



Section **AA**

02/2015

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Ford Service Saddles and Tapping Sleeves



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| † Tapping Sleeve Specifications | 6, 8, 10, 12 | | | | | |
| FAST | 7 | YES | YES | YES | YES | YES |
| FTSS | 9 | YES | YES | YES | YES | YES |
| FTSAS | 11 | YES | YES | YES | YES | YES |
| FTS | 13 | YES | YES | YES | YES | YES |
| FTSC | 13 | YES | YES | YES | YES | YES |
| Brass Saddle Specifications | 14, 16, 18, 20 & 22 | | | | | |
| S40, S41 (For Type K Copper Tubing) | 15 | | | | | |
| S70, S71 | 17 | YES | NO | NO | NO | NO |
| S90, S91 | 19 | NO | YES | NO | NO | NO |
| S902, S912 | 19 | NO | YES | NO | NO | NO |
| 101B, 202B | 21 | NO | NO | YES | YES | YES |
| 101BS, 202BS | 23 | *YES | *YES | YES | YES | YES |
| 202BSD | 24 | *YES | *YES | YES | YES | YES |
| Iron Saddle Specifications | 25 | | | | | |
| F101, F202 | 26 & 27 | NO | NO | YES | YES | YES |
| FS101, FS202, FSD202 | 26 - 29 | *YES | *YES | YES | YES | YES |
| FC101, FC202, FCD202 | 26 - 29 | *YES | *YES | YES | YES | YES |
| Fabricated Steel Saddle Specifications | 30 | | | | | |
| F202 | 31 | NO | NO | YES | YES | YES |
| FS202 | 31 | *YES | *YES | YES | YES | YES |
| Stainless Steel Saddle Specifications | 32 | | | | | |
| FS300 Series | 33 | YES | YES | YES | YES | YES |
| Repair Saddles | | | | | | |
| FRS202 | 34 | NO | YES | YES | YES | YES |
| Sewer Saddle FSS | 35 | | | | | |
| O.D. Chart | 36 | | | | | |
| Warranty | 40 | | | | | |
| † See catalog section N for style FWS steel weld-on tapping sleeves. | | * All 101BS, 202BS, FS101, FC101, FS202, FC202, FSD202 and FCD202 Saddles recommended for C900 or steel size PVC require sizes specific to the pipe O.D. 101B, 202B, F101 and F202 Saddles are not for use on PVC pipe and do not comply with AWWA and Uni-Bell stipulations for use on PVC pipe. | | | | |

Ford offers many products that are Classified by Underwriters Laboratories Inc. to ANSI/NSF Standard 61. To verify if a product is Classified by Underwriters Laboratories Inc. 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 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.

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.
Please verify actual
pipe O.D. is within listed
catalog range.

TYPE OF TAP
CC = AWWA tapered thread
IP = Iron pipe thread

F S 2 0 2 - 6 9 0 - C C 3

TYPE OF SADDLE

SIZE OUTLET THREAD

101B = Brass saddle with a single silicon bronze strap
101BS = Brass saddle with a single stainless steel band
202B = Brass saddle with two silicon bronze straps
202BS = Brass saddle with a double wide stainless steel band
202BSD = Brass saddle with dual stainless steel band
***F101** = Iron saddle with a single strap
FS101 = Iron saddle with a single stainless steel band
FC101 = Iron saddle with a single stainless steel band & epoxy coated body
***F202** = Iron saddle with two steel straps (*for 3" & 4" taps, saddle body is fabricated steel*)
FS202 = Iron saddle with a double wide stainless steel band (*for 3" & 4" taps, saddle body is fabricated steel*)
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
FSD202 = Iron saddle with a dual stainless steel bands and bolts
FCD202 = Iron saddle with a dual stainless steel bands and bolts, epoxy coated body

1 = 1/2"
 3 = 3/4"
 4 = 1"
 6 = 1-1/2"
 7 = 2"
 8 = 2-1/2"
 9 = 3"
 11 = 4"

* F101/F202 Saddles available with epoxy coating and stainless straps, contact factory for availability.

Ford All Brass Saddle for PVC Pipe Numbering System

TYPE OF SADDLE
S = Brass saddle

TYPE OUTLET THREAD
0 = Tapped AWWA
1 = Tapped iron pipe

S 7 0 - 2 0 3

TYPE OF MAIN TO BE TAPPED
7 = PVC Main - steel O.D.
9 = PVC Main - cast iron O.D.

SIZE PVC MAIN
20 = 2"
25 = 2-1/2"
30 = 3"
40 = 4"
50 = 5"
60 = 6"
80 = 8"
100 = 10"
120 = 12"

SIZE OUTLET THREAD
1 = 1/2"
3 = 3/4"
4 = 1"
5 = 1-1/4"
6 = 1-1/2"
7 = 2"

Note: S902 and S912 styles are 4", 6" and 8" two-piece bolted saddles. These saddles follow the same numbering system except the "2" distinguishes these saddles from the hinged saddles of the same size.

Ford Tapping Sleeve Numbering System

TYPE OF TAPPING SLEEVE

- FAST** = All stainless steel tapping sleeve
FTSS = All stainless steel tapping sleeve with removable bolts
FTSAS = All stainless steel tapping sleeve with removable bolts designed for large taps with thicker outlet pipe, saddle and strap plates.
FTS = Standard steel tapping sleeve
FTSC = Epoxy coated steel tapping sleeve with stainless steel bolts

OPTIONS

- A** = Optional carbon steel flange on FAST, FTSS and FTSAS
A-E = Epoxy coated carbon steel flange on FAST, FTSS and FTSAS

FAST - 970 - 4A - MJ

SIZE OF O.D.

High end of application
O.D. range.
Please verify actual
pipe O.D. is within listed
catalog range.

OUTLET SIZE

CODE

- 3 = 3"
4 = 4"
6 = 6"
8 = 8"
10 = 10"
12 = 12"
*14 = 14"
*16 = 16"
*18 = 18"
*20 = 20"
*24 = 24"

* Not available on FAST

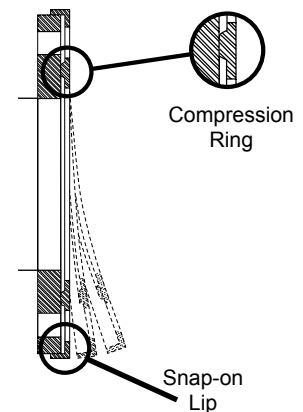
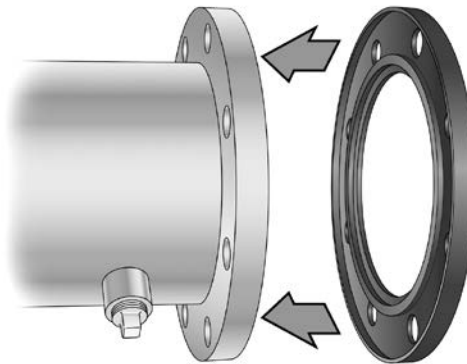
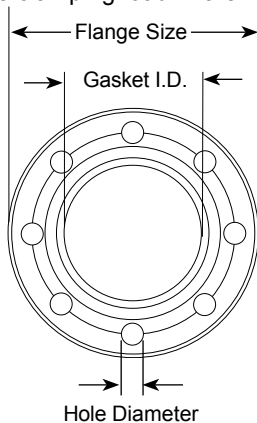
OPTIONS

- MJ** = Mechanical Joint Adapter Outlet (instead of C207 flange outlet)
-AH = Optional high strength low alloy steel nuts and bolts on removable bolt tapping sleeves
-EPDM = EPDM gasket
-SH = Optional stainless steel nuts and bolts on FTS
-FG = Optional Ultra-Seal Cap Style Flange Gasket (standard on all 10" & 12" size flanges for FAST and FTSS Tapping Sleeves)

Ford Ultra-Seal Cap Style Flange Gasket

4" Through 12" Nominal Ring Flange Sizes

The Ultra-Seal Cap Style Flange Gasket, **CSFG**, made from 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. | PACKAGE QTY. |
|----------------|-----------------------------|------------------------|---------------|-------------|--------------|
| 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 | - |

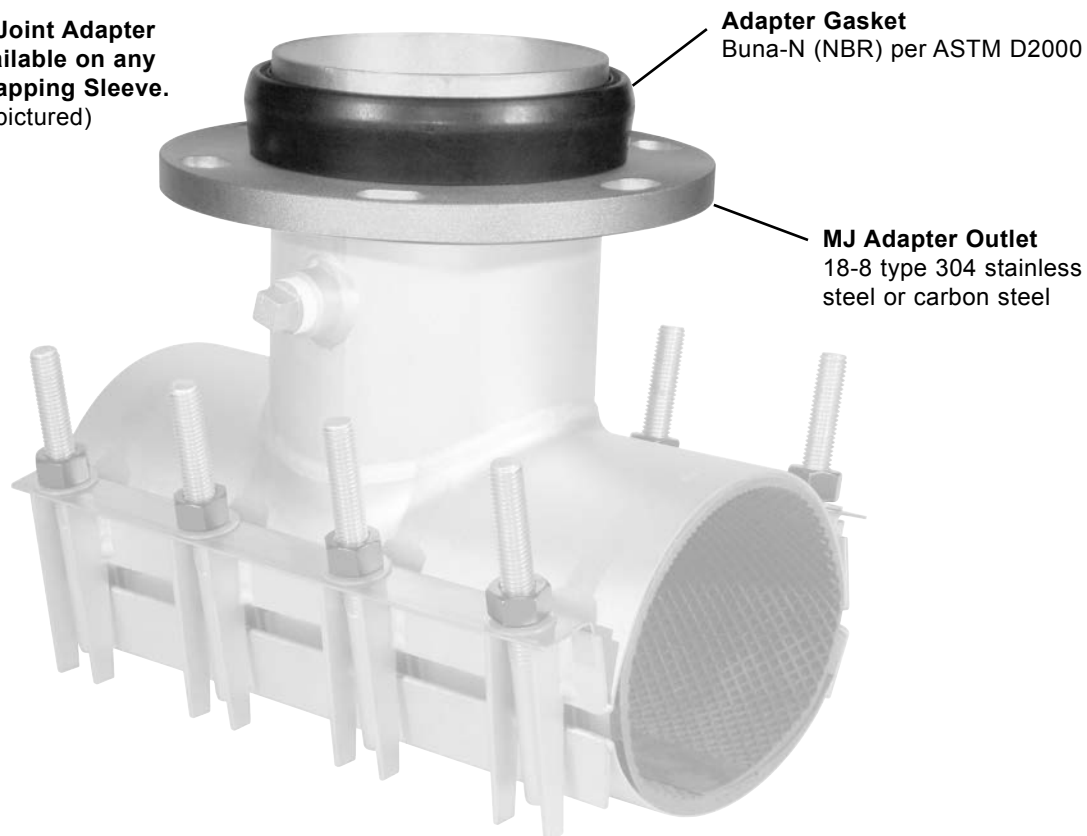
Add "-FG" to end of tapping sleeve catalog number for Ultra-Seal Cap Style Gasket to be sent with tapping sleeve. Example: FAST-905-4-FG. Please note, this gasket comes standard on all 10" and 12" flanges for FAST and FTSS tapping sleeves.

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.

Mechanical Joint Adapter Outlet is available on any style Ford Tapping Sleeve.
(Style FAST pictured)



Adapter Gasket
Buna-N (NBR) per ASTM D2000

MJ Adapter Outlet
18-8 type 304 stainless steel or carbon steel

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.

Ford Stainless Steel Tapping Sleeve

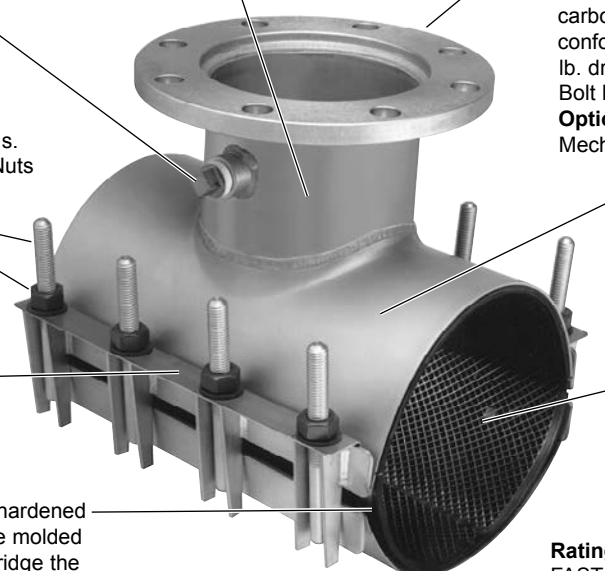
Style FAST Stainless Steel Tapping Sleeve with 360° Gasket

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.

Specifications



Test Plug
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.

Outlet
18-8 type 304 stainless steel Schedule 10 for 3" and 4" outlets. Schedule 5 for all outlets larger than 4".

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

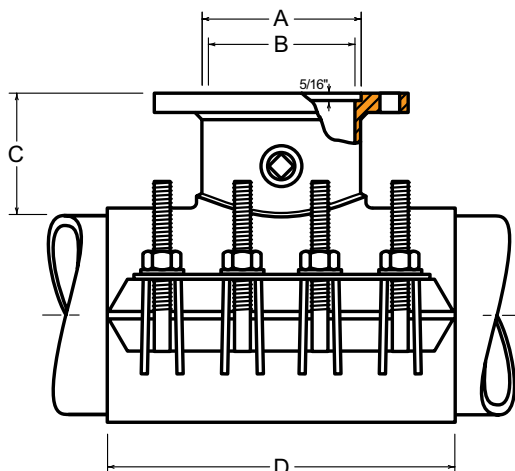
Body
18-8 type 304 stainless steel for corrosion control. Fully chemically passivated to ensure corrosion resistance.

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

Rating:
FAST sleeve is rated for 250 psi working pressure on 3"-12" pipe size

ANSI/NSF Standard 61
see page AA-2

FAST Dimensions



| Nom. Pipe Size | Flange Size Code | Nominal Dimensions - Inches | | | | Stud Size | No. of Studs | Design Style |
|----------------|------------------|-----------------------------|----------|--------|----|-----------|--------------|--------------|
| | | A | B | C | D | | | |
| 3" | 3 | 4-1/64 | 3-1/4 | 5-3/16 | 15 | 5/8 | 8 | 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 |
| | 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 | 3/4 | 14 | 2 pc |
| | 12 | 13-1/64 | 12-27/64 | 6-1/4 | 24 | 3/4 | 14 | 2 pc |
| 14" | 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 |
| | 6 | 7-1/64 | 6-13/32 | 5-1/2 | 16 | 5/8 | 10 | 2 pc |
| | 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 | 3/4 | 12 | 2 pc |
| 16" - 18" | 12 | 13-1/64 | 12-27/64 | 6-1/4 | 24 | 3/4 | 14 | 2 pc |
| | 3 | 4-1/64 | 3-1/4 | 5-3/16 | 16 | 5/8 | 15 | 3 pc |
| | 4 | 5-1/64 | 4-1/4 | 5-3/16 | 16 | 5/8 | 15 | 3 pc |
| | 6 | 7-1/64 | 6-13/32 | 5-1/2 | 16 | 5/8 | 15 | 3 pc |
| | 8 | 9-1/64 | 8-13/32 | 5-5/8 | 20 | 5/8 | 18 | 3 pc |
| 20" - 24" | 10 | 11-1/64 | 10-31/64 | 6-1/8 | 20 | 3/4 | 18 | 3 pc |
| | 12 | 13-1/64 | 12-27/64 | 6-1/4 | 24 | 3/4 | 21 | 3 pc |
| | 3 | 4-1/64 | 3-1/4 | 5-3/16 | 16 | 5/8 | 15 | 3 pc |
| | 4 | 5-1/64 | 4-1/4 | 5-3/16 | 16 | 5/8 | 15 | 3 pc |
| | 6 | 7-1/64 | 6-13/32 | 5-1/2 | 16 | 5/8 | 15 | 3 pc |
| 20" - 24" | 8 | 9-1/64 | 8-13/32 | 5-5/8 | 20 | 5/8 | 18 | 3 pc |
| | 10 | 11-1/64 | 10-31/64 | 6-1/8 | 20 | 3/4 | 18 | 3 pc |
| | 12 | 13-1/64 | 12-27/64 | 6-1/4 | 24 | 3/4 | 21 | 3 pc |

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

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

Ford Stainless Steel Tapping Sleeve

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 | by | 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- | | 3 | 3A | -MJ | 26 |
| 4" | 4.50-4.80 | FAST-480- | | 3 | 3A | -MJ | 28 |
| | 4.80-5.10 | FAST-510- | | 4 | 4A | | 29 |
| | 5.05-5.30 | FAST-530- | | 3 | 3A | -MJ | 33 |
| 6" | 6.60-7.00 | FAST-700- | | 4 | 4A | | 34 |
| | 6.90-7.30 | FAST-730- | | 6 | 6A | | 38 |
| | 7.10-7.50 | FAST-750- | | 3 | 3A | -MJ | 38 |
| 8" | 8.63-9.05 | FAST-905- | | 4 | 4A | | 39 |
| | 9.05-9.45 | FAST-945- | | 6 | 6A | | 42 |
| | 9.30-9.70 | FAST-970- | | 8 | 8A | | 58 |
| 10" | 10.75-11.15 | FAST-1115- | | 3 | 3A | -MJ | 40 |
| | 11.05-11.45 | FAST-1145- | | 4 | 4A | | 41 |
| | 11.75-12.15 | FAST-1215- | | 6 | 6A | | 45 |
| | | | | 8 | 8A | | 65 |
| | | | | 10 | 10A | | 85 |
| 12" | 12.75-13.20 | FAST-1320- | | 3 | 3A | -MJ | 43 |
| | 13.10-13.50 | FAST-1350- | | 4 | 4A | | 44 |
| | 14.00-14.40 | FAST-1440- | | 6 | 6A | | 48 |
| | | | | 8 | 8A | | 68 |
| | | | | 10 | 10A | | 88 |
| | | | | 12 | 12A | | 116 |
| 14" | 15.30-15.70 | FAST-1570- | | 3 | 3A | -MJ | 65 |
| | 15.80-16.20 | FAST-1620- | | 4 | 4A | | 66 |
| | 16.48-16.88 | FAST-1688- | | 6 | 6A | | 71 |
| | | | | 8 | 8A | | 88 |
| | | | | 10 | 10A | | 96 |
| | | | | 12 | 12A | | 125 |
| 16" | 17.40-17.80 | FAST-1780- | | 3 | 3A | -MJ | 74 |
| | 17.75-18.15 | FAST-1815- | | 4 | 4A | | 75 |
| | 18.60-19.00 | FAST-1900- | | 6 | 6A | | 78 |
| | | | | 8 | 8A | | 100 |
| | | | | 10 | 10A | | 114 |
| | | | | 12 | 12A | | 146 |
| 18" | 19.50-19.92 | FAST-1992- | | 3 | 3A | -MJ | 80 |
| | 19.80-20.20 | FAST-2020- | | 4 | 4A | | 81 |
| | | | | 6 | 6A | | 86 |
| | | | | 8 | 8A | | 106 |
| | | | | 10 | 10A | | 119 |
| | | | | 12 | 12A | | 153 |
| 20" | 20.20-20.60 | FAST-2060- | | 3 | 3A | -MJ | 86 |
| | 21.20-21.60 | FAST-2160- | | 4 | 4A | | 87 |
| | 21.86-22.26 | FAST-2226- | | 6 | 6A | | 92 |
| | | | | 8 | 8A | | 114 |
| | | | | 10 | 10A | | 124 |
| | | | | 12 | 12A | | 159 |
| 24" | 23.80-24.20 | FAST-2420- | | 3 | 3A | -MJ | 98 |
| | 25.60-26.00 | FAST-2600- | | 4 | 4A | | 99 |
| | | | | 6 | 6A | | 103 |
| | | | | 8 | 8A | | 127 |
| | | | | 10 | 10A | | 135 |
| | | | | 12 | 12A | | 171 |

For use on HDPE pipe, use prefix FASTP.

* Add "-E" for epoxy coated carbon steel flange.

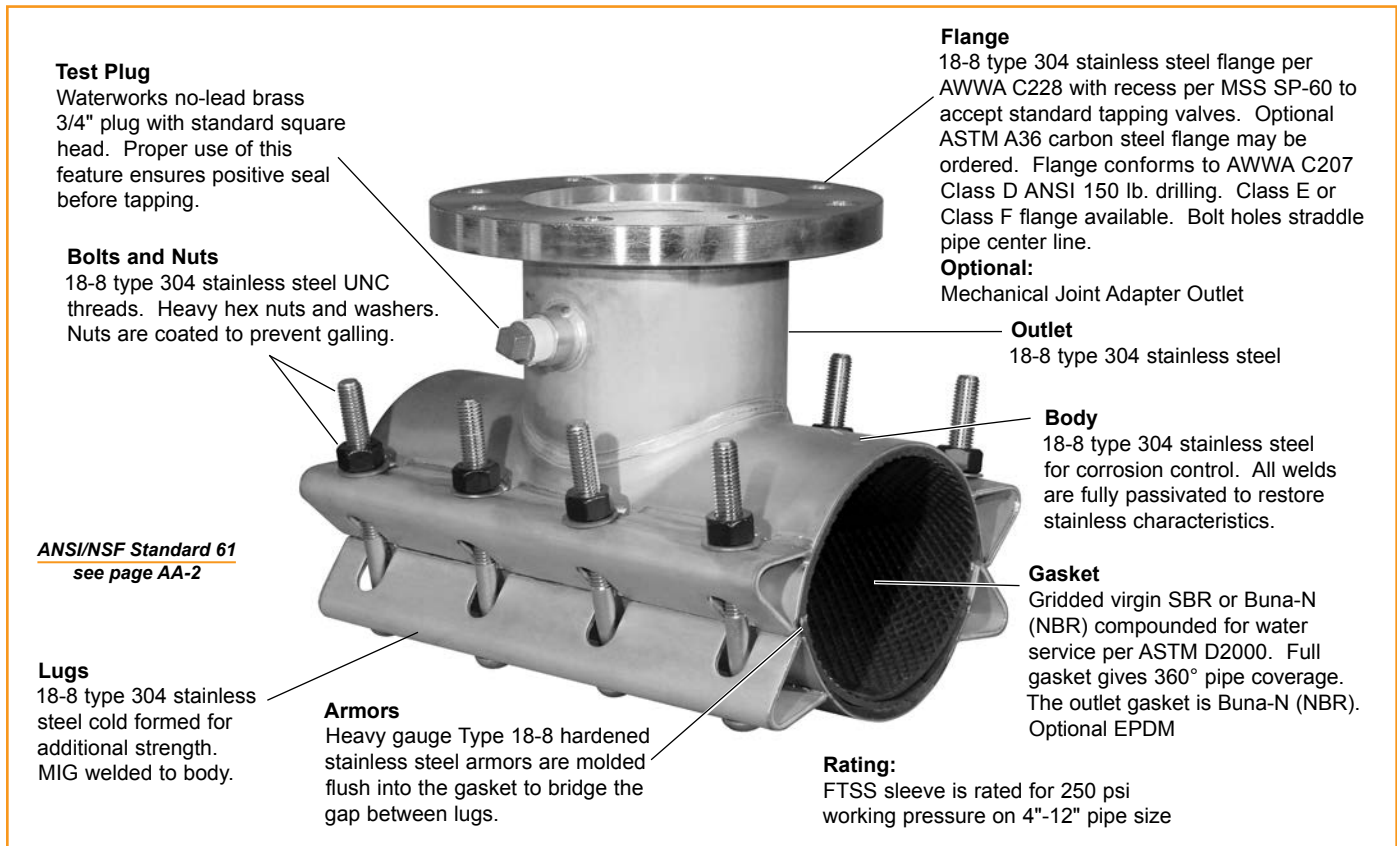
Ford Stainless Steel Tapping Sleeve

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

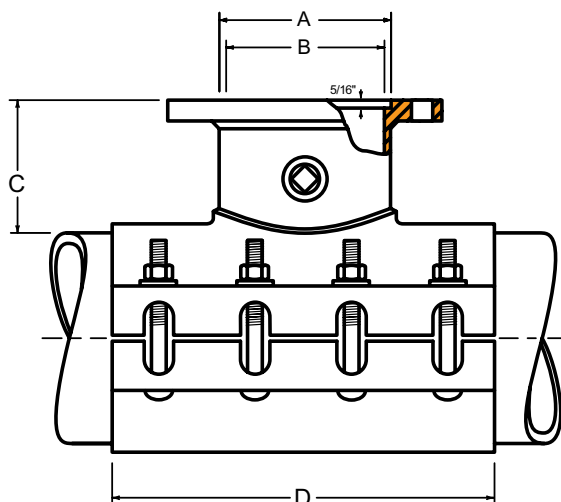
Ford FTSS Tapping Sleeves have a heavy gauge stainless steel body with removable bolts. A gridded gasket surrounds the pipe and not only cushions the pipe during the tap, but also helps prevent pipe breaks. The flange outlet is welded inside and out. FTSS Tapping Sleeves are chemically passivated to 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. Pipe Size | Flange Size Code | Nominal Dimensions - Inches | | | | Bolt Size | No. of Bolts |
|----------------|------------------|-----------------------------|----------|--------|----|-----------|--------------|
| | | A | B | C | D | | |
| 4" - 12" | 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 |
| | 6 | 7-1/64 | 6-13/32 | 5-1/2 | 15 | 5/8 | 8 |
| | 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 |
| 14" - 16" | 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 |
| | 6 | 7-1/64 | 6-13/32 | 5-1/2 | 16 | 3/4 | 10 |
| | 8 | 9-1/64 | 8-13/32 | 5-5/8 | 20 | 3/4 | 12 |
| 18" - 24" | 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 |
| | 6 | 7-1/64 | 6-13/32 | 5-1/2 | 16 | 3/4 | 10 |
| | 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 Options: *Class E or Class F flange available, contact factory.

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

| 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. |
|---|-------------------|---------------|----|----------------------------------|-----------------------------------|----------------------------------|------------------|
| 4" | 4.50-4.80 | FTSS-480- | | 3 | 3A | -MJ | 37 |
| | 4.80-5.00 | FTSS-500- | | 4 | 4A | | 38 |
| 6" | 5.10-5.30 | FTSS-530- | | 3 | 3A | -MJ | 41 |
| | 5.20-5.40 | FTSS-540- | | 4 | 4A | | 42 |
| 8" | 6.63-7.00 | FTSS-700- | | 6 | 6A | -MJ | 47 |
| | 6.90-7.30 | FTSS-730- | | 3 | 3A | | 41 |
| 10" | 7.30-7.50 | FTSS-750- | | 4 | 4A | -MJ | 42 |
| | 8.63-9.05 | FTSS-905- | | 6 | 6A | | 49 |
| 12" | 9.05-9.30 | FTSS-930- | | 8 | 8A | -MJ | 75 |
| | 9.30-9.60 | FTSS-960- | | 3 | 3A | | 46 |
| 14" | 9.45-9.75 | FTSS-975- | | 4 | 4A | -MJ | 47 |
| | 10.75-11.10 | FTSS-1110- | | 6 | 6A | | 53 |
| 16" | 11.10-11.40 | FTSS-1140- | | 8 | 8A | -MJ | 79 |
| | 11.40-11.70 | FTSS-1170- | | 10 | 10A | | 99 |
| 18" | 11.85-12.15 | FTSS-1215- | | 3 | 3A | -MJ | 49 |
| | 12.75-13.20 | FTSS-1320- | | 4 | 4A | | 50 |
| 20" | 13.20-13.50 | FTSS-1350- | | 6 | 6A | -MJ | 55 |
| | 13.50-13.80 | FTSS-1380- | | 8 | 8A | | 86 |
| 22" | 14.10-14.40 | FTSS-1440- | | 10 | 10A | -MJ | 104 |
| | 15.30-15.70 | FTSS-1570- | | 12 | 12A | | 138 |
| 24" | 15.80-16.20 | FTSS-1620- | | 3 | 3A | -MJ | 74 |
| | 16.48-16.88 | FTSS-1688- | | 4 | 4A | | 75 |
| 26" | | | | 6 | 6A | -MJ | 82 |
| | | | | 8 | 8A | | 102 |
| 28" | | | | 10 | 10A | -MJ | 110 |
| | | | | 12 | 12A | | 146 |
| 30" | | | | 14 | 14A | -MJ | 160 |
| | | | | 3 | 3A | | 77 |
| 32" | | | | 4 | 4A | -MJ | 78 |
| | | | | 6 | 6A | | 84 |
| 34" | | | | 8 | 8A | -MJ | 104 |
| | | | | 10 | 10A | | 114 |
| 36" | | | | 12 | 12A | -MJ | 150 |
| | | | | 14 | 14A | | 188 |
| 38" | | | | 16 | 16A | -MJ | 195 |
| | | | | 3 | 3A | | 83 |
| 40" | | | | 4 | 4A | -MJ | 84 |
| | | | | 6 | 6A | | 90 |
| 42" | | | | 8 | 8A | -MJ | 112 |
| | | | | 10 | 10A | | 120 |
| 44" | | | | 12 | 12A | -MJ | 160 |
| | | | | 14 | 14A | | 190 |
| 46" | | | | 16 | 16A | -MJ | 200 |
| | | | | 18 | 18A | | 210 |
| 48" | | | | 3 | 3A | -MJ | 85 |
| | | | | 4 | 4A | | 86 |
| 50" | | | | 6 | 6A | -MJ | 92 |
| | | | | 8 | 8A | | 114 |
| 52" | | | | 10 | 10A | -MJ | 123 |
| | | | | 12 | 12A | | 162 |
| 54" | | | | 14 | 14A | -MJ | 195 |
| | | | | 16 | 16A | | 205 |
| 56" | | | | 18 | 18A | -MJ | 215 |
| | | | | 20 | 20A | | 222 |
| 58" | | | | 3 | 3A | -MJ | 96 |
| | | | | 4 | 4A | | 97 |
| 60" | | | | 6 | 6A | -MJ | 103 |
| | | | | 8 | 8A | | 127 |
| 62" | | | | 10 | 10A | -MJ | 136 |
| | | | | 12 | 12A | | 178 |
| 64" | | | | 14 | 14A | -MJ | 199 |
| | | | | 16 | 16A | | 210 |
| 66" | | | | 18 | 18A | -MJ | 224 |
| | | | | 20 | 20A | | 230 |
| 68" | | | | 24 | 24A | -MJ | 256 |
| | | | | | | | |
| Contact factory for information, please indicate which tapping valve is being used. | | | | | | | |

Note: Use 1" undersize cutter for flanges 14" and larger.

** Size-on-size not available.

For use on HDPE pipe, use prefix FTSSP.

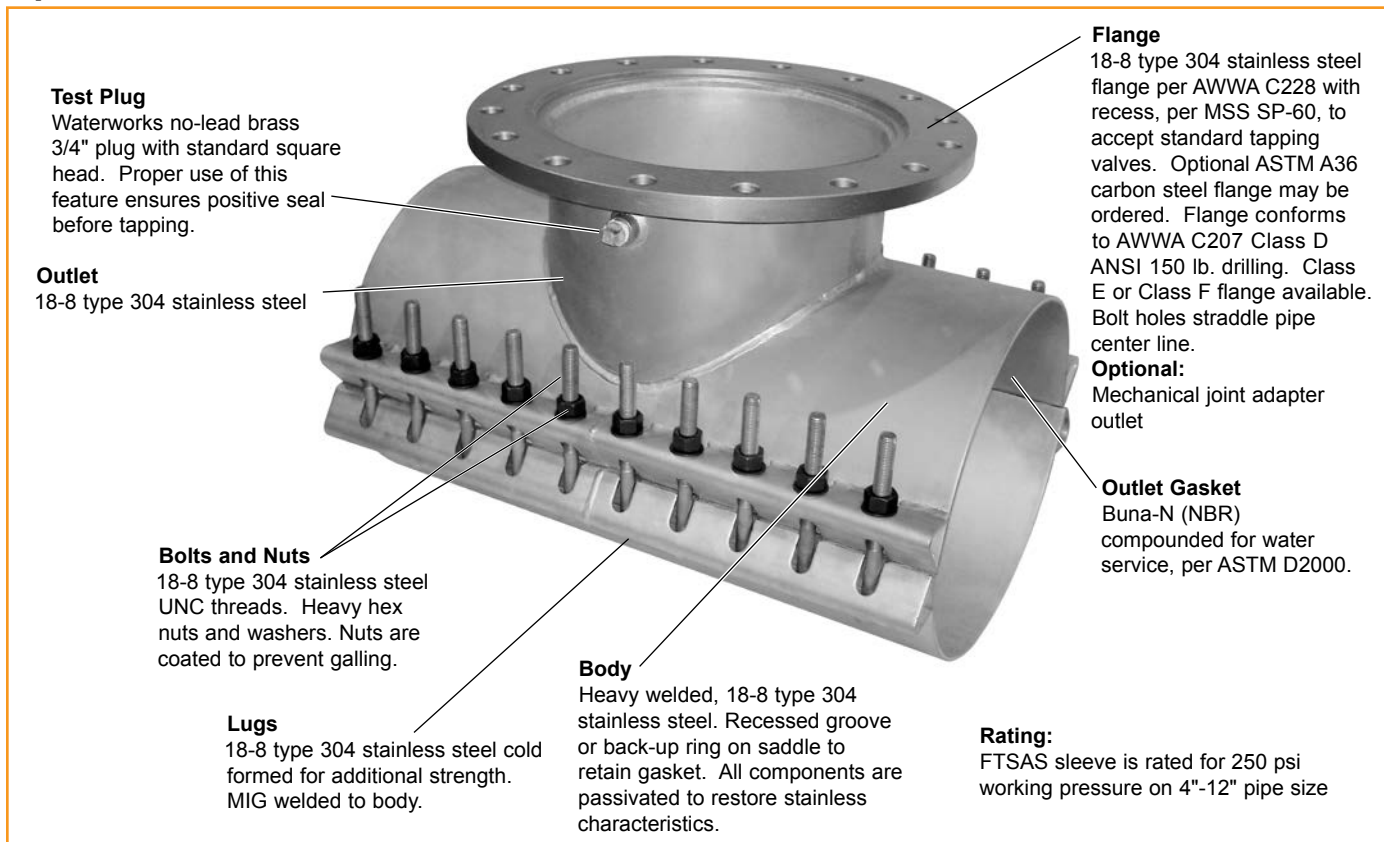
Ford Stainless Steel Tapping Sleeve

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

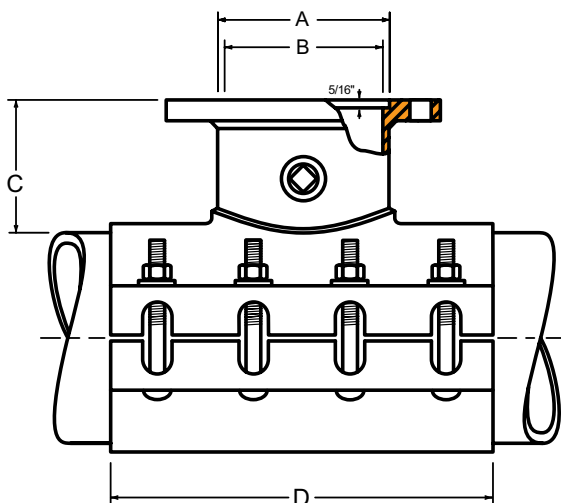
Ford FTSAS Tapping Sleeves have a heavy gauge stainless steel body with removable bolts. An outlet seal gasket compresses against the pipe, and provides a watertight seal. FTSAS Tapping Sleeves are chemically passivated to ensure maximum corrosion protection.

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

Specifications



FTSAS Dimensions



| NOM PIPE SIZE | FLANGE SIZE CODE | NOMINAL DIMENSIONS - INCHES | | | | BOLT SIZE | No. OF BOLTS |
|---------------------|------------------------|-----------------------------|----------|--------|----|--------------|--------------------|
| | | A | B | C | D | | |
| 4" - 12" | 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 |
| | 6 | 7-1/64 | 6-13/32 | 5-1/2 | 15 | 5/8 | 8 |
| | 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 |
| 14" - 16" | 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 |
| | 6 | 7-1/64 | 6-13/32 | 5-1/2 | 16 | 3/4 | 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 |
| 18" - 24" | 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 |
| | 6 | 7-1/64 | 6-13/32 | 5-1/2 | 16 | 3/4 | 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 |











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

Ford Stainless Steel Tapping Sleeve

**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. |
|----------------------|--|---|---|--|---|--|------------------------|
| 4" | 4.50-4.80 | FTSAS-480- |  | 3 | 3A | -MJ | 40 |
| | | | | 4 | 4A | | 40 |
| 6" | 6.65-7.00 6.90-7.30 | FTSAS-700- FTSAS-730- |  | 3 | 3A | -MJ | 66 |
| | | | | 4 | 4A | | 67 |
| | | | | 6 | 6A | | 74 |
| 8" | 8.63-9.05 9.05-9.30 | FTSAS-905- FTSAS-930- |  | 3 | 3A | -MJ | 84 |
| | | | | 4 | 4A | | 85 |
| | | | | 6 | 6A | | 89 |
| | | | | 8 | 8A | | 94 |
| 10" | 10.75-11.10 11.40-11.70 | FTSAS-1110- FTSAS-1170- |  | 3 | 3A | -MJ | 89 |
| | | | | 4 | 4A | | 90 |
| | | | | 6 | 6A | | 93 |
| | | | | 8 | 8A | | 99 |
| | | | | 10 | 10A | | 111 |
| 12" | 12.75-13.20 13.20-13.50 | FTSAS-1320- FTSAS-1350- |  | 3 | 3A | -MJ | 97 |
| | | | | 4 | 4A | | 98 |
| | | | | 6 | 6A | | 102 |
| | | | | 8 | 8A | | 108 |
| | | | | 10 | 10A | | 188 |
| | | | | 12 | 12A | | 207 |
| 14" | 15.23-15.72 15.73-16.22 16.30-16.73 16.74-17.26 | FTSAS-1572- FTSAS-1622- FTSAS-1673- FTSAS-1726- |  | 3 | 3A | -MJ | 236 |
| | | | | 4 | 4A | | 237 |
| | | | | 6 | 6A | | 240 |
| | | | | 8 | 8A | | 245 |
| | | | | 10 | 10A | | 263 |
| | | | | 12 | 12A | | 288 |
| | | | | 14 | 14A | | 300 |
| 16" | 17.33-17.87 17.88-18.43 18.46-19.03 18.87-19.45 | FTSAS-1787- FTSAS-1843- FTSAS-1903- FTSAS-1945- |  | 3 | 3A | -MJ | 135 |
| | | | | 4 | 4A | | 136 |
| | | | | 6 | 6A | | 139 |
| | | | | 8 | 8A | | 144 |
| | | | | 10 | 10A | | 246 |
| | | | | 12 | 12A | | 273 |
| | | | | 14 | 14A | | 285 |
| 18" | 19.41-20.01 19.88-20.48 20.29-20.92 20.93-21.57 | FTSAS-2001- FTSAS-2048- FTSAS-2092- FTSAS-2157- |  | 16 | 16A | -MJ | 342 |
| | | | | 3 | 3A | | 230 |
| | | | | 4 | 4A | | 231 |
| | | | | 6 | 6A | | 234 |
| | | | | 8 | 8A | | 239 |
| | | | | 10 | 10A | | 260 |
| | | | | 12 | 12A | | 290 |
| | | | | 14 | 14A | | 302 |
| 20" | 21.51-22.15 22.16-22.81 23.46-24.16 24.82-25.52 | FTSAS-2215- FTSAS-2281- FTSAS-2416- FTSAS-2552- |  | 16 | 16A | -MJ | 358 |
| | | | | 18 | 18A | | 450 |
| | | | | 3 | 3A | | 248 |
| | | | | 4 | 4A | | 249 |
| | | | | 6 | 6A | | 252 |
| | | | | 8 | 8A | | 257 |
| | | | | 10 | 10A | | 279 |
| | | | | 12 | 12A | | 310 |
| | | | | 14 | 14A | | 321 |
| 24" | 25.71-26.41 26.55-27.25 27.26-27.96 28.14-28.84 | FTSAS-2641- FTSAS-2725- FTSAS-2796- FTSAS-2884- |  | 16 | 16A | -MJ | 377 |
| | | | | 18 | 18A | | 502 |
| | | | | 20 | 20A | | 532 |
| | | | | 3 | 3A | | 267 |
| | | | | 4 | 4A | | 268 |
| | | | | 6 | 6A | | 271 |
| | | | | 8 | 8A | | 276 |
| | | | | 10 | 10A | | 304 |
| | | | | 12 | 12A | | 339 |
| | | | | 14 | 14A | | 351 |
| 30" - 36" | | Contact factory for information, please indicate which tapping valve is being used. | | | | | |
| 42" - 48" | | Contact factory for information, please indicate which tapping valve is being used. | | | | | |

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

Test Plug -steel (FTS) or stainless steel (FTSC) 3/4" plug with square operating head. Proper use of this feature ensures positive seal before tapping.

Bolts and Nuts -

Style FTS - High strength low alloy per ASTM A242 and AWWA C111. Heavy hex nuts are coated to prevent galling.

Style FTSC - 18-8 type 304 stainless steel.

Optional: 316 stainless steel or coated high strength low alloy per ASTM A242 and AWWA C111.

Finish - Style FTS - Shop coat. Excellent base for coal tar enamel and similar field coatings. **Style FTSC** - Approximately 12 mils of fusion bonded epoxy coating.

Rating:

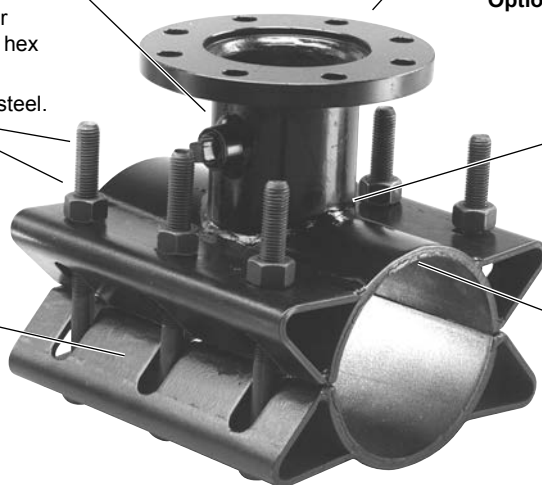
FTS and FTSC sleeve is rated for 250 psi working pressure on 4"-12" pipe size

Flange - ASTM A36 carbon steel, recessed per MSS SP-60 for standard tapping valve through 24" - 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

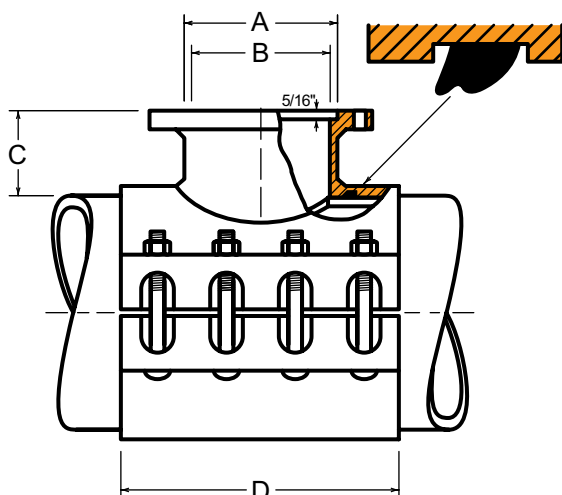
Body - Heavy-welded steel with mechanically retained gasket. ASTM A36 36,000 psi minimum yield.

Outlet Gasket - Buna-N (NBR) compounded for water service, per ASTM D2000. Optional EPDM



ANSI/NSF Standard 61
see page AA-2

FTS/FTSC Dimensions



| NOM. PIPE SIZE | FLANGE SIZE CODE | NOMINAL DIMENSIONS - INCHES | | | | BOLT SIZE | No. OF BOLTS |
|----------------|------------------|-----------------------------|--------|--------|----|-----------|--------------|
| | | A | B | C | D | | |
| 4" | 3 | 4-3/64 | 3-1/16 | 5-1/16 | 12 | 5/8 | 6 |
| | 4 | 5-3/64 | 4-1/8 | 5-1/16 | 12 | 5/8 | 6 |
| 6" - 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 |
| | 6 | 7-3/64 | 6-1/4 | 5-3/16 | 12 | 3/4 | 6 |
| | 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 |
| 14" - 16" | 3 | 4-3/64 | 3-1/16 | 5-3/16 | 16 | 3/4 | 6 |
| | 4 | 5-3/64 | 4-1/8 | 5-3/16 | 16 | 3/4 | 6 |
| | 6 | 7-3/64 | 6-1/4 | 5-3/16 | 16 | 3/4 | 6 |
| | 8 | 9-3/64 | 8-1/4 | 5-3/16 | 20 | 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 |
| 18" - 24" | 3 | 4-3/64 | 3-1/16 | 5-3/16 | 16 | 3/4 | 6 |
| | 4 | 5-3/64 | 4-1/8 | 5-3/16 | 16 | 3/4 | 6 |
| | 6 | 7-3/64 | 6-1/4 | 5-3/16 | 16 | 3/4 | 6 |
| | 8 | 9-3/64 | 8-1/4 | 5-3/16 | 20 | 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 Class F flange available, contact factory.
3" - 24" MJ adapter outlet available, contact factory for dimensions.

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 approximately 12 mils of fusion applied epoxy and stainless steel bolts.

| NOM. PIPE SIZE | SLEEVE O.D. RANGE | SLEEVE NUMBER | EPOXY COATED SLEEVE | BY | FLANGE SIZE CODE | OPTIONAL MJ OUTLET | APPROX. WT. LBS. | |
|----------------|---|---------------|---------------------|----|------------------|--------------------|------------------|--|
| 4" | 4.50 - 4.80 | *FTS-480- | *FTSC-480- | | 3 | -MJ | 40 | |
| | | | | | 4 | | 41 | |
| 6" | 6.57 - 6.73 | *FTS-673- | *FTSC-673- | | 3 | -MJ | 64 | |
| | 6.83 - 7.16 | FTS-716- | FTSC-716- | | 4 | | 65 | |
| | 7.20 - 7.60 | FTS-760- | FTSC-760- | | 6 | | 72 | |
| | 7.40 - 7.73 | FTS-773- | FTSC-773- | | | | | |
| 8" | 7.95 - 8.05 | **FTS-805- | **FTSC-805- | | 3 | -MJ | 72 | |
| | 8.36 - 8.75 | *FTS-875- | *FTSC-875- | | 4 | | 73 | |
| | 8.73 - 9.12 | FTS-912- | FTSC-912- | | 6 | | 79 | |
| | 8.89 - 9.37 | FTS-937- | FTSC-937- | | | | | |
| | 9.27 - 9.69 | FTS-969- | FTSC-969- | | | | | |
| 10" | 9.95 - 10.10 | **FTS-1010- | **FTSC-1010- | | 3 | -MJ | 81 | |
| | 10.45 - 10.88 | FTS-1088- | FTSC-1088- | | 4 | | 82 | |
| | 11.03 - 11.47 | FTS-1147- | FTSC-1147- | | 6 | | 87 | |
| | 11.36 - 11.80 | FTS-1180- | FTSC-1180- | | 8 | | 117 | |
| | | | | | 10 | | 153 | |
| 12" | 11.76 - 12.20 | **FTS-1220- | **FTSC-1220- | | 3 | -MJ | 92 | |
| | 12.42 - 12.88 | FTS-1288- | FTSC-1288- | | 4 | | 93 | |
| | 13.13 - 13.60 | FTS-1360- | FTSC-1360- | | 6 | | 98 | |
| | 13.60 - 14.09 | FTS-1409- | FTSC-1409- | | 8 | | 130 | |
| | 14.10 - 14.58 | FTS-1458- | FTSC-1458- | | 10 | | 169 | |
| | | | | | 12 | | 216 | |
| 14"-16" | 14.59 - 15.08 | FTS-1508- | FTSC-1508- | | 3 | -MJ | 98 | |
| | 15.23 - 15.72 | FTS-1572- | FTSC-1572- | | 4 | | 99 | |
| | 15.73 - 16.22 | FTS-1622- | FTSC-1622- | | 6 | | 105 | |
| | 16.30 - 16.73 | FTS-1673- | FTSC-1673- | | 8 | | 139 | |
| | 16.74 - 17.26 | FTS-1726- | FTSC-1726- | | 10 | | 178 | |
| | | | | | 12 | | 230 | |
| 16"-18" | 17.33 - 17.87 | FTS-1787- | FTSC-1787- | | 3 | -MJ | 113 | |
| | 17.88 - 18.43 | FTS-1843- | FTSC-1843- | | 4 | | 114 | |
| | 18.46 - 19.03 | FTS-1903- | FTSC-1903- | | 6 | | 120 | |
| | 18.87 - 19.45 | FTS-1945- | FTSC-1945- | | 8 | | 159 | |
| | 19.41 - 20.01 | FTS-2001- | FTSC-2001- | | 10 | | 203 | |
| | | | | | 12 | | 256 | |
| | | | | | 16 | | 413 | |
| 18"-20" | 19.88 - 20.48 | FTS-2048- | FTSC-2048- | | 3 | -MJ | 121 | |
| | 20.29 - 20.92 | FTS-2092- | FTSC-2092- | | 4 | | 122 | |
| | 20.93 - 21.57 | FTS-2157- | FTSC-2157- | | 6 | | 128 | |
| | 21.51 - 22.15 | FTS-2215- | FTSC-2215- | | 8 | | 170 | |
| | 22.16 - 22.81 | FTS-2281- | FTSC-2281- | | 10 | | 216 | |
| | | | | | 12 | | 273 | |
| | | | | | 16 | | 412 | |
| 20"-24" | 22.78 - 23.45 | FTS-2345- | FTSC-2345- | | 3 | -MJ | 132 | |
| | 23.46 - 24.16 | FTS-2416- | FTSC-2416- | | 4 | | 133 | |
| | 24.15 - 24.85 | FTS-2485- | FTSC-2485- | | 6 | | 136 | |
| | 24.82 - 25.52 | FTS-2552- | FTSC-2552- | | 8 | | 180 | |
| | | | | | 10 | | 229 | |
| | | | | | 12 | | 299 | |
| | | | | | 16 | | 430 | |
| 24" | 25.71 - 26.41 | FTS-2641- | FTSC-2641- | | 3 | -MJ | 148 | |
| | 26.55 - 27.25 | FTS-2725- | FTSC-2725- | | 4 | | 149 | |
| | 27.26 - 27.96 | FTS-2796- | FTSC-2796- | | 6 | | 153 | |
| | 28.14 - 28.84 | FTS-2884- | FTSC-2884- | | 8 | | 212 | |
| | | | | | 10 | | 260 | |
| | | | | | 12 | | 323 | |
| | | | | | 16 | | 459 | |
| 30" | 29.78 - 30.48 | FTS-3048- | FTSC-3048- | | 3 | -MJ | 161 | |
| | 30.48 - 31.18 | FTS-3118- | FTSC-3118- | | 4 | | 162 | |
| | 31.52 - 32.22 | FTS-3222- | FTSC-3222- | | 6 | | 168 | |
| | | | | | 8 | | 222 | |
| | | | | | 10 | | 283 | |
| | | | | | 12 | | 350 | |
| 36" - 48" | Contact factory for information, please indicate which tapping valve is being used. | | | | | | 550 | |

Contact factory for information, please indicate which tapping valve is being used.

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.

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

** Size-on-size for this range is not available.

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

Ford Brass Saddles Style S40 and S41

For Copper Tubing

Specifications

Hinged S40 or S41

A machined groove around the top outside edge indicates an AWWA threaded outlet. FIP outlet saddles do not have machined groove.

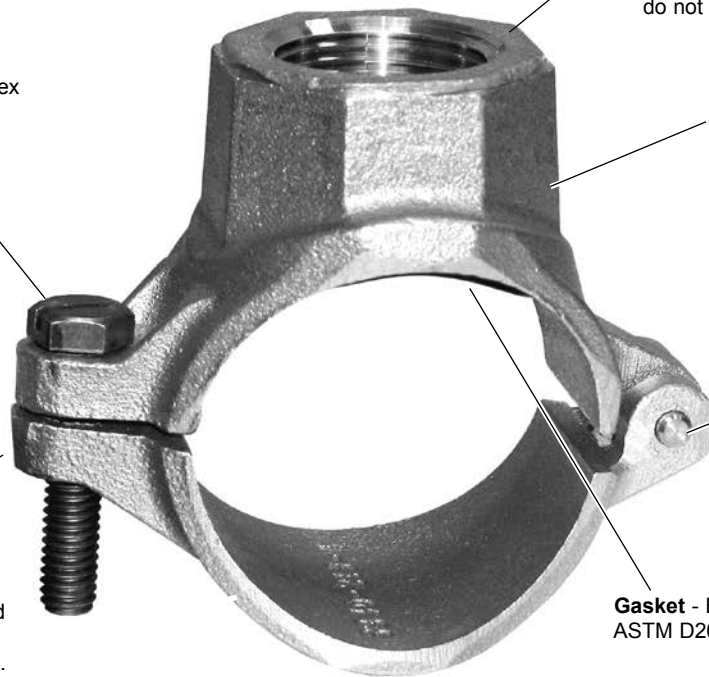
Body - 85-5-5-5 brass alloy as per ASTM B62, ASTM B584 and AWWA C800. Threads may be FIP or AWWA.

Hinge Pin - Body and strap are permanently joined with a silicon bronze pin.

Gasket - EPDM rubber. ASTM D2000 O-ring design.

Bolt - 5/16" diameter, slotted hex head silicon bronze bolt.

Strap - 85-5-5-5 brass alloy as per ASTM B62, ASTM B584 and AWWA C800. Bottom strap is tapped to eliminate need for nut.



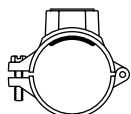
Ford Brass Saddles Style S40 and S41

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 on facing page.



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. | STD. PKG. QTY. |
|--------------------|-------------|-----------------------------|---------------------------|----------|------------------|----------------|
| 2" | 2.13 | S40-201 | S41-201 | 1/2" | 1.3 | 6 |
| | | S40-203 | S41-203 | 3/4" | 1.1 | 6 |
| | | S40-204 | S41-204 | 1" | 1.0 | 6 |

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

Hinged S70

Design A

Hinge Pin - Body and strap are permanently joined together with a silicon bronze pin.

Body - 85-5-5-5 brass alloy as per ASTM B62, ASTM B584 and AWWA C800. Threads may be FIP or AWWA.

ANSI/NSF Standard 61
see page AA-2

Strap - 85-5-5-5 brass alloy as per ASTM B62, ASTM B584 and AWWA C800. Bottom strap is tapped to eliminate need for nut.

Screw - 5/16" diameter, slotted 1/2" hex head silicon bronze bolt used on 1-1/2" through 8" saddles, with 3/4" and 1" taps.

Gasket - EPDM rubber, ASTM D2000 O-ring design.

S70 1-1/2" - 8" (Design may vary on certain sizes - see catalog listing).

Bolted S70

A machined groove around the top outside edge indicates an AWWA threaded outlet. FIP outlet saddles do not have machined groove.

Body - 85-5-5-5 brass alloy as per ASTM B62, ASTM B584 and AWWA C800. Threads may be FIP or AWWA.

ANSI/NSF Standard 61
see page AA-2

Design B
2" and 3"
1-1/4" - 2" Taps

Design C
10" and 12"

Gasket - EPDM rubber, ASTM D2000 O-ring design.

Bolts - 5/16" (1/2" hex head) or 3/8" (9/16" hex head) silicon bronze bolts. Body casting tapped to eliminate need for nut.

Bolts - 1/2" diameter (3/4" hex head) silicon bronze bolts, nuts and washers.

Spacers

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.

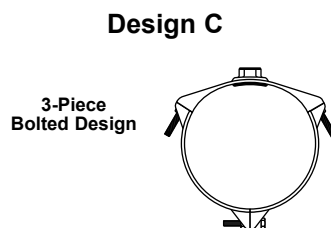
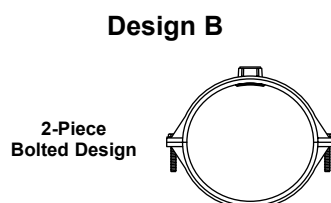
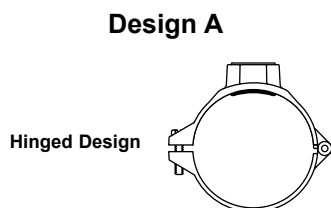
Design "A" (hinged) saddles install as a single unit with no loose parts to lose in the ditch. (Designs may vary - see below.) The upper and lower castings are permanently hinged together with a silicon bronze pin and the silicon bronze bolt has a retainer on it to prevent loss during shipment and installation. 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

| PVC PIPE SIZE | ACTUAL PIPE O.D. | AWWA CAT. NO. S70 | IP TAP CAT. NO. S71 | TAP SIZE | DESIGN | APPROX. Wt. LBS. | STD. PKG. QTY. |
|---------------|------------------|-------------------|---------------------|----------|--------|------------------|----------------|
| 1-1/2" | 1.90 | S70-151 | S71-151 | 1/2" | A | 1.0 | - |
| | | S70-153 | S71-153 | 3/4" | A | 1.0 | 10 |
| 2" | 2.38 | S70-201 | S71-201 | 1/2" | A | 1.4 | 6 |
| | | S70-203 | S71-203 | 3/4" | A | 1.1 | 6 |
| | | S70-204 | S71-204 | 1" | A | 1.0 | 6 |
| | | S70-205 | S71-205 | 1-1/4" | B | 3.6 | - |
| | | S70-206 | S71-206 | 1-1/2" | B | 3.4 | - |
| 2-1/2" | 2.88 | S70-253 | S71-253 | 3/4" | A | 1.7 | 10 |
| | | S70-254 | S71-254 | 1" | A | 1.6 | 10 |
| | | S70-255 | S71-255 | 1-1/4" | B | 3.8 | - |
| | | S70-256 | S71-256 | 1-1/2" | B | 3.6 | - |
| 3" | 3.50 | S70-301 | S71-301 | 1/2" | A | 1.9 | 4 |
| | | S70-303 | S71-303 | 3/4" | A | 1.8 | 4 |
| | | S70-304 | S71-304 | 1" | A | 1.7 | 4 |
| | | - | S71-307 | 2" | B | 3.5 | 4 |
| 4" | 4.50 | S70-401 | S71-401 | 1/2" | A | 2.2 | 2 |
| | | S70-403 | S71-403 | 3/4" | A | 2.1 | 2 |
| | | S70-404 | S71-404 | 1" | A | 2.0 | 2 |
| | | S70-406 | S71-406 | 1-1/2" | A | 4.1 | 6 |
| | | S70-407 | S71-407 | 2" | A | 4.8 | 6 |
| 5" | 5.56 | S70-503 | S71-503 | 3/4" | A | 2.6 | 4 |
| | | S70-504 | S71-504 | 1" | A | 2.5 | 4 |
| | | S70-601 | S71-601 | 1/2" | A | 2.9 | 6 |
| 6" | 6.63 | S70-603 | S71-603 | 3/4" | A | 2.8 | 6 |
| | | S70-604 | S71-604 | 1" | A | 2.8 | 6 |
| | | S70-606 | S71-606 | 1-1/2" | A | 5.9 | 4 |
| | | S70-607 | S71-607 | 2" | A | 5.1 | 4 |
| 8" | 8.63 | S70-803 | S71-803 | 3/4" | A | 3.6 | 6 |
| | | S70-804 | S71-804 | 1" | A | 3.6 | 6 |
| | | S70-806 | S71-806 | 1-1/2" | A | 5.8 | 4 |
| | | S70-807 | S71-807 | 2" | A | 5.6 | 4 |
| 10" | 10.75 | S70-1003 | S71-1003 | 3/4" | C | 7.0 | 5 |
| | | S70-1004 | S71-1004 | 1" | C | 7.0 | 5 |
| | 10.75-11.10 | *S70-S90-1006 | *S71-S91-1006 | 1-1/2" | C | 10.4 | 2 |
| | | *S70-S90-1007 | *S71-S91-1007 | 2" | C | 10.7 | 2 |
| | 12.75 | S70-1203 | S71-1203 | 3/4" | C | 8.1 | 3 |
| | | S70-1204 | S71-1204 | 1" | C | 7.8 | 3 |
| 12" | 12.75-13.20 | *S70-S90-1206 | *S71-S91-1206 | 1-1/2" | C | 11.3 | 2 |
| | | *S70-S90-1207 | *S71-S91-1207 | 2" | C | 10.9 | 2 |

* 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. |
|--------------|----------------|-------------------|---------|--------------|----------------------------|----------------------|
| S70 / S71 | 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 |
| | 2-1/2" | 1-1/4" and 1-1/2" | 2 Piece | 4 per saddle | 3/8"x2" | SADDLE-SCREW800233 |
| | 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 |

** Requires nut. Catalog number: **SADDLE-NUT-800490**

Ford Brass Saddles Style S90 and S91

For C900 PVC Pipe

Specifications

Hinged S90

Design A

Hinge Pin - Body and strap are permanently joined together with a silicon bronze pin.

Body - 85-5-5 brass alloy as per ASTM B62, ASTM B584 and AWWA C800. Threads may be FIP or AWWA.

ANSI/NSF Standard 61
see page AA-2

Strap - 85-5-5 brass alloy as per ASTM B62, ASTM B584 and AWWA C800. Bottom strap is tapped to eliminate need for nut.

Screw - 5/16" diameter, slotted 1/2" hex head silicon bronze bolt used on 2" through 8" saddles.

Gasket - EPDM rubber, ASTM D2000 O-ring design.

S90 2" - 8" (Design may vary on certain sizes - see catalog listing).

Bolted S90

A machined groove around the top outside edge indicates an AWWA threaded outlet. FIP outlet saddles do not have machined groove.

Body - 85-5-5 brass alloy as per ASTM B62, ASTM B584 and AWWA C800. Threads may be FIP or AWWA.

ANSI/NSF Standard 61
see page AA-2

Design B
10" - 12"
3/4" and 1" taps
(Designs may vary with size - see catalog listing)

Design C
10" and 12"
1-1/2" and 2" taps

Gasket - O-ring design
EPDM rubber, ASTM D2000.

Bolts - 1/2" (3/4" hex head) or 3/8" (9/16" hex head) silicon bronze bolts. Body casting tapped to eliminate need for nut.

Bolts - 1/2" diameter (3/4" hex head) silicon bronze bolts, nuts and washers.

Spacers

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.

Style S90 and S91 Saddles for C900 PVC Pipe

Design A

Hinged Design

Design B

2-Piece Bolted Design

Design C

3-Piece Bolted Design

| PVC PIPE SIZE | ACTUAL PIPE O.D. | AWWA CAT. NO. S90 | IP TAP CAT. NO. S91 | TAP SIZE | DESIGN | APPROX. WT. LBS. | STD. PKG. QTY. |
|---------------|------------------|-------------------|---------------------|----------|--------|------------------|----------------|
| 2" | 2.50 | S90-201 | S91-201 | 1/2" | A | 0.9 | 15 |
| | | S90-203 | S91-203 | 3/4" | A | 1.1 | 6 |
| 4" | 4.80 | S90-401 | S91-401 | 1/2" | A | 2.1 | 12 |
| | | S90-403 | S91-403 | 3/4" | A | 1.8 | 10 |
| | | S90-404 | S91-404 | 1" | A | 2.0 | 10 |
| | | S90-406 | S91-406 | 1-1/2" | A | 6.5 | 6 |
| | | S90-407 | S91-407 | 2" | A | 6.4 | 6 |
| 6" | 6.90 | S90-601 | - | 1/2" | A | 3.4 | 5 |
| | | S90-603 | S91-603 | 3/4" | A | 2.6 | 5 |
| | | S90-604 | S91-604 | 1" | A | 2.6 | 5 |
| | | S90-606 | S91-606 | 1-1/2" | A | 8.9 | 4 |
| | | S90-607 | S91-607 | 2" | A | 7.3 | 4 |
| 8" | 9.05 | S90-801 | S91-801 | 1/2" | A | 3.6 | 5 |
| | | S90-803 | S91-803 | 3/4" | A | 2.8 | 5 |
| | | S90-804 | S91-804 | 1" | A | 3.2 | 5 |
| | | S90-806 | S91-806 | 1-1/2" | A | 8.0 | 4 |
| | | S90-807 | S91-807 | 2" | A | 8.5 | 4 |
| 10" | 11.10 | S90-1003 | S91-1003 | 3/4" | B | 9.3 | 5 |
| | | S90-1004 | S91-1004 | 1" | B | 9.2 | 5 |
| | 10.75-11.10 | *S70-S90-1006 | *S71-S91-1006 | 1-1/2" | C | 10.5 | 2 |
| | | *S70-S90-1007 | *S71-S91-1007 | 2" | C | 10.5 | 2 |
| 12" | 13.20 | S90-1203 | S91-1203 | 3/4" | B | 11.1 | 4 |
| | | S90-1204 | S91-1204 | 1" | B | 11.0 | 4 |
| | 12.75-13.20 | *S70-S90-1206 | *S71-S91-1206 | 1-1/2" | C | 11.5 | 2 |
| | | *S70-S90-1207 | *S71-S91-1207 | 2" | C | 11.0 | 2 |

* 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.

* 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

| PVC PIPE SIZE | ACTUAL PIPE O.D. | AWWA CAT. NO. S902 | IP TAP CAT. NO. S912 | TAP SIZE | DESIGN | APPROX. WT. LBS. | STD. PKG. QTY. |
|---------------|------------------|--------------------|----------------------|----------|--------|------------------|----------------|
| 4" | 4.80 | S902-403 | S912-403 | 3/4" | B | 3.2 | 5 |
| | | S902-404 | S912-404 | 1" | B | 2.9 | 5 |
| | | S902-406 | S912-406 | 1-1/2" | B | 6.5 | 5 |
| | | S902-407 | S912-407 | 2" | B | 6.5 | 5 |
| 6" | 6.90 | S902-603 | S912-603 | 3/4" | B | 4.6 | 5 |
| | | S902-604 | S912-604 | 1" | B | 4.5 | 5 |
| | | S902-606 | S912-606 | 1-1/2" | B | 8.5 | 3 |
| | | S902-607 | S912-607 | 2" | B | 8.5 | 3 |
| 8" | 9.05 | S902-803 | S912-803 | 3/4" | B | 5.5 | 5 |
| | | S902-804 | S912-804 | 1" | B | 5.4 | 5 |
| | | S902-806 | S912-806 | 1-1/2" | B | 12.5 | 3 |
| | | S902-807 | S912-807 | 2" | B | 12.5 | 2 |
| 10" | 11.10 | S902-1006 | S912-1006 | 1-1/2" | B | 12.8 | - |
| | | S902-1007 | S912-1007 | 2" | B | 12.2 | 3 |
| 12" | 13.20 | S902-1206 | S912-1206 | 1-1/2" | B | 14.3 | - |
| | | S902-1207 | S912-1207 | 2" | B | 14.3 | 2 |

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. |
|--------------|---------------|---------------|---------|--------------|-----------------------------|----------------------|
| S90 / S91 | 2" thru 8" | 3/4" and 1" | Hinged | 1 per saddle | 5/16"x1-1/2" | SADDLE-SCREW800181 |
| | 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" | 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 8" | 3/4" and 1" | 2 Piece | 2 per saddle | 3/8"x2" | SADDLE-SCREW800233 |

** Requires nut. Catalog number: SADDLE-NUT-800490

Ford Brass Saddles Style 101B and 202B

101B, 3/4" and 1" Taps

202B, 3/4" through 2" Taps

Specifications

101B

Body - 85-5-5-5 brass alloy as per ASTM B62, ASTM B584 and AWWA C800. Threads may be FIP or AWWA.

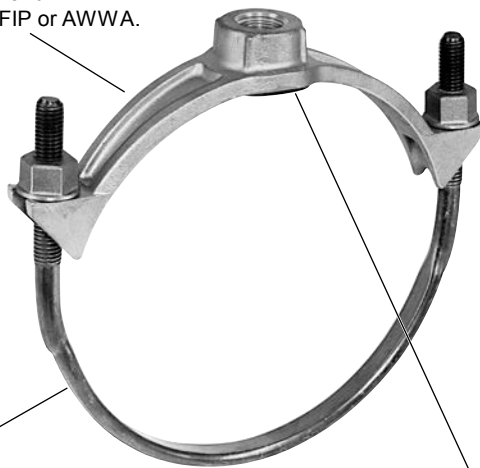
Nuts - 5/8" 85-5-5-5 brass alloy as per ASTM B62, ASTM B584 and AWWA C800 with integral washers.

ANSI/NSF Standard 61
see page AA-2

Strap - 5/8" high quality silicon bronze flattened to provide a wider bearing surface against pipe.

One side of the saddle body has a closed bolt lug for easy installation.

Gasket - EPDM rubber ASTM D2000



202B

Nuts - 5/8" 85-5-5-5 brass alloy as per ASTM B62, ASTM B584 and AWWA C800 with integral washers.

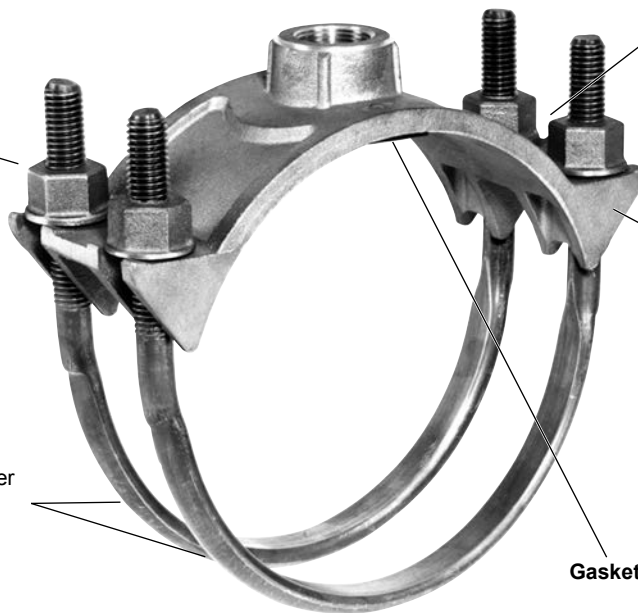
ANSI/NSF Standard 61
see page AA-2

Straps - 5/8" high quality silicon bronze flattened to provide a wider bearing surface against pipe.

One side of saddle body has closed bolt lugs for easy installation.

Body - 85-5-5-5 brass alloy as per ASTM B62, ASTM B584 and AWWA C800. Threads may be FIP or AWWA.

Gasket - EPDM rubber ASTM D2000



OUTLET THREAD TAP CODE

| CC (AWWA) 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 |

*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.

Style 101B Single Strap Brass Saddles (For AC or Iron Pipe) For 3/4" and 1" Taps



| NOM. PIPE SIZE | O.D. RANGE | CATALOG NUMBER | APPROX. WT. LBS. | STD. PKG. QTY. |
|----------------------|---------------|----------------------|------------------------|----------------------|
| 4" | 4.80-5.40 | 101B-540-Tap | 3.0 | 10 |
| 6" | 6.90-7.50 | 101B-750-Tap | 3.8 | 10 |
| 8" | 9.05-9.62 | 101B-962-Tap | 4.4 | 10 |
| 10" | 11.10-12.12 | 101B-1212-Tap | 5.4 | 10 |
| 12" | 13.20-14.38 | 101B-1438-Tap | 5.9 | 8 |

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

*** 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

101BS

Nuts and Washers - 5/8" coated heavy hex nuts and washers made from 18-8 type 304 stainless steel.

ANSI/NSF Standard 61
see page AA-2

Band and Bolts - Wide band and 5/8" UNC threaded bolts of 18-8 type 304 stainless steel. Welds are fully passivated for corrosion resistance.

Body - 85-5-5-5 brass alloy as per ASTM B62, ASTM B584 and AWWA C800. Threads may be FIP or AWWA.

One side of the saddle body has a closed bolt lug for easy installation.

Gasket - EPDM rubber ASTM D2000.

2" minimum width.

202BS

Nuts and Washers - 5/8" coated heavy hex nuts and washers made from 18-8 type 304 stainless steel.

ANSI/NSF Standard 61
see page AA-2

Band and Bolts - Wide band and 5/8" UNC threaded double bolts of 18-8 type 304 stainless steel. Welds are fully passivated for corrosion resistance.

Body - 85-5-5-5 brass alloy as per ASTM B62, ASTM B584 and AWWA C800. Threads may be FIP or AWWA.

One side of the saddle body has closed bolt lugs for easy installation.

Gasket - EPDM rubber ASTM D2000.

3-1/4" minimum width.

OUTLET THREAD TAP CODE

| CC (AWWA) 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 |

** 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

ANSI/NSF Standard 61
see page AA-2

**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.

| NOM. PIPE SIZE | PIPE O.D. | CATALOG NUMBER | APPROX. WT. LBS. | STD. PKG. QTY. |
|----------------|-----------|----------------|------------------|----------------|
| 4" | 4.80 | 101BS-480-Tap | 3.0 | 6 |
| 6" | 6.90 | 101BS-690-Tap | 3.8 | 5 |
| 8" | 9.05 | 101BS-905-Tap | 4.4 | 5 |
| 10" | 11.10 | 101BS-1110-Tap | 5.4 | 5 |
| 12" | 13.20 | 101BS-1320-Tap | 5.9 | 5 |

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.

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

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.

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

* 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.

Ford Brass Saddles Styles 202BSD

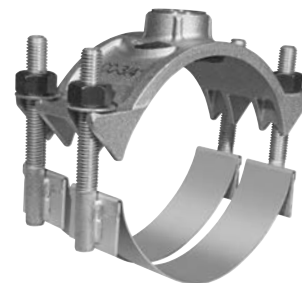
ANSI/NSF Standard 61
see page AA-2

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.

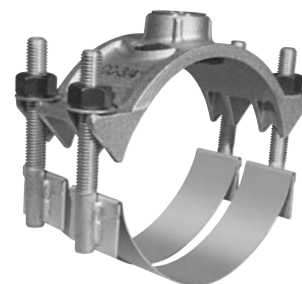
Style 202BSD Dual Band Saddles for C900/C905 PVC Pipe

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



Style 202BSD Dual Band Saddles for Iron and AC Pipe

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



* **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 (AWWA) 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.

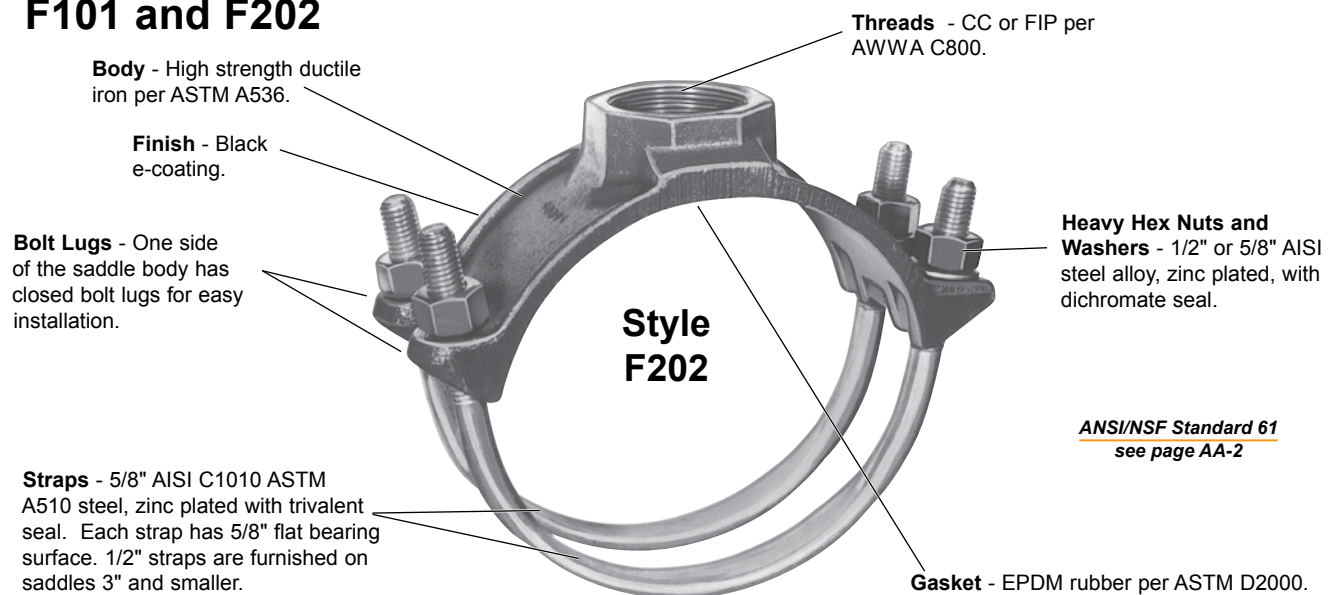
Ford Ductile Iron Service Saddles Styles F101, FS101 and FC101 Styles F202, FS202 and FC202

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 FS and 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, FS and FC Saddles meet the stipulations of AWWA and Uni-Bell for use on PVC pipe.**

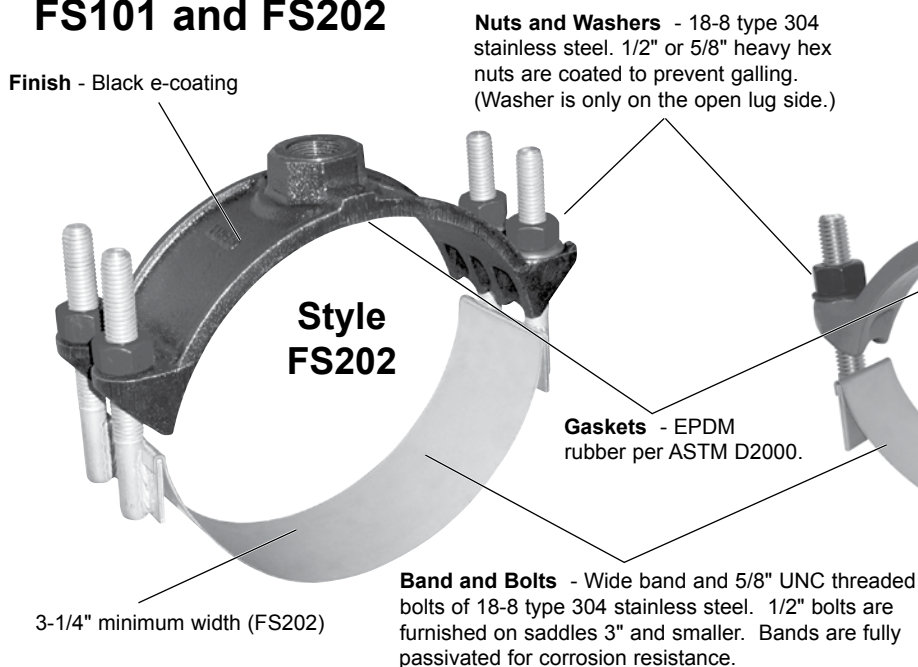
One side of the saddle has closed lugs to allow pre-assembly of the saddle straps to facilitate installation. The heavy-duty outlet gasket maintains a positive seal in excess of the pipe rating.

Specifications

F101 and F202



FS101 and FS202



FC101 and FC202



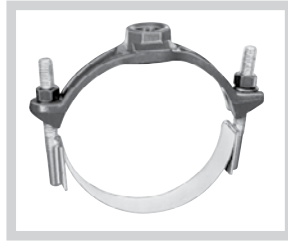
Ford Ductile Iron Service Saddles Styles F101, FS101 and FC101

ANSI/NSF Standard 61
see page AA-2

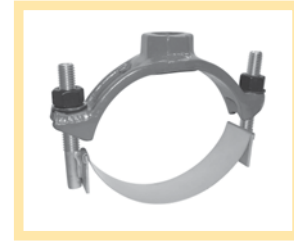
Single Strap for 3/4" and 1" Taps



F101 (standard strap)



FS101 (with stainless steel band and bolts)



FC101 (epoxy coated with stainless steel band and bolts)

Style F101, FS101 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 SIZE | PIPE O.D. RANGE | **CATALOG NUMBER STANDARD STRAP | CATALOG NUMBER STAINLESS BAND | CATALOG NUMBER EPOXY COATED | STD. PKG. QTY. | APPROX. WT. LBS. |
|----------------|-----------------|---------------------------------|-------------------------------|-----------------------------|----------------|------------------|
| 2" | 2.35-2.50 | F101-250-Tap | FS101-250-Tap | FC101-250-Tap | 10 | 1.8 |
| 2-1/2" | 2.75-2.90 | F101-290-Tap | FS101-290-Tap | FC101-290-Tap | 8 | 2.0 |
| | 3.46-3.80 | F101-380-Tap | FS101-380-Tap | FC101-380-Tap | 8 | 2.1 |
| 3" | 3.80-4.25 | F101-425-Tap | FS101-425-Tap | FC101-425-Tap | 6 | 2.4 |
| | 4.26-4.80 | F101-480-Tap | FS101-480-Tap | FC101-480-Tap | 6 | 2.8 |
| 4" | 4.74-5.26 | F101-526-Tap | * FS101-526-Tap | * FC101-526-Tap | 6 | 3.0 |
| | 5.94-6.69 | F101-669-Tap | FS101-669-Tap | FC101-669-Tap | 5 | 3.5 |
| 6" | 6.63-6.90 | F101-690-Tap | * FS101-690-Tap | * FC101-690-Tap | 6 | - |
| | 6.84-7.60 | F101-760-Tap | FS101-760-Tap | FC101-760-Tap | 6 | 3.6 |
| | 7.93-8.71 | F101-871-Tap | FS101-871-Tap | FC101-871-Tap | 6 | 3.8 |
| 8" | 8.63-9.05 | F101-905-Tap | * FS101-905-Tap | * FC101-905-Tap | 6 | - |
| | 8.99-9.79 | F101-979-Tap | * FS101-979-Tap | * FC101-979-Tap | 8 | 4.3 |
| 10" | 10.00-10.75 | F101-1075-Tap | FS101-1075-Tap | FC101-1075-Tap | 8 | 4.4 |
| | 11.10-12.12 | F101-1212-Tap | FS101-1212-Tap | FC101-1212-Tap | 8 | 4.8 |
| 12" | 12.00-12.75 | F101-1275-Tap | FS101-1275-Tap | FC101-1275-Tap | 8 | 5.9 |
| | 13.20-14.38 | F101-1438-Tap | FS101-1438-Tap | FC101-1438-Tap | 8 | 6.7 |

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

**Available with epoxy coating and stainless steel straps, contact factory for availability.

FS101 and 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 FS101 style saddle for 12" C900 PVC with 3/4" CC thread tap would be FS101-1320-CC3

| NOM. PIPE SIZE | PIPE O.D. | CATALOG NUMBER STAINLESS BAND | CATALOG NUMBER EPOXY COATED | STD. PKG. QTY. | APPROX. WT. LBS. |
|----------------|-----------|-------------------------------|-----------------------------|----------------|------------------|
| 4" | 4.80 | *FS101-480-Tap | *FC101-480-Tap | 12 | 3.0 |
| 6" | 6.90 | *FS101-690-Tap | *FC101-690-Tap | 6 | 3.6 |
| 8" | 9.05 | *FS101-905-Tap | *FC101-905-Tap | 6 | 4.3 |
| 10" | 11.10 | FS101-1110-Tap | FC101-1110-Tap | 8 | 4.8 |
| 12" | 13.20 | FS101-1320-Tap | FC101-1320-Tap | 8 | 6.7 |

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

OUTLET THREAD TAP CODE

| CC (AWWA) THREAD | | FIP THREAD | |
|------------------|--------|------------|--------|
| 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 |

***Contact factory for availability

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

Ford Ductile Iron Service Saddles

Styles F202, FS202 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 Styles FS and 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. A separate listing of FS202 and 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., FS and FC saddles meet the stipulations of AWWA and Uni-Bell for use on PVC pipe. See following pages.**

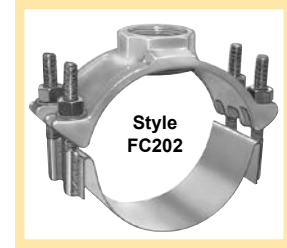
The open and closed lug design allows pre-assembly of the straps, thus ensuring a safe yet simple installation. The heavy duty gasket assures the saddle will maintain pressure in excess of the pipe rating.



Standard Straps



Stainless Band



Stainless Band & Epoxy Coated

Style F202, FS202 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 SIZE | PIPE O.D. RANGE | CATALOG NUMBER STANDARD STRAP | CATALOG NUMBER STAINLESS BAND | CATALOG NUMBER EPOXY COATED | PKG. QTY. 3/4" & 1" TAPS | PKG. QTY. 1-1/4" - 2-1/2" TAPS | APPROX. WT. LBS. |
|----------------|-----------------|-------------------------------|-------------------------------|-----------------------------|--------------------------|--------------------------------|------------------|
| 2" | 2.35-2.50 | F202-250-Tap | FS202-250-Tap | FC202-250-Tap | 8 | - | 2.8 |
| 2-1/2" | 2.75-2.90 | F202-290-Tap | FS202-290-Tap | FC202-290-Tap | 8 | - | 2.8 |
| 3" | * 3.80 | F202-380-Tap | FS202-380-Tap | FC202-380-Tap | 6 | 6 | 4.8 |
| | * 3.80-4.25 | F202-425-Tap | FS202-425-Tap | FC202-425-Tap | 6 | 6 | 5.5 |
| | ** 4.26-4.80 | F202-480-Tap | FS202-480-Tap | FC202-480-Tap | 6 | 6 | 5.4 |
| 4" | ▲ 4.74-5.00 | F202-500-Tap | FS202-500-Tap | FC202-500-Tap | - | 6 | 5.4 |
| | * 4.74-5.26 | F202-526-Tap | FS202-526-Tap | FC202-526-Tap | 6 | 6 | 5.4 |
| | ▲ 4.97-5.26 | F202-526-Tap | FS202-526-Tap | FC202-526-Tap | - | 6 | 5.4 |
| | 5.94-6.69 | F202-669-Tap | FS202-669-Tap | FC202-669-Tap | 5 | 4 | 5.7 |
| 6" | 6.63-6.90 | F202-690-Tap | FS202-690-Tap | FC202-690-Tap | 4 | 4 | 5.7 |
| | 6.84-7.60 | F202-760-Tap | FS202-760-Tap | FC202-760-Tap | 4 | 4 | 6.7 |
| | 7.93-8.71 | F202-871-Tap | FS202-871-Tap | FC202-871-Tap | 5 | 4 | 6.8 |
| 8" | 8.63-9.05 | F202-905-Tap | FS202-905-Tap | FC202-905-Tap | 4 | 4 | 8.2 |
| | 8.99-9.79 | F202-979-Tap | FS202-979-Tap | FC202-979-Tap | 4 | 6 | 8.4 |
| | 10.00-10.75 | F202-1075-Tap | FS202-1075-Tap | FC202-1075-Tap | 3 | 3 | 9.4 |
| 10" | 10.75-11.10 | F202-1110-Tap | FS202-1110-Tap | FC202-1110-Tap | 4 | 4 | 9.0 |
| | 11.10-12.12 | F202-1212-Tap | FS202-1212-Tap | FC202-1212-Tap | 3 | 3 | 10.8 |
| | 12.00-12.75 | F202-1275-Tap | FS202-1275-Tap | FC202-1275-Tap | 3 | 3 | 11.0 |
| 12" | 12.75-13.20 | F202-1320-Tap | FS202-1320-Tap | FC202-1320-Tap | 2 | 2 | 11.5 |
| | 13.20-14.38 | F202-1438-Tap | FS202-1438-Tap | FC202-1438-Tap | 2 | 2 | 12.8 |
| | 15.30-16.25 | F202-1625-Tap | FS202-1625-Tap | FC202-1625-Tap | 1 | 1 | 11.9 |
| 14" | 16.30-17.25 | F202-1725-Tap | FS202-1725-Tap | FC202-1725-Tap | 1 | 1 | 12.9 |
| | 17.40-18.40 | F202-1840-Tap | FS202-1840-Tap | FC202-1840-Tap | 2 | 2 | 13.1 |
| 16" | 18.50-19.25 | F202-1925-Tap | FS202-1925-Tap | FC202-1925-Tap | 1 | 1 | 12.9 |
| | 19.50-20.50 | F202-2050-Tap | FS202-2050-Tap | FC202-2050-Tap | 1 | 1 | 13.1 |
| 18" | 21.20-22.20 | F202-2220-Tap | FS202-2220-Tap | FC202-2220-Tap | 1 | 1 | 13.2 |
| 20" | 22.50-23.50 | F202-2350-Tap | FS202-2350-Tap | FC202-2350-Tap | 1 | 1 | 13.3 |
| | 23.80-24.80 | F202-2480-Tap | FS202-2480-Tap | FC202-2480-Tap | 1 | 1 | 13.4 |
| 24" | 25.60-26.50 | F202-2650-Tap | FS202-2650-Tap | FC202-2650-Tap | 1 | 1 | 13.9 |
| 30" | 31.74-32.74 | F202-3274-Tap | FS202-3274-Tap | FC202-3274-Tap | 1 | 1 | 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 epoxy coating and stainless steel straps. Contact factory for availability.

▲ This saddle is only available with 2" CC (CC7) or 2-1/2" IP (IP8) taps.

To order: Select the catalog number for the desired pipe O.D. range and add the tap code from the table below. Example: A double strap saddle for 6.90 ductile iron pipe with a 3/4" CC thread would be F202-760-CC3.

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

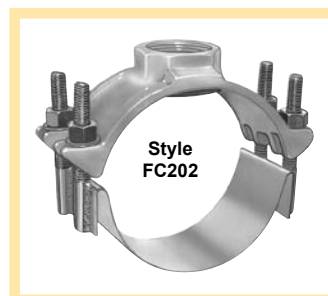
Ford Ductile Iron Service Saddles Styles FS202 and FC202 For C900/C905 PVC, for Steel Sized PVC

ANSI/NSF Standard 61
see page AA-2

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



Stainless Band



Stainless Band
& Epoxy Coated

FS202 and 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 FS202 style saddle for 12" C900 PVC with a 2" CC thread would be FS202-1320-CC7.

| NOM. PIPE SIZE | PIPE O.D. | CATALOG NUMBER STAINLESS STEEL | CATALOG NUMBER EPOXY COATED | PKG. QTY 3/4" & 1" TAPS | PKG. QTY. 1-1/4" - 2-1/2" TAPS | APPROX. WT. LBS. |
|----------------------|--------------|--------------------------------------|-----------------------------------|-------------------------------|--------------------------------------|------------------------|
| 4" | 4.80 | FS202-480-Tap | FC202-480-Tap | 6 | 6 | 5.4 |
| 6" | 6.90 | FS202-690-Tap | FC202-690-Tap | 5 | 4 | 5.7 |
| 8" | 9.05 | FS202-905-Tap | FC202-905-Tap | 6 | 4 | 8.2 |
| 10" | 11.10 | FS202-1110-Tap | FC202-1110-Tap | 3 | 3 | 9.0 |
| 12" | 13.20 | FS202-1320-Tap | FC202-1320-Tap | 3 | 3 | 11.5 |
| 14" | 15.30 | FS202-1530-Tap | FC202-1530-Tap | 1 | 1 | 11.9 |
| 16" | 17.40 | FS202-1740-Tap | FC202-1740-Tap | 1 | 1 | 13.1 |
| 18" | 19.50 | FS202-1950-Tap | FC202-1950-Tap | 1 | 1 | 13.1 |
| 20" | 21.60 | FS202-2160-Tap | FC202-2160-Tap | 1 | 1 | 13.2 |
| 24" | 25.80 | FS202-2580-Tap | FC202-2580-Tap | 1 | 1 | 13.9 |
| 30" | 32.00 | FS202-3200-Tap | FC202-3200-Tap | 1 | 1 | 14.8 |

FS202 and 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 FS202 style saddle for 12" Steel sized PVC with a 2" CC thread would be FS202-1275-CC7.

| NOM. PIPE SIZE | PIPE O.D. | CATALOG NUMBER STAINLESS STEEL | CATALOG NUMBER EPOXY COATED | PKG. QTY 3/4" & 1" TAPS | PKG. QTY. 1-1/4" - 2-1/2" TAPS | APPROX. WT. LBS. |
|----------------------|--------------|--------------------------------------|-----------------------------------|-------------------------------|--------------------------------------|------------------------|
| 4" | *4.50 | FS202-450-Tap | FC202-450-Tap | 6 | 6 | 5.4 |
| 6" | 6.63 | FS202-663-Tap | FC202-663-Tap | 5 | 4 | 5.7 |
| 8" | 8.63 | FS202-863-Tap | FC202-863-Tap | 6 | 4 | 6.8 |
| 10" | 10.75 | FS202-1075-Tap | FC202-1075-Tap | 3 | 3 | 9.4 |
| 12" | 12.75 | FS202-1275-Tap | FC202-1275-Tap | 3 | 3 | 11.0 |

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

OUTLET THREAD TAP CODE

| CC (AWWA) 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 |
| - | - | 2-1/2" | IP8 |

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

Ford Ductile Iron Service Saddles

Styles FSD202 and FCD202

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



Stainless Band



Stainless Band
& 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., FSD and FCD saddles meet the stipulations of AWWA and Uni-Bell for use on PVC pipe.

| NOM. PIPE SIZE | PIPE O.D. | CATALOG NUMBER STAINLESS STEEL | CATALOG NUMBER EPOXY COATED | CTN. QTY 3/4" & 1" TAPS | CTN. QTY. 1-1/4" - 2-1/2" TAPS | APPROX. WT. LBS. |
|----------------------|---------------|--------------------------------------|-----------------------------------|-------------------------------|--------------------------------------|------------------------|
| 2" | 2.35-2.50 | FSD202-250-Tap | FCD202-250-Tap | 8 | - | 2.8 |
| 2-1/2" | 2.75-2.90 | FSD202-290-Tap | FCD202-290-Tap | 8 | - | 2.8 |
| 3" | * 3.80 | FSD202-380-Tap | FCD202-380-Tap | 6 | 6 | 4.8 |
| | *3.80-4.25 | FSD202-425-Tap | FCD202-425-Tap | 6 | 6 | 5.5 |
| 4" | **4.26-4.80 | FSD202-480-Tap | FCD202-480-Tap | 6 | 6 | 5.4 |
| | ▲4.74-5.00 | FSD202-500-Tap | FCD202-500-Tap | - | 6 | 5.4 |
| | *4.74-5.26 | FSD202-526-Tap | FCD202-526-Tap | 6 | 6 | 5.4 |
| | ▲4.97-5.26 | FSD202-526-Tap | FCD202-526-Tap | - | 4 | 5.4 |
| 6" | 5.94-6.69 | FSD202-669-Tap | FCD202-669-Tap | 5 | 4 | 5.7 |
| | 6.63-6.90 | FSD202-690-Tap | FCD202-690-Tap | 4 | 4 | 5.7 |
| | 6.84-7.60 | FSD202-760-Tap | FCD202-760-Tap | 4 | 4 | 6.7 |
| 8" | 7.93-8.71 | FSD202-871-Tap | FCD202-871-Tap | 4 | 4 | 6.8 |
| | 8.63-9.05 | FSD202-905-Tap | FCD202-905-Tap | 3 | 5 | 8.2 |
| | 8.99-9.79 | FSD202-979-Tap | FCD202-979-Tap | 3 | 5 | 8.4 |
| 10" | 10.00-10.75 | FSD202-1075-Tap | FCD202-1075-Tap | 3 | 3 | 9.4 |
| | 10.75-11.10 | FSD202-1110-Tap | FCD202-1110-Tap | 3 | 3 | 9.0 |
| | 11.10-12.12 | FSD202-1212-Tap | FCD202-1212-Tap | 3 | 3 | 10.8 |
| 12" | 12.00-12.75 | FSD202-1275-Tap | FCD202-1275-Tap | 3 | 3 | 11.0 |
| | **12.75-13.20 | FSD202-1320-Tap | FCD202-1320-Tap | 3 | 3 | 11.5 |
| | 13.20-14.38 | FSD202-1438-Tap | FCD202-1438-Tap | 3 | 3 | 12.8 |
| 14" | ***15.30 | FSD202-1530-Tap | FCD202-1530-Tap | 1 | 1 | 11.9 |
| | 15.30-16.25 | FSD202-1625-Tap | FCD202-1625-Tap | 1 | 1 | 11.9 |
| | 16.30-17.25 | FSD202-1725-Tap | FCD202-1725-Tap | 1 | 1 | 12.9 |
| 16" | ***17.40 | FSD202-1740-Tap | FCD202-1740-Tap | 1 | 1 | 13.1 |
| | 17.40-18.40 | FSD202-1840-Tap | FCD202-1840-Tap | 1 | 1 | 13.1 |
| | 18.50-19.25 | FSD202-1925-Tap | FCD202-1925-Tap | 1 | 1 | 12.8 |
| 18" | ***19.50 | FSD202-1950-Tap | FCD202-1950-Tap | 1 | 1 | 13.1 |
| | 19.50-20.50 | FSD202-2050-Tap | FCD202-2050-Tap | 1 | 1 | 13.1 |
| 20" | ***21.60 | FSD202-2160-Tap | FCD202-2160-Tap | 1 | 1 | 13.2 |
| | 21.20-22.20 | FSD202-2220-Tap | FCD202-2220-Tap | 1 | 1 | 13.2 |
| | 22.50-23.50 | FSD202-2350-Tap | FCD202-2350-Tap | 1 | 1 | 13.3 |
| 24" | 23.80-24.80 | FSD202-2480-Tap | FCD202-2480-Tap | 1 | 1 | 13.4 |
| | ***25.80 | FSD202-2580-Tap | FCD202-2580-Tap | 1 | 1 | 13.9 |
| | 25.60-26.50 | FSD202-2650-Tap | FCD202-2650-Tap | 1 | 1 | 13.9 |
| 30" | ***32.00 | FSD202-3200-Tap | FCD202-3200-Tap | 1 | 1 | 14.8 |
| | 31.74-32.74 | FSD202-3274-Tap | FCD202-3274-Tap | 1 | 1 | 14.8 |

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

** These saddles with 1-1/4" through 2-1/2" taps fit the top of the listed range only.

Example: FSD202-1320-CC7 fits 13.20" pipe O.D. only.

*** Sized for C905 PVC.

▲ 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.

Fabricated Steel Saddles Styles FS202 and F202

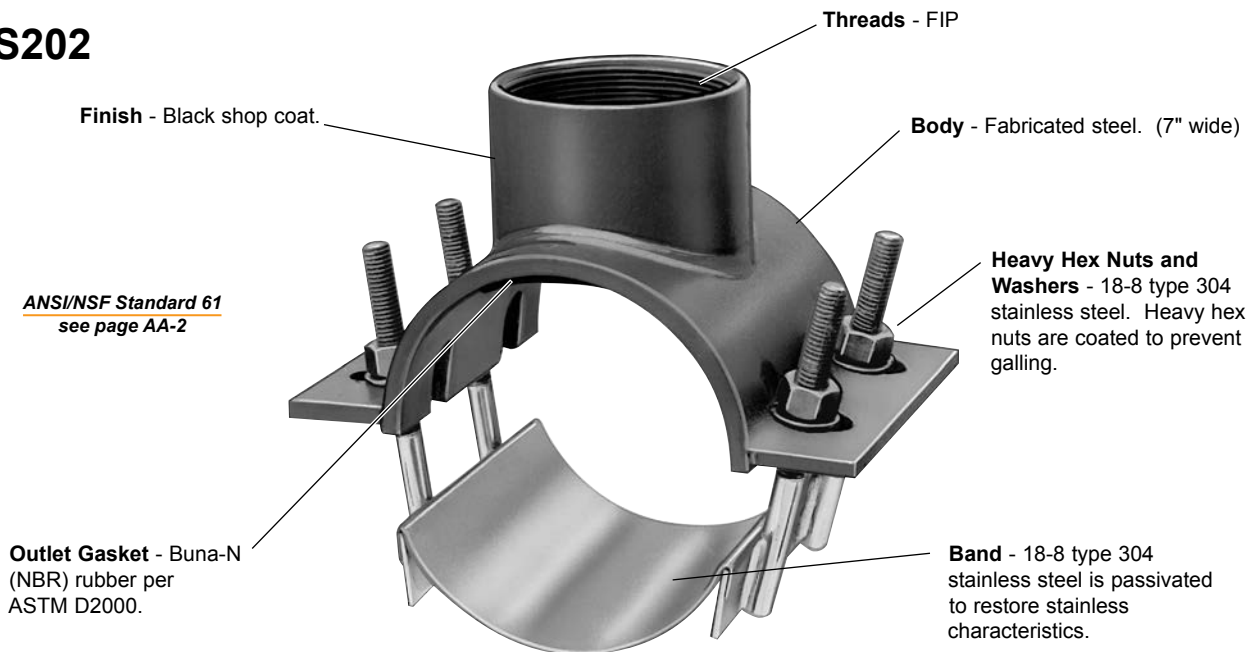
For 3" and 4" Taps

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.

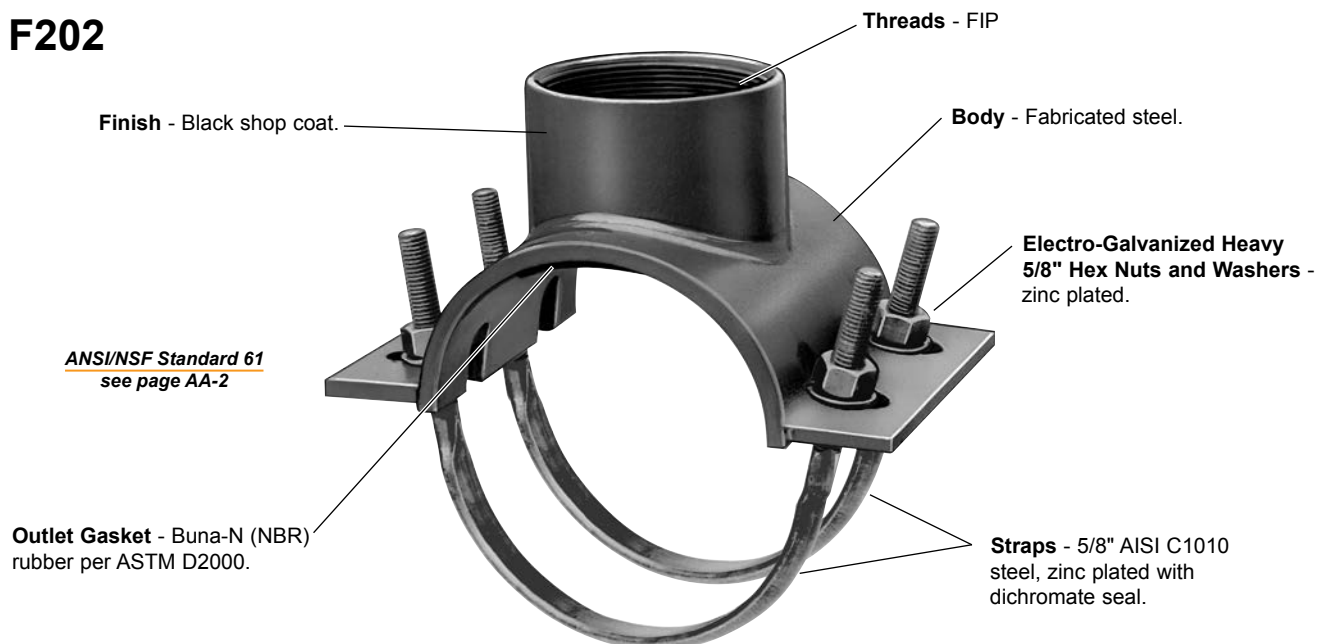
Ford recommends special fabricated FTS tapping sleeves for air release or vacuum valve applications above 150 psi. Contact Ford Meter Box customer service for more information.

Specifications

FS202



F202



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.

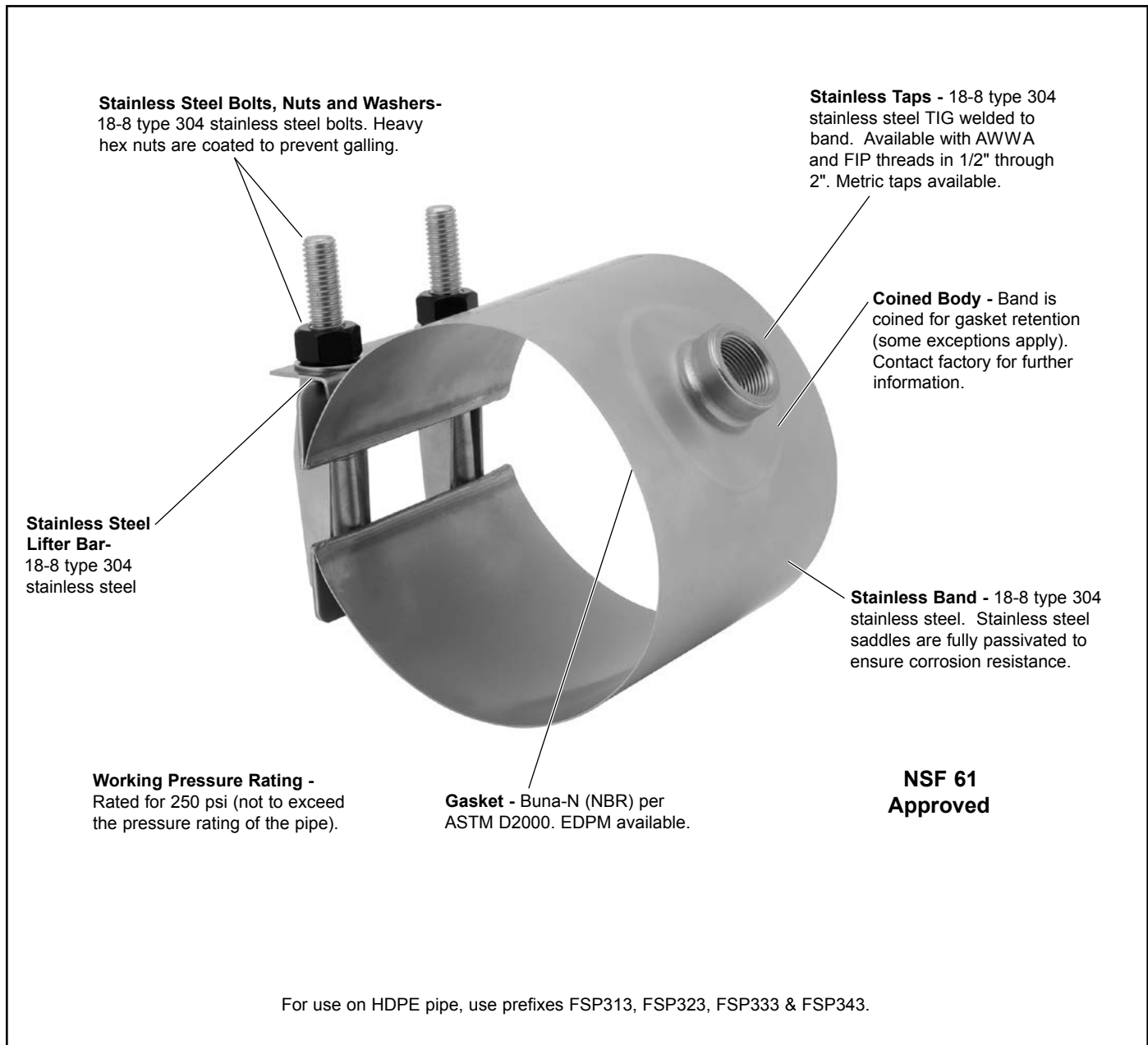
| NOM. PIPE SIZE | ACTUAL PIPE O.D. | TAP SIZE | STEEL STRAPS CATALOG NUMBER | STAINLESS BAND CATALOG NUMBER | EPOXY COATED CATALOG NUMBER | CTN. QTY. | APPROX. WT. LBS. |
|----------------------|------------------------|-------------|-----------------------------------|-------------------------------------|-----------------------------------|--------------|------------------------|
| 6" | 6.00 | 3" | F202-600-IP9 | FS202-600-IP9 | FC202-600-IP9 | 1 | 15.7 |
| | 6.00 | 4" | F202-600-IP11 | FS202-600-IP11 | FC202-600-IP11 | 1 | 16.1 |
| | 6.63 | 3" | F202-663-IP9 | FS202-663-IP9 | FC202-663-IP9 | 1 | 16.0 |
| | 6.63 | 4" | F202-663-IP11 | FS202-663-IP11 | FC202-663-IP11 | 1 | 16.3 |
| | 6.90 | 3" | F202-690-IP9 | FS202-690-IP9 | FC202-690-IP9 | 1 | 16.4 |
| | 6.90 | 4" | F202-690-IP11 | FS202-690-IP11 | FC202-690-IP11 | 1 | 16.7 |
| 8" | 8.00 | 3" | F202-800-IP9 | FS202-800-IP9 | FC202-800-IP9 | 1 | 16.6 |
| | 8.00 | 4" | F202-800-IP11 | FS202-800-IP11 | FC202-800-IP11 | 1 | 17.0 |
| | 8.63 | 3" | F202-863-IP9 | FS202-863-IP9 | FC202-863-IP9 | 1 | 16.9 |
| | 8.63 | 4" | F202-863-IP11 | FS202-863-IP11 | FC202-863-IP11 | 1 | 17.3 |
| | 9.05 | 3" | F202-905-IP9 | FS202-905-IP9 | FC202-905-IP9 | 1 | 17.2 |
| | 9.05 | 4" | F202-905-IP11 | FS202-905-IP11 | FC202-905-IP11 | 1 | 17.5 |
| 10" | 10.00 | 3" | F202-1000-IP9 | FS202-1000-IP9 | FC202-1000-IP9 | 1 | 18.0 |
| | 10.00 | 4" | F202-1000-IP11 | FS202-1000-IP11 | FC202-1000-IP11 | 1 | 19.1 |
| | 10.75 | 3" | F202-1075-IP9 | FS202-1075-IP9 | FC202-1075-IP9 | 1 | 18.4 |
| | 10.75 | 4" | F202-1075-IP11 | FS202-1075-IP11 | FC202-1075-IP11 | 1 | 19.5 |
| | 11.10 | 3" | F202-1110-IP9 | FS202-1110-IP9 | FC202-1110-IP9 | 1 | 18.8 |
| | 11.10 | 4" | F202-1110-IP11 | FS202-1110-IP11 | FC202-1110-IP11 | 1 | 19.7 |
| 12" | 12.00 | 3" | F202-1200-IP9 | FS202-1200-IP9 | FC202-1200-IP9 | 1 | 20.0 |
| | 12.00 | 4" | F202-1200-IP11 | FS202-1200-IP11 | FC202-1200-IP11 | 1 | 21.0 |
| | 12.75 | 3" | F202-1275-IP9 | FS202-1275-IP9 | FC202-1275-IP9 | 1 | 20.5 |
| | 12.75 | 4" | F202-1275-IP11 | FS202-1275-IP11 | FC202-1275-IP11 | 1 | 21.1 |
| | 13.20 | 3" | F202-1320-IP9 | FS202-1320-IP9 | FC202-1320-IP9 | 1 | 20.8 |
| | 13.20 | 4" | F202-1320-IP11 | FS202-1320-IP11 | FC202-1320-IP11 | 1 | 22.1 |
| 14" | 14.00 | 3" | N/A | FS202-1400-IP9 | FC202-1400-IP9 | 1 | 22.0 |
| | 14.00 | 4" | N/A | FS202-1400-IP11 | FC202-1400-IP11 | 1 | 23.0 |
| | 15.30 | 3" | N/A | FS202-1530-IP9 | FC202-1530-IP9 | 1 | 22.6 |
| | 15.30 | 4" | N/A | FS202-1530-IP11 | FC202-1530-IP11 | 1 | 23.4 |
| 16" | 16.00 | 3" | N/A | FS202-1600-IP9 | FC202-1600-IP9 | 1 | 23.5 |
| | 16.00 | 4" | N/A | FS202-1600-IP11 | FC202-1600-IP11 | 1 | 23.9 |
| | 17.40 | 3" | N/A | FS202-1740-IP9 | FC202-1740-IP9 | 1 | 23.7 |
| | 17.40 | 4" | N/A | FS202-1740-IP11 | FC202-1740-IP11 | 1 | 24.6 |
| | 17.80 | 3" | N/A | FS202-1780-IP9 | FC202-1780-IP9 | 1 | 23.8 |
| | 17.80 | 4" | N/A | FS202-1780-IP11 | FC202-1780-IP11 | 1 | 24.1 |
| 18" | 18.00 | 3" | N/A | FS202-1800-IP9 | FC202-1800-IP9 | 1 | 24.0 |
| | 18.00 | 4" | N/A | FS202-1800-IP11 | FC202-1800-IP11 | 1 | 24.4 |
| | 19.50 | 3" | N/A | FS202-1950-IP9 | FC202-1950-IP9 | 1 | 24.5 |
| | 19.50 | 4" | N/A | FS202-1950-IP11 | FC202-1950-IP11 | 1 | 24.9 |
| 20" | 20.00 | 3" | N/A | FS202-2000-IP9 | FC202-2000-IP9 | 1 | 24.9 |
| | 20.00 | 4" | N/A | FS202-2000-IP11 | FC202-2000-IP11 | 1 | 25.4 |
| | 21.60 | 3" | N/A | FS202-2160-IP9 | FC202-2160-IP9 | 1 | 25.0 |
| | 21.60 | 4" | N/A | FS202-2160-IP11 | FC202-2160-IP11 | 1 | 25.8 |
| 24" | 24.00 | 3" | N/A | FS202-2400-IP9 | FC202-2400-IP9 | 1 | 25.9 |
| | 24.00 | 4" | N/A | FS202-2400-IP11 | FC202-2400-IP11 | 1 | 26.3 |
| | 25.80 | 3" | N/A | FS202-2580-IP9 | FC202-2580-IP9 | 1 | 27.0 |
| | 25.80 | 4" | N/A | FS202-2580-IP11 | FC202-2580-IP11 | 1 | 27.5 |
| 30" | 30.00 | 3" | N/A | FS202-3000-IP9 | FC202-3000-IP9 | 1 | 28.3 |
| | 30.00 | 4" | N/A | FS202-3000-IP11 | FC202-3000-IP11 | 1 | 28.7 |
| | 32.00 | 3" | N/A | FS202-3200-IP9 | FC202-3200-IP9 | 1 | 29.9 |
| | 32.00 | 4" | N/A | FS202-3200-IP11 | FC202-3200-IP11 | 1 | 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



Ford Stainless Steel Saddles Style FS300

For 1/2" through 2" Taps

| Nom. Pipe Size | O.D. Range | Catalog Number | Bolt Size | Bolt Qty. | Band Width | | No. Of Sections | Approx. Wt. Lbs. By Tap Size | |
|----------------------|---------------|-------------------|--------------|--------------|------------|-------------|--------------------|---------------------------------|-------------|
| | | | | | 1/2" - 1" | 1-1/4" - 2" | | 1/2" - 1" | 1-1/4" - 2" |
| FS313 SINGLE BAND | | | | | | | | | |
| 2" | 2.38 | FS313-238-Tap | 1/2" | 1 | 4" | - | 1 | 1.9 | - |
| | 2.50-2.70 | FS313-270-Tap | | | | | | | |
| 2-1/2" | 2.88 | FS313-288-Tap | 1/2" | 1 | 4" | - | 1 | 1.9 | - |
| 3" | 3.50 | FS313-350-Tap | 1/2" | 1 | 4" | - | 1 | 2.2 | - |
| | 3.90-4.10 | FS313-410-Tap | | | | | | | |
| 4" | 4.50-4.80 | FS313-480-Tap | 1/2" | 2 | 6" | 7-1/2" | 1 | 3.3 | 3.9 |
| | 4.80-5.20 | FS313-520-Tap | | | | | | | |
| 5" | 5.56 | FS313-556-Tap | 5/8" | 2 | 6" | 7-1/2" | 1 | 4.4 | 4.8 |
| 6" | 6.00-6.40 | FS313-640-Tap | 5/8" | 2 | 6" | 7-1/2" | 1 | 4.7 | 5.1 |
| | 6.40-6.80 | FS313-680-Tap | | | | | | | |
| | 6.63-6.90 | FS313-690-Tap | | | | | | | |
| | 6.80-7.20 | FS313-720-Tap | | | | | | | |
| 8" | 8.00-8.40 | FS313-840-Tap | 5/8" | 2 | 6" | 7-1/2" | 1 | 5.2 | 5.8 |
| | 8.40-8.80 | FS313-880-Tap | | | | | | | |
| | 8.63-9.05 | FS313-905-Tap | | | | | | | |
| | 9.00-9.40 | FS313-940-Tap | | | | | | | |
| 10" | 10.00-10.40 | FS313-1040-Tap | 5/8" | 2 | 6" | 7-1/2" | 1 | 5.8 | 8.7 |
| | 10.75-11.10 | FS313-1110-Tap | | | | | | | |
| | 11.10-11.50 | FS313-1150-Tap | | | | | | | |
| 12" | 12.00-12.40 | FS313-1240-Tap | 5/8" | 2 | 6" | 7-1/2" | 1 | 6.4 | 9.3 |
| | 12.75-13.20 | FS313-1320-Tap | | | | | | | |
| | 13.10-13.50 | FS313-1350-Tap | | | | | | | |
| FS323 DOUBLE BAND | | | | | | | | | |
| 4" | 4.74-5.54 | FS323-554-Tap | 5/8" | 4 | 6" | 7-1/2" | 2 | 5.2 | 5.7 |
| 6" | 6.40-7.20 | FS323-720-Tap | 5/8" | 4 | 6" | 7-1/2" | 2 | 5.1 | 5.8 |
| 8" | 8.40-9.20 | FS323-920-Tap | 5/8" | 4 | 6" | 7-1/2" | 2 | 6.3 | 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" | 14.00-14.80 | FS323-1480-Tap | 5/8" | 4 | 6" | 7-1/2" | 2 | 10.0 | 12.0 |
| | 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 | 5/8" | 4 | 6" | 7-1/2" | 2 | 10.0 | 12.0 |
| 16" | 15.75-16.55 | FS323-1655-Tap | 5/8" | 4 | 6" | 7-1/2" | 2 | 10.5 | 12.5 |
| | 16.40-17.20 | FS323-1720-Tap | 5/8" | 4 | 6" | 7-1/2" | 2 | 10.5 | 12.5 |
| | 17.20-18.00 | FS323-1800-Tap | 5/8" | 4 | 6" | 7-1/2" | 2 | 10.5 | 12.5 |
| 18" | 17.60-18.40 | FS323-1840-Tap | 5/8" | 4 | 6" | 7-1/2" | 2 | 10.5 | 12.5 |
| | 18.00-18.80 | FS323-1880-Tap | 5/8" | 4 | 6" | 7-1/2" | 2 | 10.5 | 12.5 |
| | 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 | 5/8" | 4 | 6" | 7-1/2" | 2 | 10.5 | 12.5 |
| | 19.20-20.00 | FS323-2000-Tap | 5/8" | 4 | 6" | 7-1/2" | 2 | 10.5 | 12.5 |
| FS333 TRIPLE BAND | | | | | | | | | |
| 20" | 21.40-22.60 | FS333-2260-Tap | 5/8" | 6 | 6" | 7-1/2" | 3 | 14.5 | 17.0 |
| | 22.80-24.00 | FS333-2400-Tap | 5/8" | 6 | 6" | 7-1/2" | 3 | 14.5 | 17.0 |
| | 23.45-24.65 | FS333-2465-Tap | 5/8" | 6 | 6" | 7-1/2" | 3 | 14.5 | 17.0 |
| 24" | 24.45-25.65 | FS333-2565-Tap | 5/8" | 6 | 6" | 7-1/2" | 3 | 15.5 | 17.5 |
| | 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 | 5/8" | 6 | 6" | 7-1/2" | 3 | 15.5 | 17.5 |
| 30" | 29.40-30.60 | FS333-3060-Tap | 5/8" | 6 | 6" | 7-1/2" | 3 | 17.0 | 19.5 |
| | 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 | 5/8" | 6 | 6" | 7-1/2" | 3 | 17.0 | 19.5 |
| FS343 QUAD BAND | | | | | | | | | |
| 36" | 35.80-37.00 | FS343-3700-Tap | 5/8" | 8 | 6" | 7-1/2" | 4 | 21.0 | 24.0 |
| | 37.50-38.70 | FS343-3870-Tap | 5/8" | 8 | 6" | 7-1/2" | 4 | 21.0 | 24.0 |

Other sizes and ranges available. Contact factory for details.

OUTLET THREAD TAP CODE

| CC (AWWA) Thread | | FIP Thread | |
|------------------|------|------------|------|
| 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 |

*Contact factory for availability

For use on HDPE pipe, use prefixes FSP313, FSP323, FSP333 & FSP343.

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.

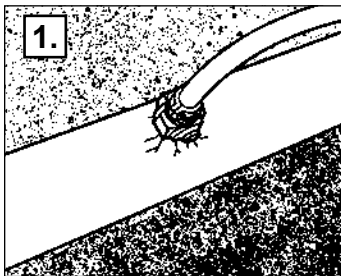
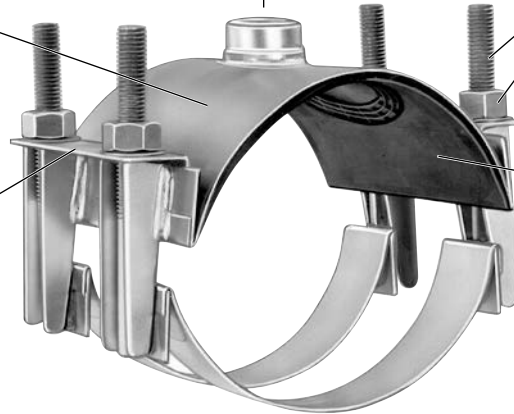
Outlet - 18-8 type 304 stainless steel available in 3/4" through 2" FIP or AWWA.

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

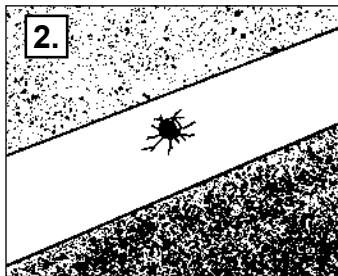
Lifter Bar - 18-8 type 304 stainless steel provides a heavy bearing surface for nuts.

Gasket - Tapered Buna-N with circular grid as per ASTM D2000.

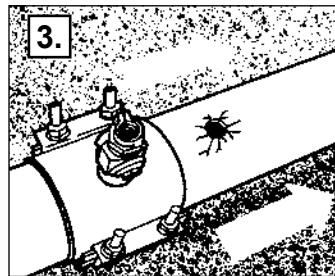
Pressure Rating - The Ford FRS stainless steel repair saddle is rated for 150 psi working water pressure.



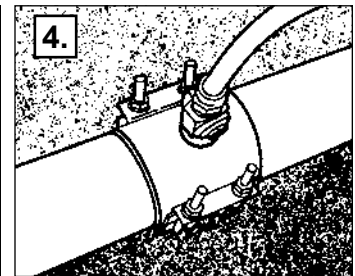
1. Confirm the leak location by cleaning and examining pipe.



2. Shut off the water supply and remove the corporation stop from the pipe.



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



4. 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. PIPE SIZE | O.D. RANGE | CATALOG NUMBER | APPROX. WT. LBS. | BAND | |
|----------------------|---------------|-------------------|------------------------|----------|-------|
| | | | | QUANTITY | WIDTH |
| 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" |
| | 11.50-12.25 | FRS202-1225-Tap | 12.3 | 2 | 2" |
| 12" | 13.10-13.90 | FRS202-1390-Tap | 13.9 | 2 | 2" |
| | 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" |
| | 25.60-26.40 | FRS202-2640-Tap | — | 1 | 7" |

OUTLET THREAD TAP CODE

| CC (AWWA) 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 |

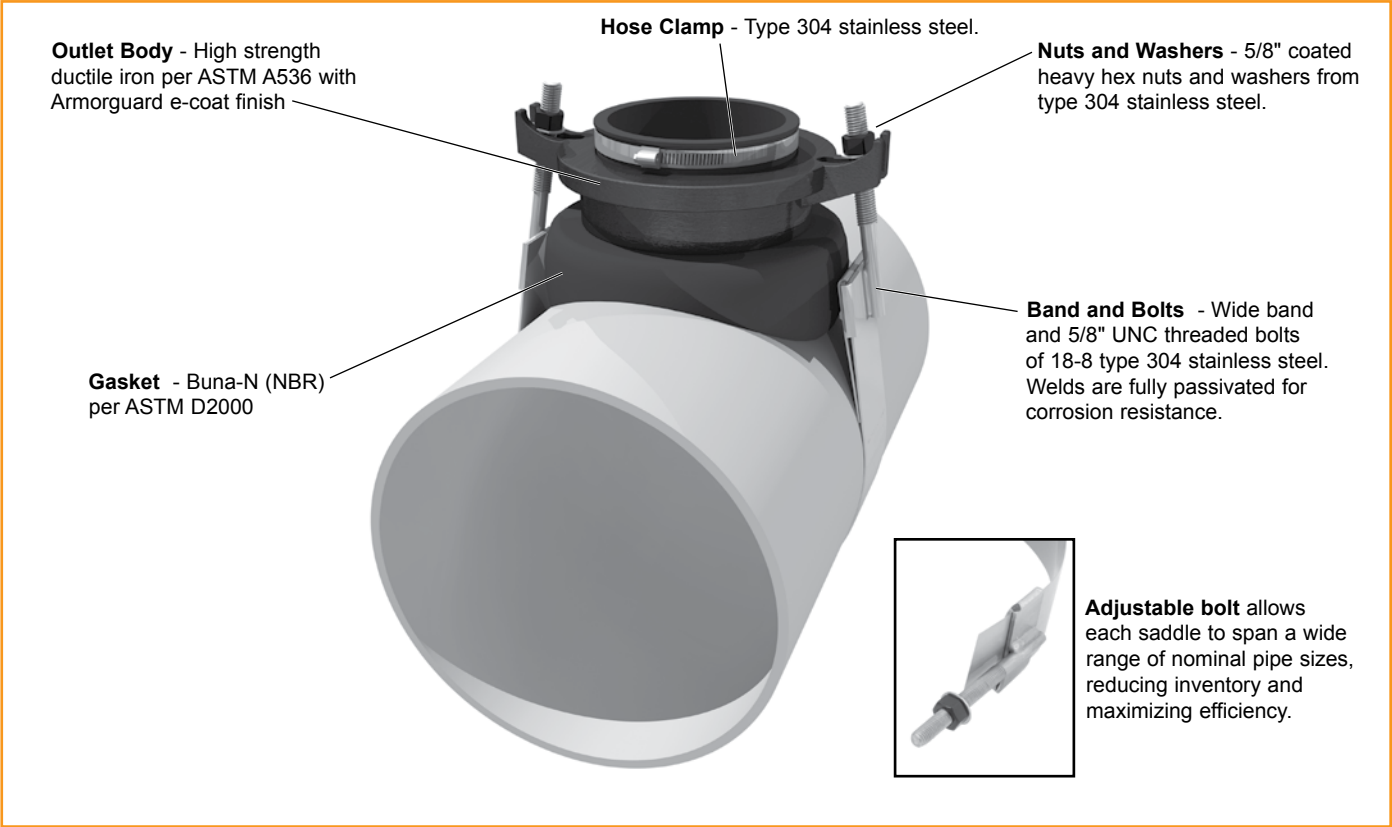
*Contact factory for availability

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" | 4" | 4.20" - 4.80" | 10.3 |
| FSS-2580-4 | 14.40" - 25.80" | | | 11.5 |
| FSS-5080-4 | 25.80" - 50.80" | | | 13.1 |
| FSS-1440-6 | 8.00" - 14.40" | 6" | 6.27" - 6.66" | 12.1 |
| FSS-2580-6 | 14.40" - 25.80" | | | 13.2 |
| FSS-5080-6 | 25.80" - 50.80" | | | 15.3 |

O.D. Chart

| PIPE SIZE | PVC/HDPE (Steel Size) | PVC/HDPE C900/C905 | DUCTILE / CAST IRON | | | ASBESTOS-CEMENT | | | STEEL | | COPPER |
|--------------|--------------------------|-----------------------|---------------------|-----------|-------|-----------------|----------------------|--------------------------------|-------|-------|--------|
| | O.D. | O.D. | Classes | | O.D. | Class | Machined End O.D. | Rough Barrel O.D. Min - Max | Type | O.D. | O.D. |
| | | | Pit | Spun | | | | | | | |
| 1/2" | .84 | | | | | | | | STD. | .84 | .625 |
| 3/4" | 1.05 | | | | | | | | STD. | 1.05 | .875 |
| 1" | 1.32 | | | | | | | | STD. | 1.32 | 1.125 |
| 1-1/4" | 1.66 | | | | | | | | STD. | 1.66 | 1.375 |
| 1-1/2" | 1.90 | | | | | | | | STD. | 1.90 | 1.625 |
| 2" | 2.38 | | | | 2.50 | | | | STD. | 2.38 | 2.125 |
| 2-1/2" | 2.88 | | | | | | | | STD. | 2.88 | 2.625 |
| 3" | 3.50 | | A | | 3.80 | 100 | 3.74 | 4.00 | O.D. | 3.00 | 3.125 |
| | | | B, C, D | 50 - 350 | 3.96 | 150 | 3.84 | 4.10 | STD. | 3.50 | |
| | | | | | | 200 | 3.84 | 4.29 | | | |
| 3-1/2" | | | | | | | | | STD. | 4.00 | 3.625 |
| 4" | 4.50 | 4.80 | A | 50 - 350 | 4.80 | 100 | 4.64 | 4.79 - 5.14 | O.D. | 4.00 | 4.125 |
| | | | B, C, D | | 5.00 | 150 | 4.81 | 4.97 - 5.27 | STD. | 4.50 | |
| | | | | | | 200 | 4.81 | 5.22 - 5.57 | | | |
| 4-1/2" | | | | | | | | | STD. | 5.00 | |
| 5" | | | | | | | | | STD. | 5.56 | 5.125 |
| 6" | 6.63 | 6.90 | A | 50 - 350 | 6.90 | 100 | 6.91 | 7.05 - 7.40 | O.D. | 6.00 | 6.125 |
| | | | B, C, D, | | 7.10 | 150 | 6.91 | 7.07 - 7.37 | STD. | 6.63 | |
| | | | E, F | | 7.22 | 200 | 6.91 | 7.26 - 7.56 | | | |
| 7" | | | | | | | | | STD. | 7.63 | |
| 8" | 8.63 | 9.05 | A, B, | 50 - 300 | 9.05 | 100 | 9.11 | 9.22 - 9.57 | O.D. | 8.00 | |
| | | | C, D, | 350 | 9.30 | 150 | 9.11 | 9.27 - 9.57 | STD. | 8.63 | |
| | | | E, F | | 9.42 | 200 | 9.11 | 9.39 - 9.74 | | | |
| 9" | | | | | | | | | STD. | 9.63 | |
| 10" | 10.75 | 11.10 | A, B, | 50 - 200 | 11.10 | 100 | 11.24 | 11.42 - 11.77 | O.D. | 10.00 | |
| | | | C, D, | 250 - 350 | 11.40 | 150 | 11.66 | 11.82 - 12.12 | STD. | 10.75 | |
| | | | E, F | | 11.60 | 200 | 11.66 | 11.77 - 12.12 | | | |
| 12" | 12.75 | 13.20 | A, B, | 50 - 200 | 13.20 | 100 | 13.44 | 13.69 - 14.04 | O.D. | 12.00 | |
| | | | C, D, | 250 - 350 | 13.50 | 150 | 13.92 | 14.08 - 14.38 | STD. | 12.75 | |
| | | | E, F | | 13.76 | 200 | 13.92 | 14.03 - 14.38 | | | |
| 14" | 14.00 | 15.30 | A, B, | 50 - 100 | 15.30 | 100 | 15.07 | 15.40 - 15.80 | STD. | 14.00 | |
| | | | C, D, | 150 - 300 | 15.65 | 150 | 16.22 | 16.38 - 16.73 | | | |
| | | | E, F | | 15.98 | 200 | 16.22 | 16.48 - 16.88 | | | |
| 16" | 16.00 | 17.40 | A, B, | 50 - 100 | 17.40 | 100 | 17.14 | 17.54 - 17.94 | STD. | 16.00 | |
| | | | C, D, | 150 - 300 | 17.80 | 150 | 18.46 | 18.62 - 18.97 | | | |
| | | | E, F | | 18.16 | 200 | 18.46 | 18.79 - 19.19 | | | |
| 18" | 18.00 | 19.50 | A, B | 50 - 100 | 19.50 | 100 | 19.90 | 20.44 | STD. | 18.00 | |
| | | | C, D | 150 - 250 | 19.92 | 150 | 20.94 | 21.20 | | | |
| | | | | | | 200 | 22.18 | | | | |
| 20" | 20.00 | 21.60 | A, B, | 50 - 100 | 21.60 | 100 | 22.12 | 22.50 | STD. | 20.00 | |
| | | | C, D | 150 - 250 | 22.06 | 150 | 23.28 | 23.54 | | | |
| | | | | | | 200 | 24.66 | | | | |
| 22" | | | | | | | | | STD. | 22.00 | |
| 24" | 24.00 | 25.80 | A, B, | 50 - 100 | 25.80 | 100 | 26.48 | 27.17 | STD. | 24.00 | |
| | | | C, D | 150 - 250 | 26.32 | 150 | 27.96 | 28.22 | | | |
| | | | | | | 200 | 29.62 | | | | |
| 30" | 30.00 | 32.00 | A | | 31.74 | | | | STD. | 30.00 | |
| | | | B | 50 - 350 | 32.00 | | | | | | |
| | | | C | | 32.40 | | | | | | |
| | | | D | | 32.74 | | | | | | |
| 36" | 36.00 | 38.30 | A | | 37.96 | | | | STD. | 36.00 | |
| | | | B | 50 - 350 | 38.30 | | | | | | |
| | | | C | | 38.70 | | | | | | |
| | | | D | | 39.16 | | | | | | |
| 42" | | 44.50 | A | | 44.20 | | | | STD. | 42.00 | |
| | | | B | 50 - 350 | 44.50 | | | | | | |
| | | | C | | 45.10 | | | | | | |
| | | | D | | 45.58 | | | | | | |
| 48" | | 50.80 | A | | 50.50 | | | | STD. | 48.00 | |
| | | | B | 50 - 350 | 50.80 | | | | | | |
| | | | C | | 51.40 | | | | | | |
| | | | D | | 51.98 | | | | | | |
| 54" | | | A | | 56.66 | | | | STD. | 54.00 | |
| | | | B | | 57.10 | | | | | | |
| | | | | 50 - 350 | 57.56 | | | | | | |
| | | | C | | 57.80 | | | | | | |
| 60" | | | D | | 58.40 | | | | STD. | 60.00 | |
| | | | | 50 - 350 | 61.61 | | | | | | |
| | | | A | | 62.80 | | | | | | |
| | | | B | | 63.40 | | | | | | |
| | | | C | | 64.20 | | | | | | |
| | | | D | | 64.82 | | | | | | |

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.

Please Note:

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



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