

Many No-Lead products meet ANSI/NSF Standard 61 Annex G (or proposed ANSI/NSF Standard 372).

The Ford Square Design for Conventional Plug-Type Corporation Stops



As shown above, the Ford “square” design for conventional plug-type Corporation Stop provides larger, more rugged wrench flats. During the installation of almost every Corporation Stop, a wrench must be used across its body to make final adjustments in the main or saddle, or to connect the service line to its outlet. The Ford “square” design puts the wrench flats where they should be – at the strongest part of the body, thus minimizing the danger of leaks from distortion. These larger wrench flats also provide a more secure grip, resulting in less danger of injuring knuckles and hands. *Plug-type Corporation Stops are designed for a maximum working pressure of 100 psi in the 3/4" and 1" sizes. See AWWA Standard C800.*

Information

Ford Corporation Stops

The Revolutionary Ford Ballcorp Corporation Stop



This field-proven Corporation Stop incorporates the performance-proven design features of the popular Ford Ball Valve. It reduces the inherent problems of hard turning and of temporary weeping under high test pressures, which is sometimes encountered in standard plug-type Corporation Stops. The Ford Ballcorp is available in 3/4", 1", 1-1/4", 1-1/2", and 2" sizes, with most styles of outlet connections. It may be installed in either a dry main or a main under pressure with a standard tapping machine or saddle. The large wrench flat assures ease of final adjustment in the main as well as ease in connecting the service line to the stop. *Ford Ballcorp Corporation Stops are designed to withstand working pressures up to 300 psi.*

Ford Corporation Stop Numbering System

TYPE OF CORPORATION STOP

- F** = Key/Plug Corporation Stop
- FB** = Ford Ballcorp Corporation Stop
- FBRW** = Ford Ballcorp Corporation Stop embossed with “Reclaimed Water”

NOTE: 1-1/4", 1-1/2" and 2" sizes are available only as Ford Ballcorp Corporations.

CORPORATION STOP SIZE

- 1** = 1/2"
- 2** = 5/8"
- 3** = 3/4"
- 4** = 1"
- 5** = 1-1/4"
- 6** = 1-1/2"
- 7** = 2"

CORPORATION STOP SIZE BY INCREASED OUTLET CONNECTION SIZE

- 23** = 5/8"x3/4"
- 34** = 3/4"x1"
- 45** = 1"x1-1/4"
- 56** = 1-1/4"x1-1/2"
- 67** = 1-1/2"x2"
- 78** = 2"x2-1/2"

F 1 0 0 0 - 3 - G

INLET AND OUTLET CONNECTION TYPE

Inlet		Outlet
AWWA	MIP	
200	300	Male Coupling Thread with Inside Driving Thread
400	500	Male Iron Pipe
600	700	Flare Copper
800	900	Increased MIP with Inside Driving Thread
1000	1100	Pack Joint for Copper or Plastic Tubing (CTS)
1001	1101	Pack Joint for PE Pipe
1002	1102	Pack Joint for PVC Pipe
1600	1700	Female Iron Pipe

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

OPTIONS

- G** = Grip Joint (3/4"-2" CTS and 3/4" & 1" PEP)
- IDR7** = Pack Joint for 1-1/2" and 2" PEP requires dimension ratio designation
- NL** = No Lead Alloy*
- Q** = Quick Joint (for indicated items)
- TA** = Tee-Head Adapter for 1-1/4", 1-1/2" and 2" Ballcorp
- TW-Q** = CTS Quick Joint Nut with Tracer Wire Terminal
- U-ANWT** = Ultra-Tite Coupling (assembled to Corporation Stop hand tight)

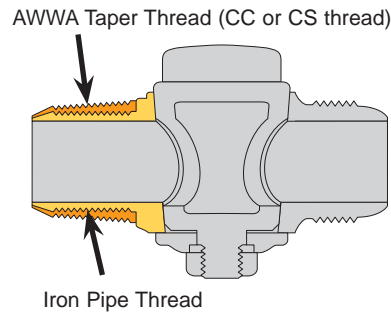
* Brass products manufactured from UNS/CDA No. C89833 alloy, containing no more than 0.10% total lead content by weight, are available. Only brass components in contact with potable water shall be manufactured from the UNS/CDA No. C89833 alloy. Add “-NL” to the end of the catalog number. See note on page A-2.

Specifications

Ford Corporation Stops are designed and manufactured to conform with AWWA Standard C800. This specification covers thread dimensions, the metal alloy (red brass: 85-5-5-5), and the pressure rating for plug style valves. All Ford Stops are individually inspected and tested for leaks with air pressure. They are all compatible with tapping machines of current design.

Inlet Threads

Two types of inlets are available on Ford Corporation Stops, both the conventional plug-type and the Ford Ballcorp Corporation Stop. The AWWA standard thread has a steeper taper than iron pipe threads. When ordering, please use the catalog number applying to type of inlet threads desired.



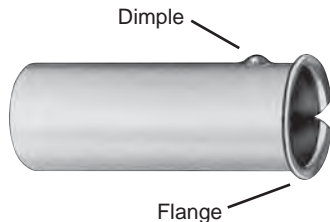
Outlet Connections

Outlet threads on both plug-type and Ford Ballcorp Corporation Stops conform to the following tables in AWWA Standard C800. Series 400, 500, 800, and 900 conform to Table 8; Series 600 and 700 conform to Table 4. Internal driving threads in the 200, 300, 800, and 900 series conform to Table 9.

Plug type and Ford Ballcorp Corporation Stops are available with outlet Pack Joints, Grip Joints, Quick Joints and Ultra-Tite Couplings - see pages 6 and 7 for additional information.

Insert Stiffeners

Many No-Lead products meet ANSI/NSF Standard 61 Annex G (or proposed ANSI/NSF Standard 372).



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

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

NOTE: Consult pipe or tubing manufacturer for specific installation requirements. Ford recommends using insert stiffeners when using plastic pipe or tubing, except for Ultra-Tite compression fittings.

50 Series For Polyethylene Tubing (PET)

CATALOG NUMBER	NOMINAL SIZE	PET ID	APPROX. WT. LBS.*	STD. PKG. QTY.
INSERT-51	3/4"	.681	4.8	200
INSERT-52	1"	.875	4.2	100
** INSERT-53-72	1-1/4"	1.069	2.4	50
**♦ INSERT-53-72-Q	1-1/4"	1.069	2.4	50
INSERT-54	1-1/2"	1.263	3.1	25
INSERT-55	2"	1.653	6.0	40
♦INSERT-54-Q	1-1/2"	1.263	2.6	30
♦INSERT-55-Q	2"	1.653	5.8	50

70 series For Polyethylene Pipe (PEP)

CATALOG NUMBER	NOMINAL SIZE	PEP ID	APPROX. WT. LBS.*	STD. PKG. QTY.
INSERT-71	3/4"	.824	4.4	100
** INSERT-53-72	1"	1.049	2.9	50
**♦ INSERT-53-72-Q	1"	1.049	2.9	50
INSERT-73	1-1/4"	1.380	5.8	75
INSERT-74	1-1/2"	1.610	5.5	45
INSERT-75	2"	2.067	9.7	50

Inserts For OD Controlled PE 3408 High Density Polyethylene (HDPE)

CATALOG NUMBER	NOMINAL SIZE AND PIPE TYPE	DR	HDPE OD	NOMINAL ID
INSERT-51	3/4" CTS	9	0.875	0.68
INSERT-52	1" CTS	9	1.125	0.88
▲ INSERT-81-200	3/4" CTS	11	0.875	0.71
INSERT-73-DR11	1-1/4" IPS	11	1.660	1.34
INSERT-74-DR11	1-1/2" IPS	11	1.900	1.53
INSERT-75-DR11	2" IPS	11	2.375	1.92

▲ INSERT-81-200 does not have dimples.

- * Weights for Insert Stiffeners are for standard package quantities.
- ** Insert-53 and Insert-72 fit both 1-1/4" plastic tubing (1.069 I.D.) and 1" plastic pipe (1.049 I.D.)
- ♦ These Inserts are specially designed and required for Quick Joint Fittings. They are not interchangeable with other compression fittings.

DIMENSION COMPARISON TABLE FOR PLASTIC, COPPER AND GALVANIZED IRON

PIPE AND TUBING TYPE	PSI	SDR	CONTROL	O.D.						I.D.						
				1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	
Copper	-	-	-	OD	.625	.875	1.125	1.375	1.625	2.125	-	-	-	-	-	-
PET	PE3408 200 PE4710 250	SDR9	OD	-	.625	.875	1.125	1.375	1.625	2.125	-	.681	.875	1.069	1.263	1.653
PEP	PE3408 200 PE4710 250															
PVC	-	-	-	OD	.840	1.050	1.315	1.660	1.900	2.375	-	-	-	-	-	-
Galv IP	-	-	-	OD	.840	1.050	1.315	1.660	1.900	2.375	-	-	-	-	-	-

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

Drilling Machine Adapters

**Table of Recommended Drill Sizes
for installation of Corporation Stops in Service Clamps or Saddles
with a Drilling Machine**

CORPORATION STOP SIZE	1/2"	5/8"	5/8"x3/4"	3/4"	3/4"x1"	1"	1-1/4"	1-1/2"	2"
Maximum Drill Size for Stop with AWWA thread inlet	7/16"	9/16"	9/16"	11/16"	11/16"	15/16"	1-3/16"	1-7/16"	1-7/8"
Maximum Drill Size for Stop with iron pipe thread inlet	7/16"	-	-	11/16"	11/16"	7/8"	1-3/16"	1-7/16"	1-7/8"

Recommended Drilling Machine Adapters

SIZE	FORD CORPORATION NUMBER	OUTLET THREADS	MUELLER		ROMAC	RIDGID	REED	FORD
			E-4 & E-5	D-4 & D-5	TAPMATE TOO	MLT3401	DM1100	MODEL 77
1/2"	F1000	1/2" Fl. Copper	63796	-	-	-	-	DMA2-1
5/8" X 3/4"	F1000	3/4" Fl. Copper	52019	37902	351-05-506	92097	08423	DMA2-3
3/4"	F (or FB) 1000, 1100							
3/4"	F (or FB) 1001, 1101, 1002, 1102	1" Fl. Copper	36750	37903	351-05-508	92102	08424	DMA2-4
3/4" x 1"	F (or FB) 1000, 1100							
1"	F (or FB) 1000, 1100							
3/4" x 1"	F1001, F1101, F1002, F1102	1-1/4" Fl. Copper	45385	37904	351-05-510	92107	-	DMA2-5
1"	F (or FB) 1001, 1101, 1002, 1102							
1" x 1-1/4"	F (or FB) 1000, 1100							
1-1/4"	FB1000, FB1100							
1-1/4" x 1-1/2"	FB1001, FB1101, FB1002, FB1102	1-1/2" Fl. Copper	501947	37905	351-05-512	92112	08425	DMA2-6
1-1/2"	FB1000, FB1100, FB1002, FB1102							
	FB1001, FB1101							
1-1/2" x 2"	FB1000, FB1100	2" Fl. Copper	508201	37906	351-05-516	92117	08426	DMA2-7
2"	FB1000, FB1100							
	FB1001, FB1101, FB1002, FB1102							
SPECIAL ADAPTERS								
3/4"	F (or FB) 1001-3-Q, 1101-3-Q	Special Thread	508919	508917	-	-	08423	DMA6-3-Q
1"	F (or FB) 1001-4-Q, 1101-4-Q		508920	508918	-	-	08424	DMA6-4-Q
1-1/2"	FB1000-6-Q, FB1100-6-Q		501949	507644	351-05-712	92157	08431	DMA4-6-Q
1-1/4"	FB1000-5-Q, FB1100-5-Q		-	-	-	-	-	DMA4-5F-Q
2"	FB1000-7-Q, FB1100-7-Q		508199	507645	351-05-716	92162	08432	DMA4-7-Q

Recommended Tapping/Inserting Machine Adapters

SIZE	FORD CORPORATION NUMBER	OUTLET THREADS	MUELLER			REED	RIDGID
			B-100 & B-101	B	A-2 & A-3	TM100	MLT3401
5/8" X 3/4"	F1000	3/4" Fl. Copper	680600	680600	680600	98423	92182
3/4"	F (or FB) 1000, 1100						
3/4"	F (or FB) 1001, 1101, 1002, 1102	1" Fl. Copper	680601	680601	680601	98424	92187
3/4" x 1"	F (or FB) 1000, 1100						
1"	F (or FB) 1000, 1100						
3/4" x 1"	F1001, F1101, F1002, F1102	1-1/4" Fl. Copper	680602	-	680602	-	-
1"	F (or FB) 1001, 1101, 1002, 1102						
1" x 1-1/4"	F (or FB) 1000, 1100						
1-1/4"	FB1000, FB1100						
1-1/4" x 1-1/2"	FB1001, FB1101, FB1002, FB1102	1-1/2" Fl. Copper	-	-	88640	-	-
1-1/2"	FB1000, FB1100, FB1002, FB1102						
	FB1001, FB1101						
1-1/2" x 2"	FB1000, FB1100	2" Fl. Copper	-	-	88641	-	-
2"	FB1000, FB1100						
	FB1001, FB1101, FB1002, FB1102						
SPECIAL ADAPTERS							
3/4"	F (or FB) 1001-3-Q, 1101-3-Q	Special Thread	680688	-	-	98423	-
1"	F (or FB) 1001-4-Q, 1101-4-Q		680689	-	680689	98424	-
1-1/2"	FB1000-6-Q, FB1100-6-Q		-	-	680421	-	-
2"	FB1000-7-Q, FB1100-7-Q		-	-	680422	-	-

WARNING: Some tapping machine adapters, furnished by the tapping machine manufacturers, are not threaded all the way to the bottom of the adapter. This can cause problems when installing Ford Pack Joint and Grip Joint style Corporation Stops. If your adapter is not threaded to the bottom, a free washer for your screw plug adapter is available. See page 21.

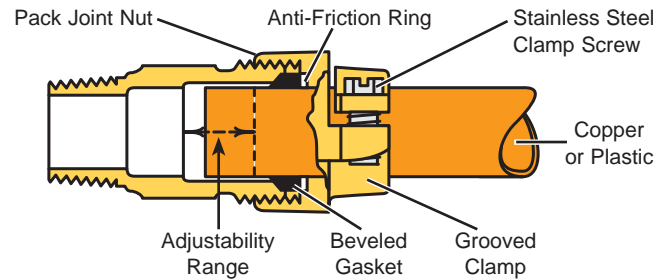
*Ford Pack Joint Couplings

Pack Joint Connections - How the Pack Joint Works

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

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

FOR COPPER, PET, PEP OR PVC
(Metal inserts to be used with PET or PEP)



*Ford Quick Joint Couplings

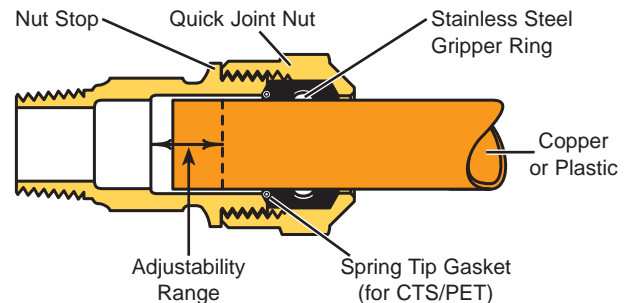
The Ford Quick Joint offers traditional Ford features of quality and reliability. This easy to use fitting is available on a wide variety of Ford products. Just stab the copper or plastic tubing into the fitting and tighten down the compression nut to the external stop. That's it! The Quick Joint provides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

The Ford Quick Joint Connections - How the Quick Joint Works

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

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

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



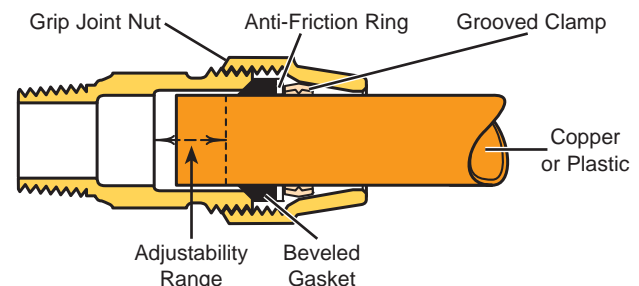
*Ford Grip Joint Couplings

Grip Joint Connections - How the Grip Joint Works

1. Tightening the Grip Joint Nut compresses an EPDM beveled gasket to make it watertight around the pipe or tubing.
2. The bronze split ring is drawn down when the nut is tightened, providing the mechanical seal and lock on the pipe.
3. Grip Joint Couplings are manufactured for copper and PET or 3/4" and 1" PEP.

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

**ONE STEP COUPLING
FOR COPPER, PET OR PEP**
(Metal inserts to be used with PET or PEP)



* See table on page 4 for recommended PE pipe and tubing.

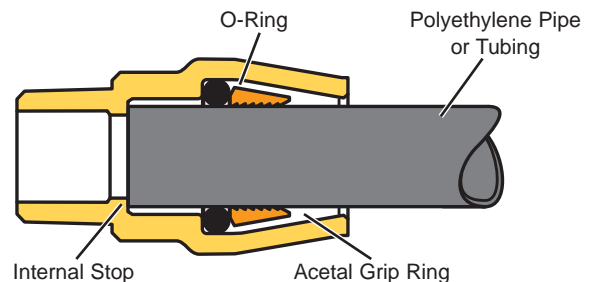
Ford Ultra-Tite Couplings*

The Ford Ultra-Tite compression coupling provides an immediate lock onto Polyethylene Pipe (PEP/IPS) or Polyethylene Tubing (PET/CTS) when inserted to the internal stop.

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

1. An integral stop within the coupling ensures full pipe insertion.
2. The directional serrations of the plastic grip ring engage the outside diameter of the pipe or tubing providing a mechanical seal and lock.
3. The internal O-ring provides a hydraulic seal.

STAB COUPLING FOR 3/4" AND 1" PEP AND PET (No insert required or recommended.)



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

Ultra-Tite couplings on corporation stops are assembled hand tight and must be removed for drilling or tapping machine adaptation to corporation stop outlet thread. Once the tap is made, the Ultra-Tite should be securely tightened to the corporation stop outlet thread.

Code Marks for Ford Coupling Nuts



- CTS- Copper and PET
- PEP- PE pipe
- PVC- PVC pipe

Types of Pipe and Tubing – Explanation of Abbreviations

Copper Tube - CTS - Copper tubing is widely used as a service line and the **outside diameter** is closely held by manufacturers. The outside diameter of copper tubing has become a standard in the industry and is known as “copper tube size.”

Plastic Tubing - CTS - Flexible water service tubing in what is referred to as “copper tube size.” Plastic Tube refers to *any* plastic with the same **outside diameter** as corresponding sizes of copper tube.

PET – Polyethylene tubing

Plastic Pipe - PEP - Flexible water service pipe in what is referred to as “pipe size.” Plastic Pipe refers to *any* pipe having the same **inside diameter** as corresponding sizes of standard iron pipe.

PEP – Polyethylene pipe

PVC Pipe - PVC - Polyvinyl Chloride rigid plastic pipe. PVC Pipe refers to polyvinyl chloride rigid plastic pipe having the same **outside diameter** as corresponding sizes of standard iron pipe.

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

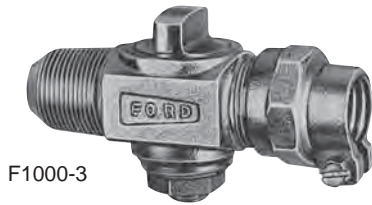
* See table on page 4 for recommended PE pipe and PE tubing.

Ford Corporation Stops and Ford Ballcorp Corporation Stops

With Pack Joint for Copper
or Plastic Tube (CTS)

Many No-Lead products meet ANSI/NSF Standard 61 Annex G
(or proposed ANSI/NSF Standard 372).

F1000 - AWWA/CC Taper Thread Inlet by Pack Joint Outlet for Copper or Plastic Tubing (CTS)



F1000-3

CATALOG NUMBER	DESCRIPTION			BODY OUTLET THREADS	APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE			
◆ F1000-1	1/2"	1/2"	1/2"	1/2" Flare Copper	.9	15
◆ F1000-2	5/8"	5/8"	5/8"	5/8" Flare Copper	1.4	10
F1000-23	5/8"	5/8"	3/4"	3/4" Flare Copper	1.4	10
▶◆ F1000-3	3/4"	3/4"	3/4"	3/4" Flare Copper	1.6	10
F1000-32-Q	3/4"	3/4"	5/8"	5/8" Flare Copper	1.6	10
▶◆ F1000-34	3/4"	3/4"	1"	1" Flare Copper	1.9	10
▶◆ F1000-4	1"	1"	1"	1" Flare Copper	2.7	6
F1000-45	1"	1"	1-1/4"	1-1/4" Flare Copper	3.3	5

Grip Joint for CTS (3/4" through 2") is available. Add "-G" to the catalog number.

FB1000 Ballcorp- AWWA/CC Taper Thread Inlet by Pack Joint Outlet for Copper or Plastic Tubing (CTS)



FB1000-4

CATALOG NUMBER	DESCRIPTION			BODY OUTLET THREADS	APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE			
▶◆ FB1000-3	3/4"	3/4"	3/4"	3/4" Flare Copper	1.6	12
FB1000-34	3/4"	3/4"	1"	1" Flare Copper	1.8	-
▶◆ FB1000-4	1"	1"	1"	1" Flare Copper	2.2	6
FB1000-45	1"	1"	1-1/4"	1-1/4" Flare Copper	3.0	1
* FB1000-45-Q	1"	1"	1-1/4"	1-1/4" Special Thread	2.5	-
FB1000-5	1-1/4"	1-1/4"	1-1/4"	1-1/4" Flare Copper	4.8	2
* FB1000-5-Q	1-1/4"	1-1/4"	1-1/4"	1-1/4" Special Thread	4.6	-
FB1000-56	1-1/4"	1-1/4"	1-1/2"	1-1/2" Flare Copper	5.5	-
FB1000-6	1-1/2"	1-1/2"	1-1/2"	1-1/2" Flare Copper	6.2	1
* FB1000-6-Q	1-1/2"	1-1/2"	1-1/2"	1-1/2" Special Thread	6.1	1
FB1000-67	1-1/2"	1-1/2"	2"	2" Flare Copper	8.5	1
FB1000-7	2"	2"	2"	2" Flare Copper	11.4	1
* FB1000-7-Q	2"	2"	2"	2" Special Thread	9.8	1
FB1000-78	2"	2"	2-1/2"	2-1/2" Flare Copper	11.6	1

Grip Joint for CTS (3/4" through 2") is available. Add "-G" to the catalog number.

F1100 - Male Iron Pipe Thread Inlet by Pack Joint Outlet for Copper or Plastic Tubing (CTS)



F1100-3

CATALOG NUMBER	DESCRIPTION			BODY OUTLET THREADS	APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE			
F1100-1	1/2"	1/2"	1/2"	1/2" Flare Copper	.9	18
▶◆ F1100-3	3/4"	3/4"	3/4"	3/4" Flare Copper	1.6	10
F1100-34	3/4"	3/4"	1"	1" Flare Copper	1.8	10
▶◆ F1100-4	1"	1"	1"	1" Flare Copper	2.7	6
F1100-45	1"	1"	1-1/4"	1-1/4" Flare Copper	3.1	-

Grip Joint for CTS (3/4" through 2") is available. Add "-G" to the catalog number.

FB1100 Ballcorp - Male Iron Pipe Thread Inlet by Pack Joint Outlet for Copper or Plastic Tubing (CTS)



FB1100-4

CATALOG NUMBER	DESCRIPTION			BODY OUTLET THREADS	APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE			
▶◆ FB1100-3	3/4"	3/4"	3/4"	3/4" Flare Copper	1.6	12
FB1100-34	3/4"	3/4"	1"	1" Flare Copper	1.8	-
▶◆ FB1100-4	1"	1"	1"	1" Flare Copper	2.2	8
FB1100-45	1"	1"	1-1/4"	1-1/4" Flare Copper	3.3	1
FB1100-5	1-1/4"	1-1/4"	1-1/4"	1-1/4" Flare Copper	4.8	-
* FB1100-5-Q	1-1/4"	1-1/4"	1-1/4"	1-1/4" Special Thread	4.6	-
FB1100-56	1-1/4"	1-1/4"	1-1/2"	1-1/2" Flare Copper	5.5	-
FB1100-6	1-1/2"	1-1/2"	1-1/2"	1-1/2" Flare Copper	6.1	1
* FB1100-6-Q	1-1/2"	1-1/2"	1-1/2"	1-1/2" Special Thread	5.9	1
FB1100-67	1-1/2"	1-1/2"	2"	2" Flare Copper	8.3	1
FB1100-7	2"	2"	2"	2" Flare Copper	10.6	1
* FB1100-7-Q	2"	2"	2"	2" Special Thread	8.9	1
FB1100-78	2"	2"	2-1/2"	2-1/2" Flare Copper	10.7	1

Grip Joint for CTS (3/4" through 2") is available. Add "-G" to the catalog number.

◆ **Quick Joint** is available. Add "-Q" to the catalog number.

▶ Ultra-Tite is available, add "U-ANWT" to the catalog number. (Consists of corporation stop and Ultra-Tite coupling assembled hand tight.)
See page A-7.

* 1-1/4", 1-1/2" and 2" Quick Joint Ballcorp Corporation Stop outlet threads require a special threaded drilling machine adapter. See page A-5 for Drilling Machine Adapters.

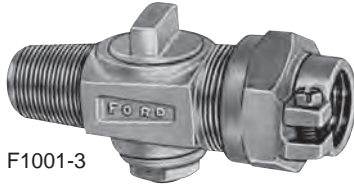
NOTE: Ford recommends using Insert Stiffeners when using plastic pipe or tubing, except when using Ultra-Tite compression fittings.

Ford Corporation Stops and Ford Ballcorp Corporation Stops

With Pack Joint for PE Pipe

Many No-Lead products meet ANSI/NSF Standard 61 Annex G (or proposed ANSI/NSF Standard 372).

F1001 - AWWA/CC Taper Thread Inlet by Pack Joint Outlet for PE Pipe

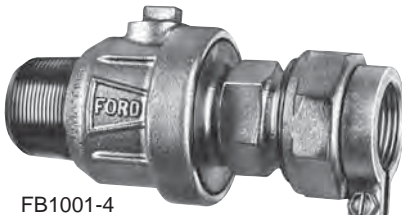


F1001-3

CATALOG NUMBER	DESCRIPTION			BODY OUTLET THREADS	APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE			
▶ F1001-3	3/4"	3/4"	3/4"	1" Flare Copper	1.8	10
* F1001-3-Q	3/4"	3/4"	3/4"	1" Special Threads	2.1	-
▶ F1001-34	3/4"	3/4"	1"	1-1/4" Flare Copper	2.4	-
* F1001-4-Q	1"	1"	1"	1-1/4" Special Threads	3.4	-
▶ F1001-4	1"	1"	1"	1-1/4" Flare Copper	3.3	5

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

FB1001 Ballcorp - AWWA/CC Taper Thread Inlet by Pack Joint Outlet for PE Pipe

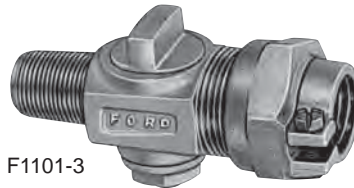


FB1001-4

CATALOG NUMBER	DESCRIPTION			BODY OUTLET THREADS	APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE			
▶ FB1001-3	3/4"	3/4"	3/4"	1" Flare Copper	2.1	1
* FB1001-3-Q	3/4"	3/4"	3/4"	1" Special Threads	2.3	-
▶ FB1001-4	1"	1"	1"	1-1/4" Flare Copper	3.3	5
* FB1001-4-Q	1"	1"	1"	1-1/4" Special Threads	3.4	-
FB1001-5	1-1/4"	1-1/4"	1-1/4"	1-1/2" Flare Copper	5.5	-
FB1001-6-IDR7	1-1/2"	1-1/2"	1-1/2"	2" Flare Copper	8.5	1
FB1001-7-IDR7	2"	2"	2"	2" Flare Copper	11.6	1

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

F1101 - Male Iron Pipe Thread Inlet by Pack Joint Outlet for PE Pipe

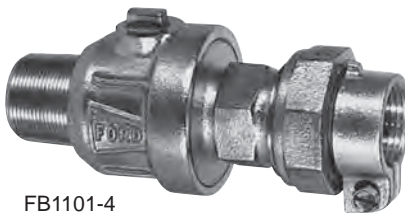


F1101-3

CATALOG NUMBER	DESCRIPTION			BODY OUTLET THREADS	APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE			
▶ F1101-3	3/4"	3/4"	3/4"	1" Flare Copper	1.8	10
* F1101-3-Q	3/4"	3/4"	3/4"	1" Special Threads	2.1	-
▶ F1101-34	3/4"	3/4"	1"	1-1/4" Flare Copper	2.4	-
* F1101-4-Q	1"	1"	1"	1-1/4" Special Threads	3.4	-
▶ F1101-4	1"	1"	1"	1-1/4" Flare Copper	3.3	5

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

FB1101 Ballcorp - Male Iron Pipe Thread Inlet by Pack Joint Outlet for PE Pipe



FB1101-4

CATALOG NUMBER	DESCRIPTION			BODY OUTLET THREADS	APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE			
▶ FB1101-3	3/4"	3/4"	3/4"	1" Flare Copper	1.9	-
* FB1101-3-Q	3/4"	3/4"	3/4"	1" Special Threads	2.1	-
▶ FB1101-4	1"	1"	1"	1-1/4" Flare Copper	3.3	4
* FB1101-4-Q	1"	1"	1"	1-1/4" Special Threads	3.4	-
FB1101-5	1-1/4"	1-1/4"	1-1/4"	1-1/2" Flare Copper	5.5	-
FB1101-6-IDR7	1-1/2"	1-1/2"	1-1/2"	2" Flare Copper	8.3	1
FB1101-7-IDR7	2"	2"	2"	2" Flare Copper	10.7	1

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

- ▶ Ultra-Tite is available, add "-U-ANWT" to the catalog number. (Consists of corporation stop and Ultra-Tite coupling assembled hand tight.) See page A-7.
- 3/4" and 1" Quick Joint Corporation Stop outlet threads for PE pipe require a special threaded drilling machine adapter. See page A-5 for Drilling Machine Adapters.

NOTE: Ford recommends using Insert Stiffeners when using plastic pipe or tubing, except when using an Ultra-Tite compression fitting. See page A-4.

Options Available

No-lead alloy is available; add "-NL" to the end of the catalog number. With the no-lead option, brass components in contact with potable water shall be of no-lead alloy, UNS/CDA No. C89833. Brass components that do not come in contact with potable water shall be UNS/CDA No. C83600. See note on page A-2.

Compression Types for Corporation Stops listed on page A-8 and A-9.



Pack Joint Nut



Grip Joint Nut (-G)



Quick Joint Nut (-Q)



Ultra-Tite Coupling assembled hand tight (-U-ANWT)

Ford Corporation Stops and Ford Ballcorp Corporation Stops

With Pack Joint for PVC Pipe

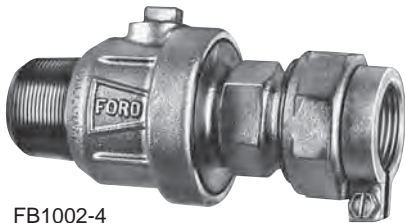
Many No-Lead products meet ANSI/NSF Standard 61 Annex G (or proposed ANSI/NSF Standard 372).



F1002-3

F1002 - AWWA/CC Taper Thread Inlet by Pack Joint Outlet for PVC Pipe

CATALOG NUMBER	DESCRIPTION			BODY OUTLET THREADS	APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE			
F1002-3	3/4"	3/4"	3/4"	1" Flare Copper	1.8	10
F1002-34	3/4"	3/4"	1"	1-1/4" Flare Copper	2.4	8
F1002-4	1"	1"	1"	1-1/4" Flare Copper	3.3	5



FB1002-4

FB1002 Ballcorp - AWWA/CC Taper Thread Inlet by Pack Joint Outlet for PVC Pipe

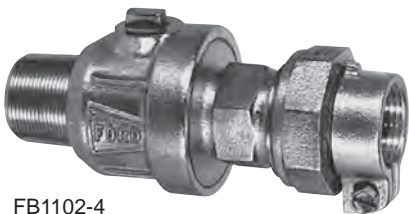
CATALOG NUMBER	DESCRIPTION			BODY OUTLET THREADS	APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE			
FB1002-3	3/4"	3/4"	3/4"	1" Flare Copper	2.1	-
FB1002-4	1"	1"	1"	1-1/4" Flare Copper	3.3	-
FB1002-5	1-1/4"	1-1/4"	1-1/4"	1-1/2" Flare Copper	5.5	-
FB1002-6	1-1/2"	1-1/2"	1-1/2"	1-1/2" Flare Copper	6.9	-
FB1002-7	2"	2"	2"	2" Flare Copper	124	-



F1102-3

F1102 - Male Iron Pipe Thread Inlet by Pack Joint Outlet for PVC Pipe

CATALOG NUMBER	DESCRIPTION			BODY OUTLET THREADS	APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE			
F1102-3	3/4"	3/4"	3/4"	1" Flare Copper	1.8	10
F1102-34	3/4"	3/4"	1"	1-1/4" Flare Copper	2.4	8
F1102-4	1"	1"	1"	1-1/4" Flare Copper	3.3	5



FB1102-4

FB1102 Ballcorp - Male Iron Pipe Thread Inlet by Pack Joint Outlet for PVC Pipe

CATALOG NUMBER	DESCRIPTION			BODY OUTLET THREADS	APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE			
FB1102-3	3/4"	3/4"	3/4"	1" Flare Copper	2.1	-
FB1102-4	1"	1"	1"	1-1/4" Flare Copper	3.3	6
FB1102-5	1-1/4"	1-1/4"	1-1/4"	1-1/2" Flare Copper	5.5	-
FB1102-6	1-1/2"	1-1/2"	1-1/2"	1-1/2" Flare Copper	6.7	-
FB1102-7	2"	2"	2"	2" Flare Copper	11.6	-

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

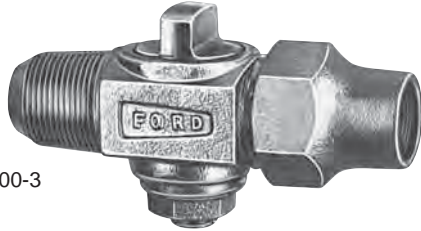
Options Available

No-lead alloy is available; add "-NL" to the end of the catalog number. With the no-lead option, brass components in contact with potable water shall be of no-lead alloy, UNS/CDA No. C89833. Brass components that do not come in contact with potable water shall be UNS/CDA No. C83600. See note on page A-2.

Ford Corporation Stops and Ford Ballcorp Corporation Stops

For Flare Copper

Many No-Lead products meet ANSI/NSF Standard 61 Annex G (or proposed ANSI/NSF Standard 372).



F600-3

F600 - AWWA/CC Taper Thread Inlet by Flared Copper Outlet

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
F600-1	1/2"	1/2"	1/2"	.8	20
F600-2	5/8"	5/8" t	5/8"	1.3	-
F600-23	5/8"	5/8"	3/4"	1.4	12
F600-3	3/4"	3/4"	3/4"	1.6	10
F600-34	3/4"	3/4"	1"	1.9	5
F600-4	1"	1"	1"	2.8	6
F600-45	1"	1"	1-1/4"	3.2	6



FB600-4

FB600 Ballcorp - AWWA/CC Taper Thread Inlet by Flare Copper Outlet

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
FB600-3	3/4"	3/4"	3/4"	1.5	12
FB600-34	3/4"	3/4"	1"	1.9	10
FB600-4	1"	1"	1"	2.3	8
FB600-5	1-1/4"	1-1/4"	1-1/4"	4.7	-
FB600-56	1-1/4"	1-1/4"	1-1/2"	5.1	-
FB600-6	1-1/2"	1-1/2"	1-1/2"	7.0	1
FB600-67	1-1/2"	1-1/2"	2"	9.1	1
FB600-7	2"	2"	2"	12.1	1



F700-3

F700 - Male Iron Pipe Thread Inlet by Flared Copper Outlet

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
F700-1	1/2"	1/2"	1/2"	.8	-
F700-3	3/4"	3/4"	3/4"	1.6	10
F700-34	3/4"	3/4"	1"	1.9	-
F700-4	1"	1"	1"	2.8	6
F700-45	1"	1"	1-1/4"	3.2	-



FB700-4

FB700 Ballcorp - Male Iron Pipe Thread Inlet by Flare Copper Outlet

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
FB700-3	3/4"	3/4"	3/4"	1.8	-
FB700-34	3/4"	3/4"	1"	2.1	-
FB700-4	1"	1"	1"	2.3	6
FB700-5	1-1/4"	1-1/4"	1-1/4"	4.7	-
FB700-56	1-1/4"	1-1/4"	1-1/2"	5.5	-
FB700-6	1-1/2"	1-1/2"	1-1/2"	6.8	1
FB700-67	1-1/2"	1-1/2"	2"	7.9	1
FB700-7	2"	2"	2"	11.2	1

Quarter and Eighth Bends for F600, FB600, F700 and FB700 Corporation Stops are listed on pages 17 and 18.

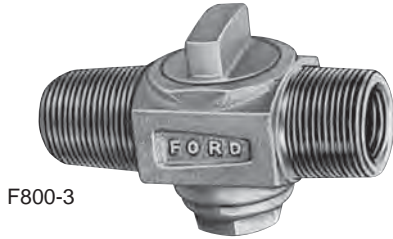
Options Available

No-lead alloy is available; add "-NL" to the end of the catalog number. With the no-lead option, brass components in contact with potable water shall be of no-lead alloy, UNS/CDA No. C89833. Brass components that do not come in contact with potable water shall be UNS/CDA No. C83600. See note on page A-2.

Ford Corporation Stops and Ford Ballcorp Corporation Stops

With Increased MIP Pipe Thread Outlet
with inside Driving Thread

Many No-Lead products meet ANSI/NSF Standard 61 Annex G
(or proposed ANSI/NSF Standard 372).



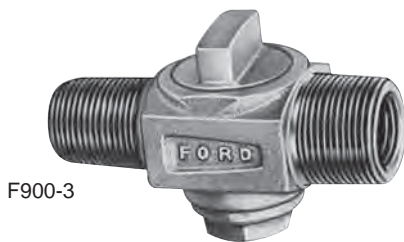
**F800 - AWWA/CC Taper Thread Inlet
by Increased MIP Thread Outlet with inside Driving Thread**

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
F800-1	1/2"	1/2"	3/4"	.6	20
F800-2	5/8"	5/8"	3/4"	1.1	15
F800-3	3/4"	3/4"	1"	1.3	10
F800-4	1"	1"	1-1/4"	2.3	8



**FB800 Ballcorp - AWWA Taper Thread Inlet by
Increased Male Iron Pipe Thread Outlet with inside Driving Thread**

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
FB800-3	3/4"	3/4"	1"	1.3	-
FB800-4	1"	1"	1-1/4"	2.0	10
FB800-5	1-1/4"	1-1/4"	1-1/2"	3.9	-
FB800-6	1-1/2"	1-1/2"	2"	5.9	1
FB800-7	2"	2"	2-1/2"	9.6	1



**F900 - MIP Thread Inlet by Increased MIP Thread Outlet
with inside Driving Thread**

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
F900-1	1/2"	1/2"	3/4"	.6	-
F900-3	3/4"	3/4"	1"	1.3	14
F900-4	1"	1"	1-1/4"	2.3	8



**FB900 Ballcorp - Male Iron Pipe Thread Inlet by
Increased Male Iron Pipe Thread Outlet with inside Driving Thread**

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
FB900-3	3/4"	3/4"	1"	1.4	-
FB900-4	1"	1"	1-1/4"	2.0	-
FB900-5	1-1/4"	1-1/4"	1-1/2"	3.9	-
FB900-6	1-1/2"	1-1/2"	2"	5.7	-
FB900-7	2"	2"	2-1/2"	8.8	-

Quarter and Eighth Bends for F800, FB800, F900 and FB900 Corporation Stops are listed on page 19.

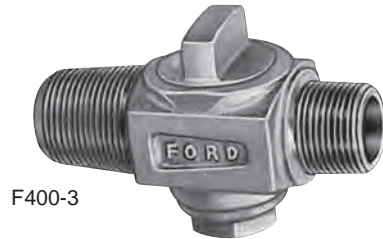
Options Available

No-lead alloy is available; add "-NL" to the end of the catalog number. With the no-lead option, brass components in contact with potable water shall be of no-lead alloy, UNS/CDA No. C89833. Brass components that do not come in contact with potable water shall be UNS/CDA No. C83600. See note on page A-2.

Ford Corporation Stops and Ford Ballcorp Corporation Stops

With Male Iron Pipe Outlet

Many No-Lead products meet ANSI/NSF Standard 61 Annex G (or proposed ANSI/NSF Standard 372).



F400-3

F400 - AWWA/CC Taper Thread Inlet by Male Iron Pipe Thread Outlet

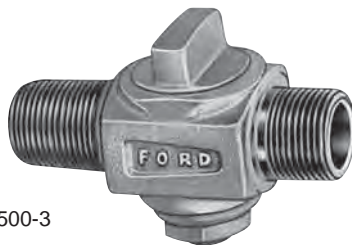
CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
F400-1	1/2"	1/2"	1/2"	.6	20
F400-13	1/2"	1/2"	3/4"	.6	-
F400-3	3/4"	3/4"	3/4"	1.3	14
F400-34	3/4"	3/4"	1"	1.3	14
F400-4	1"	1"	1"	2.3	8



FB400-4

FB400 Ballcorp - AWWA/CC Taper Thread Inlet by Male Iron Pipe Thread Outlet

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
FB400-3	3/4"	3/4"	3/4"	1.2	-
FB400-4	1"	1"	1"	1.7	10
FB400-5	1-1/4"	1-1/4"	1-1/4"	3.9	-
FB400-6	1-1/2"	1-1/2"	1-1/2"	5.4	2
FB400-7	2"	2"	2"	8.6	1



F500-3

F500 - Male Iron Pipe Thread Both Ends

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
F500-1	1/2"	1/2"	1/2"	.6	20
F500-13	1/2"	1/2"	3/4"	.6	-
F500-3	3/4"	3/4"	3/4"	1.3	10
F500-4	1"	1"	1"	2.2	8



FB500-4

FB500 Ballcorp - Male Iron Pipe Thread Both Ends

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
FB500-3	3/4"	3/4"	3/4"	1.2	14
FB500-4	1"	1"	1"	1.7	10
FB500-5	1-1/4"	1-1/4"	1-1/4"	3.9	2
FB500-6	1-1/2"	1-1/2"	1-1/2"	5.3	2
FB500-7	2"	2"	2"	7.8	1

Quarter and Eighth Bends for F400, FB400, F500 and FB500 Corporation Stops are listed on page 17 and in Catalog Section J on pages 8, 10, 11 and 12.

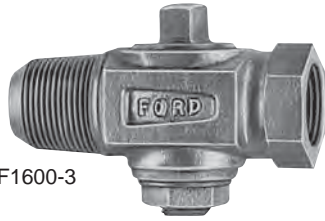
Options Available

No-lead alloy is available; add "-NL" to the end of the catalog number. With the no-lead option, brass components in contact with potable water shall be of no-lead alloy, UNS/CDA No. C89833. Brass components that do not come in contact with potable water shall be UNS/CDA No. C83600. See note on page A-2.

Ford Corporation Stops and Ford Ballcorp Corporation Stops

With Female Iron Pipe Outlet

Many No-Lead products meet ANSI/NSF Standard 61 Annex G (or proposed ANSI/NSF Standard 372).



F1600-3

F1600 - AWWA/CC Taper Thread Inlet by Female Iron Pipe Thread Outlet

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
F1600-3	3/4"	3/4"	3/4"	1.3	15
F1600-4	1"	1"	1"	2.3	8



FB1600-4

FB1600 Ballcorp - AWWA/CC Taper Thread Inlet by Female Iron Pipe Thread Outlet

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
FB1600-3	3/4"	3/4"	3/4"	1.4	-
FB1600-4	1"	1"	1"	1.8	12
FB1600-45	1"	1"	1-1/4"	2.5	-
FB1600-5	1-1/4"	1-1/4"	1-1/4"	3.7	-
FB1600-56	1-1/4"	1-1/4"	1-1/2"	4.0	-
FB1600-6	1-1/2"	1-1/2"	1-1/2"	5.2	2
FB1600-67	1-1/2"	1-1/2"	2"	5.6	-
FB1600-7	2"	2"	2"	8.3	2
FB1600-78	2"	2"	2-1/2"	8.7	-



F1700-3

F1700 - Male Iron Pipe Thread Inlet by Female Iron Pipe Thread Outlet

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
F1700-1	1/2"	1/2"	1/2"	.60	-
F1700-3	3/4"	3/4"	3/4"	1.3	15
F1700-4	1"	1"	1"	2.3	8



FB1700-4

FB1700 Ballcorp - Male Iron Pipe Thread Inlet by Female Iron Pipe Thread Outlet

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
FB1700-3	3/4"	3/4"	3/4"	1.1	15
FB1700-4	1"	1"	1"	1.8	12
FB1700-45	1"	1"	1-1/4"	2.5	-
FB1700-5	1-1/4"	1-1/4"	1-1/4"	3.7	3
FB1700-56	1-1/4"	1-1/4"	1-1/2"	3.9	-
FB1700-6	1-1/2"	1-1/2"	1-1/2"	5.1	2
FB1700-67	1-1/2"	1-1/2"	2"	5.5	-
FB1700-7	2"	2"	2"	7.5	2
FB1700-78	2"	2"	2-1/2"	7.8	-

Options Available

No-lead alloy is available; add "-NL" to the end of the catalog number. With the no-lead option, brass components in contact with potable water shall be of no-lead alloy, UNS/CDA No. C89833. Brass components that do not come in contact with potable water shall be UNS/CDA No. C83600. See note on page A-2.

Ford Corporation Stops

With Male Coupling Thread Outlet

Many No-Lead products meet ANSI/NSF Standard 61 Annex G (or proposed ANSI/NSF Standard 372).



F200 - AWWA/CC Taper Thread Inlet by Male Coupling Thread Outlet with inside Driving Thread

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
F200-3	3/4"	3/4"	3/4"	1.3	14
F200-4	1"	1"	1"	2.3	8

Male Coupling Thread Outlet with inside Driving Thread

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
F300-3	3/4"	3/4"	3/4"	1.3	-
F300-4	1"	1"	1"	2.3	-

NOTE: Adapters for F200 and F300 Corporation Stops are on the following page.

Tee-Head Adapters

3/4" and 1" factory assembled Tee-Head adapters are available, add "-TA" to the end of Ballcorp catalog number. 1-1/4", 1-1/2" and 2" Tee-Head adapters may be purchased separately or assembled at the factory. To purchase 1-1/4", 1-1/2" and 2" Ballcorps with Tee-Head Adapters assembled at the factory, add "-TA" to the catalog number. Example: FB1000-7-TA. No charge for factory assembly. To purchase Tee-Head Adapters separately, use the catalog numbers listed below.



Tee-Head Adapters for 1-1/4", 1-1/2" and 2" Ballcorps

CATALOG NUMBER	DESCRIPTION	APPROX. WT. LBS.	STD. PKG. QTY.
TAB-6	Tee-Head Adapter for 1-1/4", 1-1/2" Ballcorps	.3	-
TAB-7	Tee-Head Adapter for 2" Ballcorp	.3	-

No-Lead Tee-Head Adapters shall be factory installed only, no field installation.

Pitorifice Key Corp Stops

For Tapping Mains in Extremely Cold Climates



In extremely cold conditions, Pitorifice Key Corps utilize mainline water flow to help prevent service line freezing. The Pitorifice copper tube opening on the corporation stop inlet, which faces upstream, continuously channels the warmer, faster moving mainline water through a service line loop. The loop channels water from the main, runs inside a basement (with a tee connection for the customer's plumbing) and returns to the main with another Pitorifice Corp copper tube opening that faces downstream.

The Pitorifice option is available on 3/4" and 1" Ford Key Style Corporation Stops. These are non-stock parts. Please call or write for prices and minimum order quantities. Standard lengths are for direct water main taps; longer lengths for saddles are available.

TO ORDER: Add "-P" to any 3/4" or 1" Corp Stop catalog number for Pitorifice option. Example: F1000-3-P.

Note: The Pitorifice option is for Key Style Corporation Stops only.

Corp Stop Wrench

The traditional pipe wrench (DO NOT USE) has teeth designed to engage the hard, round surfaces of iron / steel pipe. A pipe wrench can easily damage the relatively soft waterworks brass products. The RCorp wrench has smooth jaws that fit evenly across the wrench flats on valves and fittings. Considering the potential ills associated with just one leaking valve or fitting, the cost of these recommended wrenches is absolutely a great value.



Corp Stop Wrench

CATALOG NUMBER	DESCRIPTION	APPROX. WT. LBS.	LENGTH
RCORP	Adjustable Smooth Jaw Wrench fits up to 2" corp stops	4.4	18"

Options Available

No-lead alloy is available; add "-NL" to the end of the catalog number. With the no-lead option, brass components in contact with potable water shall be of no-lead alloy, UNS/CDA No. C89833. Brass components that do not come in contact with potable water shall be UNS/CDA No. C83600. See note on page A-2.

Quarter Bends, Eighth Bends and Straight Couplings

For F200 and F300 Corporation Stops
(Gaskets are included)

Many No-Lead products meet ANSI/NSF Standard 61 Annex G (or proposed ANSI/NSF Standard 372).



L102-33



LA102-33



C102-33



L104-33S



LA104-33



C104-33



L108-33S

Female Coupling Thread by Flared Copper

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.
	INLET SIZE	OUTLET SIZE	CORP SIZE		
QUARTER BENDS					
L102-23	5/8"	3/4"	5/8"	.9	15
L102-33	3/4"	3/4"	3/4"	.9	15
* L102-33S	3/4"	3/4"	3/4"	1.1	14
L102-44	1"	1"	1"	1.7	8
* L102-44S	1"	1"	1"	1.5	8
EIGHTH BENDS					
LA102-23	5/8"	3/4"	5/8"	.8	18
LA102-33	3/4"	3/4"	3/4"	.8	18
* LA102-33S	3/4"	3/4"	3/4"	1.0	15
LA102-44	1"	1"	1"	1.4	8
* LA102-44S	1"	1"	1"	1.4	10
STRAIGHT COUPLINGS					
C102-13	1/2"	3/4"	1/2"	.6	25
C102-23	5/8"	3/4"	5/8"	.7	25
C102-33	3/4"	3/4"	3/4"	.7	25
C102-34	3/4"	1"	3/4"	1.0	-
C102-44	1"	1"	1"	1.3	10

* "S" in catalog number indicates swivel inlet.

Female Coupling Thread by Pack Joint Outlet for Copper or Plastic Tubing (CTS)

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.
	INLET SIZE	OUTLET SIZE	CORP SIZE		
QUARTER BENDS					
▶ L104-33	3/4"	3/4"	3/4"	.9	-
▶♦ L104-33S	3/4"	3/4"	3/4"	1.1	12
▶ L104-44	1"	1"	1"	1.5	-
▶ * L104-44S	1"	1"	1"	1.4	8
EIGHTH BENDS					
▶ LA104-23	5/8"	3/4"	5/8"	.8	18
♦ LA104-23S	5/8"	3/4"	5/8"	.9	-
▶ LA104-33	3/4"	3/4"	3/4"	.8	18
▶ * LA104-33S	3/4"	3/4"	3/4"	1.0	15
▶ LA104-44	1"	1"	1"	1.3	8
▶ * LA104-44S	1"	1"	1"	1.3	10
STRAIGHT COUPLINGS					
▶♦ C104-23	5/8"	3/4"	5/8"	.7	20
▶♦ C104-33	3/4"	3/4"	3/4"	.7	18
▶♦ C104-44	1"	1"	1"	1.1	12

* "S" in catalog number indicates swivel inlet.

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

♦ **Quick Joint** is available. Add "-Q" to the catalog number.

▶ **Ultra-Tite** compression is available. Add "-U-AWT" to the end of the catalog number. (Consists of two components assembled watertight.) For applications that require the Ultra-Tite coupling to be hand tight only, add "-U-ANWT" to the end of the catalog number.

Note: Ford recommends using insert stiffeners when using plastic pipe or tubing, except for Ultra-Tite compression fittings.

Swivel Female Coupling Thread by Male Iron Pipe Thread

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.
	INLET SIZE	OUTLET SIZE	CORP SIZE		
QUARTER BENDS					
L108-33S	3/4"	3/4"	3/4"	0.7	-
L108-44S	1"	1"	1"	1.0	-

Options Available

No-lead alloy is available; add "-NL" to the end of the catalog number. With the no-lead option, brass components in contact with potable water shall be of no-lead alloy, UNS/CDA No. C89833. Brass components that do not come in contact with potable water shall be UNS/CDA No. C83600. See note on page A-2.

Quarter Bends and Eighth Bends

For Ford Corporation Stops and Ford Ballcorp Corporation Stops

Many No-Lead products meet ANSI/NSF Standard 61 Annex G (or proposed ANSI/NSF Standard 372).

For F400, F500 and Ballcorp FB400 and FB500 Corporation Stops.



Female Iron Pipe Thread by Flared Copper

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.
	INLET SIZE	OUTLET SIZE		
QUARTER BENDS				
L21-33	3/4"	3/4"	.9	16
L21-44	1"	1"	1.9	8
L21-66	1-1/2"	1-1/2"	3.7	3
L21-77	2"	2"	6.3	1
EIGHTH BENDS				
LA21-33	3/4"	3/4"	.8	18
LA21-44	1"	1"	1.4	10
Female Iron Pipe Thread by Male Iron Pipe Thread				
LA81-44	1"	1"	1.0	-

For F600, F700, and Ballcorp FB600 and FB700 Corporation Stops. (Copper Gaskets are included)

Eighth Bends



CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.
	INLET SIZE	OUTLET SIZE		
FEMALE COPPER THREAD BY FLARE COPPER				
LA02-33	3/4"	3/4"	.7	18
LA02-44	1"	1"	1.3	10
LA02-66	1-1/2"	1-1/2"	3.4	2
LA02-77	2"	2"	6.4	3
FEMALE COPPER THREAD BY PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS)				
▶ LA04-33	3/4"	3/4"	.7	-
▶ LA04-44	1"	1"	1.1	10
▶ LA04-66	1-1/2"	1-1/2"	2.5	4
▶ LA04-77	2"	2"	4.3	2
FEMALE COPPER THREAD BY PACK JOINT FOR PE PIPE				
▶ LA06-33	3/4"	3/4"	.9	-
▶ LA06-44	1"	1"	1.6	-

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

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

Note: See page A-18 for Swivel Eighth Bends.

◆ **Quick Joint** is available. Add "-Q" to the catalog number.

▶ **Ultra-Tite** compression is available. Add "-U-AWT" to the end of the catalog number. (Consists of two components assembled watertight.) For applications that require the Ultra-Tite coupling to be hand tight only, add "-U-ANWT" to the end of the catalog number.

Note: Ford recommends using insert stiffeners when using plastic pipe or tubing, except for Ultra-Tite compression fittings.

Swivel Eighth Bends



CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.
	INLET SIZE	OUTLET SIZE		
FEMALE COPPER THREAD SWIVEL NUT BY FLARE COPPER				
LA02-33S	3/4"	3/4"	1.0	18
LA02-44S	1"	1"	1.5	10
LA02-66S	1-1/2"	1-1/2"	4.3	2
LA02-77S	2"	2"	7.7	-
FEMALE COPPER THREAD SWIVEL NUT BY PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS)				
▶◆ LA04-33S	3/4"	3/4"	1.0	15
▶ LA04-44S	1"	1"	1.3	8
▶ LA04-66S	1-1/2"	1-1/2"	4.0	-
▶ LA04-77S	2"	2"	6.6	-

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

◆ **Quick Joint** is available. Add "-Q" to the catalog number.

Options Available

No-lead alloy is available; add "-NL" to the end of the catalog number. With the no-lead option, brass components in contact with potable water shall be of no-lead alloy, UNS/CDA No. C89833. Brass components that do not come in contact with potable water shall be UNS/CDA No. C83600. See note on page A-2.

Quarter Bends and Eighth Bends

For Ford Corporation Stops and Ford Ballcorp Corporation Stops

For F600, F700, and FB600 and
FB700 Ballcorp Corporation Stops.
(Copper Gaskets are included)

Many No-Lead products meet ANSI/NSF Standard 61 Annex G
(or proposed ANSI/NSF Standard 372).



LA04-33SI-Q



L04-33SI-Q



L02-33



L02-33S

Swivel Eighth Bends With Integral Washer

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.
	INLET SIZE	OUTLET SIZE		
FEMALE COPPER THREAD SWIVEL NUT WITH INTEGRAL WASHER BY QUICK JOINT FOR COPPER OR PLASTIC TUBING (CTS)				
LA04-33SI-Q	3/4"	3/4"	1.0	-
LA04-44SI-Q	1"	1"	1.7	-

Swivel Quarter Bends With Integral Washer

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.
	INLET SIZE	OUTLET SIZE		
FEMALE COPPER THREAD SWIVEL NUT WITH INTEGRAL WASHER BY QUICK JOINT FOR COPPER OR PLASTIC TUBING (CTS)				
L04-33SI-Q	3/4"	3/4"	1.2	-
L04-44SI-Q	1"	1"	1.8	-

Quarter Bends

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.
	INLET SIZE	OUTLET SIZE		
FEMALE COPPER THREAD BY FLARE COPPER				
L02-33	3/4"	3/4"	.9	15
L02-44	1"	1"	1.6	8
L02-66	1-1/2"	1-1/2"	3.5	2
L02-77	2"	2"	7.0	1
FEMALE COPPER THREAD BY PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS)				
▶♦ L04-33	3/4"	3/4"	.9	15
L04-34	3/4"	1"	1.0	10
▶ L04-44	1"	1"	1.4	8
L04-66	1-1/2"	1-1/2"	3.4	2
L04-77	2"	2"	6.5	2
FEMALE COPPER THREAD BY PACK JOINT FOR PE PIPE				
▶ L06-33	3/4"	3/4"	.9	12
▶ L06-44	1"	1"	1.8	6

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

Swivel Quarter Bends

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.
	INLET SIZE	OUTLET SIZE		
FEMALE COPPER THREAD SWIVEL NUT BY FLARE COPPER				
L02-33S	3/4"	3/4"	1.1	14
L02-44S	1"	1"	1.6	8
L02-66S	1-1/2"	1-1/2"	4.6	2
L02-77S	2"	2"	8.0	1
FEMALE COPPER THREAD SWIVEL NUT BY PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS)				
▶ L04-33S	3/4"	3/4"	1.1	12
▶ L04-44S	1"	1"	1.5	8

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

♦ **Quick Joint** is available. Add "-Q" to the catalog number.

▶ **Ultra-Tite** compression is available. Add "-U-AWT" to the end of the catalog number. (Consists of two components assembled watertight.) For applications that require the Ultra-Tite coupling to be hand tight only, add "-U-ANWT" to the end of the catalog number.

Note: Ford recommends using insert stiffeners when using plastic pipe or tubing, except for Ultra-Tite compression fittings. See page A-4.

Options Available

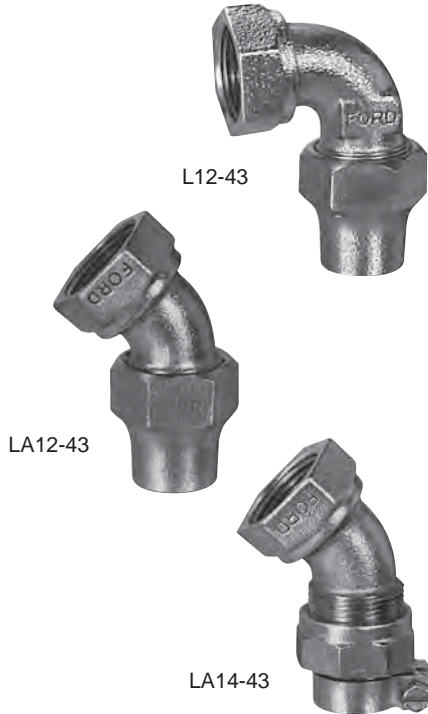
No-lead alloy is available; add "-NL" to the end of the catalog number. With the no-lead option, brass components in contact with potable water shall be of no-lead alloy, UNS/CDA No. C89833. Brass components that do not come in contact with potable water shall be UNS/CDA No. C83600. See note on page A-2.

Quarter Bends and Eighth Bends

For Ford Corporation Stops and Ford Ballcorp Corporation Stops

Many No-Lead products meet ANSI/NSF Standard 61 Annex G (or proposed ANSI/NSF Standard 372).

For F800, F900 and FB800, FB900 Ballcorp Corporation Stops.



Quarter and Eighth Bends for F800, F900 and FB800, FB900 Ballcorp Corporation Stops

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.	STD. PKG. QTY.
	FIP INLET SIZE	OUTLET SIZE	CORP SIZE		
QUARTER BENDS WITH FLARE COPPER OUTLET					
L12-43	1"	3/4"	3/4"	1.0	14
L12-54	1-1/4"	1"	1"	1.7	8
QUARTER BENDS WITH FEMALE IRON PIPE THREAD SWIVEL BY MALE IRON PIPE THREADS					
L18-87S	2-1/2"	2"	2"	4.0	-
EIGHTH BENDS WITH FLARE COPPER OUTLET					
LA12-43	1"	3/4"	3/4"	.7	20
LA12-54	1-1/4"	1"	1"	1.3	-
EIGHTH BENDS WITH PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS) OUTLET					
▶ LA14-43	1"	3/4"	3/4"	.7	18
▶ LA14-54	1-1/4"	1"	1"	1.1	-
LA14-76	2"	1-1/2"	1-1/2"	2.7	-
LA14-87	2-1/2"	2"	2"	5.3	2

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

▶ **Ultra-Tite** compression is available. Add "-U-AWT" to the end of the catalog number. (Consists of two components assembled watertight.) For applications that require the Ultra-Tite coupling to be hand tight only, add "-U-ANWT" to the end of the catalog number.

Note: Ford recommends using insert stiffeners when using plastic pipe or tubing, except for Ultra-Tite compression fittings. See page A-4.

Ford Tube Nuts and Copper Gaskets



Copper Tube Nuts for Flared Copper Connections

CATALOG NUMBER	DESCRIPTION COPPER SIZE	APPROX. WT. LBS.	STD. PKG. QTY.
CTN-1	1/2"	.2	-
CTN-2	5/8"	.2	-
CTN-3	3/4"	.3	-
CTN-4	1"	.5	-
CTN-5	1-1/4"	.7	-
CTN-6	1-1/2"	1.2	-
CTN-7	2"	2.2	-



Copper Gaskets - to use with adapters replacing Flare Nut

CATALOG NUMBER	DESCRIPTION CONN. SIZE	APPROX. WT. LBS.	STD. PKG. QTY.
SLC-3	3/4"	.01	-
SLC-4	1"	.02	-
SLC-5	1-1/4"	.03	-
SLC-6	1-1/2"	.04	-
SLC-7	2"	.08	-

Options Available

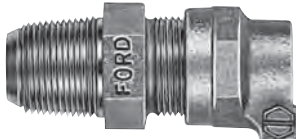
No-lead alloy is available; add "-NL" to the end of the catalog number. With the no-lead option, brass components in contact with potable water shall be of no-lead alloy, UNS/CDA No. C89833. Brass components that do not come in contact with potable water shall be UNS/CDA No. C83600. See note on page A-2.

Replacement Piece for Corporation Stops and Ford Ballcorp Corporation Stops



AWWA/CC Taper Thread Inlet by Flared Copper Outlet - replaces F600 or FB600

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.
	INLET SIZE	OUTLET SIZE		
F60-1	1/2"	1/2"	.3	-
F60-3	3/4"	3/4"	.7	-
F60-4	1"	1"	1.2	-
F60-6	1-1/2"	1-1/2"	3.2	-
F60-7	2"	2"	5.4	-



AWWA/CC Taper Thread Inlet by Pack Joint Outlet for Copper or Plastic Tubing (CTS) - replaces F1000 or FB1000

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.
	INLET SIZE	OUTLET SIZE		
F60-4-3	3/4"	3/4"	.7	-
F60-4-4	1"	1"	1.1	12

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



AWWA/CC Taper Thread Inlet by Pack Joint Outlet for Polyethylene Pipe (PE) - replaces F1001 or FB1001

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.
	INLET SIZE	OUTLET SIZE		
* F60-6-3-AWT	3/4"	3/4"	1.2	-
* F60-6-4-AWT	1"	1"	1.3	-

Grip Joint for PEP (3/4" and 1") is available. Add "-G" to the catalog number.
* Product consists of two adapter pieces assembled watertight.



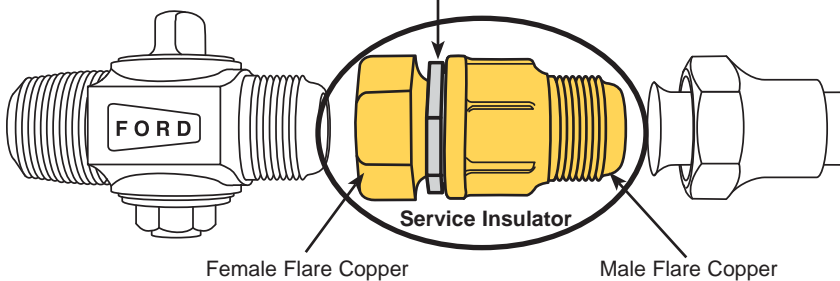
AWWA/CC Taper Thread Inlet by Male Iron Pipe Thread Outlet - replaces F400 or FB400

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.
	INLET SIZE	OUTLET SIZE		
F40-1	1/2"	1/2"	.3	-
F40-3	3/4"	3/4"	.5	25
F40-4	1"	1"	.6	18
F40-6	1-1/2"	1-1/2"	1.4	-
F40-7	2"	2"	2.5	4

Service Insulators

For Protection Against Service Line Electrolysis

Threaded Nylon Bushing assembled between two flare copper adapters



Service Insulators

CATALOG NUMBER	DESCRIPTION	APPROX. WT. LBS.	STD. PKG. QTY.
SI-3	3/4"	.9	20
SI-4	1"	1.3	10
SI-6	1-1/2"	3.8	3
SI-7	2"	6.7	2

Note: Various service line connection types are available.

Options Available

No-lead alloy is available; add "-NL" to the end of the catalog number. With the no-lead option, brass components in contact with potable water shall be of no-lead alloy, UNS/CDA No. C89833. Brass components that do not come in contact with potable water shall be UNS/CDA No. C83600. See note on page A-2.

Many No-Lead products meet ANSI/NSF Standard 61 Annex G (or proposed ANSI/NSF Standard 372).

Brass Corp Stop Plugs

AWWA Taper Thread by Square Wrench Head



CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.
	THREAD SIZE	APPLICATION		
CSP-3-A	3/4"	Square Wrench Head	.2	60
CSP-4-A	1"	Square Wrench Head	.4	40

Male Iron Pipe Thread by Square Wrench Head



CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.
	THREAD SIZE	APPLICATION		
CSP-3-I	3/4"	Square Wrench Head	.2	100
CSP-4-I	1"	Square Wrench Head	.4	50
CSP-6-I	1-1/2"	Square Wrench Head	.4	-
CSP-7-I	2"	Square Wrench Head	.6	-

AWWA Taper Thread by Internal Driving Thread



CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.
	THREAD SIZE	APPLICATION		
CSP-3-IT	3/4"	Internal Driving Thrd	.3	-
CSP-4-IT	1"	Internal Driving Thrd	.7	-

Screw Plug Adapters and Washers

(for 3/4" and 1" - F1000, F1100, FB1000 and FB1100)



SP-3



WSP-3

Screw Plug Adapters and Washers

CATALOG NUMBER	DESCRIPTION
SP-3	Screw plug adapter for 3/4" CTS P.J. Corp Stop
SP-4	Screw plug adapter for 1" CTS P.J. Corp Stop
WSP-3	Washer for Mueller screw plug adapter for 3/4" CTS P.J. Corp Stop
WSP-4	Washer for Mueller screw plug adapter for 1" CTS P.J. Corp Stop
SP-3-Q	Screw Plug Adapter for 3/4" CTS Q.J. Corp Stop
SP-4-Q	Screw Plug Adapter for 1" CTS Q.J. Corp Stop

Ford Screw Plug Adapters are specifically designed to protect corp stop outlets during insertion. Washers help prevent outlet damage caused by some non-Ford screw plug adapters.

Many No-Lead products meet ANSI/NSF Standard 61 Annex G (or proposed ANSI/NSF Standard 372).

Brass Bushings for Corporation Stop Inlets

Brass Bushings for Corporation Stop Inlets

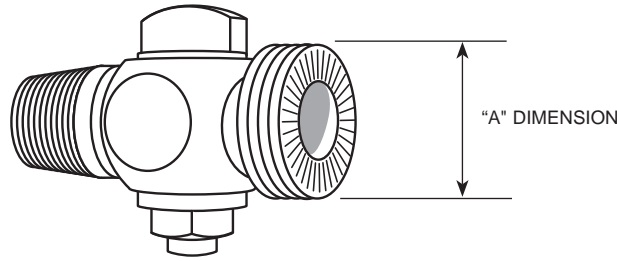


CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.	STD. PKG. QTY.
	OUTSIDE THREAD SIZE AND TYPE	INSIDE THREAD SIZE AND TYPE		
BBAA-31	3/4" Male AWWA Taper Thread	1/2" Female AWWA Taper Thread	.3	50
BBAA-43	1" Male AWWA Taper Thread	3/4" Female AWWA Taper Thread	.4	36
BBAA-53	1-1/4" Male AWWA Taper Thread	3/4" Female AWWA Taper Thread	1.1	-
BBAA-63	1-1/2" Male AWWA Taper Thread	3/4" Female AWWA Taper Thread	1.2	10
BBAA-64	1-1/2" Male AWWA Taper Thread	1" Female AWWA Taper Thread	1.2	10
BBAA-73	2" Male AWWA Taper Thread	3/4" Female AWWA Taper Thread	2.2	8
BBAA-74	2" Male AWWA Taper Thread	1" Female AWWA Taper Thread	1.3	8
BBAA-75	2" Male AWWA Taper Thread	1-1/4" Female AWWA Taper Thread	1.8	8
BBAA-76	2" Male AWWA Taper Thread	1-1/2" Female AWWA Taper Thread	1.8	12
BBAI-31	3/4" Male AWWA Taper Thread	1/2" Female Iron Pipe Thread	.3	50
BBAI-43	1" Male AWWA Taper Thread	3/4" Female Iron Pipe Thread	.4	30
BBAI-65	1-1/2" Male AWWA Taper Thread	1-1/4" Female Iron Pipe Thread	1.2	10
BBAI-75	2" Male AWWA Taper Thread	1-1/4" Female Iron Pipe Thread	1.8	8
BBAI-76	2" Male AWWA Taper Thread	1-1/2" Female Iron Pipe Thread	1.8	8
BBIA-43	1" Male Iron Pipe Thread	3/4" Female AWWA Taper Thread	.4	30
BBIA-53	1-1/4" Male Iron Pipe Thread	3/4" Female AWWA Taper Thread	.4	-
BBIA-54	1-1/4" Male Iron Pipe Thread	1" Female AWWA Taper Thread	.4	-
BBIA-63	1-1/2" Male Iron Pipe Thread	3/4" Female AWWA Taper Thread	.9	-
BBIA-64	1-1/2" Male Iron Pipe Thread	1" Female AWWA Taper Thread	1.2	20
BBIA-73	2" Male Iron Pipe Thread	3/4" Female AWWA Taper Thread	.7	16
BBIA-74	2" Male Iron Pipe Thread	1" Female AWWA Taper Thread	1.1	12
BBIA-75	2" Male Iron Pipe Thread	1-1/4" Female AWWA Taper Thread	1.1	14
BBIA-76	2" Male Iron Pipe Thread	1-1/2" Female AWWA Taper Thread	1.1	12

Options Available

No-lead alloy is available; add "-NL" to the end of the catalog number. With the no-lead option, brass components in contact with potable water shall be of no-lead alloy, UNS/CDA No. C89833. Brass components that do not come in contact with potable water shall be UNS/CDA No. C83600. See note on page A-2.

Ford Conversion Connections for Lead Service Corporation Stops



When ordering conversion connections for flanged lead Corporation Stops, check the outlet size to assure a correct fit. The size of this connection may vary slightly depending upon the manufacturer. The approximate size of the outlet is shown in the tables below and on page 23 as the "A" dimension.

For Flanged Lead Corporation Stops (These Connections Replace Flanged Lead Gooseneck Connections) Gaskets Are Included



Female Flanged Lead Thread Inlet by Female Iron Pipe Outlet

FORD CAT. No.	DESCRIPTION		APPROX. "A" DIM.	APPROX. WT. LBS.	STD. PKG. QTY.
	INLET SIZE/TYPE	OUTLET SIZE			
LFC1-13	1/2" XS	3/4"	1-7/16"	.6	20
* LFSC-2	5/8" XS	3/4"	1-5/8"	.5	30
* LFSC-3	3/4" XS	3/4"	1-7/8"	.7	30
* LFSC-4	1" XS	1"	2-1/8"	.9	20

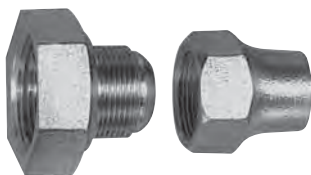


Female Flanged Lead Thread Inlet by Pack Joint for Copper or Plastic Tubing (CTS) Outlet

FORD CAT. No.	DESCRIPTION		APPROX. "A" DIM.	APPROX. WT. LBS.	STD. PKG. QTY.
	INLET SIZE/TYPE	OUTLET SIZE			
▶ LFC4-13	1/2" XS	3/4"	1-7/16"	.9	-
▶ LFC4-23	5/8" XS	3/4"	1-5/8"	.9	15
▶* LFSC4-33	3/4" XS	3/4"	1-7/8"	1.2	12
LFC4-34-Q	3/4" XS	1"	2-1/8"	1.3	-

▶ **Ultra-Tite** compression is available. Add "-U-AWT" to the end of the catalog number. (Consists of two components assembled watertight.) For applications that require the Ultra-Tite coupling to be hand tight only, add "-U-ANWT" to the end of the catalog number.

* "S" in catalog number indicates swivel coupling.



Female Flanged Lead Thread Inlet by Flare Copper Outlet

FORD CAT. No.	DESCRIPTION		APPROX. "A" DIM.	APPROX. WT. LBS.	STD. PKG. QTY.
	INLET SIZE/TYPE	OUTLET SIZE			
LFC2-13	1/2" XS	3/4"	1-7/16"	.9	15
LFC2-23	5/8" XS	3/4"	1-5/8"	.9	15
* LFSC2-33	3/4" XS	3/4"	1-7/8"	1.2	15
LFC2-44	1" XS	1"	2-1/8"	1.4	10

* "S" in catalog number indicates swivel coupling.

Options Available

No-lead alloy is available; add "-NL" to the end of the catalog number. With the no-lead option, brass components in contact with potable water shall be of no-lead alloy, UNS/CDA No. C89833. Brass components that do not come in contact with potable water shall be UNS/CDA No. C83600. See note on page A-2.

Ford Conversion Connections for Lead Service Corporation Stops

Many No-Lead products meet ANSI/NSF Standard 61 Annex G (or proposed ANSI/NSF Standard 372).

For 1/2" through 1" **Wiped Lead Joint Corporation Stops (The couplings below also fit Ford F200 & F300 Corporation Stops) Gaskets Are Included**

Note: See previous page for description of "A" dimension.

Female Coupling Thread Inlet by Flare Copper Outlet



FORD CAT. No.	DESCRIPTION			APPROX. "A" DIM.	APPROX. Wt. LBS.	STD. PKG. QTY.
	INLET SIZE	OUTLET SIZE	CORP SIZE			
QUARTER BENDS						
L102-23	5/8"	3/4"	5/8"	1-1/8"	.9	15
L102-33	3/4"	3/4"	3/4"	1-1/4"	.9	15
* L102-33S	3/4"	3/4"	3/4"	1-1/4"	1.1	14
L102-44	1"	1"	1"	1-1/2"	1.7	8
* L102-44S	1"	1"	1"	1-1/2"	1.5	8
EIGHTH BENDS						
LA102-23	5/8"	3/4"	5/8"	1-1/8"	.8	18
LA102-33	3/4"	3/4"	3/4"	1-1/4"	.8	18
* LA102-33S	3/4"	3/4"	3/4"	1-1/4"	1.0	15
LA102-44	1"	1"	1"	1-1/2"	1.4	8
* LA102-44S	1"	1"	1"	1-1/2"	1.4	10
STRAIGHT COUPLINGS						
C102-13	1/2"	3/4"	1/2"	1"	.6	25
C102-23	5/8"	3/4"	5/8"	1-1/8"	.7	25
C102-33	3/4"	3/4"	3/4"	1-1/4"	.7	25
C102-34	3/4"	1"	3/4"	1-1/4"	1.0	-
C102-44	1"	1"	1"	1-1/2"	1.3	10

* "S" in catalog number indicates swivel inlet.

Female Coupling Thread Inlet by Pack Joint for Copper or Plastic Tubing (CTS) Outlet

FORD CAT. No.	DESCRIPTION			APPROX. "A" DIM.	APPROX. Wt. LBS.	STD. PKG. QTY.
	INLET SIZE	OUTLET SIZE	CORP SIZE			
QUARTER BENDS						
L104-33	3/4"	3/4"	3/4"	1-1/4"	.9	-
▶ ♦ * L104-33S	3/4"	3/4"	3/4"	1-1/4"	1.1	12
▶ L104-44	1"	1"	1"	1-1/2"	1.5	-
▶ * L104-44S	1"	1"	1"	1-1/2"	1.4	8
EIGHTH BENDS						
▶ LA104-23	5/8"	3/4"	5/8"	1-1/8"	.8	18
♦ LA104-23S	5/8"	3/4"	5/8"	1-1/8"	.9	-
▶ LA104-33	3/4"	3/4"	3/4"	1-1/4"	.8	18
▶ * LA104-33S	3/4"	3/4"	3/4"	1-1/4"	1.0	15
▶ LA104-44	1"	1"	1"	1-1/2"	1.3	8
▶ * LA104-44S	1"	1"	1"	1-1/2"	1.3	10
STRAIGHT COUPLINGS						
▶ C104-13	1/2"	3/4"	1/2"	1"	.6	20
▶ ♦ C104-23	5/8"	3/4"	5/8"	1-1/8"	.7	20
▶ ♦ C104-33	3/4"	3/4"	3/4"	1-1/4"	.7	18
C104-34-Q	3/4"	1"	3/4"	1-1/4"	1.2	-
▶ ♦ C104-44	1"	1"	1"	1-1/2"	1.1	12

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

▶ ♦ **Quick Joint** is available. Add "-Q" to the catalog number. >

* "S" in catalog number indicates swivel inlet.

▶ **Ultra-Tite** compression is available. Add "-U-AWT" to the end of the catalog number. (Consists of two components assembled watertight.) For applications that require the Ultra-Tite coupling to be hand tight only, add "-U-ANWT" to the end of the catalog number.

Female Coupling Thread by Male Iron Pipe Thread



CATALOG NUMBER	DESCRIPTION			APPROX. Wt. LBS.	STD. PKG. QTY.
	INLET SIZE	OUTLET SIZE	CORP SIZE		
QUARTER BENDS					
L108-33S	3/4"	3/4"	3/4"	.7	-
L108-44S	1"	1"	1"	1.0	-

Options Available

No-lead alloy is available; add "-NL" to the end of the catalog number. With the no-lead option, brass components in contact with potable water shall be of no-lead alloy, UNS/CDA No. C89833. Brass components that do not come in contact with potable water shall be UNS/CDA No. C83600. See note on page A-2.

Section **A**

Ford Ballcorps and Corporation Stops

Warranty

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

Please Note:

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



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



Section AA

8/2010; Web Rev. 12/2010

Ford Service Saddles and Tapping Sleeves

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



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† See catalog section N for style FWS Ford Steel Weld-On Tapping Sleeves.

* All FS101, FC101, FS202, FC202, FSD202 AND FCD202 Saddles recommended for C900 or steel size PVC require sizes specific to the pipe O.D.

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



Information

Ford service saddles are used to install corporation stops on virtually all types of 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. All saddles feature 3/4" through 2" tapped outlets manufactured to ANSI/AWWA C800 or British Standard Pipe threads, as required.

Ductile iron saddles are available with either single or double electro-galvanized steel straps or with optional stainless steel bands. Brass saddles are cast of 85-5-5-5 water works brass. The popular S70-S90 series features a hinged design and the 101B-202B series incorporates 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 OD
 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
BSP = British Standard Pipe Thread

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

TYPE OF SADDLE

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
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
FS303 = All stainless steel saddle for PVC pipe
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

SIZE OUTLET THREAD

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

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 & FTSAS
- MJ** = Mechanical joint adapter outlet
- SH** = Optional stainless steel nuts and bolts on FTS
- AH** = Optional high strength low alloy steel nuts and bolts on removable bolt tapping sleeves

FAST - 970 - 4A - MJ

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

OUTLET SIZE

CODE

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

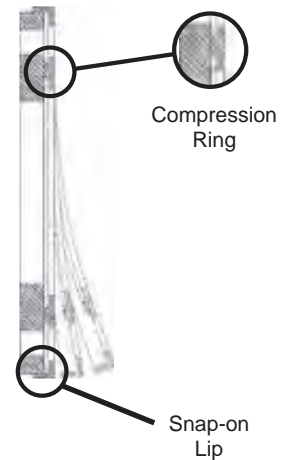
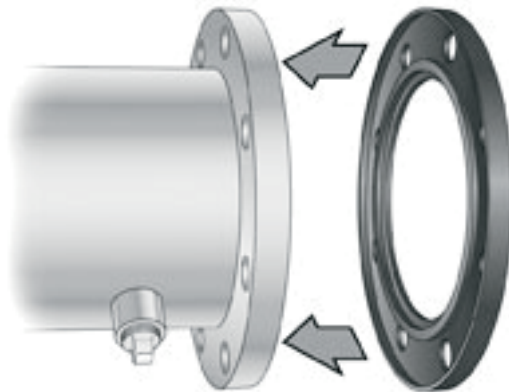
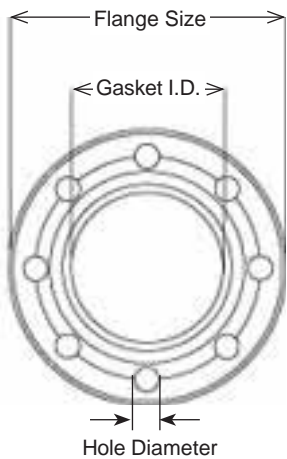
* Not available on FAST

-MJ
Mechanical Joint Adapter Outlet (Instead of C207 Flange Outlet)

Ford Ultra-Seal Gasket

4" Through 12" Nominal Ring Flange Sizes

The Ultra-Seal gasket, CSFG, made from Buna-N rubber is NSF-61 approved and test pressures well beyond AWWA Class D flanges. A raised lip on the OD of the gasket allows it to snap-on and stay on, eliminating the need for adhesives or 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.



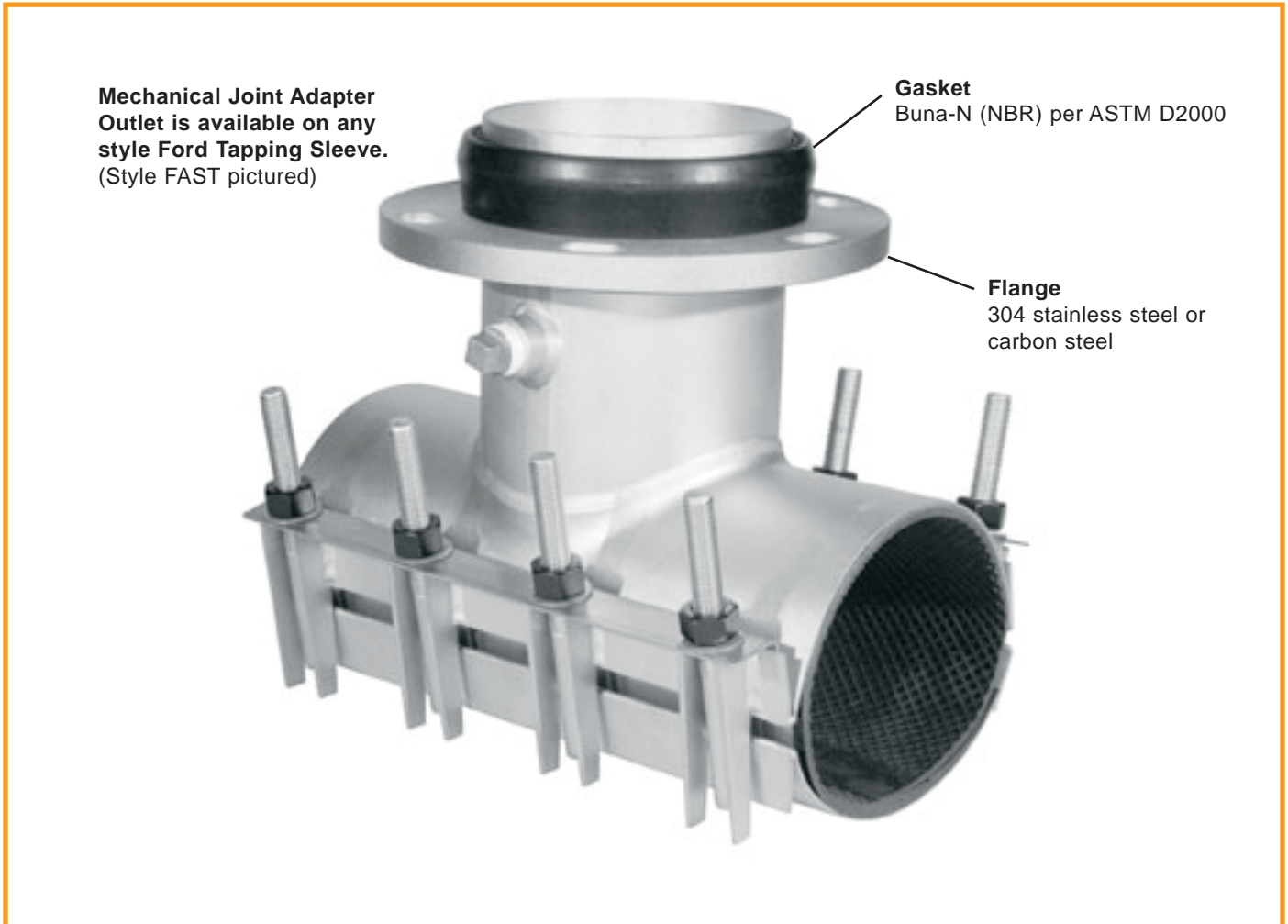
Ford Ultra-Seal Gasket for 4" Through 12" Nominal Ring Flange Sizes

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	-

Mechanical Joint Adapter Outlet Option

For Ford Tapping Sleeves

The mechanical joint adapter outlet design 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 contact prevents the joint from flexing and prevents the gasket from blowing out. The mechanical joint adapter outlet is available on all Ford Tapping Sleeves. To order this option, add “-MJ” to the end of the part number.



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

"-MJ" Outlet Size
4"
6"
8"
10"
12"
*14"
*16"
*18"
*20"
*24"

Refer to the specific catalog item for outlet sizes available.
* These outlet sizes not available on FAST style.

Ford Stainless Steel Tapping Sleeve

Style FAST Tapping Sleeve, 360° Gasket, Stainless Steel, Carbon Steel Flange or Mechanical Joint Adapter Outlet

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.

The sleeve is constructed of Grade 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.

Specifications

Test Plug
Waterworks brass 3/4" with standard square head. Proper use of this feature ensures positive seal before tapping.

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 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

Bolts and Nuts
18-8 stainless steel UNC threads. Heavy hex nuts and washers 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 stainless steel armors are molded flush into the gasket to bridge the gap between lugs.

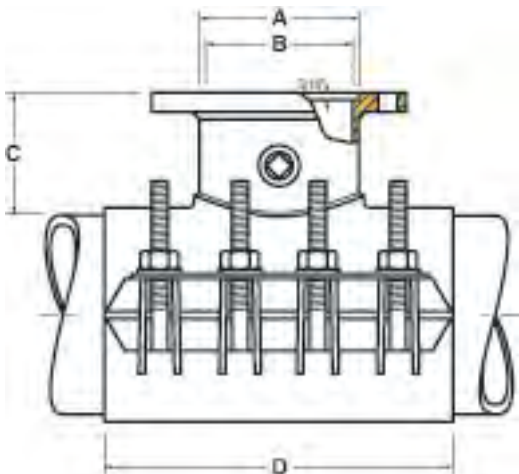
Body
18-8 type 304 stainless steel for corrosion control. All welds are fully passivated to restore stainless characteristics.

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).

Rating
FAST sleeve is rated for 150 psi working water pressure.

ANSI/NSF Standard 61
see page AA-2

FAST Dimensions



NOM. PIPE SIZE	C207 * CLASS D FLANGE SIZE	A	B	C	D	STUD SIZE	NO. OF STUDS	DESIGN STYLE
3"	3"	4-1/32"	3-1/4"	4-15/16"	15"	5/8"	8	2 pc.
	3"	4-1/32"	3-1/4"	4-15/16"	15"	5/8"	8	2 pc.
4" through 12"	4"	5-1/32"	4-1/4"	4-15/16"	15"	5/8"	8	2 pc.
	6"	7-1/32"	6-3/8"	5-1/4"	15"	5/8"	8	2 pc.
	8"	9-1/32"	8-3/8"	5-3/8"	20"	5/8"	12	2 pc.
	10"	11-1/32"	10-3/16"	5-7/8"	20"	3/4"	12	2 pc.
14"	12"	13-1/32"	12-7/16"	6"	24"	3/4"	14	2 pc.
	3"	4-1/32"	3-1/4"	4-15/16"	16"	3/4"	10	2 pc.
	4"	5-1/32"	4-1/4"	4-15/16"	16"	3/4"	10	2 pc.
	6"	7-1/32"	6-3/8"	5-1/4"	16"	3/4"	10	2 pc.
	8"	9-1/32"	8-3/8"	5-3/8"	20"	3/4"	12	2 pc.
16" - 18"	10"	11-1/32"	10-3/16"	5-7/8"	20"	3/4"	12	2 pc.
	12"	13-1/32"	12-7/16"	6"	24"	3/4"	14	2 pc.
	3"	4-1/32"	3-1/4"	4-15/16"	16"	5/8"	15	3 pc.
	4"	5-1/32"	4-1/4"	4-15/16"	16"	5/8"	15	3 pc.
	6"	7-1/32"	6-3/8"	5-1/4"	16"	5/8"	15	3 pc.
20" - 24"	8"	9-1/32"	8-3/8"	5-3/8"	20"	5/8"	18	3 pc.
	10"	11-1/32"	10-3/16"	6-7/8"	20"	3/4"	18	3 pc.
	12"	13-1/32"	12-7/16"	6"	24"	3/4"	21	3 pc.
	3"	4-1/32"	3-1/4"	4-15/16"	16"	3/4"	15	3 pc.
	4"	5-1/32"	4-1/4"	4-15/16"	16"	3/4"	15	3 pc.
20" - 24"	6"	7-1/32"	6-3/8"	5-1/4"	16"	3/4"	15	3 pc.
	8"	9-1/32"	8-3/8"	5-3/8"	20"	3/4"	18	3 pc.
	10"	11-1/32"	10-3/16"	5-7/8"	20"	3/4"	18	3 pc.
	12"	13-1/32"	12-7/16"	6"	24"	3/4"	21	3 pc.

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

4" - 12" MJ adapter outlets available, contact factory for dimensions.

Ford Stainless Steel Tapping Sleeve

Style FAST Tapping Sleeve, 360° Gasket,
Stainless Steel, Carbon Steel Flange
or Mechanical Joint Adapter Outlet

ANSI/NSF Standard 61
see page AA-2

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	X	3	3A	-	26
4"	4.50-4.80	FAST-480		X	4	4A	-MJ
	4.80-5.10	FAST-510					
	5.05-5.30	FAST-530					
6"	6.60-7.00	FAST-700	X	4	4A	-MJ	34
	6.90-7.30	FAST-730		6	6A		38
	7.10-7.50	FAST-750		8	8A		-MJ
8"	8.63-9.05	FAST-905	6		6A	42	
	9.05-9.45	FAST-945	8		8A	58	
	9.30-9.70	FAST-970	4	4A	-MJ	41	
10"	10.75-11.15	FAST-1115		6		6A	45
	11.05-11.45	FAST-1145		8		8A	65
	11.75-12.15	FAST-1215		10		10A	85
	12"	12.75-13.20	FAST-1320	4	4A	-MJ	44
13.10-13.50		FAST-1350	6	6A	48		
		14.00-14.40	FAST-1440	8	8A		68
			10	10A	88		
14"	15.30-15.70	FAST-1570	X	4	4A	-MJ	66
		FAST-1620		6	6A		71
				8	8A		88
				10	10A		96
				12	12A		125
16"	17.40-17.80	FAST-1780	X	4	4A	-MJ	75
		FAST-1815		6	6A		78
				8	8A		100
				10	10A		114
				12	12A		146
18"	19.50-19.92	FAST-1992	X	4	4A	-MJ	81
		FAST-2020		6	6A		86
				8	8A		106
				10	10A		119
				12	12A		153
20"	20.20-20.60	FAST-2060	X	4	4A	-MJ	87
		FAST-2160		6	6A		92
				8	8A		114
				10	10A		124
				12	12A		159
24"	23.80-24.20	FAST-2420	X	4	4A	-MJ	99
		FAST-2600		6	6A		103
				8	8A		127
				10	10A		135
				12	12A		171

Ford Stainless Steel Tapping Sleeve

Style FTSS Tapping Sleeve with Removable Bolts, 360° Gasket, Stainless Steel, Carbon Steel Flange or Mechanical Joint Adapter Outlet

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. FTSS Tapping Sleeves are chemically passivated to ensure maximum corrosion protection.

Specifications

Test Plug
Waterworks brass 3/4" with standard square head. Proper use of this feature ensures positive seal before tapping.

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

ANSI/NSF Standard 61
see page AA-2

Lugs
18-8 type 304 stainless steel cold formed for additional strength. MIG welded to body.

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

Flange
18-8 type 304 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

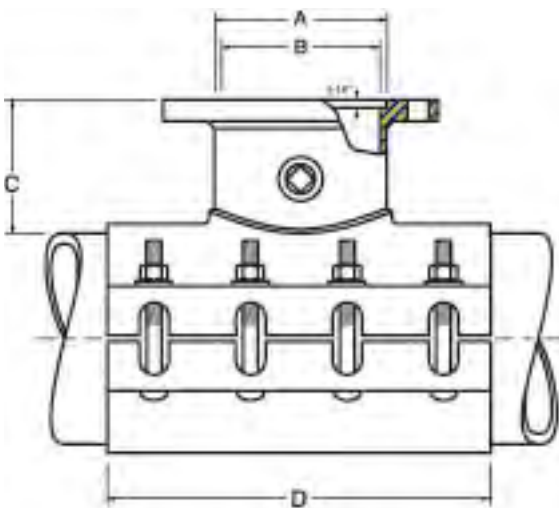
Outlet
18-8 type 304 stainless steel

Body
18-8 type 304 stainless steel for corrosion control. All welds are fully passivated to restore stainless characteristics.

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).

Rating:
FTSS sleeve is rated for 150 psi working water pressure.

FTSS Dimensions



NOM. PIPE SIZE	C207 * CLASS D FLANGE SIZE	A	B	C	D	BOLT SIZE	NUMBER OF BOLTS
4" through 12"	4"	5-1/32"	4-1/4"	5-3/16"	15"	5/8"	8
	6"	7-1/32"	6-3/8"	5-1/2"	15"	5/8"	8
	8"	9-1/32"	8-5/16"	5-5/8"	20"	5/8"	12
	10"	11-1/32"	10-1/4"	6-1/8"	20"	3/4"	12
14" through 16"	12"	13-1/32"	12-1/4"	6-1/4"	24"	3/4"	14
	4"	5-1/32"	4-1/4"	5-3/16"	16"	3/4"	10
	6"	7-1/32"	6-3/8"	5-1/2"	16"	3/4"	10
	8"	9-1/32"	8-5/16"	5-5/8"	20"	3/4"	12
18" through 24"	10"	11-1/32"	10-1/4"	6-1/8"	20"	3/4"	12
	12"	13-1/32"	12-1/4"	6-1/4"	24"	3/4"	14
	4"	5-1/32"	4-1/4"	5-3/16"	16"	3/4"	10
	6"	7-1/32"	6-3/8"	5-1/2"	16"	3/4"	10
14" - 24"	8"	9-1/32"	8-5/16"	5-5/8"	20"	3/4"	14
	10"	11-1/32"	10-1/4"	6-1/8"	20"	3/4"	14
	12"	13-1/32"	12-1/4"	6-1/4"	24"	3/4"	16
	Contact factory for details.						

Outlet Options: *Class E or Class F flange available, contact factory.
4" - 24" MJ adapter outlets available, contact factory for dimensions.

Ford Stainless Steel Tapping Sleeve

Style FTSS Tapping Sleeve with Removable Bolts, 360° Gasket, Stainless Steel, Carbon Steel Flange or Mechanical Joint Adapter Outlet

*ANSI/NSF Standard 61
see page AA-2*

To Order: Select the catalog sleeve number for the desired pipe material and range; complete the catalog number by adding the flange code. **Examples:** The complete FTSS catalog number for a 6" ductile iron pipe (6.90 OD) with a 4" stainless steel flange is FTSS-700-4. An FTSS for 6" ductile iron pipe (6.90 OD) with a 4" carbon steel mechanical joint outlet is FTSS-700-4A-MJ.

Style FTSS Tapping Sleeve with Removable Bolts

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- FTSS-500- FTSS-530- FTSS-540-	X	4	4A	-MJ	38
	4.80-5.00			4	4A		42
	5.10-5.30			6	6A		47
6"	6.63-7.00	FTSS-700- FTSS-730- FTSS-750-	X	4	4A	-MJ	42
	6.90-7.30			6	6A		47
	7.30-7.50			6	6A		47
8"	8.63-9.05	FTSS-905- FTSS-930- FTSS-960- FTSS-975-	X	4	4A	-MJ	42
	9.05-9.30			6	6A		49
	9.30-9.60			8	8A		75
10"	10.75-11.10	FTSS-1110- FTSS-1140- FTSS-1170- FTSS-1215-	X	4	4A	-MJ	47
	11.10-11.40			6	6A		53
	11.40-11.70			8	8A		79
12"	12.75-13.20	FTSS-1320- FTSS-1350- FTSS-1380- FTSS-1440-	X	4	4A	-MJ	50
	13.20-13.50			6	6A		55
	13.50-13.80			8	8A		86
14"	14.10-14.40	FTSS-1570- FTSS-1620- FTSS-1688-	X	10	10A	-MJ	104
	15.30-15.70			12	12A		138
	15.80-16.20			4	4A		75
16"	16.48-16.88	FTSS-1780- FTSS-1815- FTSS-1860- FTSS-1920-	X	6	6A	-MJ	82
	17.40-17.80			8	8A		102
	17.75-18.15			10	10A		110
18"	18.15-18.60	FTSS-1992- FTSS-2020-	X	12	12A	-MJ	146
	18.80-19.20			14	14A		160
	19.50-19.92			16	16A		195
20"	19.80-20.20	FTSS-2060- FTSS-2160-	X	18	18A	-MJ	210
	20.20-20.60			4	4A		84
	21.20-21.60			6	6A		90
24"	23.80-24.20 25.60-26.00 26.20-26.60	FTSS-2420- FTSS-2600- FTSS-2660-	X	8	8A	-MJ	112
				10	10A		120
				12	12A		160
30" - 36"			X	14	14A	-MJ	190
				16	16A		200
				18	18A		210
42" - 48"			X	20	20A	-MJ	222
				22	22A		230
				24	24A		256

Contact factory for information.

Ford Stainless Steel Tapping Sleeve

Style FTSAS Tapping Sleeves with Removable Bolts, Stainless Steel, Carbon Steel or Mechanical Joint 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.

Specifications

Test Plug
Waterworks brass 3/4" with standard square head. Proper use of this feature ensures positive seal before tapping.

Outlet
18-8 type 304 stainless steel

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

Lugs
18-8 type 304 stainless steel cold formed for additional strength. MIG welded to body.

Flange
18-8 type 304 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.

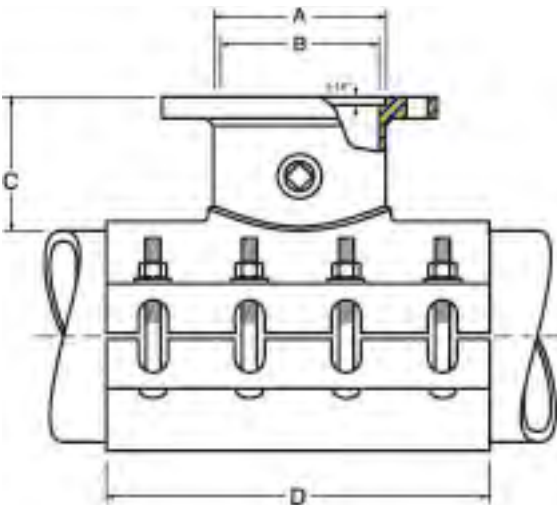
Optional:
Mechanical Joint Adapter Outlet

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

Body
Heavy welded, 18-8 type 304 stainless steel. Recessed groove or back-up ring on saddle to retain gasket. All components are passivated to restore stainless characteristics.

Rating:
FTSAS sleeve is rated for 150 psi working water pressure for pipe sizes 24" and smaller and outlet sizes 16" and smaller. Contact factory for pressure ratings on larger pipe and outlet sizes.

FTSAS Dimensions



Nom. PIPE SIZE	C207 * CLASS D FLANGE SIZE	A	B	C	D	NUMBER OF BOLTS	BOLT SIZE
4" through 12"	4	5-1/64"	4-1/4"	5-1/16"	12	6	3/4"
	6	7-1/64"	6-3/8"	5-1/16"	12	6	3/4"
	8	9-1/64"	8-3/8"	5-1/16"	15	8	3/4"
	10	11-1/64"	10-3/16"	5-1/16"	20	12	3/4"
14" through 16"	12	13-1/64"	12-7/16"	5-1/16"	24	14	3/4"
	4	5-1/64"	4-1/4"	5-1/16"	16	10	3/4"
	6	7-1/64"	6-3/8"	5-1/16"	16	10	3/4"
	8	9-1/64"	8-3/8"	5-1/16"	16	10	3/4"
	10	11-1/64"	10-3/16"	5-1/16"	20	12	3/4"
	12	13-1/64"	12-7/16"	5-1/16"	24	14	3/4"
	14				24	14	3/4"
	16	Contact factory for details			32	20	3/4"
18" through 24"	4	5-1/64"	4-1/4"	5-1/16"	16	10	3/4"
	6	7-1/64"	6-3/8"	5-1/16"	16	10	3/4"
	8	9-1/64"	8-3/8"	5-1/16"	16	10	3/4"
	10	11-1/64"	10-3/16"	5-1/16"	20	12	3/4"
	12	13-1/64"	12-7/16"	5-1/16"	24	14	3/4"
	14				24	14	3/4"
	16				32	20	3/4"
	18	Contact factory for details			36	24	3/4"
30"-36" 42"-48"	20				40	24	3/4"
	24				48	32	3/4"
	Contact factory for details.						

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

4" - 24" MJ adapter outlets available, contact factory for dimensions.

Ford Stainless Steel Tapping Sleeve

Style FTSAS Tapping Sleeves with Removable Bolts, Stainless Steel, Carbon Steel or Mechanical Joint 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 OD) with a 16" stainless steel flange is FTSAS-1787-16.

Style FTSAS Tapping Sleeves with Removable Bolts

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-	X	4	4A	-MJ	64
6"	6.57-6.73	FTSAS-673-		4	4A	-MJ	67
	6.83-7.16	FTSAS-716-		6	6A		74
8"	8.73-9.12 8.89-9.37	FTSAS-912- FTSAS-937-		4	4A	-MJ	85
				6	6A		89
				8	8A		94
10"	10.45-10.88 11.03-11.47 11.36-11.80	FTSAS-1088- FTSAS-11.47 FTSAS-11.80-		4	4A	-MJ	90
				6	6A		93
				8	8A		99
				10	10A		111
12"	12.42-12.88 13.13-13.60	FTSAS-1288- FTSAS-1360-		4	4A	-MJ	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-		4	4A	-MJ	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-		4	4A	-MJ	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	
			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	
			4	4A		249	
			6	6A		252	
			8	8A		257	
			10	10A		279	
			12	12A		310	
			14	14A		321	
			16	16A		377	
			18	18A		502	
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-	20	20A	-MJ	532	
			4	4A		268	
			6	6A		271	
			8	8A		276	
			10	10A		304	
			12	12A		339	
			14	14A		351	
			16	16A		414	
			18	18A		523	
			20	20A		586	
24	24A	727					

Note: A 1" undersize cutter is required for flanges larger than 12". Oversize outlets are available by special request.

Ford Steel Tapping Sleeves

Ford Carbon Steel Tapping Sleeves, Styles FTS and FTSC (Epoxy Coated) with Removable Bolts and Outlet Seal Gasket Carbon Steel or Mechanical Joint Adapter Outlet

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 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.

Inquiries regarding emergency orders are welcome and orders can normally be shipped within 24 to 48 hours.

Specifications

Test Plug - 3/4" with square operating head. Proper use of this feature ensures positive seal before tapping.

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.

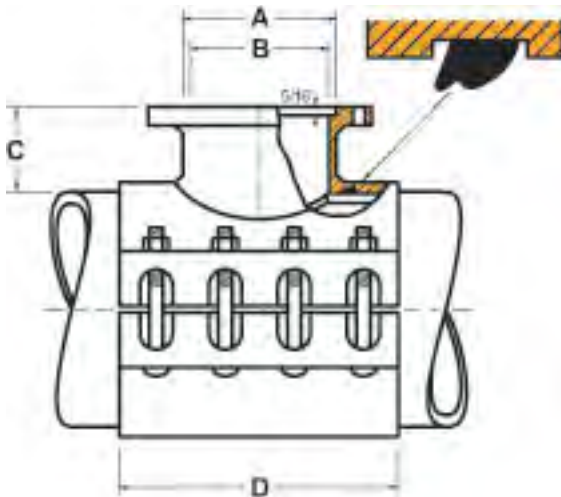
Rating
FTS and FTSC sleeves are rated for 150 psi working water pressure for pipe sizes 24" and smaller and outlet sizes 16" and smaller. Contact factory for pressure ratings on larger pipe and outlet sizes.

ANSI/NSF Standard 61
see page AA-2

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 A424 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.

FTS Dimensions



C207 * CLASS D FLANGE SIZE	NOMINAL DIMENSIONS - INCHES				No. OF BOLTS
	A	B	C	D	
4"	5-1/32"	4-1/4"	5-1/16"	12"	6
6"	7-1/32"	6-5/16"	5-1/16"	12"	6
8"	9-1/32"	8-1/4"	5-1/16"	16"	8
10"	11-1/32"	10-1/4"	5-1/16"	20"	10
12"	13-1/32"	12-1/4"	5-1/16"	24"	12
14"	15-9/32"	13-1/2"	6-1/4"	28"	14
16"	17-9/32"	15-1/2"	6-1/4"	32"	16
18"	19-1/2"	17-1/2"	6-1/4"	36"	18
20"	21-1/2"	19-1/2"	6-1/4"	40"	20
24"	25-1/2"	23-1/2"	6-1/4"	48"	24

Outlet Options: *Class E or Class F flange available, contact factory.
4" - 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" undersize cutter for flanges 14" and larger. Over-sized outlets, B dimension, are available by special request.

Ford Steel Tapping Sleeves

Ford Carbon Steel Tapping Sleeves, Styles FTS and FTSC (Epoxy Coated) with Removable Bolts and Outlet Seal Gasket Carbon Steel or Mechanical Joint Adapter Outlet

ANSI/NSF Standard 61
see page AA-2

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 can be ordered 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.

To Order: Add flange size to the appropriate sleeve number. For example: A 4" Flange on 6" cast 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.

Style FTS and FTSC (Epoxy Coated) Tapping Sleeves with Removable Bolts

NOM. PIPE SIZE	SLEEVE O.D. RANGE	SLEEVE NUMBER	EPOXY COATED SLEEVE	BY	FLANGE SIZE CODE	OPTIONAL MECHANICAL JOINT OUTLET	APPROX. WT. LBS.	
4"	4.50-4.80	*FTS-480	*FTSC-480	X	4	-MJ	41	
6"	6.57-6.73	*FTS-673	*FTSC-673		X	4	-MJ	65
	6.83-7.16	FTS-716	FTSC-716	6		-MJ	72	
	7.20-7.60	FTS-760	FTSC-760			72		
8"	7.40-7.73	FTS-773	FTSC-773	X	4	-MJ	73	
	7.95-8.05	**FTS-805	**FTSC-805		6	-MJ	79	
	8.36-8.75	*FTS-875	*FTSC-875			79		
10"	8.73-9.12	FTS-912	FTSC-912	X	8	-MJ	106	
	8.89-9.37	FTS-937	FTSC-937		8	-MJ	106	
	9.27-9.69	FTS-969	FTSC-969		8	-MJ	106	
	9.95-10.10	**FTS-1010	**FTSC-1010		4	-MJ	82	
10.45-10.88	FTS-1088	FTSC-1088	6	87				
11.03-11.47	FTS-1147	FTSC-1147	8	117				
11.36-11.80	FTS-1180	FTSC-1180	10	153				
12"	11.76-12.20	**FTS-1220	**FTSC-1220	X	4	-MJ	93	
	12.42-12.88	FTS-1288	FTSC-1288		6		98	
	13.13-13.60	FTS-1360	FTSC-1360		8		130	
	13.60-14.09	FTS-1409	FTSC-1409		10		169	
	14.10-14.58	FTS-1458	FTSC-1458		12		216	
14"-16"	14.59-15.08	FTS-1508	FTSC-1508	X	4	-MJ	99	
	15.23-15.72	FTS-1572	FTSC-1572		6		105	
	15.73-16.22	FTS-1622	FTSC-1622		8		139	
	16.30-16.73	FTS-1673	FTSC-1673		10		178	
	16.74-17.26	FTS-1726	FTSC-1726		12		230	
16"-18"	17.33-17.87	FTS-1787	FTSC-1787	X	4	-MJ	114	
	17.88-18.43	FTS-1843	FTSC-1843		6		120	
	18.46-19.03	FTS-1903	FTSC-1903		8		159	
	18.87-19.45	FTS-1945	FTSC-1945		10		203	
	19.41-20.01	FTS-2001	FTSC-2001		12		256	
18"-20"	19.88-20.48	FTS-2048	FTSC-2048	X	16	-MJ	413	
	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	
20"-24"	22.78-23.45	FTS-2345	FTSC-2345	X	12	-MJ	273	
	23.46-24.16	FTS-2416	FTSC-2416		16		412	
	24.15-24.85	FTS-2485	FTSC-2485		4		133	
	24.82-25.52	FTS-2552	FTSC-2552		6		136	
					8		180	
24"	25.71-26.41	FTS-2641	FTSC-2641	X	10	-MJ	229	
	26.55-27.25	FTS-2725	FTSC-2725		12		299	
	27.26-27.96	FTS-2796	FTSC-2796		16		430	
	28.14-28.84	FTS-2884	FTSC-2884		4		149	
					6		153	
30"	29.78-30.48	FTS-3048	FTSC-3048	X	8	-MJ	212	
	30.48-31.18	FTS-3118	FTSC-3118		10		260	
	31.52-32.22	FTS-3222	FTSC-3222		12		323	
					16		459	
					4		162	
36" - 48"							6	168
							8	222
							10	283
							12	350
							16	550

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" under sized cutter.

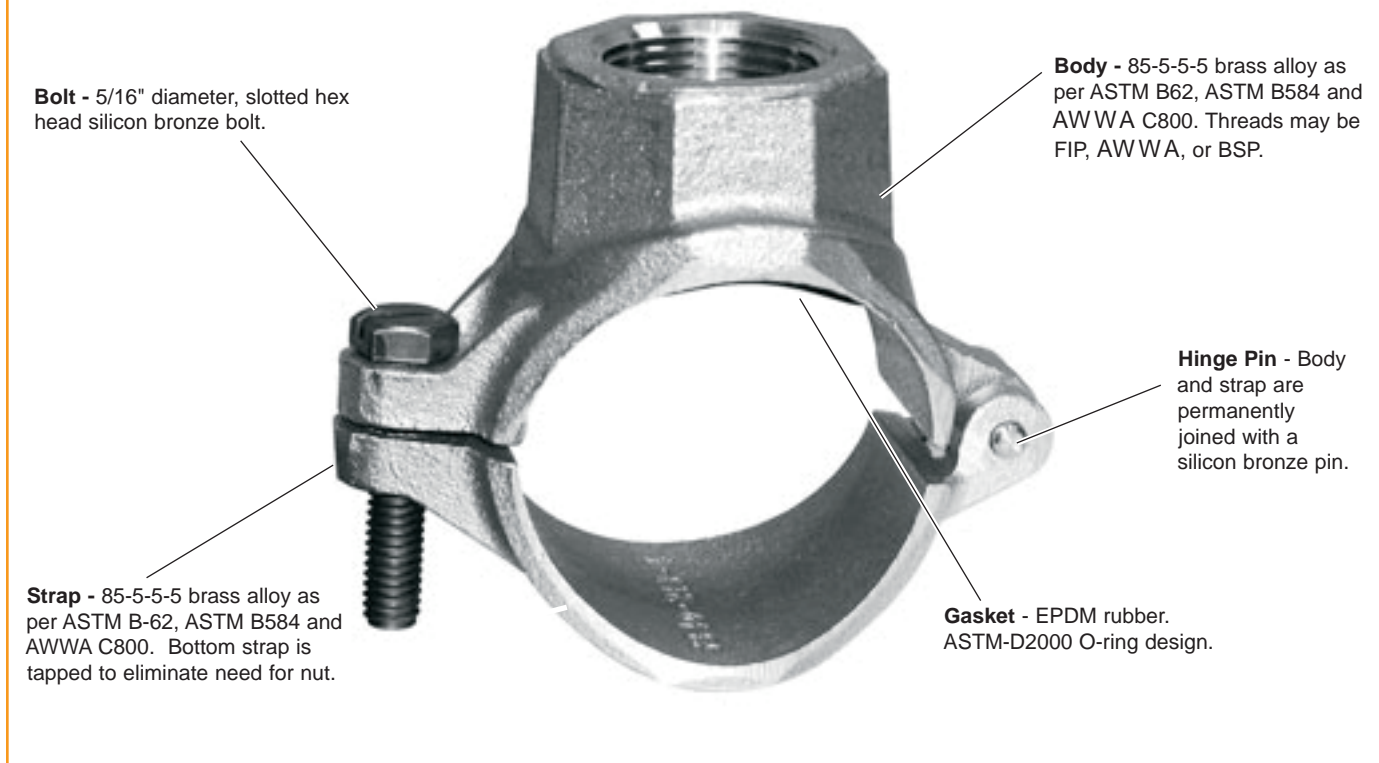
** Size on size for this range not available.

Ford Brass Saddles Style S40 and S41

For Copper Tubing

Specifications

Hinged S40 or S41



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"	-	6
		S40-203	S41-203	3/4"	-	6
		S40-204	S41-204	1"	-	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

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

Body - 85-5-5-5 brass alloy as per ASTM B-62, ASTM B584 and AWWA C800. Threads may be FIP, AWWA, or BSP.

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

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

ANSI/NSF Standard 61
see page AA-2

S70
2" and 3"
1-1/4" - 2" Taps

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.

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

S70
10" and 12"

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

Ford Brass Saddles Style S70 and S71

For Standard PVC Pipe




ANSI/NSF Standard 61
see page AA-2

Ford Saddles are cast from certified 85-5-5 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 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. BSP, British Standard Pipe, threads are available by request.

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.

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.	
Design A Hinged Design 	1-1/2"	1.900	S70-151	S71-151	1/2"	A	1.0	-
			S70-153	S71-153	3/4"	A	1.0	10
			S70-201	S71-201	1/2"	A	1.4	6
Design B 2-Piece Bolted Design 	2"	2.375	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	-
			S70-253	S71-253	3/4"	A	1.7	10
			S70-254	S71-254	1"	A	1.6	10
Design C 3-Piece Bolted Design 	2-1/2"	2.875	S70-255	S71-255	1-1/4"	B	3.8	-
			S70-256	S71-256	1-1/2"	B	3.6	-
			S70-301	S71-301	1/2"	A	1.9	4
Design B	3"	3.500	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
			S70-401	S71-401	1/2"	A	2.2	2
Design B	4"	4.500	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
			S70-503	S71-503	3/4"	A	2.6	4
			S70-504	S71-504	1"	A	2.5	4
Design B	5"	5.563	S70-601	S71-601	1/2"	A	2.9	6
			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
			S70-803	S71-803	3/4"	A	3.6	6
			S70-804	S71-804	1"	A	3.6	6
Design B	8"	8.625	S70-806	S71-806	1-1/2"	A	5.8	4
			S70-807	S71-807	2"	A	5.6	4
			S70-1003	S71-1003	3/4"	C	7.0	5
			S70-1004	S71-1004	1"	C	7.0	5
Design B	10"	10.75	S70-1006	S71-1006	1-1/2"	C	10.4	2
			S70-1007	S71-1007	2"	C	10.7	2
			S70-1203	S71-1203	3/4"	C	8.1	3
			S70-1204	S71-1204	1"	C	7.8	3
Design B	12"	12.75	S70-1206	S71-1206	1-1/2"	C	11.3	2
			S70-1207	S71-1207	2"	C	10.9	2

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

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, AWWA, or BSP.

ANSI/NSF Standard 61
see page AA-2

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

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.

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

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

Bolted S90

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

ANSI/NSF Standard 61
see page AA-2

S90
10" - 12"
3/4" and 1" taps
(Designs may vary with
size - see catalog listing)

S90
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.

Ford Brass Saddles Style S90 and S91

For C900 PVC Pipe


ANSI/NSF Standard 61
see page AA-2

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 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. BSP, British Standard Pipe, threads are available by request.

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.

Style S90 and S91 Saddles for C900 PVC Pipe

	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.
Design A Hinged Design 	2"	2.50	S90-201	S91-201	1/2"	A	.9	15
			S90-203	S91-203	3/4"	A	1.1	6
	4"	4.80	S90-401	S91-401	1/2"	A	-	-
			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	-	-	
		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	
		S90-1006	S91-1006	1-1/2"	C	10.5	2	
		S90-1007	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	
		S90-1206	S91-1206	1-1/2"	C	11.5	2	
		S90-1207	S91-1207	2"	C	11.0	2	

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

4"	4.80	S902-403	S912-403	3/4"	B	3.2	5
		S902-404	S912-404	1"	B	2.9	5
6"	6.90	S902-603	S912-603	3/4"	B	4.6	5
		S902-604	S912-604	1"	B	4.5	5
8"	9.05	S902-803	S912-803	3/4"	B	5.5	5
		S902-804	S912-804	1"	B	5.4	5

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 22.

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

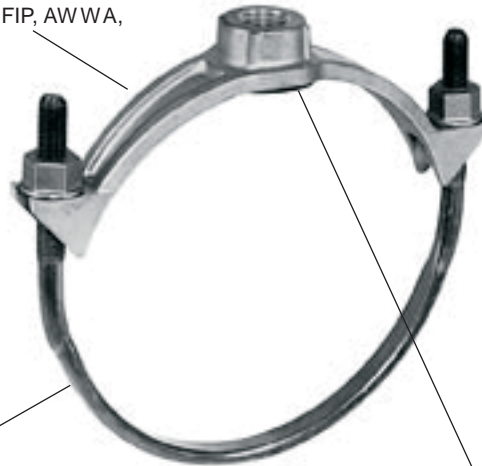
Specifications

101B

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

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



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

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

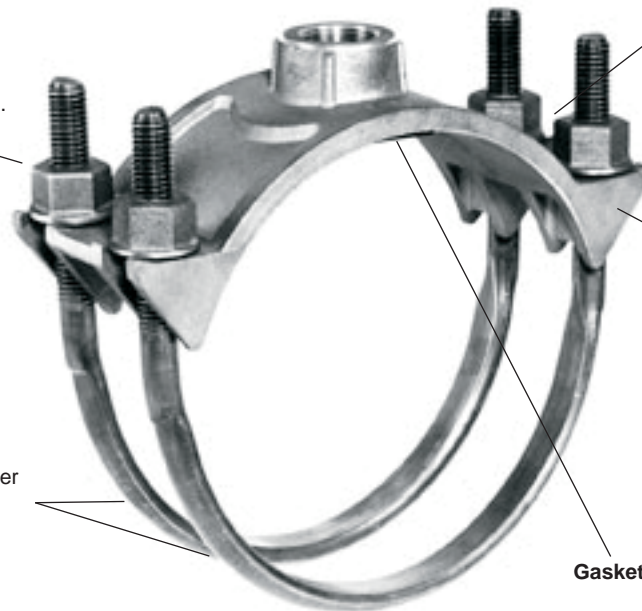
Gasket - EPDM rubber ASTM D2000

202B

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

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

ANSI/NSF Standard 61
see page AA-2



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

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

Gasket - EPDM rubber ASTM-D2000

OUTLET THREAD TAP CODE

CC (AWWA) THREAD		FIP THREAD		BSP THREAD	
THREAD	CODE	THREAD	CODE	THREAD	CODE
3/4" CC	CC3	3/4" IP	IP3	3/4" BSP	BSP3
1" CC	CC4	1" IP	IP4	1" BSP	BSP4
1-1/2" CC	CC6	1-1/2" IP	IP6	1-1/2" BSP	BSP6
2" CC	CC7	2" IP	IP7	2" BSP	BSP7

Ford Brass Saddles Styles 101B and 202B

ANSI/NSF Standard 61
see page AA-2

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. 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 guess work when going 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.

Style 101B Single Strap Brass Saddles 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 19 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 3/4" through 2" Taps



NOM. PIPE SIZE	O.D. RANGE	CATALOG NUMBER	APPROX. WT. LBS.	STD. PKG. QTY.	APPROX. WT. LBS.	STD. PKG. QTY.	APPROX. WT. LBS.	STD. PKG. QTY.
			3/4" & 1" TAPS	1-1/2" TAP	2" TAP			
4"	4.80-5.40	202B-540-Tap	6.6	6	7.1	6	N/A	N/A
	4.80-5.10	202B-510-Tap	N/A	N/A	N/A	N/A	7.3	6
	5.10-5.40	202B-540-Tap	N/A	N/A	N/A	N/A	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	6	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	1	17.5	1	17.5	1
	16.30-17.25	202B-1725-Tap	19.1	1	18.6	1	18.6	1
	17.40-18.40	202B-1840-Tap	23.0	1	22.5	1	22.5	1
16"	18.50-19.25	202B-1925-Tap	24.0	1	23.5	1	23.5	1
	19.50-20.50	202B-2050-Tap	25.0	1	24.5	1	24.5	1
	21.20-22.20	202B-2220-Tap	25.5	1	25.0	1	25.0	1
20"	22.50-23.50	202B-2350-Tap	25.7	1	25.2	1	25.2	1
	23.80-24.80	202B-2480-Tap	26.0	1	25.5	1	25.5	1
24"	25.60-26.50	202B-2650-Tap	26.5	1	26.0	1	26.0	1
	31.74-32.74	202B-3274-Tap	27.0	1	26.5	1	26.5	1

Please Note: 4" saddles with 2" taps have limited range as listed above, i.e. 4.80-5.10 and 5.10-5.40. 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 19 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

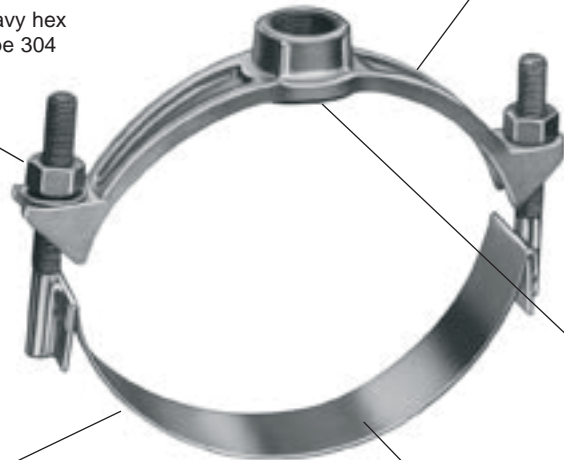
Band and Bolts - Wide band and 5/8" UNC threaded bolts of 18-8 type 304 stainless steel. Welds are fully passivated for corrosion resistance.

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

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

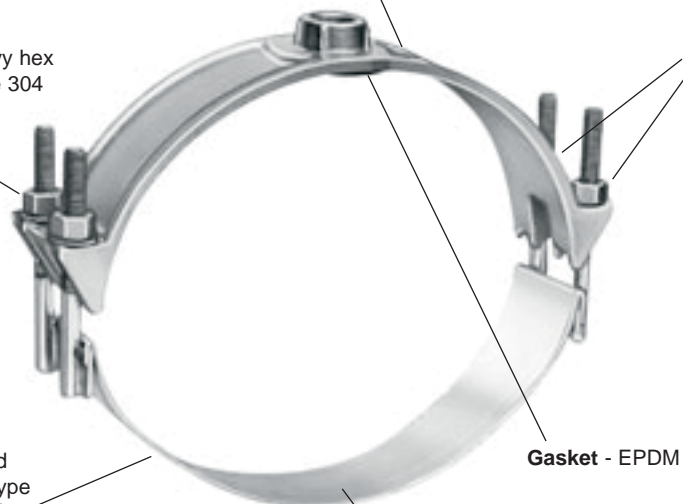
Band and Bolts - Wide band and 5/8" UNC threaded bolts of 18-8 type 304 stainless steel. Welds are fully passivated for corrosion resistance.

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

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		BSP THREAD	
THREAD	CODE	THREAD	CODE	THREAD	CODE
3/4" CC	CC3	3/4" IP	IP3	3/4" BSP	BSP3
1" CC	CC4	1" IP	IP4	1" BSP	BSP4
1-1/2" CC	CC6	1-1/2" IP	IP6	1-1/2" BSP	BSP6
2" CC	CC7	2" IP	IP7	2" BSP	BSP7

Ford Brass Saddles Styles 101BS and 202BS

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

ANSI/NSF Standard 61
see page AA-2

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. The 101BS and 202BS style saddles are ideally suited for tapping C900 PVC pipe. These saddles conform to the recommendation of Uni-Bell and AWWA.

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 21 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	10
6"	6.90	101BS-690-Tap	3.8	10
8"	9.05	101BS-905-Tap	4.4	5
10"	11.10	101BS-1110-Tap	5.4	1
12"	13.20	101BS-1320-Tap	5.9	1

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



To Order: Add tap code from the table at the bottom of page 21 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	5	7.6	6
6"	6.63	202BS-663-Tap	7.7	-	N/A	-
	6.90	202BS-690-Tap	7.7	3	8.8	3
8"	8.63	202BS-863-Tap	8.8	-	N/A	-
	9.05	202BS-905-Tap	8.8	3	9.8	3
10"	10.75	202BS-1075-Tap	10.7	-	NA	-
	11.10	202BS-1110-Tap	10.7	4	12.2	4
12"	12.75	202BS-1275-Tap	11.8	-	N/A	-
	13.20	202BS-1320-Tap	11.8	3	13.3	3
14"	15.30	202BS-1530-Tap	18.0	1	17.5	1
16"	17.40	202BS-1740-Tap	23.0	1	22.5	1
18"	19.50	202BS-1950-Tap	25.0	1	24.5	1
20"	21.60	202BS-2160-Tap	25.5	1	25.0	1
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 3/4" through 2" Taps

To Order: Add tap code from the table at the bottom of page 21 to the catalog number. For example, a saddle for 20" cast 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.
14"	15.30-16.25	202BS-1625-Tap	18.0	1	17.5	1
	16.30-17.25	202BS-1725-Tap	19.1	1	18.6	1
16"	17.40-18.40	202BS-1840-Tap	23.0	1	22.5	1
	18.50-19.25	202BS-1925-Tap	24.0	1	23.5	1
18"	19.50-20.50	202BS-2050-Tap	25.0	1	24.5	1
20"	21.20-22.20	202BS-2220-Tap	25.5	1	25.0	1
	22.50-23.50	202BS-2350-Tap	25.7	1	25.2	1
24"	23.80-24.80	202BS-2480-Tap	26.0	1	25.5	1
	25.60-26.50	202BS-2650-Tap	26.5	1	26.0	1
30"	31.74-32.74	202BS-3274-Tap	27.0	1	26.5	1

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 PVC pipe. They offer a simple, yet satisfactory, means of tapping water main pipe. The FS and FC Styles are recommended for use in highly 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 C900 PVC pipe. Pre-sized saddles will conform to the pipe O.D. without placing undue stress on the PVC 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.

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

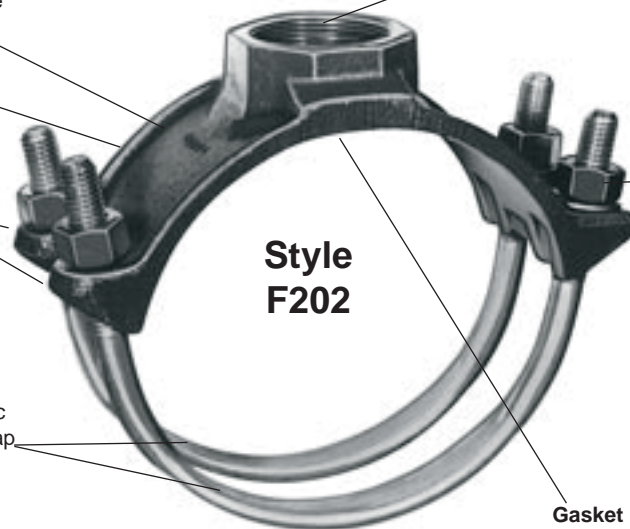
F101 and F202

Body - High strength ductile iron per ASTM A536.

Finish - Black E-coating.

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

Straps - 5/8" AISI C1010 steel, zinc plated with trivalent seal. Each strap has 5/8" flat bearing surface. 1/2" straps are furnished on saddles 3" and smaller.



Threads - CC or FIP per AWWA C800 or BSP.

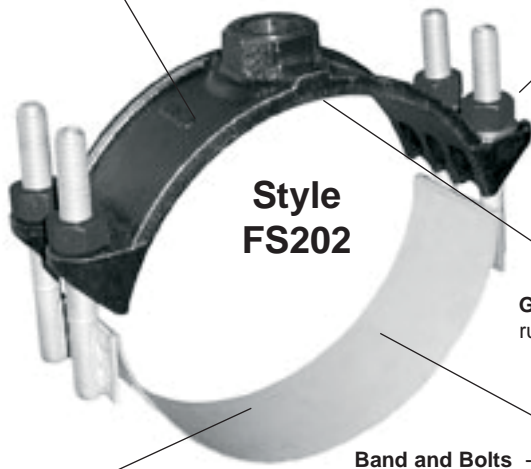
Heavy Hex Nuts and Washers - 1/2" or 5/8" AISI steel alloy, zinc plated, with dichromate seal.

ANSI/NSF Standard 61
see page AA-2

Gasket - EPDM rubber ASTM-D2000.

FS101 and FS202

Finish - Black E-coating.



3-1/4" minimum width (FS202)

Nuts and Washers - 18-8 type 304 stainless steel. 1/2" or 5/8" heavy hex nuts and washers are coated to prevent galling.

Gaskets - EPDM rubber ASTM D2000.

Band and Bolts - Wide band and 5/8" UNC threaded bolts of 18-8 type 304 stainless steel. 1/2" bolts are furnished on saddles 3" and smaller. Welds are fully passivated for corrosion resistance.

FC101 and FC202

Finish - Approximately 12 mils of fusion applied epoxy coating.



2" minimum width (FC101)

ANSI/NSF Standard 61
see page AA-2

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

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			STD. PKG. QTY.	APPROX. WT. LBS.
		STANDARD STRAP	STAINLESS BAND	EPOXY COATED		
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"	3.46-3.80	F101-380-Tap	FS101-380-Tap	FC101-380-Tap	8	2.1
	3.80-4.25	F101-425-Tap	FS101-425-Tap	FC101-425-Tap	6	2.4
4"	4.26-4.73	F101-473-Tap	FS101-473-Tap	FC101-473-Tap	6	2.8
	4.74-5.26	F101-526-Tap	* FS101-526-Tap	* FC101-526-Tap	6	3.0
6"	5.94-6.69	F101-669-Tap	FS101-669-Tap	FC101-669-Tap	5	3.5
	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
8"	7.93-8.71	F101-871-Tap	* FS101-871-Tap	* FC101-871-Tap	6	3.8
	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

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 a 3/4" CC thread tap would be FS101-1320-CC3

NOM. PIPE SIZE	PIPE O.D.	CATALOG NUMBER		STD. PKG. QTY.	APPROX. WT. LBS.
		STAINLESS BAND	EPOXY COATED		
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		BSP THREAD	
THREAD	CODE	THREAD	CODE	THREAD	CODE
3/4" CC	CC3	3/4" IP	IP3	3/4" BSP	BSP3
1" CC	CC4	1" IP	IP4	1" BSP	BSP4
1-1/4" CC	CC5	1-1/4" IP	IP5	1-1/4" BSP	BSP5
1-1/2" CC	CC6	1-1/2" IP	IP6	1-1/2" BSP	BSP6
2" CC	CC7	2" IP	IP7	2" BSP	BSP7

Ford Ductile Iron Service Saddles Styles F202, FS202 and FC202

ANSI/NSF Standard 61
see page AA-2

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 FS and FC styles are recommended for use in highly 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 pipe O.D. without placing undue stress on the PVC pipe. A separate listing of FS202 and FC202 saddles sized for C900 PVC is shown on page 26. 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.

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"	* 3.46-3.80	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"	* 4.26-4.73	F202-473-Tap	FS202-473-Tap	FC202-473-Tap	6	*6	5.4
	** 4.50-4.80	F202-480-Tap	FS202-480-Tap	FC202-480-Tap	6	6	5.4
	4.74-5.26	F202-526-Tap	FS202-526-Tap	FC202-526-Tap	6	6	5.4
	■ 4.74-5.00	F202-500-Tap	FS202-500-Tap	FC202-500-Tap	-	6	5.4
6"	■ 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
	6.63-6.90	F202-690-Tap	FS202-690-Tap	FC202-690-Tap	4	4	5.7
8"	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
	▲ 8.63-9.05	F202-905-Tap	FS202-905-Tap	FC202-905-Tap	4	4	8.2
10"	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
	10.75-11.10	F202-1110-Tap	FS202-1110-Tap	FC202-1110-Tap	4	4	9.0
12"	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
	** 12.75-13.20	F202-1320-Tap	FS202-1320-Tap	FC202-1320-Tap	2	2	11.5
14"	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
16"	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
18"	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
20"	21.20-22.20	F202-2220-Tap	FS202-2220-Tap	FC202-2220-Tap	1	1	13.2
	22.50-23.50	F202-2350-Tap	FS202-2350-Tap	FC202-2350-Tap	1	1	13.3
24"	23.80-24.80	F202-2480-Tap	FS202-2480-Tap	FC202-2480-Tap	1	1	13.4
	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 1-1/4" - 2-1/2" taps fit the top of the listed range only. Example: F202-1320-CC7 fits 13.20" pipe O.D. only.

▲ This saddle with 2" CC or 2-1/2" IP fits 9.05" O.D. pipe only.

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

Note:The table of outlet thread tap codes for double strap saddles is at the bottom of page 26.

Ford Ductile Iron Service Saddles Styles FS202 and FC202 For C900/C905 PVC

ANSI/NSF Standard 61
see page AA-2

Stainless Steel Double 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

OUTLET THREAD TAP CODE

CC (AWWA) THREAD		FIP THREAD		BSP THREAD	
THREAD	CODE	THREAD	CODE	THREAD	CODE
3/4" CC	CC3	3/4" IP	IP3	3/4" BSP	BSP3
1" CC	CC4	1" IP	IP4	1" BSP	BSP4
1-1/4" CC	CC5	1-1/4" IP	IP5	1-1/4" BSP	BSP5
1-1/2" CC	CC6	1-1/2" IP	IP6	1-1/2" BSP	BSP6
2" CC	CC7	2" IP	IP7	2" BSP	BSP7
-	-	2-1/2"	IP8	-	-

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

FSD202 and FCD202 Dual Band Saddles (with Dual Stainless Steel Band and Bolts)

NOM. PIPE SIZE	PIPE O.D.	CATALOG NUMBER	CATALOG NUMBER	CTN. QTY 3/4" & 1" TAPS	CTN. QTY. 1-1/4" - 2-1/2" TAPS	APPROX. WT. LBS.
		STAINLESS STEEL	EPOXY COATED			
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"	*3.46-3.80	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"	*4.26-4.73	FSD202-473-Tap	FCD202-473-Tap	6	6	5.4
	**4.50-4.80	FSD202-480-Tap	FCD202-480-Tap	6	6	5.4
	▲4.74-5.00	FSD202-500-Tap	FCD202-500-Tap	6	6	5.4
	*4.74-5.26	FSD202-526-Tap	FCD202-526-Tap	6	6	5.4
6"	▲4.97-5.26	FSD202-526-Tap	FCD202-526-Tap	6	6	5.4
	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
8"	6.84-7.60	FSD202-760-Tap	FCD202-760-Tap	4	4	6.7
	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
10"	8.99-9.79	FSD202-979-Tap	FCD202-979-Tap	3	5	8.4
	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
14"	13.20-14.38	FSD202-1438-Tap	FCD202-1438-Tap	3	3	12.8
	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"	17.40-18.40	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"	19.50-20.50	FSD202-2050-Tap	FCD202-2050-Tap	1	1	13.1
	21.20-22.20	FSD202-2220-Tap	FCD202-2220-Tap	1	1	13.2
20"	22.50-23.50	FSD202-2350-Tap	FCD202-2350-Tap	1	1	13.3
	23.80-24.80	FSD202-2480-Tap	FCD202-2480-Tap	1	1	13.4
24"	25.60-26.50	FSD202-2650-Tap	FCD202-2650-Tap	1	1	13.9
	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.

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

OUTLET THREAD TAP CODE

CC (AWWA) THREAD		FIP THREAD		BSP THREAD	
THREAD	CODE	THREAD	CODE	THREAD	CODE
3/4" CC	CC3	3/4" IP	IP3	3/4" BSP	BSP3
1" CC	CC4	1" IP	IP4	1" BSP	BSP4
1-1/4" CC	CC5	1-1/4" IP	IP5	1-1/4" BSP	BSP5
1-1/2" CC	CC6	1-1/2" IP	IP6	1-1/2" BSP	BSP6
2" CC	CC7	2" IP	IP7	2" BSP	BSP7
-	-	2-1/2"	IP8	-	-

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.

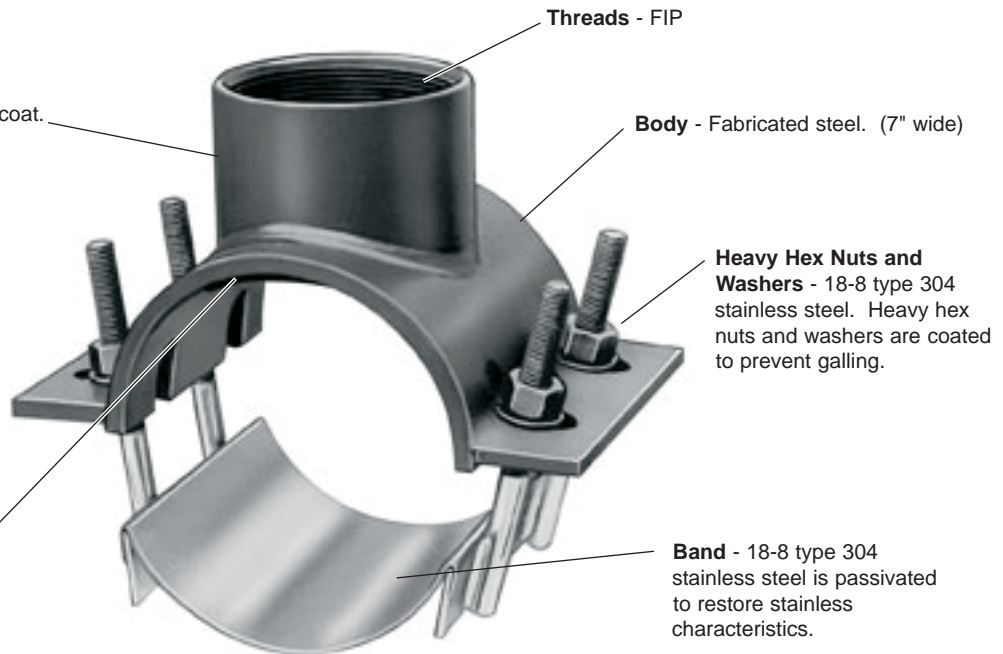
Specifications

FS202

Finish - Black shop coat.

ANSI/NSF Standard 61
see page AA-2

Outlet Gasket - Buna-N
(NBR) rubber ASTM-D2000.

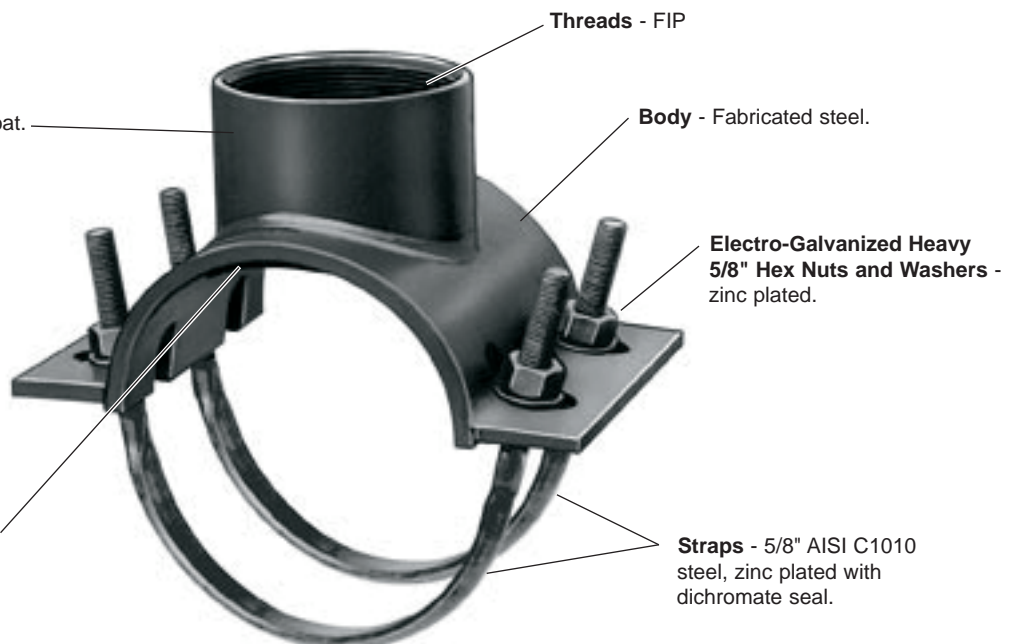


F202

Finish - Black shop coat.

ANSI/NSF Standard 61
see page AA-2

Outlet Gasket - Buna-N (NBR)
rubber ASTM-D2000.



Fabricated Steel Saddles Styles FS202 and F202

For 3" and 4" Taps

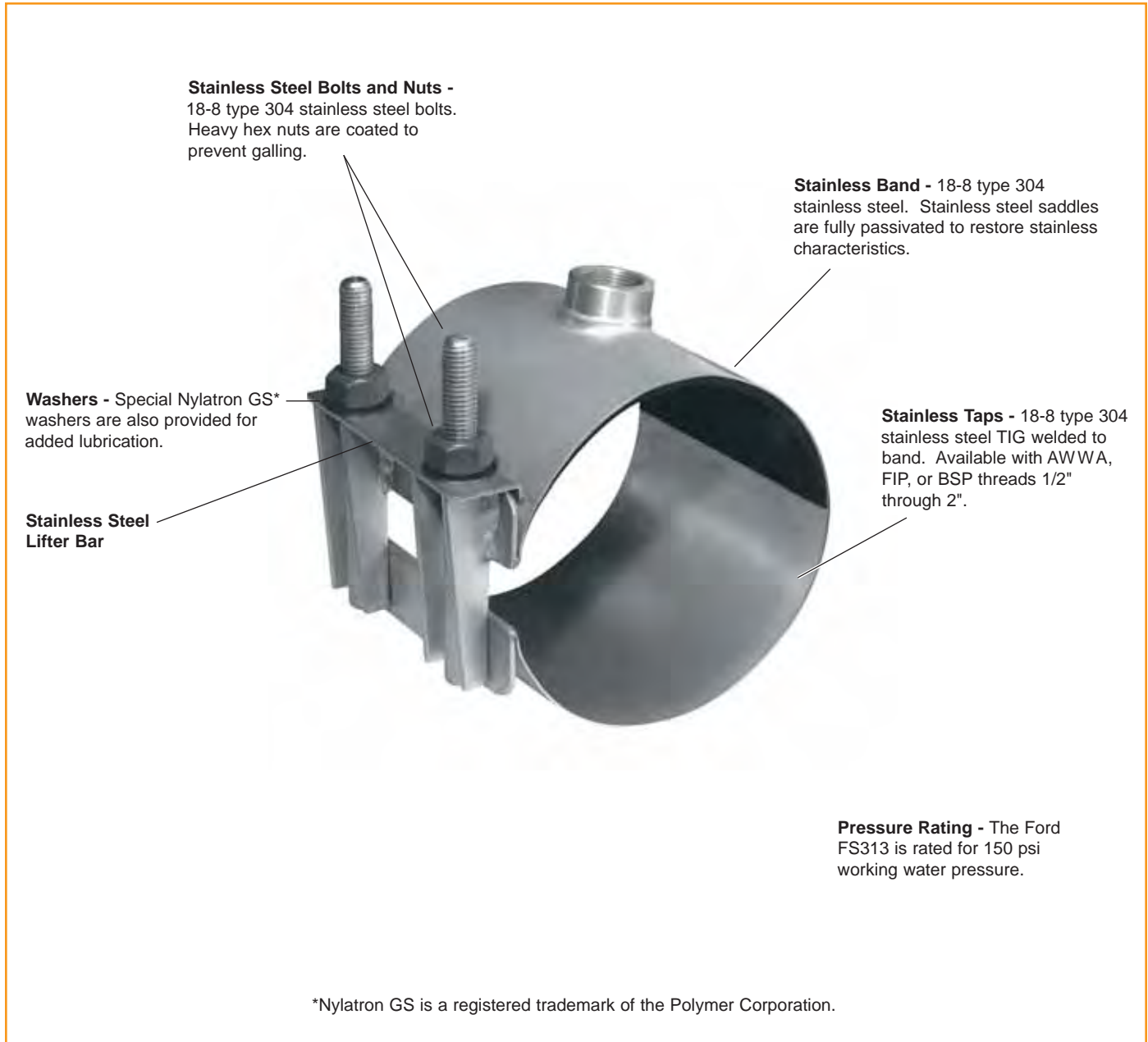
NOM. PIPE SIZE	ACTUAL PIPE O.D.	TAP SIZE	STAINLESS BAND CATALOG NUMBER	STEEL STRAPS CATALOG NUMBER	CTN. QTY.	APPROX. WT. LBS.
6"	6.00	3"	FS202-600-IP9	F202-600-IP9	1	15.7
	6.00	4"	FS202-600-IP11	F202-600-IP11	1	16.1
	6.63	3"	FS202-663-IP9	F202-663-IP9	1	16.0
	6.63	4"	FS202-663-IP11	F202-663-IP11	1	16.3
	6.90	3"	FS202-690-IP9	F202-690-IP9	1	16.4
	6.90	4"	FS202-690-IP11	F202-690-IP11	1	16.7
8"	8.00	3"	FS202-800-IP9	F202-800-IP9	1	16.6
	8.00	4"	FS202-800-IP11	F202-800-IP11	1	17.0
	8.63	3"	FS202-863-IP9	F202-863-IP9	1	16.9
	8.63	4"	FS202-863-IP11	F202-863-IP11	1	17.3
	9.05	3"	FS202-905-IP9	F202-905-IP9	1	17.2
	9.05	4"	FS202-905-IP11	F202-905-IP11	1	17.5
10"	10.00	3"	FS202-1000-IP9	F202-1000-IP9	1	18.0
	10.00	4"	FS202-1000-IP11	F202-1000-IP11	1	19.1
	10.75	3"	FS202-1075-IP9	F202-1075-IP9	1	18.4
	10.75	4"	FS202-1075-IP11	F202-1075-IP11	1	19.5
	11.10	3"	FS202-1110-IP9	F202-1110-IP9	1	18.8
	11.10	4"	FS202-1110-IP11	F202-1110-IP11	1	19.7
12"	12.00	3"	FS202-1200-IP9	F202-1200-IP9	1	20.0
	12.00	4"	FS202-1200-IP11	F202-1200-IP11	1	21.0
	12.75	3"	FS202-1275-IP9	F202-1275-IP9	1	20.5
	12.75	4"	FS202-1275-IP11	F202-1275-IP11	1	21.1
	13.20	3"	FS202-1320-IP9	F202-1320-IP9	1	20.8
	13.20	4"	FS202-1320-IP11	F202-1320-IP11	1	22.1
14"	14.00	3"	FS202-1400-IP9	N/A	1	22.0
	14.00	4"	FS202-1400-IP11	N/A	1	23.0
	15.30	3"	FS202-1530-IP9	N/A	1	22.6
	15.30	4"	FS202-1530-IP11	N/A	1	23.4
16"	16.00	3"	FS202-1600-IP9	N/A	1	23.5
	16.00	4"	FS202-1600-IP11	N/A	1	23.9
	17.40	3"	FS202-1740-IP9	N/A	1	23.7
	17.40	4"	FS202-1740-IP11	N/A	1	24.6
	17.80	3"	FS202-1780-IP9	N/A	1	23.8
	17.80	4"	FS202-1780-IP11	N/A	1	24.1
18"	18.00	3"	FS202-1800-IP9	N/A	1	24.0
	18.00	4"	FS202-1800-IP11	N/A	1	24.4
	19.50	3"	FS202-1950-IP9	N/A	1	24.5
	19.50	4"	FS202-1950-IP11	N/A	1	24.9
20"	20.00	3"	FS202-2000-IP9	N/A	1	24.9
	20.00	4"	FS202-2000-IP11	N/A	1	25.4
	21.60	3"	FS202-2160-IP9	N/A	1	25.0
	21.60	4"	FS202-2160-IP11	N/A	1	25.8
24"	24.00	3"	FS202-2400-IP9	N/A	1	25.9
	24.00	4"	FS202-2400-IP11	N/A	1	26.3
	25.80	3"	FS202-2580-IP9	N/A	1	27.0
	25.80	4"	FS202-2580-IP11	N/A	1	27.5
30"	30.00	3"	FS202-3000-IP9	N/A	1	28.3
	30.00	4"	FS202-3000-IP11	N/A	1	28.7
	32.00	3"	FS202-3200-IP9	N/A	1	29.9
	32.00	4"	FS202-3200-IP11	N/A	1	30.4

Ford Stainless Steel Saddles Style FS300

For 1/2" through 2" Taps

Primarily for use on Standard or C900 PVC Pipe
or for applications in a corrosive environment.

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	-
2-1/2"	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	-
4"	4.50-4.80	FS313-480-Tap	1/2"	2	6"	7-1/2"	1	3.3	3.9
5"	5.56	FS313-556-Tap	5/8"	2	6"	7-1/2"	1	4.4	4.8
6"	6.63-6.90	FS313-690-Tap	5/8"	2	6"	7-1/2"	1	4.7	5.1
8"	8.63-9.05	FS313-905-Tap	5/8"	2	6"	7-1/2"	1	5.2	5.8
10"	10.75-11.10	FS313-1110-Tap	5/8"	2	6"	7-1/2"	1	5.8	8.7
12"	12.75-13.20	FS313-1320-Tap	5/8"	2	6"	7-1/2"	1	6.4	9.3
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"	6	6"	7-1/2"	2	7.0	9.0
12"	12.70-13.50	FS323-1350-Tap	5/8"	6	6"	7-1/2"	2	9.0	11.0
14"	14.00-14.80	FS323-1480-Tap	5/8"	6	6"	7-1/2"	2	10.0	12.0
	14.95-15.75	FS323-1575-Tap	5/8"	6	6"	7-1/2"	2	10.0	12.0
	15.60-16.40	FS323-1640-Tap	5/8"	6	6"	7-1/2"	2	10.0	12.0
16"	15.75-16.55	FS323-1655-Tap	5/8"	6	6"	7-1/2"	2	10.5	12.5
	16.40-17.20	FS323-1720-Tap	5/8"	6	6"	7-1/2"	2	10.5	12.5
	17.20-18.00	FS323-1800-Tap	5/8"	6	6"	7-1/2"	2	10.5	12.5
18"	17.60-18.40	FS323-1840-Tap	5/8"	6	6"	7-1/2"	2	10.5	12.5
	18.00-18.80	FS323-1880-Tap	5/8"	6	6"	7-1/2"	2	10.5	12.5
	18.40-19.20	FS323-1920-Tap	5/8"	6	6"	7-1/2"	2	10.5	12.5
	18.80-19.60	FS323-1960-Tap	5/8"	6	6"	7-1/2"	2	10.5	12.5
	19.20-20.00	FS323-2000-Tap	5/8"	6	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"	6	6"	7-1/2"	4	14.5	17.0
	37.50-38.70	FS343-3870-Tap	5/8"	6	6"	7-1/2"	4	14.5	17.0

Other sizes and ranges available. Contact factory for details.

OUTLET THREAD TAP CODE

CC (AWWA) THREAD		FIP THREAD		BSP THREAD	
THREAD	CODE	THREAD	CODE	THREAD	CODE
-	-	1/2" IP	IP1	-	-
3/4" CC	CC3	3/4" IP	IP3	3/4" BSP	BSP3
1" CC	CC4	1" IP	IP4	1" BSP	BSP4
1-1/4" CC	CC5	1-1/4" IP	IP5	1-1/4" BSP	BSP5
1-1/2" CC	CC6	1-1/2" IP	IP6	1-1/2" BSP	BSP6
2" CC	CC7	2" IP	IP7	2" BSP	BSP7

Ford Repair Saddles

Style FRS202 Double Band

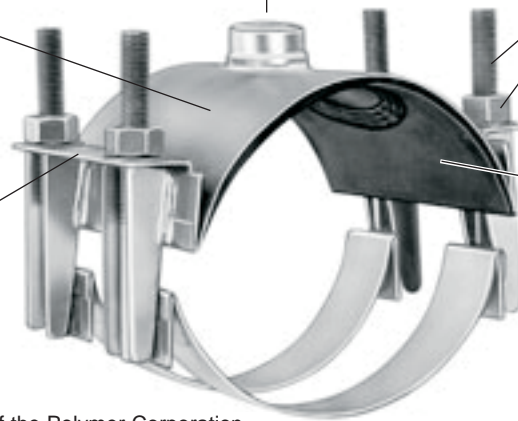
Specifications

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, AWWA or BSP threads.

Bolts and Nuts - 18-8 type 304 stainless steel 5/8" UNC threads. Heavy hex nuts are coated to prevent galling. Special Nylatron GS* washers are also provided for added lubrication.

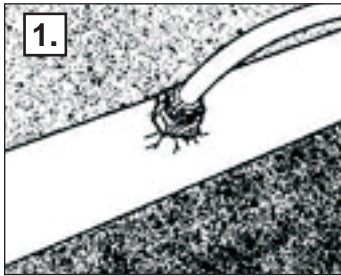
Lifter Bar - 18-8 type 304 stainless steel provides a heavy bearing surface for nuts.



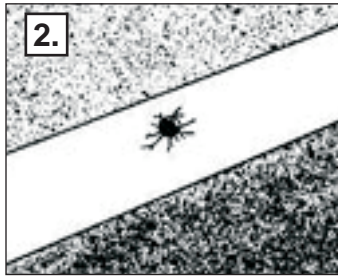
Gasket - Tapered Buna-N with circular grid as per ASTM D2000.

Pressure Rating - The Ford FRS Stainless Steel Repair Saddle is rated for 150 PSI working water pressure.

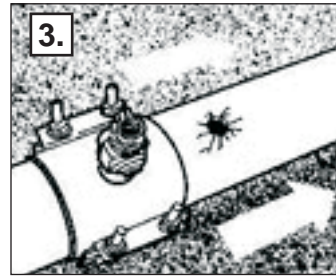
*Nylatron GS is a registered trademark of the Polymer Corporation.



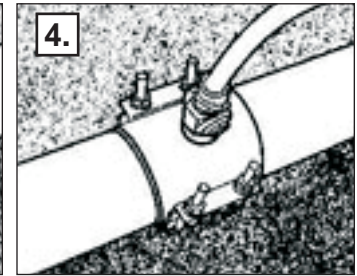
1. Confirm the leak location by cleaning and examining pipe.



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"
	23.20-24.00	FRS202-2400-Tap	-	1	7"
24"	25.60-26.40	FRS202-2640-Tap	-	1	7"

OUTLET THREAD TAP CODE

CC (AWWA) THREAD		FIP THREAD		BSP THREAD	
THREAD	CODE	THREAD	CODE	THREAD	CODE
3/4" CC	CC3	3/4" IP	IP3	3/4" BSP	BSP3
1" CC	CC4	1" IP	IP4	1" BSP	BSP4
1-1/4" CC	CC5	1-1/4" IP	IP5	1-1/4" BSP	BSP5
1-1/2" CC	CC6	1-1/2" IP	IP6	1-1/2" BSP	BSP6
2" CC	CC7	2" IP	IP7	2" BSP	BSP7

O.D. Chart

PIPE SIZE	PVC (STEEL SIZE)	PVC C900	CAST IRON			ASBESTOS-CEMENT			STEEL		
	O.D.	O.D.	CLASSES		O.D.	CLASS	MACHINED END O.D.	ROUGH BARREL O.D. MIN - MAX	TYPE	O.D.	
			PIT	SPUN							
1/2"	.84								STD.	.84	
3/4"	1.05								STD.	1.05	
1"	1.32								STD.	1.32	
1-1/4"	1.66								STD.	1.66	
1-1/2"	1.90								STD.	1.90	
2"	2.38	2.50			2.50				STD.	2.38	
2-1/2"	2.88								STD.	2.88	
3"	3.50		A	50 - 350	3.80	100	3.74	4.00	O.D.	3.00	
			B, C, D		3.96	150	3.84		STD.	3.50	
						200	3.84				
3-1/2"								STD.	4.00		
4"	4.50	4.80	A	50 - 350	4.80	100	4.64	4.79 - 5.14	O.D.	4.00	
			B, C, D		5.00	150	4.81		STD.	4.50	
						200	4.81			5.22 - 5.57	
4-1/2"								STD.	5.00		
5"								STD.	5.56		
6"	6.63	6.90	A	50 - 350	6.90	100	6.91	7.05 - 7.40	O.D.	6.00	
			B, C, D		7.10	150	6.91		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		9.30	150	9.11		STD.	8.63	
			E, F	350	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		11.40	150	11.66		STD.	10.75	
			E, F	250 - 350	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		13.50	150	13.92		STD.	12.75	
			E, F	250 - 350	13.76	200	13.92			14.03 - 14.38	
14"			A, B	50 - 100	15.30	100	15.07	15.40 - 15.80	O.D.	14.00	
			C, D		150 - 300	15.65	150				16.22
			E, F		15.98	200	16.22				16.48 - 16.88
16"			A, B	50 - 100	17.40	100	17.14	17.54 - 17.94	O.D.	16.00	
			C, D		150 - 300	17.80	150				18.46
			E, F		18.16	200	18.46				18.79 - 19.19
18"			A, B	50 - 100	19.50	100	19.90	20.44	STD.	18.00	
			C, D		150 - 250	19.92	150				20.94
						200	22.18				
20"			A, B	50 - 100	21.60	100	22.12	22.50	STD.	20.00	
			C, D		150 - 250	22.06	150				23.28
						200	24.66				
22"								STD.	22.00		
24"			A, B	50 - 100	25.80	100	26.48	27.17	STD.	24.00	
			C, D		150 - 250	26.32	150				27.96
						200	29.62				

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

Section AA

Ford Service Saddles and Tapping Sleeves

Warranty

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

Please Note:

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

The Ford Meter Box Company, Inc. manufacturing facilities are at the following locations:

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Wabash, Indiana 46992-0443
Phone: 260-563-3171 FAX: 800-826-3487
- The Ford Meter Box Company, Inc. - Pipe Products Division
815 Miles Parkway
Pell City, Alabama 35125
Phone: 205-884-4480 FAX: 205-884-4484



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Telephone: 260-563-3171 FAX: 800-826-3487 Overseas FAX: 260-563-0167 www.fordmeterbox.com