

Contents	Recommended Product Application							
Page	*Steel Size PVC	*C900/909*** PVC	Cast Iron	Ductile Iron	AC	**HDPE Version		
Product Numbering System						Available		
Ford Ultra-Seal Cap Style Flange Gasket								
Mechanical Joint Adapter Outlet Option5								
† Tapping Sleeve Specifications 6, 8, 10, 12 & 14								
FAST7.	YES	YES	YES.	YES	YES	. **AVAILABLE		
FTSS9.	YES	YES	YES.	YES	YES	. **AVAILABLE		
FTSAS	YES	YES	YES.	YES	YES	NO		
FTS13.	YES	YES	YES.	YES	YES	. **AVAILABLE		
FTSC								
MJTS <b>NEW!</b>	NO	YES	.NO .	YES	NO	NO		
<b>Brass Saddle Specifications</b> 15, 16, 18, 20 & 22								
S40, S41 (For Type K Copper Tubing)								
S70, S7117 .								
S90, S91								
S902, S912								
101B, 202B								
101BS, 202BS								
202BSD	*YES	*YES	YES.	YES	YES	NO		
Iron Saddle Specifications								
F101, F202								
FC101, FC202, FCD202	*YES	*YES	YES.	YES	YES	. **AVAILABLE		
Fabricated Steel Saddle Specifications								
F20231.								
FS20231.	*YES	*YES	YES.	YES	YES	. **AVAILABLE		
Stainless Steel Saddle Specifications	VE0	\/F0	\/F0	\/F0	\/F0	** ^ / ^		
FS300 Series	YES	YES	YES.	YES	YES	. ^^AVAILABLE		
Repair Saddles	NO	\/F0	\/F0	\/F0	V/E0	NO		
FRS202	NO	YES	YES.	YES	YES	NO		
Sewer Saddle FSS	* All 101	BS, 202BS,	FC101	FC202 a	and FCD2	02 Saddles		
O.D. Chart.       .36         Warranty       .40	recomme	ended for C90 to the pipe O.I	0/909 P					
† See catalog section N for style FWS steel weld-on tapping sleeves.		2B, F101 and I ot comply wit						

on PVC pipe. Pressure limitations may apply. Call for details.

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

## **Information**

Ford Service Saddles are used to install corporation stops on water main pipe including iron, PVC, and asbestos-cement. Saddles constructed of ductile iron, brass, or stainless steel are available in all the popular sizes and for most metric-sized pipe. Saddles feature 3/4" through 2" tapped outlets manufactured to ANSI/AWWA C800. Fabricated steel saddles are also available in 3" and 4" iron pipe thread outlets

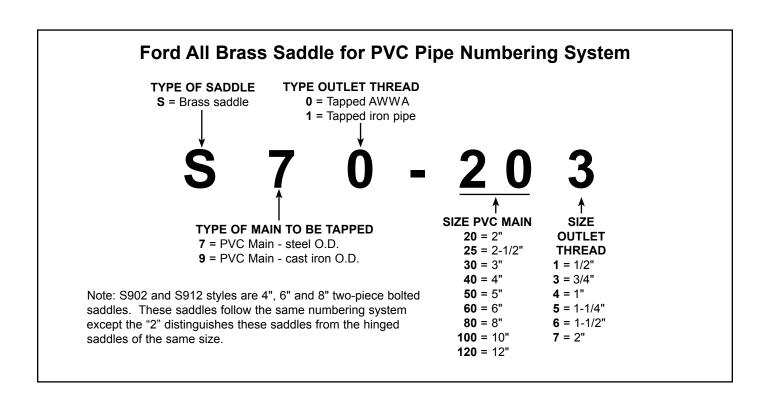
Ductile iron saddles are available with either single or double (electro-galvanized) steel straps or with optional stainless steel bands. Brass saddles are cast of 85-5-5-5 waterworks brass. The popular S70 and S90 series feature a hinged design and the 101B and 202B series incorporate silicon bronze straps or optional stainless steel bands.

Tapping sleeves of fabricated steel and stainless steel complete the Ford line of tapping devices. Tapping sleeves having a flange outlet conform to AWWA C207 Class D-ANSI 150 lb. drilling and the standard sizes have been optimized for U.S. Pipe Standards. Flanges conforming to alternate AWWA or international specifications are also available upon request. A mechanical joint adapter outlet option is available for all styles of Ford tapping sleeves, see page 5 for details.

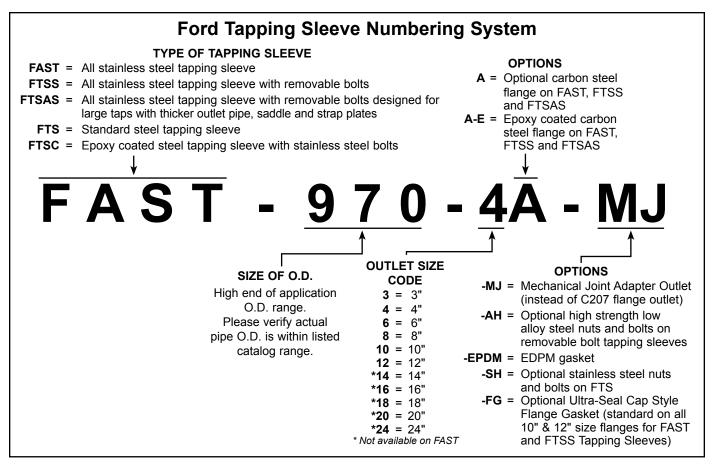
<sup>\*\*</sup> Specific products are available for use on HDPE, see catalog pages for details.

<sup>\*\*\*</sup> Size on size tapping sleeves not recommended for C909 pipe. Saddle pressure limitations may apply. Call for details.

#### Ford Brass Saddle and Iron Service Saddle Numbering System SIZE OF O.D. High end of application O.D. range or actual pipe O.D. **TYPE OF TAP** Please verify actual pipe O.D. is within listed **CC** = AWWA tapered thread catalog range. **IP** = Iron pipe thread FC202-690-C **TYPE OF SADDLE** SIZE OUTLET THREAD 101B = Brass saddle with a single silicon bronze strap 1 = 1/2" 101BS = Brass saddle with a single stainless steel band 3 = 3/4" **202B** = Brass saddle with two silicon bronze straps 4 = 1" 202BS = Brass saddle with a double wide stainless steel band 6 = 1-1/2" 202BSD = Brass saddle with dual stainless steel band 7 = 2" \*F101 = Iron saddle with a single strap & epoxy coated body 8 = 2-1/2" FC101 = Iron saddle with a single stainless steel band and epoxy coated body 9 = 3"\*F202 = Iron saddle with two steel straps and epoxy coated body (for 3" & 4" taps, saddle body 11 = 4" is fabricated steel painted with black shop coat) FC202 = Iron saddle with a double wide stainless steel band & epoxy coated body FRS202 = All stainless steel repair saddle with two stainless steel bands FS300 = All stainless steel saddle FCD202 = Iron saddle with a dual stainless steel bands and bolts, epoxy coated body



<sup>\*</sup> F101/F202 Saddles available with stainless steel bales, contact factory for availability.

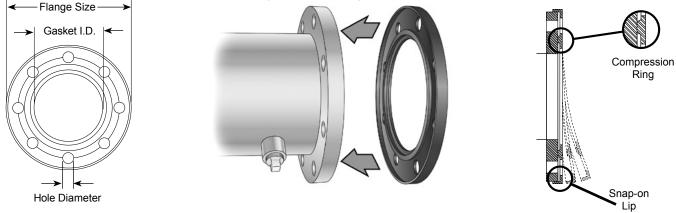


# Ford Ultra-Seal Cap Style Flange Gasket

## 4" Through 12" Nominal Ring Flange Sizes

The Ultra-Seal Cap Style Flange Gasket, CSFG, made from NBR (Buna-N) rubber is NSF-61 approved and has test pressures

well beyond AWWA Class D flanges. A raised lip on the outside circumference of the gasket allows it to snap-on and stay on, eliminating the need to hold the gasket in place during installation. The compression ring near the ID of the gasket concentrates the clamping load in a small surface area, providing superior sealing capabilities.



#### Ford Ultra-Seal Gasket for 4" Through 12" Nominal Ring Flange Sizes

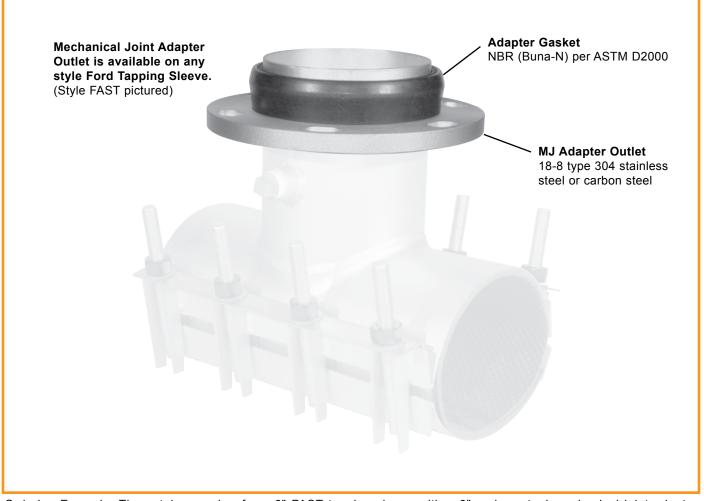
CATALOG Number	DESCRIPTION	Gasket Inside Diameter	Hole Diameter	WEIGHT LBS.
CSFG-4	4" Cap Style Flange Gasket	5-1/16"	0.81	0.4
CSFG-6	6" Cap Style Flange Gasket	7-1/16"	0.94	0.5
CSFG-8	8" Cap Style Flange Gasket	9-1/16"	0.94	0.7
CSFG-10	10" Cap Style Flange Gasket	11-1/16"	1.06	0.8
CSFG-12	12" Cap Style Flange Gasket	13-1/16"	1.06	1.2

Add "-FG" to end of tapping sleeve catalog number for Ultra-Seal Cap Style Gasket to be sent with tapping sleeve. Example: FAST-905-4-FG. Please note, this gasket comes standard on all 10" and 12" flanges for FAST and FTSS tapping sleeves.

# **Mechanical Joint Adapter Outlet Option**

**For Ford Tapping Sleeves** 

The mechanical joint adapter outlet ensures alignment between the valve and sleeve. Tightening the fasteners until the valve face makes complete contact with the tapping sleeve flange gives the installer a visual indicator of proper installation and alignment. The face-to-face flange contact prevents the joint from flexing and prevents the gasket from blowing out. The mechanical joint adapter outlet is available on Ford Tapping Sleeves with 3" - 24" outlets\*. To order this option, add "-MJ" to the end of the part number.



Ordering Example: The catalog number for a 6" FAST tapping sleeve with a 6" carbon steel mechanical joint adapter outlet is FAST-700-6A-MJ or FAST-730-6A-MJ.

"-MJ" OUTLET SIZE
3"
4"
6"
8"
10"
12"
*14"
*16"
*18"
*20"
*24"

- \* Refer to the specific product pages in the catalog for outlet sizes available.
- \* Outlet sizes 14" through 24" are not available for FAST tapping sleeves.
- \* For styles FTS, FTSC, FTSS and FTSAS tapping sleeves, a 1" undersized cutter is required for flanges 14" and larger. Oversized outlets are available by special request.

AA-5

Outlet

## Style FAST Stainless Steel Tapping Sleeve with 360° Gasket

Ford FAST Tapping Sleeves take the guesswork out of large pipe taps. A gridded gasket surrounds the pipe and not only cushions the pipe during the tap, but also helps prevent pipe breaks. The flange outlet is welded inside and out. FAST Tapping Sleeves are chemically passivated to ensure maximum corrosion resistance.

The sleeve is constructed of 18-8 type 304 stainless steel to provide corrosion protection. Sleeves are available in pipe sizes 3" through 24", with outlets from 3" through 12". Detailed specifications and critical dimensions are outlined below.

The Ford Ultra-Seal Cap Style Flange Gasket, CSFG, is recommended for best results. See page 4.

outlets larger than 4".

18-8 type 304 stainless steel Schedule 10

for 3" and 4" outlets. Schedule 5 for all

## **Specifications**



Waterworks no-lead brass 3/4" plug with standard square head. Proper use of this feature ensures positive seal before tapping.

#### Studs and Nuts

18-8 stainless steel UNC threads. Heavy hex nuts and washers. Nuts are coated to prevent galling.

#### Lifter Bar

18-8 type 304 stainless – steel provides a heavy bearing surface for nuts.

#### Armors

Heavy gauge Type 18-8 hardened stainless steel armors are molded flush into the gasket to bridge the gap between lugs.

#### Flange

18-8 type 304 per AWWA C228 stainless steel flange with recess per MSS SP-60 to accept standard tapping valves. Optional ASTM A36 carbon steel flange may be ordered. Flange conforms to AWWA C207 Class D ANSI 150 lb. drilling. Class E or Class F flange available. Bolt holes straddle pipe center line.

#### Optional:

Mechanical Joint Adapter Outlet

#### **Body**

18-8 type 304 stainless steel for corrosion control. Fully chemically passivated to ensure corrosion resistance.

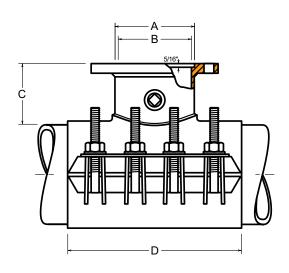
#### Gasket

Gridded virgin SBR or NBR (Buna-N) compounded for water service per ASTM D2000. Full gasket gives 360° pipe coverage. The outlet gasket is NBR (Buna-N). Optional EPDM

#### Rating:

FAST sleeve is rated for 250 psi working pressure on 3"-12" pipe size. Contact factory for psi rating on pipe sizes 14" and larger.

### **FAST Dimensions**



Nom.	FLANGE	Nomin	IAL DIMENSI	ons - Inch	IES			_
PIPE SIZE	Size Code	Α	В	С	D	STUD SIZE	No. of Studs	Design Style
3"	3	4-1/64	3-1/4	5-3/16	15	5/8	8	2 00
								2 pc
	3	4-1/64	3-1/4	5-3/16	15	5/8	8	2 pc
	4	5-1/64	4-1/4	5-3/16	15	5/8	8	2 pc
4" - 12"	6	7-1/64	6-13/32	5-1/2	15	5/8	8	2 pc
7 12	8	9-1/64	8-13/32	5-5/8	20	5/8	12	2 pc
	10	11-1/64	10-31/64	6-1/8	20	5/8	12	2 pc
	12	13-1/64	12-27/64	6-1/4	24	5/8	14	2 pc
	3	4-1/64	3-1/4	5-3/16	16	5/8	10	2 pc
	4	5-1/64	4-1/4	5-3/16	16	5/8	10	2 pc
14"	6	7-1/64	6-13/32	5-1/2	16	5/8	10	2 pc
14	8	9-1/64	8-13/32	5-5/8	20	5/8	12	2 pc
	10	11-1/64	10-31/64	6-1/8	20	5/8	12	2 pc
	12	13-1/64	12-27/64	6-1/4	24	5/8	14	2 pc
	3	4-1/64	3-1/4	5-3/16	16	5/8	15	3 рс
	4	5-1/64	4-1/4	5-3/16	16	5/8	15	3 рс
40" 40"	6	7-1/64	6-13/32	5-1/2	16	5/8	15	3 рс
16" - 18"	8	9-1/64	8-13/32	5-5/8	20	5/8	18	3 рс
	10	11-1/64	10-31/64	6-1/8	20	5/8	18	3 рс
	12	13-1/64	12-27/64	6-1/4	24	5/8	21	3 рс
	3	4-1/64	3-1/4	5-3/16	16	5/8	15	3 рс
	4	5-1/64	4-1/4	5-3/16	16	5/8	15	3 рс
20" - 24"	6	7-1/64	6-13/32	5-1/2	16	5/8	15	3 рс
20 - 24	8	9-1/64	8-13/32	5-5/8	20	5/8	18	3 рс
	10	11-1/64	10-31/64	6-1/8	20	5/8	18	3 рс
	12	13-1/64	12-27/64	6-1/4	24	5/8	21	3 рс

Outlet Options: \*Class E or Class F flange available, contact factory.

3" - 12" MJ adapter outlets available, contact factory for dimensions.

## Style FAST Stainless Steel Tapping Sleeve with 360° Gasket

**To Order:** Select the catalog sleeve number for the desired range and complete the catalog number by adding the flange code. **Example**: The complete catalog number for a 6" ductile iron pipe (6.90 O.D.) with a 4" stainless steel flange is FAST-730-4. The FAST-700-4 with a range of 6.60 to 7.00 could also be used on 6.90 O.D. pipe. Please contact factory for prices and delivery on pipe O.D. sizes not covered by our standard range.

Nom. PIPE SIZE	SLEEVE O.D. RANGE	SLEEVE NUMBER	ву	STAINLESS STEEL SIZE FLANGE CODE	OPTIONAL CARBON STEEL FLANGE CODE*	OPTIONAL MECHANICAL JOINT ADAPTER OUTLET	APPROX. WT. LBS.
3"	3.50-3.96	FAST-396-	$\overline{}$	3	3A	-MJ	26
	4.50-4.80	FAST-480-		3	3A		28
4"	4.80-5.10	FAST-510-	$ $ $\times$			-MJ	
	5.05-5.30	FAST-530-		4	4A		29
	6.60-7.00	FAST-700-		3	3A		33
6"		FAST-730-		4	4A	-MJ	34
	7.10-7.50	FAST-750-	$\langle \rangle$	6	6A		38
	8.63-9.05	FAST-905-		3 4	3A		38
8"	9.05-9.45	FAST-945-	X	6	4A 6A	-MJ	39 42
	9.30-9.70	FAST-970-		8	8A		58
			$\langle \rangle$	3	3A		40
	10.75-11.15	FAST-1115-		4	4A		41
10"	11.05-11.45	FAST-1145-		6	6A	-MJ	45
. •	11.75-12.15	FAST-1215-		8	8A		65
	11.70-12.10			10	10A		85
				3	3A		43
	10.75.10.00	EACT 4200		4	4A		44
12"	12.75-13.20 13.10-13.50	FAST-1320- FAST-1350-		6	6A	-MJ	48
12	14.00-14.40	FAST-1440-		8	8A	-iviJ	68
14.00-1	14.00-14.40	1 701-14-0-		10	10A		88
				12	12A		116
				3	3A		65
		FAST-1550-		4	4A		66
14"	15.30-15.70	FAST-1570-		6	6A	-MJ	71
	15.80-16.20 16.48-16.88	FAST-1620- FAST-1688-		8 10	8A		88
	10.40-10.00 FAS1-1	FAS1-1000-		12	10A 12A		96 125
	17.30-17.70	FAST-1770-	$\langle \hspace{0.5cm} \rangle$	3	3A		74
	17.40-17.80	FAST-1770-		4	4A		75
	17.75-18.15	FAST-1815-		6	6A		78
16"	18.15-18.62	FAST-1862-		8	8A	-MJ	100
	18.60-19.00	FAST-1900-		10	10A		114
	18.80-19.20	FAST-1920-		12	12A		146
				3	3A		80
	19.30-19.70	FAST-1970-		4	4A		81
18"	19.50-19.92	FAST-1992-		6	6A	-MJ	86
. •	19.80-20.20	FAST-2020-		8	8A		106
				10	10A		119
			$\langle \hspace{0.5cm} \rangle$	12	12A		153
	20.20-20.60	FAST-2060-		3 4	3A		86
	20.90-21.30	FAST-2130-		6	4A 6A		92
20"	21.40-21.80 21.86-22.26	FAST-2180- FAST-2226-	X	8	8A	-MJ	114
	22.30-22.70	FAST-2270-		10	10A		124
	23.40-23.80	FAST-2380-	/	12	12A		159
			$\langle \hspace{0.5cm} \rangle$	3	3A		98
				4	4A		99
0.4"	23.80-24.20	FAST-2420-		6	6A		103
24"	25.60-26.00	FAST-2600-		8	8A	-MJ	127
				10	10A		135
			$\bigvee$	12	12A		171

For use on HDPE pipe, use prefix FASTP.

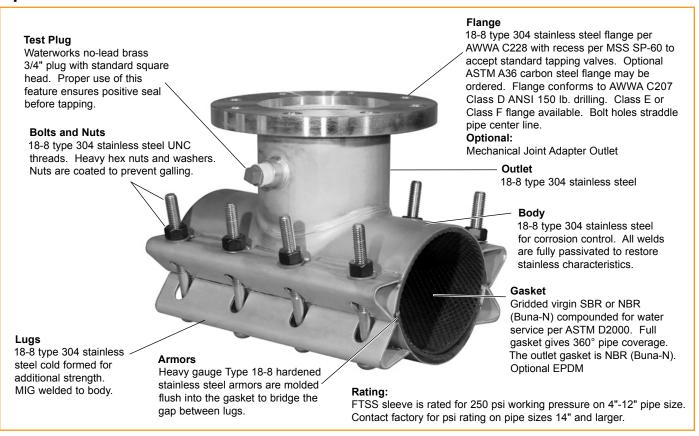
<sup>\*</sup> Add "-E" for epoxy coated carbon steel flange.

# Style FTSS Stainless Steel Tapping Sleeve with Removable Bolts and 360° Gasket

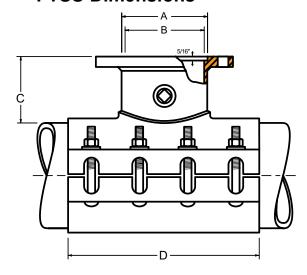
Ford FTSS Tapping Sleeves have a heavy gauge stainless steel body with removable bolts. A gridded gasket surrounds the pipe and not only cushions the pipe during the tap, but also helps prevent pipe breaks. The flange outlet is welded inside and out. FTSS Tapping Sleeves are chemically passivated to ensure maximum corrosion protection.

The Ford Ultra-Seal Cap Style Flange Gasket, CSFG, is recommended for best results. See page 4.

### **Specifications**



#### **FTSS Dimensions**



Nom.	FLANGE	Nomin	NAL DIMENSI	ons - Inch	IES	D-:-	No. o-
PIPE SIZE	Size Code	Α	В	С	D	Bolt Size	No. of Bolts
	3	4-1/64	3-1/4	5-3/16	15	5/8	8
	4	5-1/64	4-1/4	5-3/16	15	5/8	8
4" - 12"	6	7-1/64	6-13/32	5-1/2	15	5/8	8
4 - 12	8	9-1/64	8-13/32	5-5/8	20	5/8	12
	10	11-1/64	10-31/64	6-1/8	20	3/4	12
	12	13-1/64	12-27/64	6-1/4	24	3/4	14
	3	4-1/64	3-1/4	5-3/16	16	3/4	10
	4	5-1/64	4-1/4	5-3/16	16	3/4	10
14" - 16"	6	7-1/64	6-13/32	5-1/2	16	3/4	10
14 - 16	8	9-1/64	8-13/32	5-5/8	20	3/4	12
	10	11-1/64	10-31/64	6-1/8	20	3/4	12
	12	13-1/64	12-27/64	6-1/4	24	3/4	14
	3	4-1/64	3-1/4	5-3/16	16	3/4	10
	4	5-1/64	4-1/4	5-3/16	16	3/4	10
18" - 24"	6	7-1/64	6-13/32	5-1/2	16	3/4	10
10 - 24	8	9-1/64	8-13/32	5-5/8	20	3/4	12
	10	11-1/64	10-31/64	6-1/8	20	3/4	12
	12	13-1/64	12-27/64	6-1/4	24	3/4	14
Outlet (	Ontions: *C	lass F or 0	Class F fla	nge availa	hle cor	ntact fac	torv

Outlet Options: \*Class E or Class F flange available, contact factory.

3" - 24" MJ adapter outlets available, contact factory for dimensions.

## Style FTSS Stainless Steel Tapping Sleeve with Removable Bolts and 360° Gasket

To Order: Select the catalog sleeve number for the desired pipe material and range; complete the catalog number by adding the flange code.

Examples: The complete FTSS catalog number for a 6" ductile iron pipe (6.90 O.D.) with a 4" stainless steel flange is FTSS-700-4. An FTSS for 6" ductile iron pipe (6.90 O.D.) with a 4" carbon steel mechanical joint outlet is FTSS-700-4A-MJ.

Nom. Pipe Size	SLEEVE O.D. RANGE	SLEEVE Number	Вч	STAINLESS STEEL SIZE FLANGE CODE	OPTIONAL CARBON STEEL FLANGE CODE	OPTIONAL MECHANICAL JOINT OUTLET	APPROX. Wt. Lbs.
	4.50-4.80	FTSS-480-		3	3A		37
4"	4.80-5.00	FTSS-500-	$\mid \times \mid$		0.1	-MJ	
	5.10-5.30	FTSS-530- FTSS-540-	$ / \setminus$	4	4A		38
	5.20-5.40 6.60-7.00	FTSS-700-		3	3A		41
6"	6.90-7.30	FTSS-730-	$\times$	4	4A	-MJ	42
	7.30-7.50	FTSS-750-		6	6A	1	47
	8.63-9.05	FTSS-905-		3	3A		41
8"	9.05-9.30	FTSS-930-		4	4A	-MJ	42
Ü	9.30-9.60	FTSS-960-		6	6A		49
	9.45-9.75	FTSS-975-	$\langle \cdot \cdot \rangle$	8 3	8A 3A		75 46
	10.75-11.10	FTSS-1110-		4	4A	-	47
10"	11.10-11.40	FTSS-1140-	ΙX	6	6A	-MJ	53
	11.40-11.70	FTSS-1170-		8	8A		79
	11.85-12.15	FTSS-1215-		10	10A		99
	12.75-13.20	FTSS-1320-	/	3	3A		49
	13.20-13.50	FTSS-1320-		6	4A 6A	-	50 55
12"	13.50-13.80	FTSS-1380-	I X	8	8A	-MJ	86
	14.10-14.40	FTSS-1440-		10	10A	1	104
	14.10-14.40	1 133-1440-	/	12	12A	1	138
			/	3	3A		74
	4-00 40		\	4	4A		75
4.411	15.22-15.70	FTSS-1570-		6	6A	ļ <u></u>	82
14"	15.80-16.20	FTSS-1620-	ΙX	8	8A	-MJ	102
16.48-16.88	B-16.88 <b>FTSS-1688-</b>	/ \	10 12	10A 12A		110 146	
		/ \	14	14A		160	
			/	3	3A		77
	17.32-17.80	FTSS-1780-	\ /	4	4A	1	78
	17.75-18.15	FTSS-1815-	\ /	6	6A		84
16"		FTSS-1862-	V	8	8A	-MJ	104
10	18.60-19.00	FTSS-1900- FTSS-1920-		10	10A		114
	I		/ \	12 14	12A		150
		1.00.1020	// \	16	14A 16A	-	188 195
			<b>(</b>	3	3A		83
			\ /	4	4A		84
			$  \   \  $	6	6A		90
	19.42-19.92	FTSS-1992-	\/	8	8A		112
18"	19.80-20.20	FTSS-2020-	ΙX	10	10A	-MJ	120
	10100 = 01=0		/ \	12 14	12A 14A		160 190
			/ \	16	16A	-	200
			/	18	18A		210
			<b>\</b>	3	3A		85
	00.00.00.00	FT00 0000	\ /	4	4A		86
	20.20-20.60	FTSS-2060-**	\ /	6	6A		92
	20.90-21.30	FTSS-2130-	\ /	8	8A		114
20"	21.40-21.80	FTSS-2180-	X	10 12	10A	-MJ	123
	21.86-22.26 22.30-22.70	FTSS-2226-	/\	14	12A 14A	-	162 195
	23.40-23.80	FTSS-2270- FTSS-2380-	/ \	16	16A	1	205
	23.40-23.00	F133-2300-	/ \	18	18A	1	215
			<u>/</u> \	20	20A		222
			/	3	3A		96
			\ /	4	4A		97
			\ /	6 8	6A 8A	-	103 127
	23.80-24.20	FTSS-2420-**	$  \setminus  $	10	10A	1	136
24"	25.60-26.00	FTSS-2600-	Y	12	12A	-MJ	178
	26.20-26.60	FTSS-2660-	/\	14	14A		199
			/ \	16	16A	]	210
			/ \	18	18A		224
			/ \	20	20A		230
	)" - 36"**	l	V \	24	24A	I	256

Note: Use 1" undersize cutter for flanges 14" and larger. Oversized outlets are available by special request P.O.A.

For use on HDPE pipe, use prefix FTSSP.

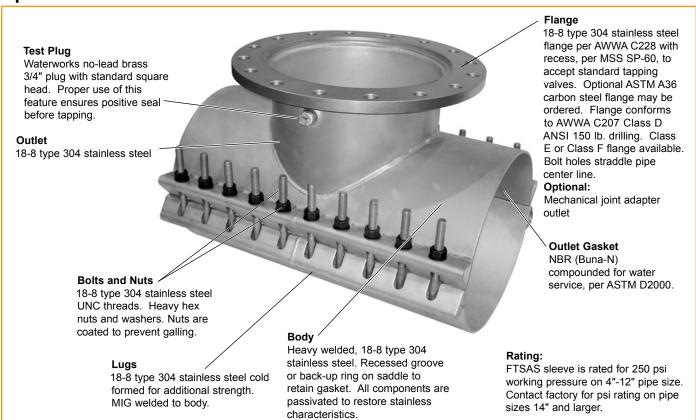
<sup>\*\*</sup> Size-on-size not available.

# Style FTSAS Stainless Steel Tapping Sleeves with Removable Bolts and Outlet Seal Gasket

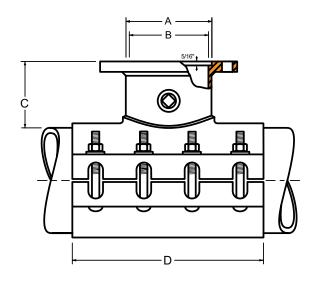
Ford FTSAS Tapping Sleeves have a heavy gauge stainless steel body with removable bolts. An outlet seal gasket compresses against the pipe, and provides a watertight seal. FTSAS Tapping Sleeves are chemically passivated to ensure maximum corrosion protection.

The Ford Ultra-Seal Cap Style Flange Gasket, CSFG, is recommended for best results. See page 4.

### **Specifications**



#### **FTSAS Dimensions**



Nom	FLANGE	Nom	INAL DIMEN	Вост	No.		
PIPE SIZE	SIZE CODE	Α	В	С	D	SIZE	OF Bolts
	3	4-1/64	3-1/4	5-3/16	15	5/8	8
	4	5-1/64	4-1/4	5-3/16	15	5/8	8
4" - 12"	6	7-1/64	6-13/32	5-1/2	15	5/8	8
4 - 12	8	9-1/64	8-13/32	5-5/8	20	5/8	12
	10	11-1/64	10-31/64	6-1/8	20	3/4	12
	12	13-1/64	12-27/64	6-1/4	24	3/4	14
	3	4-1/64	3-1/4	5-3/16	16	3/4	10
	4	5-1/64	4-1/4	5-3/16	16	3/4	10
14" - 16"	6	7-1/64	6-13/32	5-1/2	16	3/4	10
14 - 10	8	9-1/64	8-13/32	5-5/8	16	3/4	10
	10	11-1/64	10-31/64	6-1/8	20	3/4	12
	12	13-1/64	12-27/64	6-1/4	24	3/4	14
	3	4-1/64	3-1/4	5-3/16	16	3/4	10
	4	5-1/64	4-1/4	5-3/16	16	3/4	10
18" - 24"	6	7-1/64	6-13/32	5-1/2	16	3/4	10
10 - 24	8	9-1/64	8-13/32	5-5/8	16	3/4	10
	10	11-1/64	10-31/64	6-1/8	20	3/4	12
	12	13-1/64	12-27/64	6-1/4	24	3/4	14

Outlet Options: \*Class E or Class F flange available, contact factory.
3" - 24" MJ adapter outlets available, contact factory for dimensions.

Style FTSAS Stainless Steel Tapping Sleeves with Removable Bolts and Outlet Seal Gasket

**To order**: Select the sleeve number for the desired pipe range and complete catalog number by adding flange code. **Example**: The catalog number for use on a 16" ductile iron pipe (17.40 O.D.) with a 16" stainless steel flange is FTSAS-1787-16.

Nom. Pipe Size	SLEEVE O.D. RANGE	SLEEVE Number	By	STAINLESS STEEL SIZE FLANGE CODE	OPTIONAL CARBON STEEL FLANGE CODE	OPTIONAL MECHANICAL JOINT OUTLET	APPROX WT. LBS.	
				3	3A	JOINT OUTLET	40	
4"	4.50-4.80	FTSAS-480-	$\times$	4	4A	-MJ	40	
			$\longleftrightarrow$	3	3A		66	
6"	6.65-7.00	FTSAS-700-		4	4A	-MJ	67	
O	6.90-7.30	FTSAS-730-		6	6A	-IVIJ	74	
			$\longleftrightarrow$	3	3A		84	
	8" 8.63-9.05 9.05-9.30	ETCAC OOF		4	4A	-	85	
8"		FTSAS-905-	$I \times$	<u> </u>		-MJ		
	9.05-9.30	FTSAS-930-		6	6A		89	
			$\langle \rangle$	8	8A		94	
				3	3A		89	
4.011	10.75-11.10	FTSAS-1110-		4	4A		90	
10"	11.40-11.70	FTSAS-1170-		6	6A	-MJ	93	
				8	8A		99	
			$\langle \cdot \rangle$	10	10A		111	
			/	3	3A		97	
				4	4A		98	
12"	12.75-13.20	FTSAS-1320-		6	6A	MI	102	
14	13.20-13.50	FTSAS-1350-	$  \wedge  $	8	8A	-MJ	108	
	1		/ \	10	10A		188	
	1		/	12	12A		207	
	İ		$\langle \rangle$	3	3A		236	
	45.00.45.55	FT0.40 4	\ /	4	4A	1	237	
	15.23-15.72	FTSAS-1572-	$  \setminus /$	6	6A	1	240	
14"	15.73-16.22	FTSAS-1622-		8	8A	-MJ	245	
17	16.30-16.73 16.74-17.26	FTSAS-1673- FTSAS-1726-		10	10A	-1410	263	
			/ \	12	12A		288	
			/ \	14		-		
			$\langle \cdot \cdot \rangle$	3	14A		300	
			<b> \</b> /		3A		135	
17.33-17.87 17.88-18.43 18.46-19.03 18.87-19.45	4-0-		4	4A		136		
	FTSAS-1787-	\ /	6	6A		139		
	i	FTSAS-1843-	ΙV	8	8A	-MJ	144	
		18.46-19.03   <b>FTSAS-190</b> 3			10	10A		246
	18.87-19.45   <b>FTSAS-1945</b> -	FTSAS-1945-	/ \	12	12A		273	
					/ \	14	14A	
			/	16	16A		342	
			/	3	3A		230	
			\ /	4	4A		231	
	10 11 00 01	FTC 4 C 2004	\ /	6	6A	1	234	
	19.41-20.01	FTSAS-2001-	\ /	8	8A		239	
18"	19.88-20.48	FTSAS-2048-	l X	10	10A	-MJ	260	
	20.29-20.92	FTSAS-2092-	/\	12	12A		290	
	20.93-21.57	FTSAS-2157-	/ \	14	14A	İ	302	
			/ \	16	16A	1	358	
			/	18	18A	1	450	
			(	3	3A		248	
			\ /	4	4A		249	
	1		\ /	6	6A		252	
	21 51 22 15	FTSAS-2215-	\ /	8		-		
	21.51-22.15		\/		8A	-	257	
20"	22.16-22.81	FTSAS-2281-	X	10	10A	-MJ	279	
	23.46-24.16	FTSAS-2416-	/\	12	12A		310	
	24.82-25.52	FTSAS-2552-	/ \	14	14A		321	
			/ \	16	16A		377	
			/ \	18	18A		502	
	ļ		/	20	20A		532	
			\ /	3	3A		267	
			\ /	4	4A		268	
	1		\ /	6	6A		271	
	25.71-26.41	FTSAS-2641-	\ /	8	8A		276	
			\/	10	10A		304	
24"	26.55-27.25	FTSAS-2725-	X	12	12A	-MJ	339	
	27.26-27.96	FTSAS-2796-	/\	14	14A		351	
	28.14-28.84	FTSAS-2884-	/ \	16	16A	]	414	
	1		/ \	18	18A	1	523	
	1		/ \	20	20A	1	586	
	1		/	24	24A	1	727	
		1				ı alve is being ι		

**Note:** Use 1" undersize cutter for flanges 14" and larger. Oversized outlets are available by special request. For use on HDPE pipe, use prefix FTSASP.

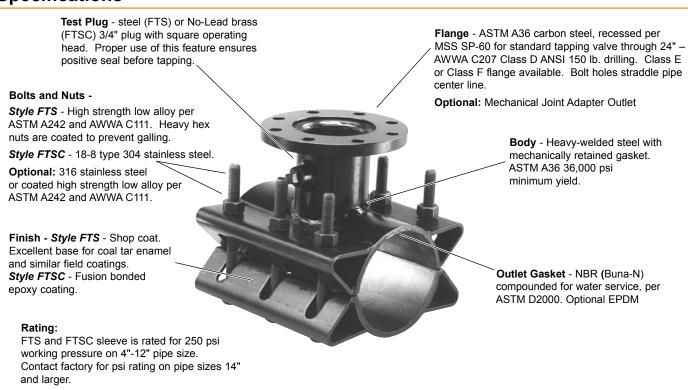
## Ford Steel Tapping Sleeves

# Styles FTS and FTSC (Epoxy Coated) Carbon Steel Tapping Sleeves with Removable Bolts and Outlet Seal Gasket

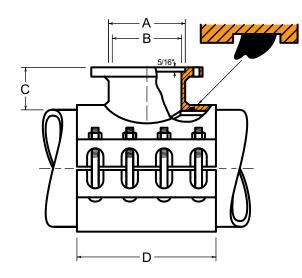
Ford Tapping Sleeves feature a simple design that can easily be installed without special tools, welding, or caulking. Most sleeves have a range that allows for installation on more than one pipe diameter. The large outlet gasket has a broad cross-section to resist rolling and to provide a dependable seal. Ford Tapping Sleeves are recommended for use on commonly used water mains such as asbestos-cement, cast or ductile iron, and/or PVC pipe.

The Ford Ultra-Seal Cap Style Flange Gasket, CSFG, is recommended for best results. See page 4.

### **Specifications**



#### FTS/FTSC Dimensions



Nom.	FLANGE	Nом	INAL DIMEN	isions - Inc	CHES	Воцт	No.
PIPE SIZE	Size Code	A	В	С	D	SIZE	OF Bolts
4"	3	4-3/64	3-1/16	5-1/16	12	5/8	8
4	4	5-3/64	4-1/8	5-1/16	12	5/8	8
	3	4-3/64	3-1/16	5-3/16	12	3/4	6
	4	5-3/64	4-1/8	5-3/16	12	3/4	6
6" - 12"	6	7-3/64	6-1/4	5-3/16	12	3/4	6
0 - 12	8	9-3/64	8-1/4	5-3/16	16	3/4	8
	10	11-3/64	10-1/4	5-3/16	20	3/4	10
	12	13-3/64	12-1/4	5-3/16	24	3/4	12
	3	4-3/64	3-1/16	5-3/16	12	3/4	6
	4	5-3/64	4-1/8	5-3/16	12	3/4	6
14" - 16"	6	7-3/64	6-1/4	5-3/16	12	3/4	6
14 - 16	8	9-3/64	8-1/4	5-3/16	16	3/4	8
	10	11-3/64	10-1/4	5-3/16	20	3/4	10
	12	13-3/64	12-1/4	5-3/16	24	3/4	12
	3	4-3/64	3-1/16	5-3/16	12	3/4	6
	4	5-3/64	4-1/8	5-3/16	12	3/4	6
18" - 24"	6	7-3/64	6-1/4	5-3/16	12	3/4	6
10 - 24	8	9-3/64	8-1/4	5-3/16	16	3/4	8
	10	11-3/64	10-1/4	5-3/16	20	3/4	10
	12	13-3/64	12-1/4	5-3/16	24	3/4	12

Outlet Options: Class E or F flanges available, contact factory.
3" - 24" MJ adapter outlets available, see next page.

Note: Smaller size-on-size units may require 1/2" undersize cutter. See notes on next page. Use 1" undersized cutter for flanges 14" and larger. Over-sized outlets, B dimension, are available by special request.

# Ford Steel Tapping Sleeves

# Styles FTS and FTSC (Epoxy Coated) Carbon Steel Tapping Sleeves with Removable Bolts and Outlet Seal Gasket

The Ford FTS Style Tapping Sleeve has a shop coat suitable for most field applied coatings, and is furnished with high strength low alloy steel bolts. Ford Steel Tapping Sleeves are available with optional stainless steel bolts by adding "-SH" to the FTS catalog number. For maximum corrosion resistance, the FTSC style has fusion applied epoxy and stainless steel bolts.

Nom. PIPE SIZE	SLEEVE O.D. RANGE	SLEEVE NUMBER	EPOXY COATED SLEEVE	В	FLANGE SIZE CODE	OPTIONAL MJ OUTLET	APPROX. WT. LBS.	
4"	4.50 - 4.80	*FTS-480-	*FTSC-480-	X	3 4	-MJ	40 41	
	6.57 - 6.73	*FTS-673-	*FTSC-673-	$\langle \rangle$	3		64	
6"	6.83 - 7.16	FTS-716-	FTSC-716-	V	4	-MJ	65	
Ü	7.20 - 7.60	FTS-760-	FTSC-760-	$  / \rangle$	6	-1110	72	
	7.40 - 7.73 7.95 - 8.05	FTS-773- **FTS-805-	FTSC-773- **FTSC-805-	$\langle \cdot \rangle$				
	8.36 - 8.75	*FTS-875-	*FTSC-875-	$  \rangle /$	3		72	
8"	8.73 - 9.12	FTS-912-	FTSC-912-	ΙX	4	-MJ	73	
	8.89 - 9.37	FTS-937-	FTSC-937-	$ /\rangle$	6		79	
	9.27 - 9.69	FTS-969-	FTSC-969-		8		106	
	9.95 - 10.10	**FTS-1010-	**FTSC-1010-	$\backslash /$	<u>3</u>		81 82	
10"	10.45 - 10.88	FTS-1088-	FTSC-1088-	ΙX	6	-MJ	87	
	11.03 - 11.47	FTS-1147-	FTSC-1147-	$  / \rangle$	8	•	117	
	11.36 - 11.80	FTS-1180-	FTSC-1180-	$\langle \ \rangle$	10		153	
	11.76 - 12.20	**FTS-1220-	**FTSC-1220-	$\Lambda$ /	<u>3</u>		92	
	12.42 - 12.88	FTS-1288-	FTSC-1288-	$  \setminus  $	6		93 98	
12"	13.13 - 13.60	FTS-1360-	FTSC-1360-	ΙX	8	-MJ	130	
	13.60 - 14.09	FTS-1409-	FTSC-1409-	/	10		169	
	14.10 - 14.58	FTS-1458-	FTSC-1458-	/ \	12		216	
	14.59 - 15.08	FTS-1508-	FTSC-1508-	<b>N</b> /	3		98	
	15.23 - 15.72	FTS-1572-	FTSC-1572-	$  \setminus /  $	<u>4</u> 6		99 105	
14"-16"	15.73 - 16.22	FTS-1622-	FTSC-1622-	ΙX	8	-MJ	139	
		16.30 - 16.73	FTS-1673-	FTSC-1673-	/	10		178
	16.74 - 17.26	FTS-1726-	FTSC-1726-	$\backslash \backslash$	12		230	
	47.00 47.07	FTC 4707	FTCC 4707	\ /	3		113	
16"-18"	17.33 - 17.87 17.88 - 18.43	FTS-1787- FTS-1843-	FTSC-1787- FTSC-1843-	$  \rangle /$	<u>4</u> 6		114 120	
	18.46 - 19.03	FTS-1903-	FTSC-1903-	ΙV	8	-MJ	159	
10 10	18.87 - 19.45	FTS-1945-	FTSC-1945-	$  \wedge  $	10		203	
	19.41 - 20.01	FTS-2001-	FTSC-2001-	/ \	12		256	
				( )	16		413	
	19.88 - 20.48	FTS-2048-	FTSC-2048-	$\Lambda$ /	<u>3</u>		121 122	
	20.29 - 20.92	FTS-2092-	FTSC-2092-	$  \setminus  $	6		128	
18"-20"	20.93 - 21.57	FTS-2157-	FTSC-2157-		8	-MJ	170	
	21.51 - 22.15		FTSC-2215-	/\	10		216	
	22.16 - 22.81	FTS-2281-	FTSC-2281-	// \	12		273	
				( )	16 3		412 132	
	00.70 00.45	FTC 0045	FTCC 2245	$  \rangle /$	4		133	
	22.78 - 23.45 23.46 - 24.16	FTS-2345- FTS-2416-	FTSC-2345- FTSC-2416-	$  \rangle /$	6		136	
20"-24"	24.15 - 24.85	FTS-2485-	FTSC-2485-	ΙX	8	-MJ	180	
	24.82 - 25.52	FTS-2552-	FTSC-2552-	$I/\setminus$	10 12		229 299	
				/ \	16		430	
				1 /	3		148	
	25.71 - 26.41	FTS-2641-	FTSC-2641-	\ /	4		149	
0.4"	26.55 - 27.25	FTS-2725-	FTSC-2725-	$  \vee  $	6		153	
24"	27.26 - 27.96	FTS-2796-	FTSC-2796-		<u>8</u> 10	-MJ	212 260	
	28.14 - 28.84	FTS-2884-	FTSC-2884-	/\	12		323	
				/ \	16		459	
				\ /	3		161	
	00.70 00.40	FT0 6646	FT00 0040	\ /	4		162	
30"	29.78 - 30.48 30.48 - 31.18	FTS-3048- FTS-3118-	FTSC-3048- FTSC-3118-	V	<u>6</u> 8	-MJ	168 222	
30	30.48 - 31.18 31.52 - 32.22	FTS-3118- FTS-3222-	FTSC-3118- FTSC-3222-	$  \wedge  $	10	-IVIJ	283	
	01.02 02.22	110-3222-	1 100.0222-	/ \	12		350	
			1	i/ \	16	1	550	

**To Order:** Add flange size to the appropriate sleeve number. For example: A 4" flange on 6" ductile iron pipe would be FTS-716-4. **Option:** Standard FTS with **stainless steel nuts and bolts**: add "-SH" to the catalog number. Example: FTS-716-4-SH.

Standard FTSC with alloy nuts and bolts: add "-AH" to the catalog number. Example: FTSC-716-4-AH.

Note: Use 1" undersize cutter for flanges 14" and larger. Oversized outlets are available by special request.

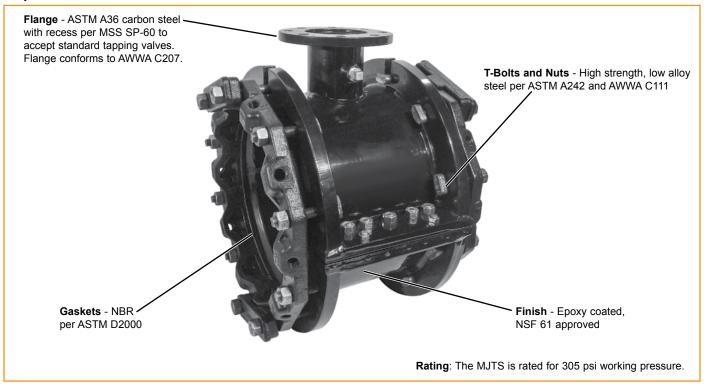
For use on HDPE pipe, use part prefix FTSP or FTSCP.

<sup>\*</sup> These units for size-on-size taps may require a 1/2" undersized cutter.

<sup>\*\*</sup> Size-on-size for this range is not available.

# Ford Mechanical Joint Tapping Sleeve

With a heavy-duty fully encapsulating design, the Ford Mechanical Joint Tapping Sleeve (MJTS) is ideal for challenging situations where pipes may be out-of-round, susceptible to breakage, or where the pipe will not allow for an outlet neck seal. A unique leverage bar sealing system eliminates the need for removing or modifying the sideseal gasket during installation. Alignment pins and lugs on each half ensure easy installation.



NOMINAL PIPE SIZE	SLEEVE* O.D. RANGE	SLEEVE NUMBER**	By	FLANGE SIZE CODE
12"	13.20	MJTS-1320-x	\ /	4
14"	15.30	MJTS-1530-x	\ /	
16"	17.40	MJTS-1740-x	$  \setminus /$	6
18"	19.50	MJTS-1950-x	) X	8
20"	21.60	MJTS-2160-x	/ \	10
24"	25.80	MJTS-2580-x	/ \	
30"	32.00	MJTS-3200-x	/ \	12

<sup>\*</sup> Sleeve will accommodate AWWA pipe tolerances.

## Sample Specifications for the MJTS Tapping Sleeve

The Tapping Sleeve shall be of split mechanical joint design with independent end and side seal gaskets. All welded components except the flange shall be constructed with ASTM A36 carbon steel. Flange dimensions shall meet AWWA C207 with a valve recess per MSS SP-60. The flange shall be constructed of high strength, low alloy steel per ASTM A242 or ASTM A588 with a minimum of 50 ksi yield strength and superior corrosion resistance compared to carbon steel or ductile iron. The end seal and side seal gaskets shall be virgin NBR formulated for water service. The gaskets shall not require field trimming or cutting. The compression ring shall be manufactured with ductile iron per ASTM A536 Grade 65-45-12 or ASTM A36 carbon steel. The tapping sleeve shall meet AWWA C223 as applicable. The tapping sleeve shall be coated to an average of 12 mils thickness with a fusion-bonded epoxy that is NSF 61 listed.

<sup>\*\*</sup> To order: Add flange size to the sleeve number. Example: A 4" flange on 14" ductile iron pipe would be MJTS-1530-4. For MJ outlet, add "-MJ" to the catalog number. Example: MJTS-1530-4-MJ. Please contact factory for pipe O.D. sizes not covered by our standard ranges.

# Ford Brass Saddles Style S40 and S41

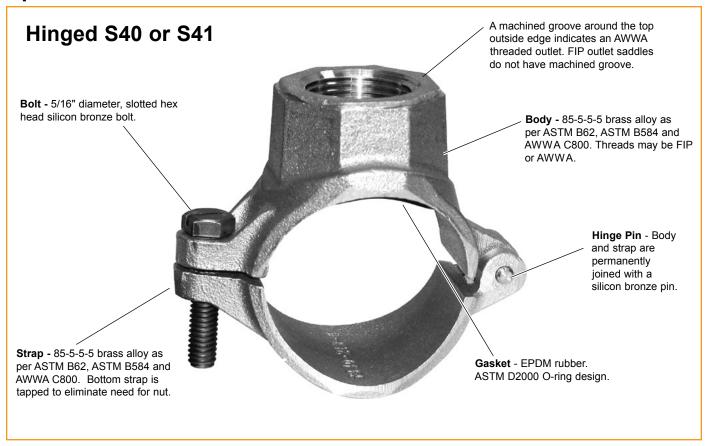
**For Copper Tubing** 

Ford Saddles are cast from certified 85-5-5-5 waterworks brass and machined to rigid specifications. Their ample width and preformed radius provide greater distribution of clamping pressures to avoid crushing the pipe.

Design "A" (hinged) saddles install as a single unit with no loose parts to lose in the ditch. The upper and lower castings are permanently hinged together with a silicon bronze pin and the silicon bronze bolt has a retainer to prevent loss during shipment and installation. The retainer tag identifies the tap style and size. The lower casting is tapped to accept the bolt so nuts are not required.

Ford's convenient marking system quickly and easily identifies the type of thread in the boss. For AWWA tapered thread, the top edge of the boss has a machined groove around the top outside edge while the boss for iron pipe thread is smooth. See photograph below.

## **Specifications**





#### Style S40 and S41 Brass Saddles

COPPER TUBING SIZE	ACTUAL O.D.	AWWA TAP CATALOG NUMBER S40	IP TAP CATALOG NUMBER S41	TAP Size	APPROX. WT. LBS.
		S40-201	S41-201	1/2"	1.3
2"	2.13	S40-203	S41-203	3/4"	1.1
		S40-204	S41-204	1"	1.0

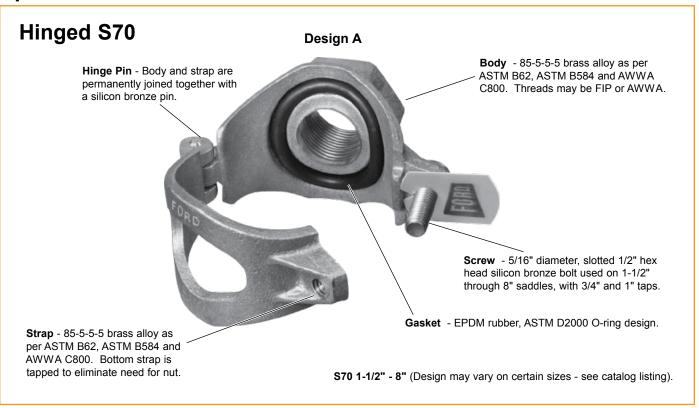
#### Saddle Style, Design and Bolt Chart

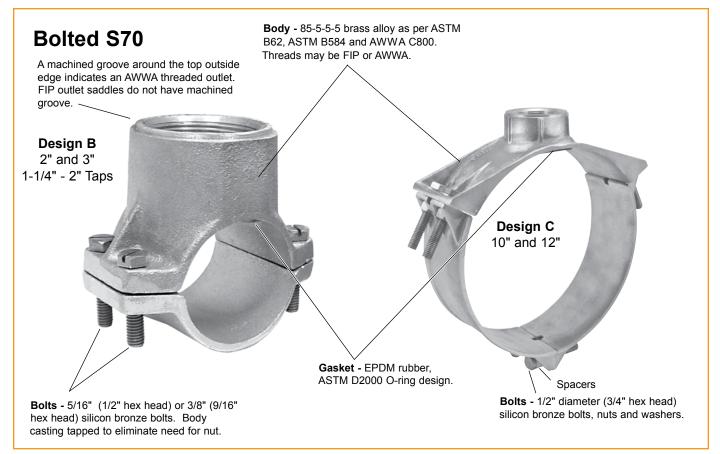
SADDLE STYLE	COPPER TUBING SIZE	TAP SIZE	DESIGN	No. of Bolts	SADDLE SCREW AND BOLT SIZE	BOLT CAT. NO.
S40 / S41	2"	1/2", 3/4" and 1"	Hinged	1 per saddle	5/16"x1-1/2"	SADDLE-SCREW800181

# Ford Brass Saddles Style S70 and S71

## For Standard PVC Pipe

## **Specifications**





# Ford Brass Saddles Style S70 and S71

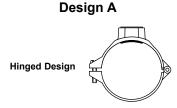
## For Standard Steel Size PVC Pipe

Ford Saddles are cast from certified 85-5-5-5 waterworks brass and machined to rigid specifications. Their ample width and preformed radius provide greater distribution of clamping pressures to avoid crushing the pipe.

Design "A" (hinged) saddles install as a single unit with no loose parts to lose in the ditch. (Designs may vary - see below.) The upper and lower castings are permanently hinged together with a silicon bronze pin and the silicon bronze bolt has a retainer on it to prevent loss during shipment and installation. The retainer tag identifies the tap style and size. The lower casting is tapped to accept the bolt so that nuts are not required. PVC pipe may expand under high pressure causing damage to over-tightened saddles.

Ford's convenient marking system quickly and easily identifies the type of thread in the boss. For AWWA tapered thread, the top of the boss has a machined groove around the top outside edge while the boss for iron pipe thread is smooth.

### Style S70 and S71 Brass Saddles



#### Design B



#### Design C



PVC	Style S70 and S71 Brass Saddles									
2" 2.38	PIPE	PIPE	CAT. No.	CAT. No.		Design	WT.			
2" 2.38   \$70-153   \$71-153   \$1/4"   A   1.0   \$70-203   \$71-203   \$3/4"   A   1.1   A   1.0   \$70-204   \$71-204   1"   A   1.1   A   1.0   \$70-205   \$71-205   \$1-1/4"   B   3.6   \$70-206   \$71-206   \$1-1/2"   B   3.4   A   1.7   A   1.6   \$70-253   \$71-253   \$3/4"   A   1.7   A   1.6   \$70-254   \$71-255   \$1-1/4"   B   3.8   \$70-255   \$71-255   \$1-1/4"   B   3.8   \$70-255   \$71-255   \$1-1/4"   B   3.8   \$70-256   \$71-255   \$1-1/2"   B   3.6   \$70-301   \$71-301   \$1/2"   A   1.9   \$70-301   \$71-301   \$1/2"   A   1.9   \$70-303   \$71-303   \$3/4"   A   1.7   \$70-304   \$71-304   1"   A   1.7   \$70-401   \$71-404   1"   A   2.2   \$70-403   \$71-404   1"   A   2.2   \$70-404   \$71-404   1"   A   2.0   \$70-406   \$71-404   1"   A   2.0   \$70-406   \$71-404   1"   A   2.0   \$70-406   \$71-404   1"   A   2.5   \$70-407   \$71-407   2"   A   4.8   \$70-603   \$71-503   3/4"   A   2.6   \$70-603   \$71-603   3/4"   A   2.8   \$70-601   \$71-604   1"   A   2.8   \$70-604   \$71-604   1"   A   2.8   \$70-604   \$71-604   1"   A   2.8   \$70-606   \$71-606   \$71-606   \$71-606   \$71-606   \$71-606   \$71-607   2"   A   5.9   \$70-607   \$70-606   \$71-606   \$71-606   \$71-606   \$71-606   \$71-606   \$71-606   \$71-606   \$71-606   \$71-606   \$71-607   2"   A   5.6   \$70-806   \$71-806   \$71-806   \$71-806   \$71-807   2"   A   5.6   \$70-806   \$71-806	4.4/0"	4.00	S70-151	S71-151	1/2"	Α	1.0			
2" 2.38	1-1/2	1.90	S70-153	S71-153	3/4"	Α	1.0			
2" 2.38			S70-201	S71-201	1/2"	Α	1.4			
S70-205   S71-205   1-1/4"   B   3.6			S70-203	S71-203	3/4"	Α	1.1			
2-1/2"  2.88    S70-206	2"	2.38	S70-204	S71-204	1"	Α	1.0			
2-1/2" 2.88			S70-205	S71-205						
2-1/2"   2.88			S70-206	S71-206	1-1/2"	В	3.4			
2-1/2"			S70-253	S71-253		Α	1.7			
3" 3.50  3.5	2 4/2"	2 9 9	S70-254	S71-254	1"		1.6			
3" 3.50    S70-301   S71-301   1/2"   A   1.9	2-1/2	2.00	S70-255	S71-255		В				
3" 3.50			S70-256	S71-256		В	3.6			
ST0-304			S70-301				1.9			
S70-304   S71-304   1"	3"	3 50				Α				
4"       4.50       \$70-401       \$71-401       1/2"       A       2.2         \$70-403       \$71-403       3/4"       A       2.1         \$70-404       \$71-404       1"       A       2.0         \$70-406       \$71-406       1-1/2"       A       4.1         \$70-407       \$71-407       2"       A       4.8         5"       \$70-407       \$71-407       2"       A       4.8         5"       \$70-407       \$71-407       2"       A       4.8         5"       \$70-503       \$71-503       3/4"       A       2.6         \$70-504       \$71-504       1"       A       2.5         \$70-601       \$71-504       1"       A       2.5         \$70-601       \$71-601       1/2"       A       2.8         \$70-603       \$71-603       3/4"       A       2.8         \$70-604       \$71-604       1"       A       2.8         \$70-606       \$71-607       2"       A       5.1         \$70-801       \$71-801       1/2"       A       3.6         \$70-803       \$71-804       1"       A       3.6         \$70	•	3.30	S70-304			Α				
4"       4.50       \$70-403       \$71-403       3/4"       A       2.1         \$70-404       \$71-404       1"       A       2.0         \$70-406       \$71-406       1-1/2"       A       4.1         \$70-407       \$71-407       2"       A       4.8         5"       \$70-407       \$71-407       2"       A       4.8         5"       \$70-407       \$71-407       2"       A       4.8         5"       \$70-503       \$71-503       3/4"       A       2.6         \$70-504       \$71-504       1"       A       2.5         \$70-601       \$71-601       1/2"       A       2.9         \$70-603       \$71-603       3/4"       A       2.8         \$70-604       \$71-604       1"       A       2.8         \$70-606       \$71-606       1-1/2"       A       5.9         \$70-801       \$71-801       1/2"       A       3.6         \$70-803       \$71-801       1/2"       A       3.6         \$70-804       \$71-804       1"       A       3.6         \$70-806       \$71-806       1-1/2"       A       5.8			-							
4"       4.50       \$70-404       \$71-404       1"       A       2.0         \$70-406       \$71-406       1-1/2"       A       4.1         \$70-407       \$71-407       2"       A       4.8         5"       \$70-503       \$71-503       3/4"       A       2.6         \$70-504       \$71-504       1"       A       2.5         \$70-601       \$71-504       1"       A       2.5         \$70-601       \$71-601       1/2"       A       2.9         \$70-603       \$71-601       1/2"       A       2.8         \$70-604       \$71-604       1"       A       2.8         \$70-606       \$71-606       1-1/2"       A       5.9         \$70-801       \$71-806       1-1/2"       A       5.9         \$70-803       \$71-801       1/2"       A       3.6         \$70-804       \$71-801       1/2"       A       5.8         \$70-805       \$70-804       \$71-804       1"       A       5.8         \$70-806       \$71-806       1-1/2"       A       5.8         \$70-807       \$71-807       2"       A       5.6         \$70-10			S70-401							
S70-406   S71-406   1-1/2"   A   4.1		4.50	S70-403							
S70-407         S71-407         2"         A         4.8           S70-503         S71-503         3/4"         A         2.6           S70-504         S71-503         3/4"         A         2.6           S70-601         S71-504         1"         A         2.5           S70-601         S71-601         1/2"         A         2.9           S70-603         S71-603         3/4"         A         2.8           S70-604         S71-604         1"         A         2.8           S70-606         S71-606         1-1/2"         A         5.9           S70-607         S71-607         2"         A         5.1           S70-801         S71-801         1/2"         A         3.6           S70-803         S71-803         3/4"         A         3.6           S70-804         S71-804         1"         A         3.6           S70-806         S71-807         2"         A         5.6           S70-807         S71-807         2"         A         5.6           S70-1003         S71-1003         3/4"         C         7.0           S70-1004         S71-S91-1006         1-1/2"	4"		S70-404	S71-404	1"		2.0			
5"         5.56         \$70-503         \$71-503         3/4"         A         2.6           \$70-504         \$71-504         1"         A         2.5           \$70-601         \$71-601         1/2"         A         2.9           \$70-603         \$71-601         1/2"         A         2.8           \$70-603         \$71-603         3/4"         A         2.8           \$70-604         \$71-604         1"         A         2.8           \$70-606         \$71-604         1"         A         5.9           \$70-606         \$71-606         1-1/2"         A         5.1           \$70-607         \$71-607         2"         A         5.1           \$70-801         \$71-801         1/2"         A         3.6           \$70-803         \$71-801         1/2"         A         3.6           \$70-803         \$71-804         1"         A         3.6           \$70-806         \$71-804         1"         A         3.6           \$70-807         \$71-807         2"         A         5.6           \$70-807         \$71-807         2"         A         5.6           \$70-1003         \$71-			S70-406	S71-406		Α	4.1			
5"         5.56         \$70-504         \$71-504         1"         A         2.5           \$70-601         \$71-601         \$1/2"         A         2.9           \$70-603         \$71-603         \$3/4"         A         2.8           \$70-603         \$71-604         1"         A         2.8           \$70-604         \$71-604         1"         A         2.8           \$70-606         \$71-606         \$1-1/2"         A         5.9           \$70-607         \$71-607         2"         A         5.1           \$70-801         \$71-607         2"         A         5.1           \$70-801         \$71-801         \$1/2"         A         3.6           \$70-803         \$71-803         \$3/4"         A         3.6           \$70-804         \$71-804         1"         A         3.6           \$70-806         \$71-804         1"         A         5.8           \$70-807         \$71-807         2"         A         5.6           \$70-807         \$71-807         2"         A         5.6           \$70-1003         \$71-1003         3/4"         C         7.0           \$70-1004 <td< th=""><th></th><th></th><th>S70-407</th><th>S71-407</th><th>2"</th><th>Α</th><th>4.8</th></td<>			S70-407	S71-407	2"	Α	4.8			
6"         \$70-504         \$71-504         1"         A         2.5           \$70-601         \$71-601         1/2"         A         2.9           \$70-603         \$71-603         3/4"         A         2.8           \$70-604         \$71-604         1"         A         2.8           \$70-606         \$71-606         1-1/2"         A         5.9           \$70-607         \$71-607         2"         A         5.1           \$70-801         \$71-801         1/2"         A         3.7           \$70-803         \$71-801         1/2"         A         3.6           \$70-803         \$71-803         3/4"         A         3.6           \$70-804         \$71-804         1"         A         5.8           \$70-806         \$71-806         1-1/2"         A         5.8           \$70-807         \$71-807         2"         A         5.6           \$70-807         \$71-807         2"         A         5.6           \$70-1003         \$71-1003         3/4"         C         7.0           \$70-1004         \$71-91-1004         1"         C         7.0           \$70-990-1006         \$71-91-1007	5"	E 56	S70-503	S71-503		Α				
6" 6.63	J	3.30	S70-504	S71-504						
6"       6.63       \$70-604       \$71-604       1"       A       2.8         \$70-606       \$71-606       \$1-1/2"       A       5.9         \$70-607       \$71-607       2"       A       5.1         \$70-801       \$71-801       1/2"       A       3.7         \$70-803       \$71-801       1/2"       A       3.6         \$70-804       \$71-804       1"       A       3.6         \$70-806       \$71-804       1"       A       5.8         \$70-806       \$71-806       1-1/2"       A       5.8         \$70-807       \$71-807       2"       A       5.6         \$70-1003       \$71-1003       3/4"       C       7.0         \$70-1004       \$71-1004       1"       C       7.0         *\$70-590-1006       *\$71-591-1006       1-1/2"       C       10.4         *\$70-590-1007       *\$71-891-1007       2"       C       10.7         \$70-1203       \$71-1203       3/4"       C       8.1         \$70-1204       \$71-1204       1"       C       7.8         \$70-1204       \$71-204       1"       C       7.8         \$70-1204										
8" 8.63			S70-603							
8" 8.63	6"	6.63	S70-604	S71-604		Α				
8" 8.63										
8" 8.63										
8" 8.63			S70-801							
10"  10"  10.75  10.75-11.10  12"  12"  12"  13.75-13.20  13.75-13.20  15.70-806  15.70-807  15.70-807  15.70-807  15.70-807  15.70-807  15.70-807  15.70-807  15.70-807  15.70-807  15.80  15.										
10"  10.75  10.75  10.75-11.10  10.75-11.10  10.75-11.20  10.75-11.10	8"	8.63			-					
10"  10.75  \$70-1003  \$71-1003  \$3/4"  C 7.0  \$70-1004  \$71-1004  1" C 7.0  10.75-11.10  *\$70-\$90-\$1006  *\$71-\$91-\$1006  1-1/2"  C 10.4  *\$70-\$90-\$1007  *\$71-\$91-\$1007  2" C 10.7  \$70-\$1203  \$71-\$12										
10"										
10"   S70-1004   S71-1004   1"   C   7.0		10.75								
10.75-11.10 *\$70-590-1006 *\$71-\$91-1006 1-1/2" C 10.4  *\$70-\$90-1007 *\$71-\$91-1007 2" C 10.7  12.75 \$70-1203 \$71-1203 3/4" C 8.1  \$70-1204 \$71-1204 1" C 7.8  *\$70-\$90-1206 *\$71-\$91-1206 1-1/2" C 11.3	10"									
12.75   S70-1203   S71-1203   3/4"   C   8.1   S70-1204   S71-1204   1"   C   7.8   C   11.3   C		10.75-11.10				C				
12.75		130				C				
12"		12.75								
12.75.13.20 *\$70-\$90-1206 *\$71-\$91-1206 1-1/2" C 11.3	12"	.2			•					
*S70-S90-1207 *S71-S91-1207 2" C 10.9		12.75-13.20								
* These saddles will cover Steel size PVC and C000 PVC O D range						С	10.9			

<sup>\*</sup> These saddles will cover Steel size PVC and C900 PVC O.D. range.

#### Saddle Style, Design and Bolt Chart

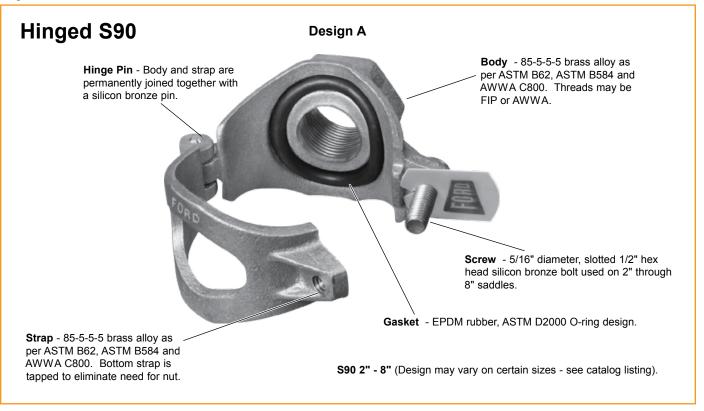
SADDLE STYLE	PVC PIPE SIZE	TAP SIZE	DESIGN	No. of Bolts	SADDLE SCREW AND BOLT SIZE	BOLT CAT. NO.				
	1-1/2" thru 8"	3/4" and 1"	Hinged	1 per saddle	5/16"x1-1/2"	SADDLE-SCREW800181				
	2"	1-1/4" and 1-1/2"	2 Piece	4 per saddle	5/16"x1-1/2"	SADDLE-SCREW800181				
S70 / S71	2-1/2"	1-1/4" and 1-1/2"	2 Piece	4 per saddle	3/8"x2"	SADDLE-SCREW800233				
0.07.01.	3"	2"	2 Piece	4 per saddle	3/8"x1-1/2"	SADDLE-BOLT-800224				
	4" thru 8"	1-1/2" and 2"	Hinged	2 per saddle	5/16"x1-1/2"	SADDLE-SCREW800181				
	10" and 12"	3/4" and 1"	3 Piece	3 per saddle	1/2"x3"	**SADDLE-BOLT-800287				
	10" and 12"	1-1/2" and 2"	3 Piece	6 per saddle	1/2"x3"	**SADDLE-BOLT-800287				

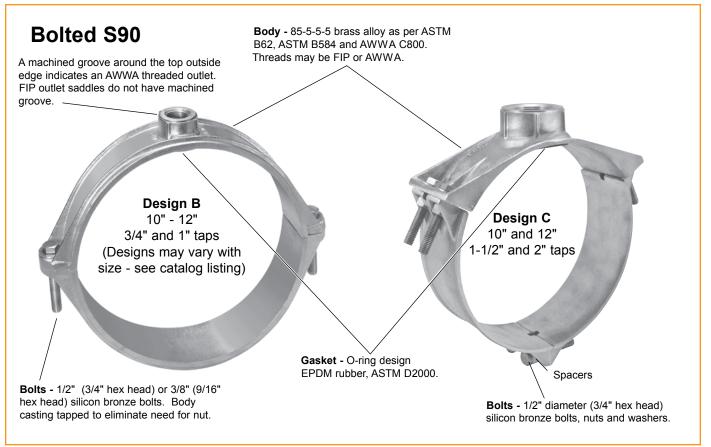
<sup>\*\*</sup> Requires nut. Catalog number: SADDLE-NUT-800490

# Ford Brass Saddles Style S90 and S91

For C900 PVC Pipe

## **Specifications**





# Ford Brass Saddles Style S90 and S91

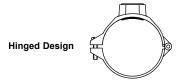
### For C900 PVC Pipe

Ford Saddles are cast from certified 85-5-5-5 waterworks brass and machined to rigid specifications. Their ample width and preformed radius provide greater distribution of clamping pressures to avoid crushing the pipe.

Design "A" (hinged) saddles install as a single unit with no loose parts to lose in the ditch. (Designs may vary - see below.) The upper and lower castings are permanently hinged together with a silicon bronze pin and the silicon bronze bolt has a retainer on it to prevent loss during shipment and installation. The retainer tag identifies the tap style and size. The lower casting is tapped to accept the bolt so that nuts are not required. PVC pipe may expand under high pressure causing damage to over-tightened saddles.

Ford's convenient marking system quickly and easily identifies the type of thread in the boss. For AWWA tapered thread, the top of the boss has a machined groove around the top outside edge while the boss for iron pipe thread is smooth.

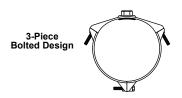
#### Design A



#### Design B



#### Design C



#### Style S90 and S91 Saddles for C900 PVC Pipe

	otyle 330 and 331 Saudies for 3300 i vo i ipe									
PVC	ACTUAL	AWWA	IP TAP	TAP	_	APPROX.				
PIPE	PIPE	CAT. No.	CAT. No.	SIZE	DESIGN	W⊤.				
SIZE	O.D.	S90	S91			LBS.				
2"	2.50	S90-201	S91-201	1/2"	Α	0.9				
	2.50	S90-203	S91-203	3/4"	Α	1.1				
		S90-401	S91-401	1/2"	Α	2.1				
		S90-403	S91-403	3/4"	Α	1.8				
4"	4.80	S90-404	S91-404	1"	Α	2.0				
		S90-406	S91-406	1-1/2"	Α	6.5				
		S90-407	S91-407	2"	Α	6.4				
		S90-601	-	1/2"	Α	3.4				
		S90-603	S91-603	3/4"	Α	2.6				
6"	6.90	S90-604	S91-604	1"	Α	2.6				
		S90-606	S91-606	1-1/2"	Α	8.9				
		S90-607	S91-607	2"	Α	7.3				
		S90-801	S91-801	1/2"	Α	3.6				
		S90-803	S91-803	3/4"	Α	2.8				
8"	9.05	S90-804	S91-804	1"	Α	3.2				
		S90-806	S91-806	1-1/2"	Α	8.0				
		S90-807	S91-807	2"	Α	8.5				
	44.40	S90-1003	S91-1003	3/4"	В	9.3				
40"	11.10	S90-1004	S91-1004	1"	В	9.2				
10"	40.75.44.40	*S70-S90-1006	*S71-S91-1006	1-1/2"	С	10.5				
	10.75-11.10	*S70-S90-1007	*S71-S91-1007	2"	С	10.5				
	40.00	S90-1203	S91-1203	3/4"	В	11.1				
4011	13.20	S90-1204	S91-1204	1"	В	11.0				
12"	40.55.40.00	*S70-S90-1206	*S71-S91-1206	1-1/2"	C	11.5				
	12.75-13.20	*S70-S90-1207	*S71-S91-1207	2"	Č	11.0				
* Th										

<sup>\*</sup> These saddles will cover steel size PVC and C900 PVC O.D. range.

Note: 10" and 12" S90 and S91 saddles with 3/4" and 1" taps are also a two-piece bolted design. Larger saddles, style 202BS, designed for C900 PVC are listed on page 23.

#### Style S902 and S912 Two-Piece Bolted Saddles for C900 PVC Pipe

Style 3302 and 3312 1W0-1 lece Boiled Saddles for 3300 1 vo 1 lpe								
PVC PIPE SIZE	ACTUAL PIPE O.D.	AWWA Cat. No. S902	IP TAP CAT. No. S912	TAP Size	Design	APPROX. WT. LBS.		
		S902-403	S912-403	3/4"	В	3.2		
4"	4.80	S902-404	S912-404	1"	В	2.9		
4	4.00	S902-406	S912-406	1-1/2"	В	6.5		
		S902-407	S912-407	2"	В	6.5		
		S902-603	S912-603	3/4"	В	4.6		
6"	6.90	S902-604	S912-604	1"	В	4.5		
•	0.90	S902-606	S912-606	1-1/2"	В	8.5		
		S902-607	S912-607	2"	В	8.5		
		S902-803	S912-803	3/4"	В	5.5		
8"	9.05	S902-804	S912-804	1"	В	5.4		
0	9.05	S902-806	S912-806	1-1/2"	В	12.5		
		S902-807	S912-807	2"	В	12.5		
10"	11.10	S902-1006	S912-1006	1-1/2"	В	12.8		
10	11.10	S902-1007	S912-1007	2"	В	12.2		
12"	13.20	S902-1206	S912-1206	1-1/2"	В	14.3		
12	13.20	S902-1207	S912-1207	2"	В	14.3		

#### Saddle Style, Design and Bolt Chart

SADDLE STYLE	PVC PIPE SIZE	TAP SIZE	Design	No. of Bolts	SADDLE SCREW AND BOLT SIZES	BOLT CAT. NO.
	2" thru 8"	3/4" and 1"	Hinged	1 per saddle	5/16"x1-1/2"	SADDLE-SCREW800181
S90 / S91	4" thru 8"	1-1/2" and 2"	Hinged	2 per saddle	5/16"x1-1/2"	SADDLE-SCREW800181
390 / 39 1	10" and 12"	3/4" and 1"	2 Piece	2 per saddle	1/2"x3"	**SADDLE-BOLT-800287
	10" and 12"	1-1/2" and 2"	3 Piece	6 per saddle	1/2"x3"	**SADDLE-BOLT-800287
S902 / S912	4" thru 12"	3/4" and 1"	2 Piece	2 per saddle	3/8"x2"	SADDLE-SCREW800233
3902 / 3912		1-1/2" and 2"	2 Piece	4 per saddle	1/2"x3"	**† SADDLE-BOLT-800287

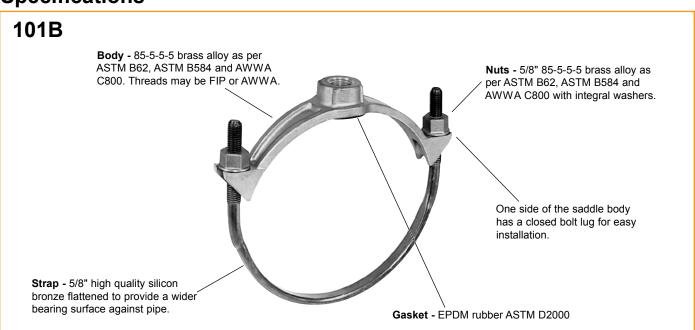
<sup>\*\*</sup> Requires nut. Catalog number: SADDLE-NUT-800490

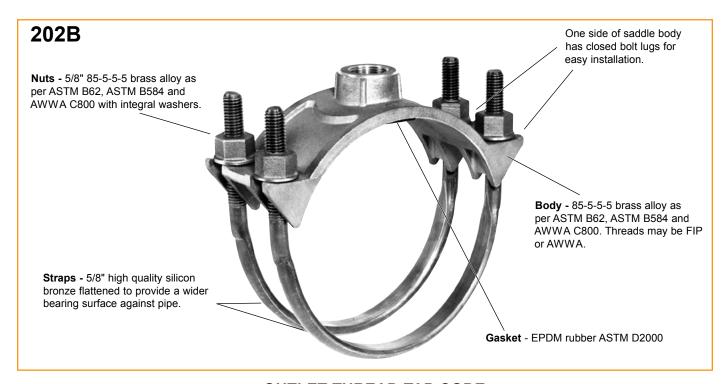
<sup>†</sup> Requires washer. Catalog number: SADDLEWASHER800561

# Ford Brass Saddles Style 101B and 202B

101B, 3/4" and 1" Taps 202B, 3/4" through 2" Taps

## **Specifications**





#### **OUTLET THREAD TAP CODE**

CC (AWW	A) THREAD	FIP THREAD		
THREAD	CODE	THREAD	CODE	
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	

<sup>\*</sup>Contact factory for availability

# Ford Brass Saddles Styles 101B and 202B

101B, 3/4" and 1" Taps 202B, 3/4" through 2" Taps

Ford's single strap 101B, and double strap 202B brass saddles are designed with built-in flexibility to cover asbestos-cement and/ or cast iron size pipe. See 101BS & 202BS for use on PVC pipe. The body of the saddle is sized to fit class 200 asbestos-cement but will bend during installation to conform to the smaller size cast iron or ductile iron material. This eliminates double inventory and guesswork before heading to the job site.

The body and the nuts of Ford brass saddles are cast from certified 85-5-5-5 water works brass conforming to the AWWA C800 standard. The straps are high-quality silicon bronze flattened to provide a wide bearing surface against the pipe. The large EPDM rubber gasket is grooved to conform to the pipe surface and bonded in place for easy installation.

Ford's convenient marking system quickly and easily identifies the type of thread in the boss. For AWWA tapered thread, the boss has a machined groove around the top outside edge while the boss for iron pipe thread is smooth.

These saddles are not for use on PVC and do not comply with AWWA and Uni-Bell stipulations for use on PVC pipe. See 101BS, 202BS and 202BSD saddles for use on PVC pipe.



(For AC or Iron Pipe) For 3/4" and 1" Taps



Nom. Pipe Size	O.D. Range	CATALOG Number	Approx. Wt. Lbs.
4"	4.80-5.40	101B-540-Tap	3.0
6"	6.90-7.50	101B-750-Tap	3.8
8"	9.05-9.62	101B-962-Tap	4.4
10"	11.10-12.12	101B-1212-Tap	5.4
12"	13.20-14.38	101B-1438-Tap	5.9

To Order: Add tap code number from the table at the bottom of page 20 to the catalog number. For example, a saddle for 6" cast iron pipe with a 3/4" CC tap would be 101B-750-CC3. A saddle for 8" cast iron pipe with 1" iron pipe tap would be a 101B-962-IP4.

## Style 202B Double Strap Brass Saddles

(For AC or Iron Pipe) For 3/4" through 2" Taps



Nom. PIPE SIZE	O.D. Range	CATALOG Number	APPROX. WT. LBS. 3/4" & 1" TAPS	APPROX. Wt. Lbs. 1-1/2" Tap	APPROX. Wt. Lbs. 2" Tap
	4.80-5.40	202B-540-Tap	6.6	7.1	N/A
4"	4.80-5.10	*202B-510-Tap	-	-	7.3
	5.10-5.40	*202B-540-Tap	-	-	7.3
6"	6.90-7.50	202B-750-Tap	7.7	7.9	8.4
8"	9.05-9.62	202B-962-Tap	8.8	9.3	9.4
10"	11.10-12.12	202B-1212-Tap	10.7	11.3	11.3
12"	13.20-14.38	202B-1438-Tap	11.8	11.9	13.3
14"	15.30-16.25	202B-1625-Tap	18.0	17.5	17.5
14	16.30-17.25	202B-1725-Tap	19.1	18.6	18.6
16"	17.40-18.40	202B-1840-Tap	23.0	22.5	22.5
10	18.50-19.25	202B-1925-Tap	24.0	23.5	23.5
18"	19.50-20.50	202B-2050-Tap	25.0	24.5	24.5
20"	21.20-22.20	202B-2220-Tap	25.5	25.0	25.0
20	22.50-23.50	202B-2350-Tap	25.7	25.2	25.2
24"	23.80-24.80	202B-2480-Tap	26.0	25.5	25.5
24"	25.60-26.50	202B-2650-Tap	26.5	26.0	26.0
30"	31.74-32.74	202B-3274-Tap	27.0	26.5	26.5

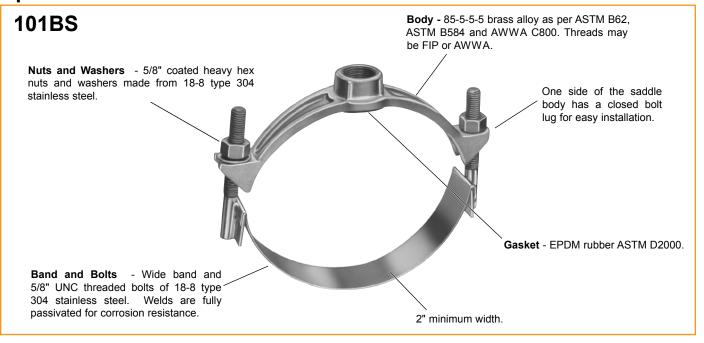
<sup>\*</sup> These 4" saddles have a limited range and are for 2" taps only. All other tap sizes have a standard range of 4.80-5.40.

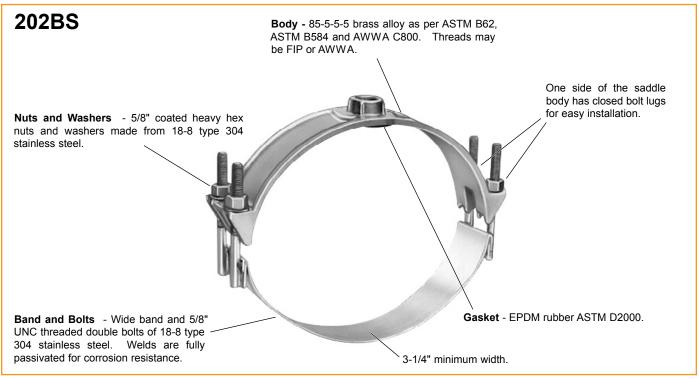
**To Order**: Add tap code from the table at the bottom of page 20 to the catalog number. For example, a saddle for 12" cast iron pipe with 1" CC tap would be 202B-1438-CC4.

# Ford Brass Saddles Styles 101BS and 202BS

With Stainless Steel Band and Bolts for PVC Pipe for 3/4" through 2" Taps

## **Specifications**





#### **OUTLET THREAD TAP CODE**

CC (AWW	A) THREAD	FIP THREAD		
THREAD CODE		THREAD	CODE	
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	

<sup>\*\*</sup> Only the 6" (6.90-7.50 range) saddle and 14" and larger saddles are available with a 1-1/4" tap. Contact factory for availability

# Ford Brass Saddles Styles 101BS and 202BS

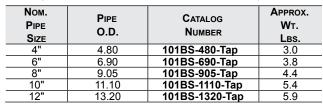
With Stainless Steel Band and Bolts for PVC Pipe for 3/4" through 2" Taps

The 101BS and 202BS style service saddles incorporate stainless steel bands in place of the standard silicon bronze straps. This combination of brass and stainless provides the perfect answer for strength and flexibility. The stainless easily conforms to the surface of PVC pipe and the brass provides the required strength to support service lines. Specially sized 101BS and 202BS style saddles are ideally suited for tapping PVC pipe. **These saddles conform to the stipulations of Uni-Bell and AWWA for use on PVC pipe**.

## Style 101BS Single Band Saddles for C900 PVC Pipe

For 3/4" and 1" Taps

**To Order:** Add tap code from the table at the bottom of page 22 to catalog number. Example: A saddle for 12" C900 PVC with 1" CC tap would be 101BS-1320-CC4.



Note: For 100% domestic content, add "-U100" to the part number.

# Style 202BS Double Band Saddles for C900/C905 PVC For 3/4" through 2" Taps Steel Size PVC For 3/4" and 1" Taps

**To Order:** Add tap code from the table at the bottom of page 22 to catalog number. Example: A saddle for 12" C900 PVC with 1" CC tap would be 202BS-1320-CC4.



	Property West and Appendix Wes						
Nom. PIPE SIZE	PIPE	CATALOG	APPROX. WT. LBS.	APPROX. WT. LBS.			
NOW. FIPE SIZE	O.D.	Number	3/4" & 1" TAPS	1-1/2" & 2" TAPS			
4"	4.80	202BS-480-Tap	6.6	7.6			
6"	6.63	202BS-663-Tap	7.7	-			
	6.90	202BS-690-Tap	7.7	8.8			
8"	8.63	202BS-863-Tap	8.8	-			
0	9.05	202BS-905-Tap	8.8	9.8			
10"	10.75	202BS-1075-Tap	10.7	-			
10	11.10	202BS-1110-Tap	10.7	12.2			
12"	12.75	202BS-1275-Tap	11.8	-			
12	13.20	202BS-1320-Tap	11.8	13.3			
14"	15.30	202BS-1530-Tap	18.0	17.5			
16"	17.40	202BS-1740-Tap	23.0	22.5			
18"	19.50	202BS-1950-Tap	25.0	24.5			
20"	21.60	202BS-2160-Tap	25.5	25.0			
24"	25.80	202BS-2580-Tap	26.0	25.5			
30"	32.00	202BS-3200-Tap	27.0	26.5			

Note: For 100% domestic content, add "-U100" to the part number.

# Style 202BS Double Band Brass Saddles for AC and Iron Pipe

For 3/4" through 2" Taps

**To Order**: Add tap code from the table at the bottom of page 22 to the catalog number. For example, a saddle for 20" iron pipe with 1" CC tap would be 202BS-2220-CC4.



N D 0	O.D.	CATALOG	APPROX. WT. LBS.	APPROX. WT. LBS.	
Nom. PIPE SIZE	RANGE	Number	3/4" & 1" TAPS	1-1/2" & 2" TAPS	
	4.80-5.40	202BS-540-Tap	6.1	-	
4"	4.80-5.10	*202BS-510-Tap	-	7.2	
	5.10-5.40	*202BS-540-Tap	-	7.2	
6"	6.90-7.50	202BS-750-Tap	7.1	7.9	
8"	9.05-9.62	202BS-962-Tap	7.1	8.7	
10"	11.10-12.12	202BS-1212-Tap	9.1	10.1	
12"	13.20-14.38	202BS-1438-Tap	10.4	12.2	
14"	15.30-16.25	202BS-1625-Tap	18.0	17.5	
14	16.30-17.25	202BS-1725-Tap	19.1	18.6	
16"	17.40-18.40	202BS-1840-Tap	23.0	22.5	
10	18.50-19.25	202BS-1925-Tap	24.0	23.5	
18"	19.50-20.50	202BS-2050-Tap	25.0	24.5	
20"	21.20-22.20	202BS-2220-Tap	25.5	25.0	
20	22.50-23.50	202BS-2350-Tap	25.7	25.2	
24"	23.80-24.80	202BS-2480-Tap	26.0	25.5	
24	25.60-26.50	202BS-2650-Tap	26.5	26.0	
30"	31.74-32.74	202BS-3274-Tap	27.0	26.5	
t Those 41 and dies have a limited some and one for 21 tags and . All other tags inco have					

<sup>\*</sup> These 4" saddles have a limited range and are for 2" taps only. All other tap sizes have a standard range of 4.80-5.40.

Note: For 100% domestic content, add "-U100" to the part number.

# Ford Brass Saddles Styles 202BSD

# With Stainless Steel Dual Band and Bolts for 3/4" through 2" Taps

The 202BSD style service saddles incorporate dual stainless steel bands in place of the standard silicon bronze straps. This combination of brass and stainless provides the perfect answer for strength and flexibility. The stainless easily conforms to the surface of PVC pipe and the brass provides the required strength to support service lines. If specifically sized to the PVC pipe diameter, 202BSD style saddles are ideally suited for tapping PVC pipe and conform to the stipulations of Uni-Bell and AWWA for use on PVC pipe.

## Style 202BSD Dual Band Saddles for C900/C905 PVC Pipe

Nous Dine Cire	PIPE	CATALOG	APPROX. WT. LBS.	APPROX. WT. LBS.
Nom. PIPE SIZE	O.D.	Number	3/4" & 1" TAPS	1-1/2" & 2" TAPS
4"	4.80	202BSD-480-Tap	7.0	7.7
6"	6.90	202BSD-690-Tap	7.2	7.7
8"	9.05	202BSD-905-Tap	7.8	9.0
10"	11.10	202BSD-1110-Tap	9.0	10.0
12"	13.20	202BSD-1320-Tap	10.8	12.5
14"	15.30	202BSD-1530-Tap	17.0	16.5
16"	17.40	202BSD-1740-Tap	22.0	21.5
18"	19.50	202BSD-1950-Tap	24.0	23.5
20"	21.60	202BSD-2160-Tap	24.5	24.0
24"	25.80	202BSD-2580-Tap	25.0	24.5
30"	32.00	202BSD-3200-Tap	26.0	25.5



Note: For 100% domestic content, add "-U100" to the part number.

## Style 202BSD Dual Band Saddles for Iron and AC Pipe

Nom. Pipe Size	PIPE	CATALOG	APPROX. WT. LBS.	APPROX. WT. LBS.
NOM. PIPE SIZE	O.D.	Number	3/4" & 1" TAPS	1-1/2" & 2" TAPS
4"	4.80-5.40	202BSD-540-Tap	6.2	7.2
4"	4.80-5.10	*202BSD-510-Tap	-	7.2
4"	5.10-5.40	*202BSD-540-Tap	-	7.2
6"	6.63	●**202BSD-663-Tap	7.2	-
6"	6.90-7.50	202BSD-750-Tap	7.2	8.0
8"	8.63-9.05	**202BSD-905-Tap	7.8	9.0
8"	9.05-9.62	202BSD-962-Tap	7.8	9.0
10"	10.75	●**202BSD-1075-Tap	9.0	-
10"	11.10-12.12	202BSD-1212-Tap	9.1	10.0
12"	12.75	●**202BSD-1275-Tap	10.8	-
12"	13.20-14.38	202BSD-1438-Tap	11.0	11.0
14"	15.30-16.25	202BSD-1625-Tap	17.0	17.0
14"	16.30-17.25	202BSD-1725-Tap	22.0	22.0
16"	17.40-18.40	202BSD-1840-Tap	23.0	23.0
16"	18.50-19.25	202BSD-1925-Tap	23.0	23.0
18"	19.50-20.50	202BSD-2050-Tap	24.0	24.0
20"	21.20-22.20	202BSD-2220-Tap	24.0	24.0
20"	22.50-23.50	202BSD-2350-Tap	24.0	24.0
24"	25.80-24.80	202BSD-2480-Tap	25.0	25.0
24"	25.60-26.50	202BSD-2650-Tap	25.5	25.5
30"	31.74-32.74	202BSD-3274-Tap	26.0	26.0



Note: For 100% domestic content, add "-U100" to the part number.

- \* Please Note: These 4" saddles have limited range and are for 2" taps only. For all other tap sizes use the standard 4.80-5.40 range.
- \*\* 3/4" and 1" taps only
- These saddles are suitable for use on steel size PVC.

#### **OUTLET THREAD TAP CODE**

CC (AWW	A) THREAD	IP THREAD	
THREAD	CODE	THREAD	CODE
3/4" CC	CC3	3/4" IP	IP3
1" CC	CC4	1" IP	IP4
1-1/2" CC	CC6	1-1/2" IP	IP6
2" CC	CC7	2" IP	IP7

**To order:** Select the catalog number for the desired pipe range and complete the catalog number by adding the outlet thread tap code. Example: A double band saddle for 6.90 C900 PVC pipe with a 3/4" CC thread would be 202BS-690-CC3.

# Ford Ductile Iron Service Saddles Styles F101 and FC101 Styles F202 and FC202

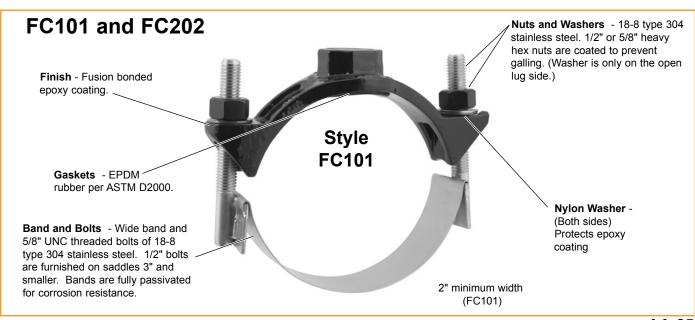
Ford ductile iron service saddles have a wide range and are designed for use on asbestos-cement, cast or ductile iron, and can be specifically sized for PVC pipe. They offer a simple, yet satisfactory, means of tapping water main pipe. The FC style is recommended for use in corrosive areas and the stainless steel bands are especially recommended for use on PVC. Ford style FC saddles should be pre-sized when used on PVC pipe. Pre-sized saddles will conform to the PVC pipe O.D. without placing undue stress on the pipe. The Ford Meter Box Company endorses full compliance with the standard tapping practices and recommended material requirements for tapping PVC pipe outlined in the Uni-Bell Handbook of PVC Pipe and the AWWA Manual M23. Improperly sized saddles and saddles with narrow straps are not for use on PVC pipe. If properly sized to the OD of PVC pipe, FC Saddles meet the stipulations of AWWA and Uni-Bell for use on PVC pipe.

One side of the saddle has closed lugs to allow pre-assembly of the saddle straps to facilitate installation. The heavy-duty outlet gasket maintains a positive seal in excess of the pipe rating.

F202 and FC202 saddles are rated for the lesser of 350 psi or the pressure of the pipe on which it is installed on sizes 2" - 12". On sizes 14" - 30", these saddles are rated for the lesser of 250 psi or the pressure of the pipe on which it is installed.

## **Specifications**





# Ford Ductile Iron Service Saddles Styles F101 and FC101

Single Strap for 3/4" and 1" Taps



F101 (epoxy coated with standard strap)



FC101 (epoxy coated with stainless steel band and bolts)

# Style F101 and FC101 Ductile Iron Service Saddles For AC and Iron Pipe

**To Order:** Select the catalog number for the desired pipe range and complete catalog number by adding the tap code from the table at the bottom of the page. Example: A standard single strap saddle for 6.90 ductile iron pipe with a 3/4" CC thread would be F101-760-CC3.

Nom. PIPE	PIPE O.D.	**CATALOG NUMBER	CATALOG NUMBER	APPROX.
SIZE	RANGE	STANDARD STRAP	STAINLESS BAND	WT.LBS.
2"	2.35-2.50	F101-250-Tap	FC101-250-Tap	1.8
2-1/2"	2.75-2.90	F101-290-Tap	FC101-290-Tap	2.0
3"	3.46-3.80	F101-380-Tap	FC101-380-Tap	2.1
3	3.80-4.25	F101-425-Tap	FC101-425-Tap	2.4
	4.26-4.80	F101-480-Tap	FC101-480-Tap	2.8
4"	4.74-5.26	F101-526-Tap	* FC101-526-Tap	3.0
	4.50-5.40	-	FC101-540-Tap	3.0
	5.94-6.69	F101-669-Tap	FC101-669-Tap	3.5
6"	6.63-6.90	F101-690-Tap	* FC101-690-Tap	-
0	6.84-7.60	F101-760-Tap	FC101-760-Tap	3.6
	6.63-7.61	-	FC101-761-Tap	3.6
	7.93-8.71	F101-871-Tap	FC101-871-Tap	3.8
8"	8.63-9.05	F101-905-Tap	* FC101-905-Tap	-
8 [	8.99-9.79	F101-979-Tap	* FC101-979-Tap	4.3
	8.63-9.80	-	* FC101-980-Tap	4.3
	10.00-10.75	F101-1075-Tap	FC101-1075-Tap	4.4
10"	11.10-12.12	F101-1212-Tap	FC101-1212-Tap	4.8
Γ	10.64-12.13	-	FC101-1213-Tap	4.8
	12.00-12.75	F101-1275-Tap	FC101-1275-Tap	5.9
12"	13.20-14.38	F101-1438-Tap	FC101-1438-Tap	6.7
Γ	12.62-14.39	-	FC101-1439-Tap	6.7

<sup>\*</sup> These saddles are available with 1-1/4", 1-1/2", and 2" taps.

## FC101 Saddles Sized for C900 PVC

**To Order**: Select the catalog number for the desired pipe O.D. and complete the catalog number by adding the tap code.

Example: An FC101 style saddle for 12" C900 PVC with 3/4" CC thread tap would be FC101-1320-CC3

Nom. Pipe Size	PIPE O.D.	CATALOG NUMBER STAINLESS BAND	APPROX. WT.LBS.
4"	4.80	* FC101-480-Tap	3.0
6"	6.90	* FC101-690-Tap	3.6
8"	9.05	* FC101-905-Tap	4.3
10"	11.10	FC101-1110-Tap	4.8
12"	13.20	FC101-1320-Tap	6.7

<sup>\*</sup> These saddles are available with 1-1/4", 1-1/2", and 2" taps.

#### **OUTLET THREAD TAP CODE**

CC (AWV	VA) THREAD	FIP T	HREAD
THREAD	CODE	THREAD	CODE
1/2"	***CC1	1/2" IP	***IP1
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

<sup>\*\*\*</sup>Contact factory for availability

Imported castings available in 2" - 12" with 1/2" through 1" taps. Add "-l" to the end of the catalog number. See price book for details.

<sup>\*\*</sup>Available with stainless steel bales, contact factory for availability.

# Ford Ductile Iron Service Saddles Styles F202 and FC202 for AC and Iron Pipe

## Double Strap Saddles for 3/4" through 2-1/2" Taps

Ford double strap or band saddles are recommended for larger taps and for use on larger O.D. pipe. Double strap saddles equalize the pressure on the pipe and can be used on asbestos-cement, cast or ductile iron pipe.

The FC style is recommended for use in corrosive areas and the stainless steel bands are especially recommended for use on PVC pipe. Ford FC Style saddles should be pre-sized when used on PVC pipe. Pre-sized saddles will conform to the PVC pipe O.D. without placing undue stress on the pipe. A separate listing of FC202 saddles sized for PVC is shown on the following page. The Ford Meter Box Company endorses full compliance with the standard tapping practices and recommended material requirements for tapping PVC pipe outlined in Uni-Bell Handbook of PVC Pipe and AWWA Manual M23. Improperly sized saddles and saddles with narrow straps are not for use on PVC pipe. If properly sized to the PVC pipe O.D., FC saddles meet the stipulations of AWWA and Uni-Bell for use on PVC pipe. See following pages.

The open and closed lug design allows pre-assembly of the straps, thus ensuring a safe yet simple installation. The heavy duty gasket ensures the saddle will maintain pressure in excess of the pipe rating.



Standard Straps and Epoxy Coated



Stainless Band and Epoxy Coated

#### Style F202 and FC202 Ductile Iron Saddles

**To Order**: Select the catalog number below for the desired pipe O.D. range and complete the catalog number by adding the outlet thread tap code from the bottom of page 26. Example: A standard double strap saddle for 6.90 ductile iron pipe with a 2" CC thread tap would be F202-760-CC7.

Nom. Pipe	PIPE O.D.	CATALOG NUMBER	CATALOG NUMBER	APPROX.
SIZE	RANGE	STANDARD STRAP	STAINLESS BAND	Wt.LBs.
2"	2.35-2.50	F202-250-Tap	FC202-250-Tap	2.8
2-1/2"	2.75-2.90	F202-290-Tap	FC202-290-Tap	2.8
3"	* 3.46-3.80	F202-380-Tap	FC202-380-Tap	4.8
3"	* 3.80-4.25	F202-425-Tap	FC202-425-Tap	5.5
	** 4.26-4.80	F202-480-Tap	FC202-480-Tap	5.4
	<b>▲</b> 4.74-5.00	F202-500-Tap	FC202-500-Tap	5.4
4"	* 4.74-5.26	F202-526-Tap	FC202-526-Tap	5.4
	▲ 4.97-5.26	F202-526-Tap	FC202-526-Tap	5.4
	* 4.50-5.40	-	FC202-540-Tap	5.4
	5.94-6.69	F202-669-Tap	FC202-669-Tap	5.7
6"	6.63-6.90	F202-690-Tap	FC202-690-Tap	5.7
б	6.84-7.60	F202-760-Tap	FC202-760-Tap	6.7
	6.63-7.61	-	FC202-761-Tap	6.7
	7.93-8.71	F202-871-Tap	FC202-871-Tap	6.8
8"	8.63-9.05	F202-905-Tap	FC202-905-Tap	8.2
0	8.99-9.79	F202-979-Tap	FC202-979-Tap	8.4
	8.63-9.80	-	FC202-980-Tap	8.4
	10.00-10.75	F202-1075-Tap	FC202-1075-Tap	9.4
10"	10.75-11.10	F202-1110-Tap	FC202-1110-Tap	9.0
10	11.10-12.12	F202-1212-Tap	FC202-1212-Tap	10.8
	10.64-12.13	-	FC202-1213-Tap	10.8
	12.00-12.75	F202-1275-Tap	FC202-1275-Tap	11.0
12"	12.75-13.20	F202-1320-Tap	FC202-1320-Tap	11.5
12	13.20-14.38	F202-1438-Tap	FC202-1438-Tap	12.8
	12.62-14.39	-	FC202-1439-Tap	12.8
14"	15.30-16.25	F202-1625-Tap	FC202-1625-Tap	11.9
14	16.30-17.25	F202-1725-Tap	FC202-1725-Tap	12.9
16"	17.40-18.40	F202-1840-Tap	FC202-1840-Tap	13.1
	18.50-19.25	F202-1925-Tap	FC202-1925-Tap	12.9
18"	19.50-20.50	F202-2050-Tap	FC202-2050-Tap	13.1
20"	21.20-22.20	F202-2220-Tap	FC202-2220-Tap	13.2
20	22.50-23.50	F202-2350-Tap	FC202-2350-Tap	13.3
24"	23.80-24.80	F202-2480-Tap	FC202-2480-Tap	13.4
	25.60-26.50	F202-2650-Tap	FC202-2650-Tap	13.9
30"	31.74-32.74	F202-3274-Tap	FC202-3274-Tap	14.8

- \* Saddles for this pipe range are not available with 2" CC or 2-1/2"
   IP threads.
- \*\* These saddles with 2" CC (CC7) or 2-1/2" IP (IP8) taps only fit 4.80" O.D. pipe. Example: F202-480-CC7 fits 4.80" pipe O.D. only.
- Available with stainless steel bales.
   Contact factory for availability.
- ▲ This saddle is only available with 2" CC (CC7) or 2-1/2" IP (IP8) taps.

Imported castings available in 2" - 12". Add "-I" to the end of catalog number. See price book for details.

# Ford Ductile Iron Service Saddles Style FC202 For C900/C905 PVC or Steel Sized PVC

Stainless Steel Double Wide Band Saddles for 3/4" through 2-1/2" Taps



Stainless Band & Epoxy Coated

#### FC202 Saddles Sized for C900/C905 PVC

**To Order**: Select the catalog number for the desired pipe O.D. and complete the catalog number by adding the outlet thread tap code. Example: An FC202 style saddle for 12" C900 PVC with a 2" CC thread would be FC202-1320-CC7.

Nom. PIPE SIZE	PIPE O.D. RANGE	CATALOG NUMBER STAINLESS BAND	APPROX. Wt.Lbs.
4"	4.80	FC202-480-Tap	6.0
6"	6.90	FC202-690-Tap	6.6
8"	9.05	FC202-905-Tap	7.3
10"	11.10	FC202-1110-Tap	11.5
12"	13.20	FC202-1320-Tap	13.4
14"	15.30	FC202-1530-Tap	15.1
16"	17.40	FC202-1740-Tap	15.6
18"	19.50	FC202-1950-Tap	16.8
20"	21.60	FC202-2160-Tap	17.4
24"	25.80	FC202-2580-Tap	18.1
30"	32.00	FC202-3200-Tap	19.4

#### FC202 Saddles Sized for Steel Sized PVC

**To Order**: Select the catalog number for the desired pipe O.D. and complete the catalog number by adding the outlet thread tap code. Example: An FC202 style saddle for 12" Steel sized PVC with a 2" CC thread would be FC202-1275-CC7.

Nom. Pipe Size	PIPE O.D.	CATALOG NUMBER STAINLESS BAND	APPROX. Wt. Lbs.
3"	*3.50	FC202-350-Tap	5.6
4"	*4.50	FC202-450-Tap	6.0
6"	6.63	FC202-663-Tap	6.5
8"	8.63	FC202-863-Tap	6.9
10"	10.75	FC202-1075-Tap	11.3
12"	12.75	FC202-1275-Tap	12.2

<sup>\*</sup> Saddles for this pipe range are not available with 2" CC or 2-1/2" IP threads.

#### **OUTLET THREAD TAP CODE**

CC (AWW	A) THREAD	FIP T	IREAD
THREAD	CODE	THREAD	CODE
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
-	-	2-1/2"	IP8

# Ford Ductile Iron Service Saddles Style FCD202

Stainless Steel Dual Band Saddles for 3/4" through 2-1/2" Taps



Stainless Band and Epoxy Coated

Saddles recommended for PVC pipe require sizes formed specifically to the pipe O.D. If properly sized to the PVC pipe O.D., FCD saddles meet the stipulations of AWWA and Uni-Bell for use on PVC pipe.

FCD202 saddles are rated for the lesser of 350 psi or the pressure of the pipe on which it is installed on sizes 2" - 12". On sizes 14" - 30", these saddles are rated for the lesser of 250 psi or the pressure of the pipe on which it is installed.

Nom. Pipe	PIPE	CATALOG NUMBER	APPROX.
Size	O.D.	STAINLESS BAND	WT.LBS.
2"	2.35-2.50	FCD202-250-Tap	2.8
2-1/2"	2.75-2.90	FCD202-290-Tap	2.8
0"	*3.46-3.80	FCD202-380-Tap	4.8
3"	*3.80-4.25	FCD202-425-Tap	5.5
	**4.26-4.80	FCD202-480-Tap	5.4
	<b>▲</b> 4.74-5.00	FCD202-500-Tap	5.4
4"	*4.74-5.26	FCD202-526-Tap	5.4
	▲4.97-5.26	FCD202-526-Tap	5.4
	*4.50-5.40	FCD202-540-Tap	5.4
	5.94-6.69	FCD202-669-Tap	5.7
6"	6.63-6.90	FCD202-690-Tap	5.7
0	6.84-7.60	FCD202-760-Tap	6.7
	6.63-7.61	FCD202-761-Tap	6.7
	7.93-8.71	FCD202-871-Tap	6.8
8"	8.63-9.05	FCD202-905-Tap	8.2
0	8.99-9.79	FCD202-979-Tap	8.4
	8.63-9.80	FCD202-980-Tap	8.4
	10.00-10.75	FCD202-1075-Tap	9.4
10"	10.75-11.10	FCD202-1110-Tap	9.0
10	11.10-12.12	FCD202-1212-Tap	10.8
	10.64-12.13	FCD202-1213-Tap	10.8
	12.00-12.75	FCD202-1275-Tap	11.0
12"	12.75-13.20	FCD202-1320-Tap	11.5
12	13.20-14.38	FCD202-1438-Tap	12.8
	12.62-14.39	FCD202-1439-Tap	12.8
	***15.30	FCD202-1530-Tap	11.9
14"	15.30-16.25	FCD202-1625-Tap	11.9
	16.30-17.25	FCD202-1725-Tap	12.9
	***17.40	FCD202-1740-Tap	13.1
16"	17.40-18.40	FCD202-1840-Tap	13.1
	18.50-19.25	FCD202-1925-Tap	12.8
18"	***19.50	FCD202-1950-Tap	13.1
	19.50-20.50	FCD202-2050-Tap	13.1
	***21.60	FCD202-2160-Tap	13.2
20"	21.20-22.20	FCD202-2220-Tap	13.2
	22.50-23.50	FCD202-2350-Tap	13.3
	23.80-24.80	FCD202-2480-Tap	13.4
24"	***25.80	FCD202-2580-Tap	13.9
	25.60-26.50	FCD202-2650-Tap	13.9
30"	***32.00	FCD202-3200-Tap	14.8
	31.74-32.74	FCD202-3274-Tap	14.8

<sup>\*</sup> Saddles for this pipe range are NOT available with 2" CC (CC7) or 2-1/2" IP (IP8) threads.

<sup>\*\*</sup> These saddles with 1-1/4" through 2-1/2" taps fit the top of the listed range only. Example: FCD202-480-CC7 fits 4.80" pipe O.D. only.

<sup>\*\*\*</sup> Sized for C905 PVC.

<sup>▲</sup> This saddle is only available with 2" CC (CC7) or 2-1/2" IP (IP8) threads. Imported castings available in 2" - 12". Add "-I" to the end of catalog number. See price book for details.

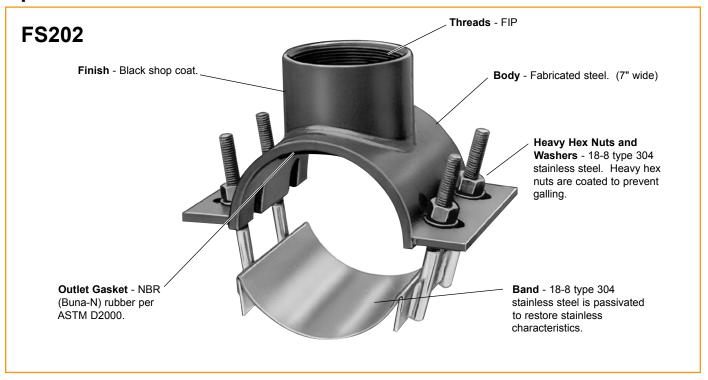
# Fabricated Steel Saddles Styles FS202 and F202

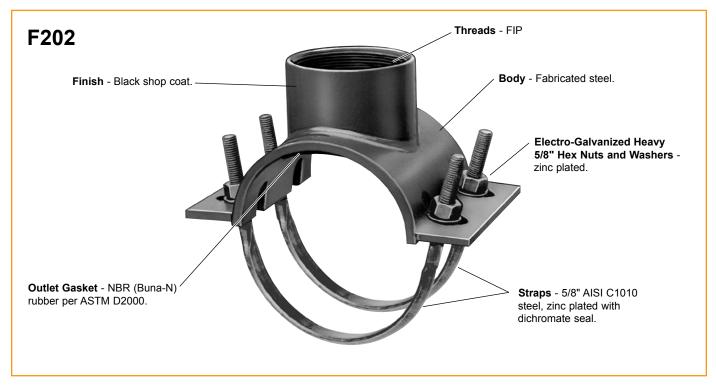
### For 3" and 4" Taps

Ford Fabricated Steel Saddles are specifically designed and manufactured for applications requiring a 3" and 4" iron pipe service tap. These products are available with an 18-8 type 304 stainless steel band or with zinc plated C1010 steel straps. Ford fabricated steel saddles have a 150 psi working pressure rating, dependent upon the use of industry standard support and backfill practices.

Ford recommends special fabricated FTS tapping sleeves for air release or vacuum valve applications above 150 psi. Contact Ford Meter Box customer service for more information.

## **Specifications**





# Fabricated Steel Saddles Styles FS202 and F202

For 3" and 4" Taps

Saddles recommended for PVC pipe require sizes formed specifically to the pipe O.D.

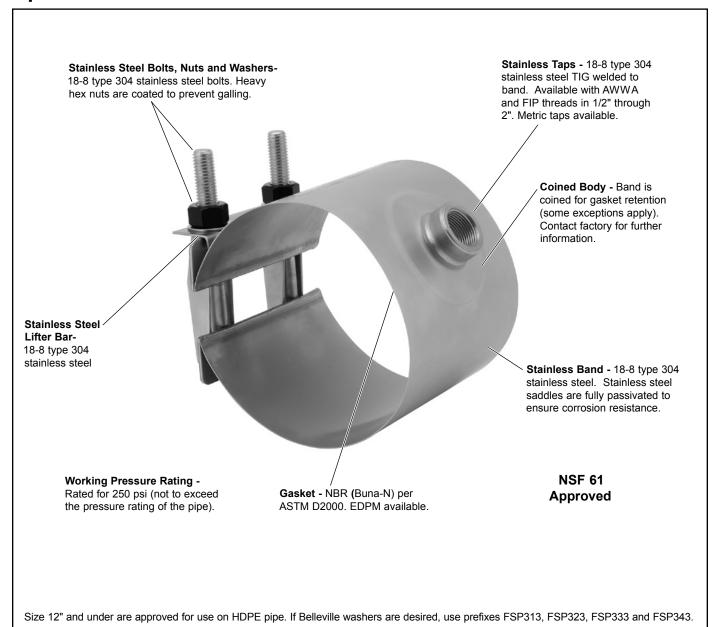
Nom. Pipe Size	ACTUAL PIPE	TAP Size	STEEL STRAPS CATALOG	STAINLESS BAND CATALOG	EPOXY COATED  CATALOG	APPROX. WT.
SIZE	<b>O.D.</b> 6.00	3"	Number F202-600-IP9	NUMBER FS202-600-IP9	Number FC202-600-IP9	LBS. 15.7
	6.00	4"	F202-600-IP11	FS202-600-IP11	FC202-600-IP11	16.1
6"	6.63	3"	F202-663-IP9	FS202-663-IP9	FC202-663-IP9	16.0
	6.63	4"	F202-663-IP11	FS202-663-IP11	FC202-663-IP11	16.3
	6.90	3"	F202-690-IP9	FS202-690-IP9	FC202-690-IP9	16.4
	6.90	4"	F202-690-IP11	FS202-690-IP11	FC202-690-IP11	16.7
	8.00	3"	F202-800-IP9	FS202-800-IP9	FC202-800-IP9	16.6
	8.00	4"	F202-800-IP11	FS202-800-IP11	FC202-800-IP11	17.0
	8.63	3"	F202-863-IP9	FS202-863-IP9	FC202-863-IP9	16.9
8"	8.63	4"	F202-863-IP11	FS202-863-IP11	FC202-863-IP11	17.3
	9.05	3"	F202-905-IP9	FS202-905-IP9	FC202-905-IP9	17.2
	9.05	4"	F202-905-IP11	FS202-905-IP11	FC202-905-IP11	17.5
	10.00	3"	F202-1000-IP9	FS202-1000-IP9	FC202-1000-IP9	18.0
	10.00	4"	F202-1000-IP11	FS202-1000-IP11	FC202-1000-IP11	19.1
	10.75	3"	F202-1000-II 11	FS202-1075-IP9	FC202-1075-IP9	18.4
10"	10.75	4"	F202-1075-IP11	FS202-1075-IP11	FC202-1075-IP11	19.5
	11.10	3"	F202-1110-IP9	FS202-1110-IP9	FC202-1110-IP9	18.8
	11.10	4"	F202-1110-IP11	FS202-1110-IP11	FC202-1110-IP11	19.7
	12.00	3"	F202-1200-IP9	FS202-1200-IP9	FC202-1200-IP9	20.0
	12.00	4"	F202-1200-IP11	FS202-1200-IP11	FC202-1200-IP11	21.0
	12.75	3"	F202-1275-IP9	FS202-1275-IP9	FC202-1275-IP9	20.5
12"	12.75	4"	F202-1275-IP11	FS202-1275-IP11	FC202-1275-IP11	21.1
	13.20	3"	F202-1320-IP9	FS202-1320-IP9	FC202-1320-IP9	20.8
	13.20	4"	F202-1320-IP11	FS202-1320-IP11	FC202-1320-IP11	22.1
	14.00	3"	N/A	FS202-1400-IP9	FC202-1400-IP9	22.0
	14.00	4"	N/A	FS202-1400-IP11	FC202-1400-IP11	23.0
14"	15.30	3"	N/A	FS202-1530-IP9	FC202-1530-IP9	22.6
	15.30	4"	N/A	FS202-1530-IP11	FC202-1530-IP11	23.4
	16.00	3"	N/A	FS202-1600-IP9	FC202-1600-IP9	23.5
	16.00	4"	N/A	FS202-1600-IP11	FC202-1600-IP11	23.9
	17.40	3"	N/A	FS202-1740-IP9	FC202-1740-IP9	23.7
16"	17.40	4"	N/A	FS202-1740-IP11	FC202-1740-IP11	24.6
	17.80	3"	N/A	FS202-1780-IP9	FC202-1780-IP9	23.8
	17.80	4"	N/A	FS202-1780-IP11	FC202-1780-IP11	24.1
	18.00	3"	N/A	FS202-1800-IP9	FC202-1800-IP9	24.0
	18.00	4"	N/A	FS202-1800-IP11	FC202-1800-IP11	24.4
18"	19.50	3"	N/A	FS202-1950-IP9	FC202-1950-IP9	24.5
	19.50	4"	N/A	FS202-1950-IP11	FC202-1950-IP11	24.9
	20.00	3"	N/A	FS202-2000-IP9	FC202-2000-IP9	24.9
	20.00	4"	N/A	FS202-2000-IP11	FC202-2000-IP11	25.4
20"	21.60	3"	N/A	FS202-2160-IP9	FC202-2160-IP9	25.0
	21.60	4"	N/A	FS202-2160-IP11	FC202-2160-IP11	25.8
	24.00	3"	N/A	FS202-2400-IP9	FC202-2400-IP9	25.9
	24.00	4"	N/A	FS202-2400-IP11	FC202-2400-IP11	26.3
24"	25.80	3"	N/A	FS202-2580-IP9	FC202-2580-IP9	27.0
	25.80	4"	N/A	FS202-2580-IP11	FC202-2580-IP11	27.5
	30.00	3"	N/A	FS202-3000-IP9	FC202-3000-IP9	28.3
	30.00	4"	N/A	FS202-3000-IP11	FC202-3000-IP11	28.7
30"	32.00	3"	N/A	FS202-3200-IP11	FC202-3200-IP11	29.9
	32.00	4"	N/A	FS202-3200-IP11	FC202-3200-IP11	30.4

# Ford Stainless Steel Saddles Style FS300

For 1/2" through 2" Taps

Ford Stainless Steel Saddles are designed for use where corrosive conditions exist. Designed for all pipe types, the stainless steel construction allows the saddle to conform, reducing stress on the pipe.

## **Specifications**



#### **OUTLET THREAD TAP CODE**

CC (AWWA) Thread			FIP Threa	ad	
	Thread	Code	Thread	Code	
	-	-	1/2" IP	IP1	
	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	

# Ford Stainless Steel Saddles Style FS300

For 1/2" through 2" Taps

Nom.	O.D. Buyes	CATALOG	Вост	Воцт	BAND	<b>W</b> IDTH	No. of	APPROX. WEIGHTS	
PIPE SIZE	O.D. RANGE	Number	Size	QUANTITY	1/2" - 1"	1-1/4" - 2"	Sections	1/2"- 1" Taps	1-1/4" - 2" Taps
			FS3	<b>313 SING</b>	<b>LE BAND</b>				
	2.13	♦*FS313-213-Tap	1/2"	1	4"	-	]		
	2.13	*FS313W-213-Tap	1/2"	2	6"	-	]		
2"	2.38	◆*FS313-238-Tap	1/2"	1	4"	-	1 1	1.9	_
_	2.38	*FS313W-238-Tap	1/2"	2	6"	-	] .		
	2.50 - 2.70	♦*FS313-270-Tap	1/2"	1	4"	-	]		
	2.50 - 2.70	*FS313W-270-Tap	1/2"	2	6"	-			
2-1/2"	2.88	◆*FS313-288-Tap	1/2"	2	4" 6"	-	1 1	1.9	-
	2.88	*FS313W-288-Tap	1/2"		 4"	-			
	3.46 - 3.70 3.50	◆*FS313-370-Tap ◆*FS313-350-Tap	1/2"	1	<u>4</u> 4"	-	-		
3"	3.50	*FS313W-350-Tap	1/2"	2	<del></del>	_	1 1	2.2	
J	3.90 - 4.10	◆*FS313-410-Tap	1/2"	1	4"		┤ ' │	2.2	-
	3.90 - 4.10	*FS313W-410-Tap	1/2"	2	6"		1 1		
	4.50 - 4.80	*FS313-480-Tap							
4"	4.80 - 5.20	*FS313-520-Tap	1/2"	2	6"	7-1/2"	1	3.3	3.9
5"	5.56	*FS313-556-Tap	5/8"	2	6"	7-1/2"	1	4.4	4.8
	6.00 - 6.40	*FS313-640-Tap	0/0			1 1/2		7.7	4.0
6"	6.40 - 6.80	*FS313-680-Tap	F/0"		6"	7 4/0"	4	4.7	F 4
О	6.63 - 6.90	*FS313-690-Tap	5/8"	2	0	7-1/2"	1	4.7	5.1
	6.80 - 7.20	*FS313-720-Tap							
	8.00 - 8.40	*FS313-840-Tap	ļ	2	6"	7-1/2"	1	5.2	5.8
8"	8.40 - 8.80	*FS313-880-Tap	5/8"						
-	8.63 - 9.05	*FS313-905-Tap		_	-				
	9.00 - 9.40	*FS313-940-Tap							
10"	10.00 - 10.40 10.75 - 11.10	*FS313-1040-Tap *FS313-1110-Tap	5/8"	2	6"	7-1/2"	1 1	5.8	8.7
10	11.10 - 11.50	*FS313-1150-Tap	3/6		Ü	7-1/2	'	5.0	0.7
	12.00 - 12.40	*FS313-1240-Tap							
12"	12.75 - 13.20	*FS313-1320-Tap	5/8"	2	6"	7-1/2"	1 1	6.4	9.3
	13.10 - 13.50	*FS313-1350-Tap							
			FS3		BLE BAND				
4"	4.74 - 5.54	*FS323-554-Tap	5/8"	4	6"	7-1/2"	2	5.2	5.7
6" 8"	6.40 - 7.20 8.40 - 9.20	*FS323-720-Tap *FS323-920-Tap	5/8" 5/8"	4	6" 6"	7-1/2" 7-1/2"	2 2	5.1 6.3	5.8 7.8
10"	10.70 - 11.50	*FS323-1150-Tap	5/8"	4	6"	7-1/2"	2	7.0	9.0
12"	12.70 - 13.50	*FS323-1350-Tap	5/8"	4	6"	7-1/2"	2	9.0	11.0
	14.00 - 14.80	FS323-1480-Tap			-		_		
14"	14.95 - 15.75	FS323-1575-Tap	5/8"	4	6"	7-1/2"	2	10.0	12.0
	15.60 - 16.40	FS323-1640-Tap							
40"	15.75 - 16.55	FS323-1655-Tap	F /O!!		011	7.4/01		40.5	40.5
16"	16.40 - 17.20 17.20 - 18.00	FS323-1720-Tap FS323-1800-Tap	5/8"	4	6"	7-1/2"	2	10.5	12.5
	17.60 - 18.40	FS323-1840-Tap							
	18.00 - 18.80	FS323-1880-Tap	-						
18"	18.40 - 19.20	FS323-1920-Tap	5/8"	4	6"	7-1/2"	2	10.5	12.5
	18.80 - 19.60	FS323-1960-Tap							
	19.20 - 20.00	FS323-2000-Tap							
	1 04 40 00 00		FS3	333 TRIP	LE BAND				
20"	21.40-22.60	FS333-2260-Tap	E/0"		6"	7 1/0"		14 5	17.0
20"	22.80-24.00 23.45-24.65	FS333-2400-Tap FS333-2465-Tap	5/8"	6	О	7-1/2"	3	14.5	17.0
	24.45-25.65	FS333-2565-Tap							
24"	25.50-26.70	FS333-2670-Tap	5/8"	6	6"	7-1/2"	3	15.5	17.5
	28.25-29.45	FS333-2945-Tap						13.3	17.0
	29.40-30.60	FS333-3060-Tap	ļ <u>.</u>					,_,	
30"	29.85-31.05	FS333-3105-Tap	5/8"	6	6"	7-1/2"	3	17.0	19.5
	30.85-32.05	FS333-3205-Tap	EC	242 0114	D BAND				
	35.80-37.00	FS343-3700-Tap							
36"	37.50-38.70		5/8"	8	6"	7-1/2"	4	21.0	24.0
	, 57.00 00.70								<u> </u>

<sup>\*</sup> Approved for use on HDPE pipe. If Belleville washers are desired, use prefixes FSP313, FSP323, FSP333 and FSP343.

Note: Coined outlet not available on 2" and 3" saddles.

<sup>♦</sup> One-bolt design

## Ford Repair Saddles

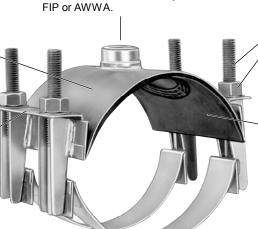
## Style FRS202 Double Band

## **Specifications**

**Body** - 7-1/2" wide, 18-8 type 304 stainless steel for corrosion control. All welds are fully passivated to restore stainless steel characteristics.

**Lifter Bar** - 18-8 type 304 / stainless steel provides a heavy bearing surface for nuts.

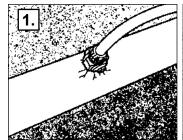
Outlet - 18-8 type 304 stainless steel available in 3/4" through 2"



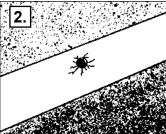
Bolts and Nuts - 18-8 type 304 stainless steel 5/8" UNC threads. Heavy hex nuts are coated to prevent galling.

**Gasket** - Tapered NBR (Buna-N) with circular grid as per ASTM D2000.

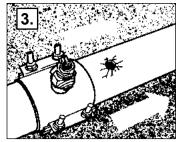
**Pressure Rating** - The Ford FRS stainless steel repair saddle is rated for 150 psi working water pressure.



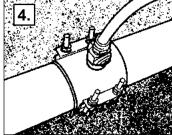
Confirm the leak location by cleaning and examining pipe.



Shut off the water supply and remove the corporation stop from



Install the corporation stop into the saddle and position loosely on the pipe next to the hole.



Center the saddle over the damaged pipe hole and tighten the saddle onto the pipe.

#### Style FRS202 Double Band Repair Saddles

**To Order**: Add tap code number to catalog number. For example: A repair saddle for use on 9.05 iron pipe with a 2" CC tap would be FRS202-979-CC7.

Nom.	O.D.	CATALOG	Approx.	BA	ND
PIPE SIZE	RANGE	Number	WT. LBS.	QUANTITY	<b>W</b> IDTH
4"	4.75-5.35	FRS202-535-Tap	7.5	2	2"
6"	6.85-7.60	FRS202-760-Tap	8.0	2	2"
8"	9.00-9.79	FRS202-979-Tap	8.8	2	2"
10"	11.00-11.80	FRS202-1180-Tap	11.0	2	2"
10	11.50-12.25	FRS202-1225-Tap	12.3	2	2"
12"	13.10-13.90	FRS202-1390-Tap	13.9	2	2"
12	13.60-14.40	FRS202-1440-Tap	14.5	2	2"
14"	15.20-16.00	FRS202-1600-Tap	_	2	2"
16"	17.20-18.00	FRS202-1800-Tap	_	2	2"
18"	19.20-20.00	FRS202-2000-Tap	_	1	7"
20"	21.40-22.20	FRS202-2220-Tap	_	1	7"
24"	23.20-24.00	FRS202-2400-Tap	_	1	7"
24"	25.60-26.40	FRS202-2640-Tap	_	1	7"

#### **OUTLET THREAD TAP CODE**

CC (AWW	A) THREAD	FIP THREAD		
THREAD	CODE	THREAD	CODE	
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	

<sup>\*</sup>Contact factory for availability

## **Ford Sewer Saddle**

## **Style FSS Sewer Saddle**

The Ford Sewer Saddle provides a secure and reliable method to connect to a sewer main. A fully passivated stainless steel strap paired with an e-coated ductile iron outlet body allows the sewer saddle to perform under some of the harshest conditions.

## **Specifications**



CATALOG Number	RANGE	Nominal Branch Size	BRANCH PIPE RANGE	APPROX. WT. LBS.
FSS-1440-4	6.27" - 14.40"			10.3
FSS-2580-4	14.40" - 25.80"	4"	4.20" - 4.80"	11.5
FSS-5080-4	25.80" - 50.80"			13.1
FSS-1440-6	8.00" - 14.40"			12.1
FSS-2580-6	14.40" - 25.80"	6"	6.27" - 6.66"	13.2
FSS-5080-6	25.80" - 50.80"			15.3

### **FSS Sewer Saddle Components**

NOMINAL BRANCH	SADDLE OPTIONS	GASKET OPTIONS				
SIZE	CATALOG NUMBER	CATALOG NUMBER	RANGE			
		FSS-GASKET-4-S	6.27" - 14.40"			
4"	FSS-SADDLE-4	FSS-GASKET-4-M	14.40" – 25.80"			
		FSS-GASKET-4-L	25.80" - 50.80"			
6"	FSS-SADDLE-6	FSS-GASKET-6-S	8.00" - 14.40"			
O	FSS-SADDLE-0	FSS-GASKET-6-L	14.40" – 50.80"			

Nominal Branch	STAINLESS STEE	ADJUSTABLE SLIDE	
Size	CATALOG NUMBER	Range	CATALOG NUMBER
	FSS-BAND-1440	6.27" - 14.40"	
4" or 6"	FSS-BAND-2580	14.40" - 25.80"	FSS-SLIDE
	FSS-BAND-5080	25.80" - 50.80"	

## O.D. Chart

<u>U.i</u>	<b>J.</b> GI										
PIPE	PVC/HDPE			ILE / CAST	IRON		ASBESTOS-C	1	STI	EL	COPPER
SIZE	(STEEL SIZE)			ASSES	O.D.	CLASS	MACHINED END	ROUGH BARREL O.D.	TYPE	O.D.	O.D.
1/2"	O.D. .84	O.D.	Ріт	Spun			O.D.	MIN - MAX	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								STD.	1.90	1.625
2"	2.38				2.50				STD.	2.38	2.125
2-1/2"	2.88					100		1.00	STD.	2.88	2.625
3"	2.50		A	50 250	3.80	100	3.74	4.00	O.D.	3.00	2.425
3	3.50		B, C, D	50 - 350	3.96	150 200	3.84 3.84	4.10 4.29	STD.	3.50	3.125
3-1/2"						200	3.04	4.23	STD.	4.00	3.625
J-1/2			Α	50 - 350	4.80	100	4.64	4.79 - 5.14	O.D.	4.00	3.023
4"	4.50	4.80	B, C, D	00 000	5.00	150	4.81	4.97 - 5.27			4.125
						200	4.81	5.22 - 5.57	STD.	4.50	
4-1/2"									STD.	5.00	
5"									STD.	5.56	5.125
0"	0.00	0.00	A	50 - 350	6.90	100	6.91	7.05 - 7.40	O.D.	6.00	0.405
6"	6.63	6.90	B, C, D,		7.10 7.22	150 200	6.91 6.91	7.07 - 7.37 7.26 - 7.56	STD.	6.63	6.125
7"			E, F		1.22	200	0.91	1.20 - 1.30	STD.	7.63	
-			A, B,	50 - 300	9.05	100	9.11	9.22 - 9.57			
8"	8.63	9.05	C, D,	350	9.30	150	9.11	9.27 - 9.57	O.D.	8.00	
			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	11.10	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	
40"	40.75	40.00	A, B,	50 - 200	13.20	100	13.44	13.69 - 14.04	O.D.	12.00	
12"	12.75	13.20	<u>C, D,</u>	250 - 350	13.50	150	13.92	14.08 - 14.38	STD.	12.75	
			E, F A, B,	50 - 100	13.76 15.30	200 100	13.92 15.07	14.03 - 14.38 15.40 - 15.80	010.	12.70	
14"	14.00	15.30	C, D,	150 - 300	15.65	150	16.22	16.38 - 16.73	STD.	14.00	
14	14.00	15.50	E, F	130 - 300	15.98	200	16.22	16.48 - 16.88	OID.	14.00	
			A, B,	50 - 100	17.40	100	17.14	17.54 - 17.94			
16"	16.00	17.40	C, D,	150 - 300	17.80	150	18.46	18.62 - 18.97	STD.	16.00	
			E, F	100 000	18.16	200	18.46	18.79 - 19.19	0.5.		
			A, B	50 - 100	19.50	100	19.90	20.44			
18"	18.00	19.50	C, D	150 - 250	19.92	150	20.94	21.20	STD.	18.00	
						200	22.18				
			A, B,	50 - 100	21.60	100	22.12	22.50			
20"	20.00	21.60	C, D	150 - 250	22.06	150	23.28	23.54	STD.	20.00	
00"						200	24.66		OTD	00.00	
22"			A D	50 - 100	25.00	100	26.40	27.47	STD.	22.00	
24"	24.00	25.80	A, B, C, D	150 - 100	25.80 26.32	150	26.48 27.96	27.17 28.22	STD.	24.00	
24	24.00	25.60	C, D	150 - 250	20.32	200	29.62	20.22	SID.	24.00	
			Α		31.74	200	29.02				
			В	50 - 350	32.00						
30"	30.00	32.00	C	00 000	32.40				STD.	30.00	
			D		32.74						
			Α		37.96						
36"	36.00	38.30	В	50 - 350	38.30				STD.	36.00	
30	30.00	30.30	C		38.70				OID.	30.00	
			D		39.16						
			A	50 250	44.20	-					
42"		44.50	B C	50 - 350	44.50	-			STD.	42.00	
			D		45.10 45.58	-					
			A		50.50						
			В	50 - 350	50.80	1					
48"		50.80	C	55 555	51.40	1			STD.	48.00	
			D		51.98						
			Α		56.66						
			В		57.10						
54"				50 - 350	57.56				STD.	54.00	
			C		57.80						
			D	50 050	58.40						
			^	50 - 350	61.61	-					
60"			A		62.80	-			OTD.	60.00	
60			B C		63.40 64.20	1			STD.	60.00	
			D		64.82	1					
			_					sions listed above a			

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

# Section AA

# Ford Service Saddles and Tapping Sleeves

## Warranty

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

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

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