANSI/NSF Standard 61 see page L-3

To order: Specify Catalog Number x Length of clamp desired.

Example: F1-724 x 12.5 would be a one-section clamp for pipe with an O.D. of

between 6.84 and 7.24, and the length of the clamp would be 12.5".

Options Include: Buna-N Gasket - add "-N" to Catalog Number EPDM Gasket - add "-EPDM" to Catalog Number Conductivity Strips - add "-CS" to Catalog Number

Blue Fluorocarbon Coated Nuts and Bolts - add "-BBN" to Catalog Number Type 304 Stainless Steel Bolts & Nuts - add "-SH" to Catalog Number

E-Coated Lugs - add "-E3" to Catalog Number

Note: Sizes and lengths not listed (including metric) are available upon request. Contact the Ford Meter

Box Customer Service Department for information.



Nom. Pipe	PIPE O.D.	CATALOG	Le	NGTH AND		MATE SHIF		GHT LBS.
SIZE	RANGE	Number	7.5"	10"	12.5"	15"	20"	30"
1"	1.88-2.15	F1-215xLength	7 Lbs.	9 Lbs.	12 Lbs.	14 Lbs.	N/A	N/A
2"	2.35-2.63	F1-263xLength	7	9	12	14	N/A	N/A
2-1/4"-2-1/2"	2.70-3.00	F1-300xLength	7	10	12	14	N/A	N/A
2-1/4 -2-1/2	2.70-3.13	F1-313xLength	7	10	12	14	N/A	N/A
	2.97-3.25	F1-325xLength						
3"	3.46-3.70	F1-370xLength	8	10	12	14	N/A	N/A
	3.73-4.00	F1-400xLength						
	3.73-4.13	F1-413xLength						
3"-4"	3.96-4.25	F1-425xLength	8	11	13	15	N/A	N/A
	4.45-4.75	F1-475xLength						
	4.74-5.14	F1-514xLength						
4"	4.95-5.35	F1-535xLength	11	15	18	22	29	44
	5.22-5.62	F1-562xLength						
	5.95-6.35	F1-635xLength	40	4.0	20	0.4	20	40
	6.56-6.96	F1-696xLength	12	16	20	24	32	48
6"	6.84-7.24	F1-724xLength						
	7.05-7.45	F1-745xLength	13	17	21	25	34	51
	7.45-7.85	F1-785xLength						
	7.95-8.35	F1-835xLength						
	8.54-8.94	F1-894xLength	14	19	23	28	37	55
8"	8.99-9.39	F1-939xLength						
8	9.27-9.67	F1-967xLength						
	9.70-10.10	F1-1010xLength	15	20	25	29	38	58
	9.90-10.30	F1-1030xLength						
	10.60-11.04	F1-1104xLength						
40"	11.04-11.44	F1-1144xLength	40	0.4	00	0.4		00
10"	11.34-11.74	F1-1174xLength	16	21	26	31	41	62
	11.75-12.15	F1-1215xLength						
	12.00-12.40	F1-1240xLength						
	12.60-13.02	F1-1302xLength	17	22	28	33	44	67
40"	13.10-13.50	F1-1350xLength						
12"	13.40-13.80	F1-1380xLength						
	13.70-14.10	F1-1410xLength	18	23	29	35	46	70
	14.00-14.40	F1-1440xLength						

Tapped Repair Clamps



			Tapping	Code	s		
	CC (AWV	VA) THREA	D		IP T	HREAD	
SIZE	CODE	MIN. CL	AMP SIZE	C	CODE	MIN. CL	AMP SIZE
SIZE	NUMBER	F1	F2 (W)	Size	NUMBER	F1	F2 (W)
3/4"	CC3	2.63	5.60	3/4"	IP3	2.63	5.60
1"	CC4	2.63	5.60	1"	IP4	2.63	5.60
1-1/4"	CC5	3.70	5.60	1-1/4"	IP5	3.70	5.60
1-1/2"	CC6	4.25	5.60	1-1/2"	IP6	3.70	5.60
2"	CC7	4.73	5.60	2"	IP7	4.25	5.60

OUTLET TAPS for corporation stops are available on Ford Stainless Steel Clamps. The Minimum Clamp Size for each tap type and size is listed in the Tapping Code table above. The tapped outlet is 18-8 Type 304 stainless steel and is "fused" to the clamp band by a fully passivated TIG weld.

To Order: 1. Select the proper code from table to match desired size and type of thread.

2. Add code to catalog number of repair clamp.

Example: The number for an F1-724-12.5 with a 3/4" CC tap is F1-724-125-CC3.

Note: Tapped Repair Clamps are non-returnable.

Ford Quality Circle Repair Clamps

ANSI/NSF Standard 61 see page L-3

Style F2 (double section) / Operating Range .80"

To Order: Specify Catalog Number x Length of clamp desired.

Example: F2-1445 x 20 would be a two-section clamp for pipe with an O.D. of between 13.65 and 14.45, and the

length of the clamp would be 20".

Options Include: Buna-N Gasket - add "-N" to Catalog Number EPDM Gasket - add "-EPDM" to Catalog Number

Conductivity Strips (F2-979 and larger) - add "-CS" to Catalog Number Blue Fluorocarbon Coated Nuts and Bolts - add "-BBN" to Catalog Number Type 304 Stainless Steel Bolts & Nuts - add "-SH" to Catalog Number

E-Coated Lugs - add "-E3" to Catalog Number

Note: Sizes and lengths not listed (including metric) are available upon request. Contact the Ford Meter

Box Customer Service Department for information.

Nom. PIPE	PIPE O.D.	CATALOG		IGTH AND A	PPROXIMAT	E SHIPPING	WEIGHT L	.BS.
SIZE	RANGE	Number	7.5"	10"	12.5"	15"	20"	30"
4"	4.44-5.24 4.74-5.57	F2-524xLength F2-557xLength	20 Lbs.	27 Lbs.	32 Lbs.	40 Lbs.	53 Lbs.	80 Lbs.
4" Special	4.45-5.60	F2W-560xLength	N/A	29	N/A	43	58	87
6"	6.62-7.42 6.84-7.64	F2-742xLength F2-764xLength	22	29	36	43	57	86
8"	8.62-9.42 8.99-9.79	F2-942xLength F2-979xLength	23	29	38	46	61	92
10"	10.70-11.50 10.72-11.72 11.04-11.84 11.60-12.40	F2-1150xLength F2-1172xLength F2-1184xLength F2-1240xLength	24	30	42	46	69	98
10" Special	11.04-12.24	F2W-1224xLength	N/A	48	N/A	71	95	144
12"	12.70-13.50 12.72-13.92 13.14-13.94 13.65-14.45	F2-1350xLength F2-1392xLength F2-1394xLength F2-1445xLength	27	30	44	47	70	100
12" Special	13.14-14.34	F2W-1434xLength	N/A	50	N/A	75	98	155
	13.65-14.65	F2-1465xLength	N/A	31	N/A	48	71	101
	14.38-15.13	F2-1513xLength	N/A	31	N/A	48	71	101
	15.07-15.82	F2-1582xLength	N/A	31	N/A	49	71	101
	15.20-16.20	F2-1620xLength	N/A	32	N/A	49	72	102
	15.92-16.67	F2-1667xLength	N/A	32	N/A	49	72	102
	16.00-17.00	F2-1700xLength	N/A	32	N/A	50	72	103
	16.56-17.31	F2-1731xLength	N/A	32	N/A	50	72	103
	17.15-17.90	F2-1790xLength	N/A	32	N/A	50	72	104
	17.20-18.20	F2-1820xLength	N/A	32	N/A	50	72	104
	17.82-18.57	F2-1857xLength	N/A	33	N/A	52	73	104
Range	18.46-19.21	F2-1921xLength	N/A	33	N/A	53	73	104
Range	18.40-19.40	F2-1940xLength	N/A	34	N/A	53	74	105
	19.23-19.98	F2-1998xLength	N/A	34	N/A	53	74	105
	19.40-20.40	F2-2040xLength	N/A	34	N/A	53	74	105
	19.90-20.65	F2-2065xLength	N/A	34	N/A	53	74	105
	20.40-21.40	F2-2140xLength	N/A	34	N/A	53	74	105
	20.70-21.45	F2-2145xLength	N/A	35	N/A	54	75	106
	21.52-22.27	F2-2227xLength	N/A	35	N/A	54	75	106
	21.40-22.40	F2-2240xLength	N/A	36	N/A	55	76	110
	22.12-22.87	F2-2287xLength	N/A	36	N/A	55	76	110
	22.50-23.60	F2-2360xLength	N/A	36	N/A	55	76	110
	22.90-23.65	F2-2365xLength	N/A	36	N/A	55	76	110
	NUMBER OF B	OLTS	6	8	10	12	16	24



Style F3 (triple section) / Operating Range 1.20"

To order: Specify Catalog Number x Length of clamp desired.

Example: F3-2680 x 30 would be a three-section clamp for pipe with an O.D. of

between 25.60 and 26.80, and the length of the clamp would be 30". Options Include: Buna-N Gasket - add "-N" to Catalog Number EPDM Gasket - add "-EPDM" to Catalog Number Conductivity Strips - add "-CS" to Catalog Number

Type 304 Stainless Steel Bolts & Nuts - add "-SH" to Catalog Number

E-Coated Lugs - add "-E3" to Catalog Number

Note: Sizes and lengths not listed (including metric) are available upon request. Contact the Ford Meter Box Customer Service Department for information.

Nom. PIPE	PIPE O.D.	CATALOG	LENGTH AND APPROXIMATE SHIPPING WEIGHT LBS.					
SIZE	RANGE	Number	10"	15"	20"	30"		
	23.18-24.38	F3-2438xLength	102 Lbs.	148 Lbs.	185 Lbs.	268 Lbs.		
	24.28-25.48	F3-2548xLength	104	151	188	272		
	25.60-26.80	F3-2680xLength	106	152	190	275		
Range	26.38-27.58	F3-2758xLength	107	155	193	278		
	27.55-28.75	F3-2875xLength	109	158	197	283		
	28.63-29.83	F3-2983xLength	111	160	202	287		
	29.52-30.72	F3-3072xLength	113	163	204	290		
	NUMBER OF BO	DLTS	12	18	24	36		

Ford Snap Clamps

Style FSC

For Economical Repair of Water Pipe Leaks

Ford Snap Clamps offer a handy and economical way to repair pinholes and other small leaks that do not require a full gasket seal. A heavy gridded gasket design and "cushion lugs" make them ideal for older pitted pipe that has worn thin over the years.

To order: Specify Catalog Number by Length of desired clamp. For example, a

FSC-190x6 would be a 6" long clamp for 1-1/2" Standard Steel pipe.

Shell: 18-8 Type 304 Stainless Steel

Lugs: Ductile Iron per ASTM A536, electrodeposited zinc finish Gaskets: Buna-N with heavy grid design extended lug-to-lug

Bolts: AISI C1018 steel, 3/8" and/or 7/16" electrodeposited zinc with Di-chromate seal



Nom. PIPE	PIPE	CATALOG		LE	NGTH AND	A PPROXIMAT	E SHIPPING	WEIGHT LE	3S.	
SIZE	O.D.	Number	3"	CTN. QTY.	6"	CTN. QTY.	9"	CTN. QTY.	12"	CTN. QTY.
1/2"	0.84	FSC-084xLength	.54 Lbs.	25	1.08 Lbs.	12	N/A	-	N/A	-
3/4"	1.05	FSC-105xLength	.55	25	1.10	12	1.7	-	N/A	-
1"	1.32	FSC-132xLength	.56	20	1.12	10	1.7	-	N/A	-
1-1/4"	1.66	FSC-166xLength	.58	18	1.16	12	2.2	-	N/A	-
1-1/2"	1.90	FSC-190xLength	.60	12	1.20	12	2.2	2	2.4	2
2"	2.38	FSC-238xLength	1.00	10	2.00	12	3.2	2	4.0	2
2-1/2"	2.88	FSC-288xLength	1.05	10	2.10	12	3.4	2	4.2	2
3"	3.50	FSC-350xLength	1.30	10	2.60	6	3.6	1	5.2	1
3-1/2"	4.00	FSC-400xLength	1.35	10	2.70	6	3.9	1	5.4	1
4"	4.50	FSC-450xLength	1.40	10	2.80	6	4.0	1	5.6	1
5"	5.56	FSC-556xLength	1.60	6	3.20	3	4.8	1	6.4	1
6"	6.00	FSC-600xLength	1.72	6	3.45	2	4.9	1	6.9	1
	6.63	FSC-663xLength	1.85	6	3.70	2	6.2	1	7.4	1
8"	8.00	FSC-800xLength	2.00	3	4.00	2	6.4	1	8.0	1
٥	8.63	FSC-863xLength	2.20	3	4.40	2	6.6	1	8.8	1

Ford Wrap Clamps

Special Style FSC Clamp with Full-Wrap Gasket

Ford Wrap Clamps offer the same leak repair features of the Snap Clamp with the extra assurance of 360° gasket coverage. Specific sizes are available for I.P.S. steel or copper.

To order: Specify Catalog Number. Example: an FSC-190-6R would be a 6" long

clamp for 1-1/2" Standard Steel pipe.

Shell: 18-8 Type 304 Stainless Steel

Lugs: Ductile Iron per ASTM A536, electrodeposited zinc finish

Gasket: Buna-N rubber with gridded armored gasket for 360° coverage

Bolts: AISI C1018 steel, 3/8" and/or 7/16" electrodeposited zinc with Di-chromate seal



Nom. PIPE	PIPE	3" Lo	NG CLAMP (1 BOLT)		6" Lor	NG CLAMP (2 BOLTS)	
SIZE	O.D.	CATALOG NUMBER	APPROX. WT. LBS.	CTN. QTY.	CATALOG NUMBER	APPROX. WT. LBS.	CTN. QTY.
1/2"	0.625	FSC-063-3R	.75	25	N/A	_	_
1/2	0.84	FSC-084-3R	.75	25	FSC-084-6R	_	_
3/4"	0.875	FSC-088-3R	70	25	FSC-088-6R	1 50	12
3/4	1.05	FSC-105-3R	.78	25	FSC-105-6R	1.56	12
1"	1.125	FSC-113-3R	O.F.	20	FSC-113-6R	1 51	10
1	1.32	FSC-132-3R	.85	20	FSC-132-6R	1.51	10
4 4/4"	1.375	FSC-138-3R	00	40	FSC-138-6R	4.07	40
1-1/4"	1.66	FSC-166-3R	.92	18	FSC-166-6R	1.87	12
4.4/0"	1.625	FSC-163-3R	4.00	40	FSC-163-6R	0.05	40
1-1/2"	1.90	FSC-190-3R	1.03	12	FSC-190-6R	2.05	12
0"	2.125	FSC-213-3R	4.50	40	FSC-213-6R	2.00	40
2"	2.38	FSC-238-3R	1.50	10	FSC-238-6R	3.00	12

To order: Specify Catalog Number. Example: an FSC-190-6R would be a 6" long clamp for 1-1/2" Standard Steel pipe.

Ford All Stainless Steel Snap Clamps



Style FLSC

Ford All Stainless Steel Snap Clamps offer a handy way to repair pinholes and other small leaks that do not require a full gasket seal. A heavy gridded gasket design and "cushion lugs" make them ideal for older pitted pipe that has worn thin over the years. The All Stainless Steel Snap Clamp offers the same conveniences and performance of the traditional Snap Clamp with the added security of stainless steel lugs and bolts.

To order: Specify Catalog Number by Length of desired clamp. For example, a FLSC-190x6 would be a 6" long clamp for 1-1/2" Standard Steel pipe.

Shell: 18-8 Type 304 Stainless Steel **Lugs:** 18-8 Type 304 Stainless Steel

Gaskets: Buna-N with heavy grid design extended lug-to-lug

Bolts: 18-8 Type 304 Stainless Steel

Nom. Pipe	PIPE	Caranaa			I ENGTH AN	D A DDD 0.411		ING MEIGUE	Lno	
_		CATALOG		LENGTH AND APPROXIMATE SHIPE						T
SIZE	O.D.	Number	3"	CTN. QTY.	6"	CTN. QTY.	9"	CTN. QTY.	12"	CTN. QTY.
1/2"	0.84	FLSC-084xLength	.54 Lbs.	25	1.08 Lbs.	12	N/A	-	N/A	-
3/4"	1.05	FLSC-105xLength	.55	25	1.10	12	1.7	-	N/A	-
1"	1.32	FLSC-132xLength	.56	20	1.12	10	1.7	-	N/A	-
1-1/4"	1.66	FLSC-166xLength	.58	18	1.16	12	1.8	-	N/A	-
1-1/2"	1.90	FLSC-190xLength	.60	12	1.20	12	1.8	2	2.9	2
2"	2.38	FLSC-238xLength	1.00	10	2.00	12	3.0	2	4.1	2
2-1/2"	2.88	FLSC-288xLength	1.05	10	2.10	12	3.2	2	4.4	2
3"	3.50	FLSC-350xLength	1.30	10	2.60	6	3.9	1	4.8	1
3-1/2"	4.00	FLSC-400xLength	1.35	10	2.70	6	4.0	1	4.9	1
4"	4.50	FLSC-450xLength	1.40	10	2.80	6	4.2	1	5.2	1
5"	5.56	FLSC-556xLength	1.60	6	3.20	3	4.8	1	5.0	1
6"	6.00	FLSC-600xLength	1.72	6	3.45	2	5.2	1	5.1	1
· · ·	6.63	FLSC-663xLength	1.85	6	3.70	2	5.6	1	6.6	1
8"	8.00	FLSC-800xLength	2.00	3	4.00	2	6.0	1	7.7	1
8"	8.63	FLSC-863xLength	2.20	3	4.40	2	6.6	1	7.9	1

Ford All Stainless Steel Wrap Clamps

Style FLSC Clamp with Full-Wrap Gasket



Ford Wrap Clamps offer the same Leak Repair features of the Snap Clamp with the extra assurance of 360° gasket coverage. Specific sizes are available for I.P.S. steel or copper. The All Stainless Steel Wrap Clamp offers the same conveniences and performance of the traditional Wrap Clamp with the added security of stainless steel lugs and bolts.

To order: Specify Catalog Number. Example: an FLSC-190-6R would be a 6" long

clamp for 1-1/2" Standard Steel pipe.

Shell: 18-8 Type 304 Stainless SteelLugs: 18-8 Type 304 Stainless Steel

Gasket: Buna-N rubber with gridded armored gasket for 360° coverage

Bolts: 18-8 Type 304 Stainless Steel

Nom. PIPE	PIPE	3" Lo	ONG CLAMP (1 BOLT)		6" LONG CLAMP (2 BOLTS)			
SIZE	O.D.	CATALOG NUMBER	APPROX. WT. LBS.	CTN. QTY.	CATALOG NUMBER	APPROX. WT. LBS.	CTN. QTY.	
1/2"	0.625	FLSC-063-3R	.75	25	N/A	-	-	
1/2	0.84	FLSC-084-3R	./5		FLSC-084-6R	_	_	
0/4"	0.875	FLSC-088-3R	70	25	FLSC-088-6R	4.50	40	
3/4"	1.05	FLSC-105-3R	.78		FLSC-105-6R	1.56	12	
4.0	1.125	FLSC-113-3R	0.5	20	FLSC-113-6R	4.50	10	
1"	1.32	FLSC-132-3R	.85		FLSC-132-6R	1.58		
4.4/411	1.375	FLSC-138-3R		18	FLSC-138-6R	4.07	40	
1-1/4"	1.66	FLSC-166-3R	.92		FLSC-166-6R	1.87	12	
4.4/0"	1.625	FLSC-163-3R	4.00	12	FLSC-163-6R	0.05	12	
1-1/2"	1.90	FLSC-190-3R	1.03		FLSC-190-6R	2.05		
0"	2.125	FLSC-213-3R	4.50	10	FLSC-213-6R	0.00	12	
2"	2.38	FLSC-238-3R	1.50		FLSC-238-6R	3.00		

To order: Specify Catalog Number. Example: an FLSC-190-6R would be a 6" long clamp for 1-1/2" Standard Steel pipe.

Ford PVC Coupling Leak Clamps

Style FCC

For PVC Pipe Joined with Schedule 40 Solvent Weld Couplings

Leaking solvent weld joints on PVC pipe can be repaired by shutting down the water main and splicing in a new piece of pipe. This is time consuming, expensive, and requires making additional joints in your water system. Eliminate these problems by using the Ford Coupling Leak Clamp to repair leaking solvent welds on PVC pipe.

The Ford Style FCC Leak Clamp features 2 bolts and a step gasket with a butt sealing design that stops the leak between the coupling and the PVC pipe.



Band: 5 inch wide 18-8 Type 304 Stainless Steel

Ductile Iron per ASTM A536 Lugs:

Optional: E-Coated Lugs - add "-E3" to Catalog Number

Gasket: SBR as per ASTM D2000

Bolts and

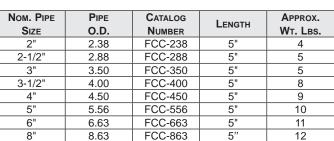
Heavy Hex Nuts: Low alloy per ASTM A242

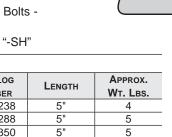
Optional: Blue Fluorocarbon Coated Nuts and Bolts -

add "-BBN" to Catalog Number.

Optional: 18-8 Type 304 Stainless Steel - add "-SH"

to Catalog Number.





Style FIBC

For Class 160 and 200 Integral Bell Pipe Joined by Solvent Weld

The Ford Style FIBC Leak Clamp features 3 bolts and a step gasket with a tapered, overlapping seal that stops the leak between the integral bell and the PVC pipe.

Specifications:

Band: 7.5 inch wide 18-8 Type 304 Stainless Steel

Ductile Iron per ASTM A536 Lugs:

Optional: E-Coated Lugs - add "-E3" to Catalog Number

Gasket: SBR as per ASTM D2000

Bolts and

Heavy Hex Nuts: Low alloy per ASTM A242.

Optional: Blue Fluorocarbon Coated Nuts and Bolts -

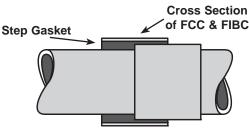
add "-BBN" to Catalog Number.

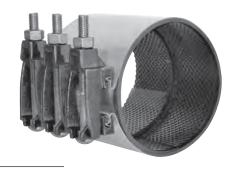
Optional: 18-8 Type 304 Stainless Steel - add "-SH"

to Catalog Number.

Nom. Pipe Size	PIPE O.D.	CATALOG NUMBER	LENGTH	APPROX. Wt. Lbs.
2"	2.38	FIBC-238	7.5"	4
2-1/2"	2.88	FIBC-288	7.5"	5
3"	3.50	FIBC-350	7.5"	5
3-1/2"	4.00	FIBC-400	7.5"	8
4"	4.50	FIBC-450	7.5"	9
5"	5.56	FIBC-556	7.5"	10
6"	6.63	FIBC-663	7.5"	11
8"	8.63	FIBC-863	7.5"	12







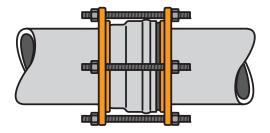
Ford Bell Joint Leak Clamps



Style FBC For Standard Steel Size PVC, Iron Pipe or *C900 PVC

Ford Bell Joint Leak Clamps provide an easy and economical way of repairing leaking bell joints on PVC or iron pipe without recaulking or cutting out the joint. Two different listings of clamps are shown below, one for standard steel size PVC and the other for iron pipe or *C900 PVC.

Ford Bell Joint Leak Clamps are easy to install. The clamp for cast iron pipe features an adjustable Buna-N gasket, field adaptable to fit either the older style pit cast or ductile iron pipe. This versatile gasket contains a removable "keyed" insert that eliminates cutting or gluing to fit the ductile iron pipe.



Specifications:

Body: Ductile Iron ASTM A536

Gasket: SBR rubber or Buna-N rubber per ASTM D2000

Bolts and Nuts: Low alloy ASTM A242 and AWWA C111

or A307 Steel with Di-Chromate Seal

Optional: Blue Fluorocarbon Coated Nuts and Bolts -

add "-BBN" to Catalog Number.

Ford Bell Joint Leak Clamps for Ductile Iron and Cast Iron Pipe (Buna-N Gasket)

Nom. PIPE	M. PIPE O.D.		APPROX.	No. of	CAT. No. FOR	
SIZE	RANGE	Number	Wt. Lbs.	Востѕ	GASKET ONLY	
4"	4.80-5.00	FBC-500*	16	4	GBC-500	
6"	6.90-7.10	FBC-710*	19	4	GBC-710	
8"	9.05-9.30	FBC-930*	21	4	GBC-930	
10"	11.10-11.40	FBC-1140*	27	6	GBC-1140	
12"	13.20-13.50	FBC-1350*	31	6	GBC-1350	
		// O O O O II	1 1 1 1			

^{*}For use on C900 PVC, add "-C900" to the end of the catalog number. Example: FBC-500-C900. This option will include longer bolts to accommodate a C900 PVC pipe bell. Note that the bolt thread length with this option is too short to accommodate an iron pipe bell.

For PVC, Standard Steel Size SDR-26 and SDR-21 (SBR Gasket)

Nom. PIPE	O.D.	CATALOG	APPROX.	No. of	CAT. No. For
SIZE	RANGE	Number	Wt. Lbs.	Востѕ	GASKET ONLY
2"	2.38	FBC-238	5	2	GBC-238
2-1/2"	2.88	FBC-288	5	2	GBC-288
3"	3.50	FBC-350	5	2	GBC-350
4"	4.50	FBC-450	13	4	GBC-450
6"	6.63	FBC-663	14	4	GBC-663
8"	8.63	FBC-863	18	4	GBC-863
10"	10.75	FBC-1075	24	6	GBC-1075
12"	12.75	FBC-1275	28	6	GBC-1275

Ford Bolt Extension Kit

The Ford Bell Joint Leak Clamp requires extra long bolts to repair Certainteed PVC pipe. Bolt Extension Kits are available and may be ordered from the table at right.

Кіт		QUANTITY	
CATALOG	Size	Per	For Use On
NUMBER		Кіт	
			FBC-450
BEK-1-4	1/2"	4	FBC-663
			FBC-863
BEK-1-6	1/2"	6	FBC-1075
DEN-1-0	1/2	0	FBC-1275
BEK-2-4	5/8"	4	FBC-930
BEK-2-6	5/8"	6	FBC-1140
DEN-2-0	5/6	0	FBC-1350

O.D. Chart

	5110	CAST IRON		AS	BESTOS-	CEMENT				
Pipe	PVC	Classes						STEEL		COPPER
Size	(Steel Size) O.D.	Pit	Spun	O.D.	Class	M.E. O.D.	R.B. O.D. Min. Max.	Туре	O.D.	O.D.
1/2"	.84							STD.	.84	.625
3/4"	1.05							STD.	1.05	.875
1"	1.32							STD.	1.32	1.125
1-1/4"	1.66							STD.	1.66	1.375
1-1/2"	1.90			0.50				STD.	1.90	1.625
2" 2-1/2"	2.38 2.88			2.50				STD.	2.38 2.88	2.125 2.625
2-1/2	2.00	Α		3.80	100	3.74	4.00	O.D.	3.00	2.025
3"	3.50	B,C,D	50-350	3.96	150	3.84	4.10	STD.	3.50	3.125
3	3.30	D,C,D	30-330	5.90	200	3.84	4.29	310.	3.30	3.123
3-1/2"					200	3.04	4.23	STD.	4.00	3.625
3 1/2		А	50-350	4.80	100	4.64	4.79-5.14	O.D.	4.00	3.023
4"	4.50	B,C,D		5.00	150	4.81	4.97-5.27	STD.	4.50	4.125
•	1.00	5,0,5		0.00	200	4.81	5.22-5.57	0.5.	1.00	1.120
4-1/2"						1.01	0.22 0.01	STD.	5.00	
5"								STD.	5.56	5.125
		Α	50-350	6.90	100	6.91	7.05-7.40	O.D.	6.00	
6"	6.63	B,C,D		7.10	150	6.91	7.07-7.37			
		E,F		7.22	200	6.91	7.26-7.56	STD.	6.63	6.125
7"		-						STD.	7.63	
		A,B	50-300	9.05	100	9.11	9.22-9.57	O.D.	8.00	
8"	8.63	C,D	350	9.30	150	9.11	9.27-9.57			
		E,F		9.42	200	9.11	9.39-9.74	STD.	8.63	
9"								STD.	9.63	
		A,B	50-200	11.10	100	11.24	11.42-11.77	O.D.	10.00	
10"	10.75	C,D	250-350	11.40	150	11.66	11.82-12.12			
		E,F		11.60	200	11.66	11.77-12.12	STD.	10.75	
		A,B	50-200	13.20	100	13.44	13.69-14.04	O.D.	12.00	
12"	12.75	C,D	250-350	13.50	150	13.92	14.08-14.38			
		E,F	50.400	13.76	200	13.92	14.03-14.38	STD.	12.75	
4.411		A,B	50-100	15.30	100	15.07	15.40-15.80	O.D.	14.00	
14"		C,D	150-300	15.65	150	16.22	16.38-16.73			
		E,F	FO 400	15.98	200	16.22	16.48-16.88	0.0	16.00	
4.011		A,B	50-100	17.40	100	17.14	17.54-17.94	O.D.	16.00	
16"		C,D	150-300	17.80	150	18.46	18.62-18.97			
		E,F	FO 400	18.16	200	18.46	18.79-19.19	CTD	40.00	-
18"		A,B	50-100	19.50 19.92	100	19.90	20.44	STD.	18.00	
		C,D A,B	150-250 50-100	21.60	150 100	20.94	21.20 22.50	STD.	20.00	
20"		C,D	150-250	22.06	150	23.28	23.54	310.	20.00	
22"		U,D	150-250	22.00	130	23.20	23.34	STD.	22.00	
		A,B	50-100	25.80	100	26.48	27.17	STD.	24.00	
24"		C,D	150-250	26.32	150	27.96	28.22	315.	2 1.00	
		0,0	130-230	20.02	130	27.30	20.22		l	

Note: Due to variations in outside diameters and specifications, dimensions listed above are approximate. For this reason, determine the pipe O.D. before ordering Ford Pipe Repair Products.

Section L

Ford Pipe Repair Products

Warranty

All merchandise is warranted to be free from defects in material and factory workmanship. 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 his 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.

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.