



THE FORD METER BOX COMPANY, INC.
CERTIFIED TO ISO 9001:2015
10004466

Section M

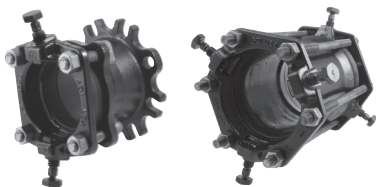
Ford® Cast Couplings and Adapters



Ford Couplings

Contents

| | Page |
|---|---------|
| Coupling Numbering System | 3 |
| Features of Ford Cast Couplings, Style FC1 and FC2A | 4 |
| Ford Couplings, Style FC1 | 5 |
| Ford Extended Length Ductile Iron Couplings, Style FC1-L12 | 6 |
| Ford Transition Couplings, Style FC2A | 7 |
| Transition Coupling Parts | 8 |
| Ford Extended Length Transition Couplings, Style FC2A-L12 | 9 |
| Extended Length Transition Coupling Parts | 10 |
| Ford Ultra-Flex Wide Range Couplings, Style FC2W | 11 |
| Ford Ultra-Flex Wide Range Long Sleeve Couplings, Style FC2W-L12 | 12 |
| Ford Insulating Boots, Style FIB | 12 |
| Ford Flanged Coupling Adapters, Style FFCA | 13 |
| Ford Cut-In Couplings, Style FRR | 14 |
| Ford End Cap Couplings, Style FEC and FC2W-EC | 15 |
| Ford Mechanical Joint Flange Adapter, Style MJFA | 16 - 17 |
| Ford Mechanical Joint Coupling, Style MJC | 18 - 19 |
| Ford FC2W Ultra-Flex Installation Instructions | 20 |
| Installation Instructions for Ford Flexible Couplings | 20 |
| Stainless Steel Inserts for HDPE Pipe | 21 |
| Pipe O.D. Chart | 22 |
| Warranty | 24 |



For restrained couplings and flange adapters, see Catalog Section U.

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Ford Bolted Coupling Numbering System

TYPE OF COUPLING

- FC1** = Ductile Iron Coupling
- FC2A** = Ductile Iron Transition Coupling
- FIB** = Insulating Boot for Ductile Iron Pipe and Cast Iron Pipe
- FFCA** = Iron Flanged Coupling Adapter
- FRR** = Cut-In Coupling
- FEC** = End Cap Coupling

OPTIONAL FEATURES

- = Omit Suffix for Standard Center Sleeve
- L12** = 12" Long Center Sleeve Length (only available for 4" and 6" FC1's and 4"-12" FC2A's)

FOR FFCA COUPLING ADAPTERS

- AS2** = Two Anchor Studs
- AS4** = Four Anchor Studs

FC1-690-720-L12-Y-

(small end)
O.D. Size

(large end)
O.D. Size

NOTE: For most coupling types each number indicates top end of range, only FC1 and FC2A have an O.D. size for each coupling end.

NOTE: For blue Fluorocarbon coated nuts and bolts, contact factory.

COATING, HARDWARE AND GASKET OPTIONS

COATING AND HARDWARE COMBINATIONS

| GASKET MATERIAL | Standard Shop Coat | | | | Epoxy Coated | | | |
|---------------------|----------------------|---------------------------|---------------------------|--------------------------|----------------------|---------------------------|---------------------------|--------------------------|
| | Standard Alloy Hdwr. | 304 Stainless Steel Hdwr. | 316 Stainless Steel Hdwr. | Electro Galvanized Hdwr. | Standard Alloy Hdwr. | 304 Stainless Steel Hdwr. | 316 Stainless Steel Hdwr. | Electro Galvanized Hdwr. |
| SBR Rubber | R | X | Q | G | E | Y | Z | K |
| NBR (Buna-N) Rubber | N | H | J | F | C | P | T | O |
| EPDM Rubber | S | M | V | W | A | B | D | L |

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

TYPE OF COUPLING

FC2W = Ductile Iron Wide Range Coupling (epoxy coated, NBR (Buna-N) gasket)

FC2W-6-L12-Q

NOMINAL PIPE SIZE

- 3** = 3"
- 4** = 4"
- 6** = 6"
- 8** = 8"
- 10** = 10"
- 12** = 12"
- 16** = 16"

OPTIONAL FEATURES

- = Omit Suffix for Standard Center Sleeve
- EC** = End Cap with 2" FIP Threaded Boss (sizes 4"-12")
- L12** = 12" Long Center Sleeve (sizes 3"-12")
- L12-EC** = 12" Long Center Sleeve (sizes 3"-12") with End Cap

NOTE: Forces created by internal water pressure and external conditions must be restrained.

NOTE: For blue Fluorocarbon coated nuts and bolts, contact factory.

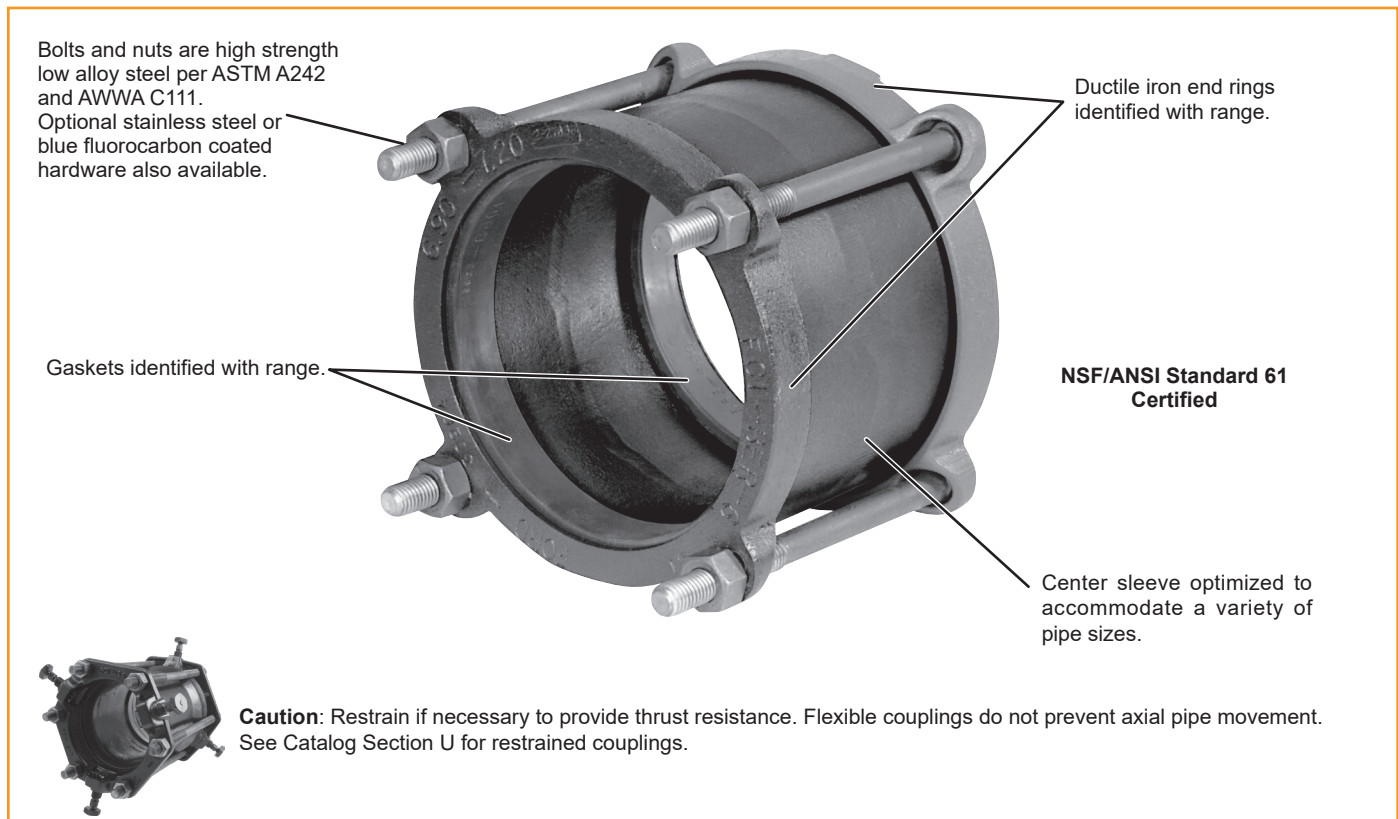
IMPORTANT: DOMESTIC PRODUCT COMPLIANCE NOTICE

The requirements for defining domestic product can vary among the many regulations, which have previously changed and can subsequently change. Please contact your Ford Customer Service Representative to clarify which Ford products currently meet a specific regulatory requirement (AIS, Buy America, Buy American, DOT).

Information

General Features of Ford Cast Couplings

Ford Cast Couplings offer an easy and economical way of joining pipe, whether the pipe is of the same nominal size and type or different at each coupling end. Ford FC1, FC2A and most cast couplings offer the following quality features:

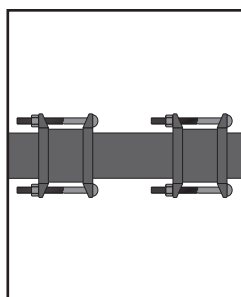


Specifications:

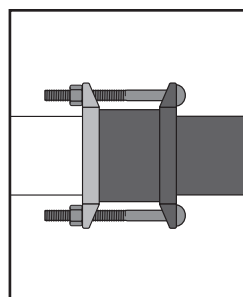
Ford Cast Couplings as listed in Catalog Section M are manufactured in accordance with the design, testing and performance standards of AWWA C219.

- Center Sleeve -** Cast from ductile iron per ASTM A536 Grade 65-45-12 or carbon steel per ASTM A36.
- End Rings -** Cast from ductile iron per ASTM A536 Grade 65-45-12. End rings are color coded for easy identification.
- Gaskets -** SBR rubber per ASTM D2000. Gaskets have size and end ring color code embossed for easy identification. Optional armored gaskets are available on Style FC1 and Style FC2A in 4" thru 12" nominal pipe sizes. Optional NBR (Buna-N) or EPDM gaskets are available.
- Bolts and Heavy Hex Nuts -** High strength low alloy per ASTM A242 and AWWA C111. Optional blue fluorocarbon coating available. Optional stainless steel also available.
- Finish -** Shop coat. Optional fusion bonded epoxy coating is available.

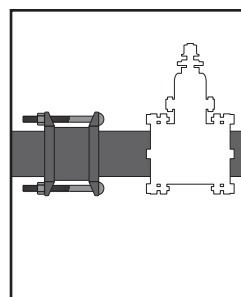
Typical Uses for Ford Cast Couplings



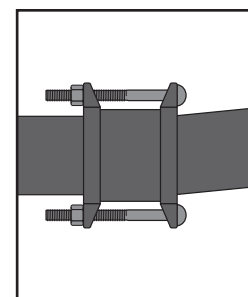
To repair split pipe



To couple different types of pipe



To install (cut-in) hydrants and valves



To connect misaligned pipe

Ford Couplings

Style FC1



Style FC1 for Cast, Steel,
Ductile Iron or PVC Pipe

Rated Working Pressure: Up to 300 psi
based on pipe type

Suggested uses for Ford FC1 Couplings include water main repair, joining of plain end pipe, valve and hydrant installation, and flexible joint installation at critical areas of water main stress.

The FC1 Couplings are constructed entirely of ductile iron components, permitting a strong, durable connection.

Only the FC1 offers one gasket and end ring that fits all PVC and ductile iron pipe in the most popular sizes: 4", 6", and 8". Gasket ranges are embossed on each gasket for easy identification.

Caution: Restrain if necessary to provide thrust resistance.

Flexible couplings do not prevent axial pipe movement.

See Catalog Section U for restrained couplings.

| NOM. PIPE SIZE | CATALOG NUMBER PREFIX | GASKET RANGE | | END RING COLOR CODE | BY | GASKET RANGE | | END RING COLOR CODE | CENTER SLEEVE LENGTH | NUMBER OF BOLTS | APPROX. WEIGHT LBS |
|----------------|-----------------------|-------------------------|---------|---------------------|----|-------------------|---------|---------------------|----------------------|-----------------|--------------------|
| | | 1ST. HALF CAT. NO. | | | | 2ND HALF CAT. NO. | | | | | |
| 2" | FC1- | 2.34 | — 2.63 | Red | X | 2.34 | — 2.63 | Red | 4" | 2 | 6 |
| 2 1/2" | FC1- | See 2" FC2A on page M-7 | | | | | | | | | |
| 4" | FC1- | 4.00 | — 4.00 | Red | X | 4.00 | — 4.00 | Red | 5" | 3 | 14 |
| | | 4.50 | — 4.80 | Red | | 4.50 | — 4.80 | Red | | | |
| | | 4.80 | — 5.10 | Black | | 4.80 | — 5.10 | Black | | | |
| 6" | FC1- | 6.00 | — 6.00 | Red | X | 6.00 | — 6.00 | Red | 5" | 4 | 20 |
| | | 6.30 | — 6.30 | Red | | 6.30 | — 6.30 | Red | | | |
| | | 6.63 | — 6.90 | Red | | 6.63 | — 6.90 | Red | | | |
| | | 6.90 | — 7.20 | Black | | 6.90 | — 7.20 | Black | | | |
| 8" | FC1- | 8.00 | — 8.00 | Red | X | 8.00 | — 8.00 | Red | 5" | 5 | 29 |
| | | 8.16 | — 8.40 | Red | | 8.16 | — 8.40 | Red | | | |
| | | 8.63 | — 9.05 | Red | | 8.63 | — 9.05 | Red | | | |
| | | 9.05 | — 9.40 | Black | | 9.05 | — 9.40 | Black | | | |
| 10" | FC1- | 10.20 | — 10.50 | Red | X | 10.20 | — 10.50 | Red | 6" | 6 | 41.5 |
| | | 10.75 | — 10.75 | Red | | 10.75 | — 10.75 | Red | | | |
| | | 11.10 | — 11.46 | Black | | 11.10 | — 11.46 | Black | | | |
| 12" | FC1- | 12.24 | — 12.50 | Red | X | 12.24 | — 12.50 | Red | 6" | 7 | 54.5 |
| | | 12.75 | — 12.75 | Red | | 12.75 | — 12.75 | Red | | | |
| | | 13.20 | — 13.56 | Black | | 13.20 | — 13.56 | Black | | | |

To order: Locate the gasket range that accommodates your pipe O.D. for both pipe ends. Use the top range of each gasket size to determine the part number. For example, to connect pipe with an O.D. of 6.63 to a pipe with an O.D. of 7.10, the catalog number is FC1-690-720. For 100% domestic content, contact factory for pricing and availability.

Options: For available options, see chart on page M-3.

Component Parts for Style FC1 Couplings

| NOM. PIPE SIZE | GASKET CAT. No. | END RING CAT. No. | CENTER SLEEVE CAT. No. | BOLT AND NUT CAT. No. |
|----------------|-----------------|-------------------|------------------------|-----------------------|
| 2" | FC1G-234-263 | FC1-RER-2 | FC1-CS-2 | FBN-58-65 |
| | FC1G-400 | FC1-RER-4 | | |
| 4" | FC1G-450-480 | FC1-RER-4 | FC1-CS-4 | FBN-58-8 |
| | FC1G-480-510 | FC1-BER-4 | | |
| 6" | FC1G-600 | FC1-RER-6 | FC1-CS-6 | FBN-58-8 |
| | FC1G-630 | FC1-RER-6 | | |
| | FC1G-663-690 | FC1-RER-6 | | |
| | FC1G-690-720 | FC1-BER-6 | | |
| 8" | FC1G-800 | FC1-RER-8 | FC1-CS-8 | FBN-58-8 |
| | FC1G-816-840 | FC1-RER-8 | | |
| | FC1G-863-905 | FC1-RER-8 | | |
| | FC1G-905-940 | FC1-BER-8 | | |
| 10" | FC1G-1020-1050 | FC1-RER-10 | FC1-CS-10 | FBN-58-9 |
| | FC1G-1075 | FC1-RER-10 | | |
| | FC1G-1110-1146 | FC1-BER-10 | | |
| 12" | FC1G-1224-1250 | FC1-RER-12 | FC1-CS-12 | FBN-58-9 |
| | FC1G-1275 | FC1-RER-12 | | |
| | FC1G-1320-1356 | FC1-BER-12 | | |

Ford Extended Length Couplings

Style FC1-L12



Suggested uses for Ford FC1-L12 Couplings include water main repair, joining of plain end pipe, valve and hydrant installation, and flexible joint installation at critical areas of water main stress.

The FC1 Couplings are constructed entirely of ductile iron components, permitting a strong, durable connection.

Only the FC1-L12 offers one gasket and end ring that fits all PVC and ductile iron pipe in the most popular sizes: 4" and 6", with 12" center sleeve length. Gasket ranges are embossed on each gasket for easy identification. End rings are color coded to match the color embossed on each gasket.

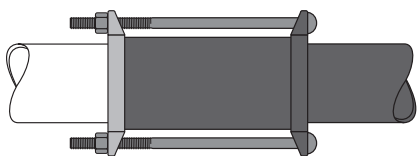
Style FC1-L12 for Cast, Ductile Iron or PVC Pipe
Rated Working Pressure: Up to 300 psi

Caution: Restrain if necessary to provide thrust resistance.
Flexible couplings do not prevent axial pipe movement.
See Catalog Section U for restrained couplings.

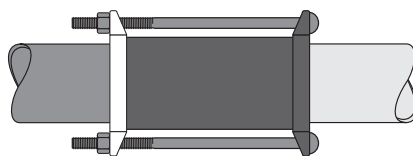
| NOM. PIPE SIZE | CATALOG NUMBER PREFIX | GASKET RANGE | | END RING COLOR CODE | BY | GASKET RANGE | | END RING COLOR CODE | CATALOG NUMBER SUFFIX | CENTER SLEEVE LENGTH | NUMBER OF BOLTS | APPROX. WEIGHT LBS |
|----------------|-----------------------|--------------------|-------------------|---------------------|----|--------------------|-------------------|---------------------|-----------------------|----------------------|-----------------|--------------------|
| | | 1ST. HALF CAT. NO. | 2ND HALF CAT. No. | | | 1ST. HALF CAT. No. | 2ND HALF CAT. No. | | | | | |
| 4" | FC1- | 4.00 — 4.00 | 4.00 | Red | X | 4.00 — 4.00 | 4.00 | Red | -L12 | 12" | 3 | 29 |
| | | 4.50 — 4.80 | 4.80 | Red | | 4.50 — 4.80 | 4.80 | Red | | | | |
| | | 4.80 — 5.10 | 5.10 | Black | | 4.80 — 5.10 | 5.10 | Black | | | | |
| 6" | FC1- | 6.00 — 6.00 | 6.00 | Red | X | 6.00 — 6.00 | 6.00 | Red | -L12 | 12" | 4 | 42 |
| | | 6.30 — 6.30 | 6.30 | Red | | 6.30 — 6.30 | 6.30 | Red | | | | |
| | | 6.63 — 6.90 | 6.90 | Red | | 6.63 — 6.90 | 6.90 | Red | | | | |
| | | 6.90 — 7.20 | 7.20 | Black | | 6.90 — 7.20 | 7.20 | Black | | | | |

To order: Locate the gasket range that accommodates your pipe O.D. for both pipe ends. Use the top range of each gasket size to determine the part number. For example, to connect pipe with an O.D. of 6.63 to a pipe with an O.D. of 7.10, the catalog number is FC1-690-720-L12.

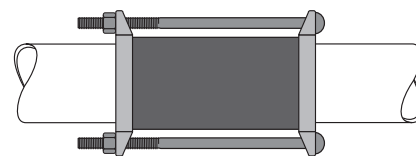
Options: For available options, see chart on page M-3.



Steel Size PVC x Ductile Iron



A/C x C900 PVC



Steel Size PVC x Steel Size PVC

Component Parts for Style FC1-L12 Extended Length Couplings

| NOM. PIPE SIZE | GASKET CAT. NO. | END RING CAT. NO. | CENTER SLEEVE CAT. NO. | BOLT AND NUT CAT. NO. |
|----------------|-----------------|-------------------|------------------------|-----------------------|
| 4" | FC1G-400 | FC1-RER-4 | FC1-CS-4-L12 | FBN-58-155 |
| | FC1G-450-480 | FC1-RER-4 | | |
| | FC1G-480-510 | FC1-BER-4 | | |
| 6" | FC1G-600 | FC1-RER-6 | FC1-CS-6-L12 | FBN-58-155 |
| | FC1G-630 | FC1-RER-6 | | |
| | FC1G-663-690 | FC1-RER-6 | | |
| | FC1G-690-720 | FC1-BER-6 | | |

Ford Transition Couplings

Style FC2A



Ford Iron Transition Couplings provide a convenient method of joining two pipes of the same nominal size but with different O.D.s. Gaskets are embossed and end rings are color coded for easy identification. The gaskets are identified with the exact O.D. range and the end ring color with which it is to be used. Generally, red signifies use on steel size PVC, black for iron pipe and Class 150 A/C, and white/gray for Class 200 A/C. See the table below for exact ranges. Larger, fabricated steel couplings are detailed in Catalog Section N.

Caution: Restrain if necessary to provide thrust resistance.

Flexible couplings do not prevent axial pipe movement.

See Catalog Section U for restrained couplings.

Rated Working Pressure: 250 psi (sizes 2" - 12")
150 psi (sizes 14" - 24")

| NOM. PIPE SIZE | CATALOG NUMBER PREFIX | GASKET RANGE | | END RING COLOR CODE | BY | GASKET RANGE | | END RING COLOR CODE | CENTER SLEEVE LENGTH | NUMBER OF BOLTS | APPROX. WEIGHT LBS |
|----------------|-----------------------|--------------------|-------------------|---------------------|----|--------------------|-------------------|---------------------|----------------------|-----------------|--------------------|
| | | 1ST. HALF CAT. NO. | 2ND HALF CAT. NO. | | | 1ST. HALF CAT. NO. | 2ND HALF CAT. NO. | | | | |
| 2" | FC2A- | 2.30 — 2.45 | 2.45 | Black | X | 2.30 — 2.45 | 2.45 | Black | 4" | 2 | 9 |
| | | 2.40 — 2.65 | | Black | | 2.40 — 2.65 | | Black | | | |
| | | 2.65 — 2.88 | | Black | | 2.65 — 2.88 | | Black | | | |
| 3" | FC2A- | 3.13 — 3.13 | 3.13 | Red | X | 3.13 — 3.13 | 3.13 | Red | 4" | 3 | 14 |
| | | 3.45 — 3.60 | | Red | | 3.45 — 3.60 | | Red | | | |
| | | 3.70 — 3.88 | | Black | | 3.70 — 3.88 | | Black | | | |
| | | 3.91 — 4.06 | | Black | | 3.91 — 4.06 | | Black | | | |
| | | 4.07 — 4.20 | | Black | | 4.07 — 4.20 | | Black | | | |
| 4" | FC2A- | 4.00 — 4.00 | 4.00 | Red | X | 4.00 — 4.00 | 4.00 | Red | 5" | 3 | 16 |
| | | 4.50 — 4.50 | | Red | | 4.50 — 4.50 | | Red | | | |
| | | 4.80 — 5.14 | | Black | | 4.80 — 5.14 | | Black | | | |
| | | 5.15 — 5.57 | | White/Gray | | 5.15 — 5.57 | | White/Gray | | | |
| 6" | FC2A- | 6.00 — 6.00 | 6.00 | Red | X | 6.00 — 6.00 | 6.00 | Red | 5" | 4 | 24 |
| | | 6.63 — 6.63 | | Red | | 6.63 — 6.63 | | Red | | | |
| | | 6.90 — 7.20 | | Black | | 6.90 — 7.20 | | Black | | | |
| | | 7.21 — 7.56 | | White/Gray | | 7.21 — 7.56 | | White/Gray | | | |
| 8" | FC2A- | 8.00 — 8.00 | 8.00 | Red | X | 8.00 — 8.00 | 8.00 | Red | 5" | 5 | 34 |
| | | 8.63 — 8.63 | | Red | | 8.63 — 8.63 | | Red | | | |
| | | 9.05 — 9.40 | | Black | | 9.05 — 9.40 | | Black | | | |
| | | 9.40 — 9.74 | | White/Gray | | 9.40 — 9.74 | | White/Gray | | | |
| 10" | FC2A- | 10.00 — 10.00 | 10.00 | Red | X | 10.00 — 10.00 | 10.00 | Red | 6" | 6 | 48 |
| | | 10.75 — 10.75 | | Red | | 10.75 — 10.75 | | Red | | | |
| | | 11.10 — 11.40 | | Black | | 11.10 — 11.40 | | Black | | | |
| | | 11.42 — 11.77 | | Black | | 11.42 — 11.77 | | Black | | | |
| | | 11.77 — 12.12 | | White/Gray | | 11.77 — 12.12 | | White/Gray | | | |
| 12" | FC2A- | 12.00 — 12.00 | 12.00 | Black | X | 12.00 — 12.00 | 12.00 | Black | 6" | 7 | 62 |
| | | 12.75 — 12.75 | | Black | | 12.75 — 12.75 | | Black | | | |
| | | 13.20 — 13.50 | | Black | | 13.20 — 13.50 | | Black | | | |
| | | 13.69 — 14.04 | | White/Gray | | 13.69 — 14.04 | | White/Gray | | | |
| | | 14.03 — 14.38 | | White/Gray | | 14.03 — 14.38 | | White/Gray | | | |
| 14" | FC2A- | 15.30 — 15.70 | 15.70 | Black | X | 15.30 — 15.70 | 15.70 | Black | 6" | 9 | 83 |
| | | 16.00 — 16.35 | | Red | | 16.00 — 16.35 | | Red | | | |
| | | 16.40 — 16.88 | | White/Gray | | 16.40 — 16.88 | | White/Gray | | | |
| 16" | FC2A- | 17.40 — 17.80 | 17.80 | Black | X | 17.40 — 17.80 | 17.80 | Black | 7" | 10 | 91 |
| | | 18.45 — 18.97 | | White/Gray | | 18.45 — 18.97 | | White/Gray | | | |
| | | 18.90 — 19.20 | | White/Gray | | 18.90 — 19.20 | | White/Gray | | | |
| 18" | FC2A- | 19.50 — 20.00 | 20.00 | Black | X | 19.50 — 20.00 | 20.00 | Black | 7" | 11 | 111 |
| 20" | FC2A- | 21.60 — 22.06 | 22.06 | Black | X | 21.60 — 22.06 | 22.06 | Black | 7" | 12 | 125 |
| 24" | FC2A- | 25.80 — 26.32 | 26.32 | Black | X | 25.80 — 26.32 | 26.32 | Black | 10" | 14 | 183 |

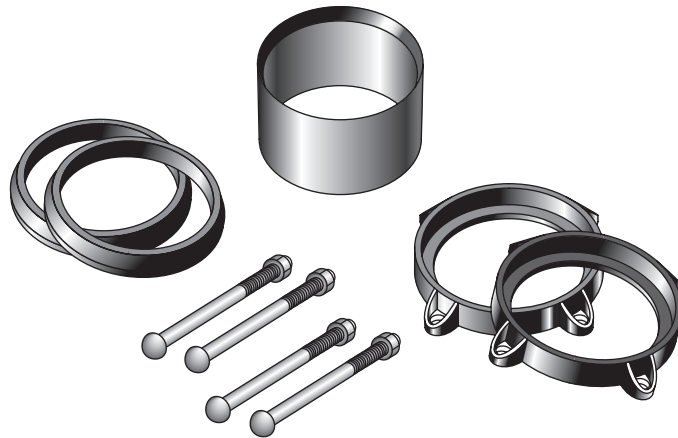
To order: Locate the gasket range that accommodates your pipe O.D. for both ends of pipe. Use the top range of each gasket size to determine the part number. For example, to connect pipe with an O.D. of 6.90 to a pipe with an O.D. of 7.37, the catalog number is FC2A-720-756. For 100% domestic content, contact factory for pricing and availability.

Options: For available options, see chart on page M-3.

Note: For end cap options, see page M-15.

Ford Transition Coupling Parts

Style FC2A



Component Parts for Style FC2A Couplings

| NOM. PIPE SIZE | GASKET CATALOG No. | END RING CATALOG No. | CENTER SLEEVE CATALOG No. | BOLT AND NUT CATALOG No. | BOLT AND NUT SIZE | NUMBER OF BOLTS REQUIRED |
|----------------|--------------------|----------------------|---------------------------|--------------------------|-------------------|--------------------------|
| 2" | FC2AG-230-245 | FC2A-BER-2 | FC2A-CS-2 | FBN-58-65 | 5/8" x 6-1/2" | 2 |
| | FC2AG-240-265 | FC2A-BER-2 | | | | |
| | FC2AG-265-288 | FC2A-BER-2 | | | | |
| 3" | FC2AG-313 | FC2A-RER-3 | FC2A-CS-3 | FBN-58-65 | 5/8" x 6-1/2" | 3 |
| | FC2AG-345-360 | FC2A-RER-3 | | | | |
| | FC2AG-370-388 | FC2A-BER-3 | | | | |
| | FC2AG-391-406 | FC2A-BER-3 | | | | |
| | FC2AG-407-420 | FC2A-BER-3 | | | | |
| 4" | FC2AG-400 | FC2A-RER-4 | FC2A-CS-4 | FBN-58-8 | 5/8" x 8" | 3 |
| | FC2AG-450 | FC2A-RER-4 | | | | |
| | FC2AG-480-514 | FC2A-BER-4 | | | | |
| | FC2AG-515-557 | FC2A-WER-4 | | | | |
| 6" | FC2AG-600 | FC2A-RER-6 | FC2A-CS-6 | FBN-58-8 | 5/8" x 8" | 4 |
| | FC2AG-663 | FC2A-RER-6 | | | | |
| | FC2AG-690-720 | FC2A-BER-6 | | | | |
| | FC2AG-721-756 | FC2A-WER-6 | | | | |
| 8" | FC2AG-800 | FC2A-RER-8 | FC2A-CS-8 | FBN-58-8 | 5/8" x 8" | 5 |
| | FC2AG-863 | FC2A-RER-8 | | | | |
| | FC2AG-905-940 | FC2A-BER-8 | | | | |
| | FC2AG-940-974 | FC2A-WER-8 | | | | |
| 10" | FC2AG-1000 | FC2A-RER-10 | FC2A-CS-10 | FBN-58-9 | 5/8" x 9" | 6 |
| | FC2AG-1075 | FC2A-RER-10 | | | | |
| | FC2AG-1110-1140 | FC2A-BER-10 | | | | |
| | FC2AG-1142-1177 | FC2A-BER-10 | | | | |
| | FC2AG-1177-1212 | FC2A-WER-10 | | | | |
| 12" | FC2AG-1200 | FC2A-BER-12 | FC2A-CS-12 | FBN-58-9 | 5/8" x 9" | 7 |
| | FC2AG-1275 | FC2A-BER-12 | | | | |
| | FC2AG-1320-1350 | FC2A-BER-12 | | | | |
| | FC2AG-1369-1404 | FC2A-WER-12 | | | | |
| | FC2AG-1403-1438 | FC2A-WER-12 | | | | |
| 14" | FC2AG-1530-1570 | FC2A-BER-14 | FC2A-CS-14 | FBN-58-105 | 5/8"x10-1/2" | 9 |
| | FC2AG-1600-1635 | FC2A-RER-14 | | | | |
| | FC2AG-1640-1688 | FC2A-WER-14 | | | | |
| | FC2AG-1740-1780 | FC2A-BER-16 | | | | |
| 16" | FC2AG-1845-1897 | FC2A-WER-16 | FC2A-CS-16 | FBN-58-105 | 5/8"x10-1/2" | 10 |
| | FC2AG-1890-1920 | FC2A-WER-16 | | | | |
| | FC2AG-1950-2000 | FC2A-BER-18 | | | | |
| 18" | FC2AG-2160-2206 | FC2A-BER-20 | FC2A-CS-20 | FBN-58-105 | 5/8"x10-1/2" | 11 |
| 20" | FC2AG-2160-2206 | FC2A-BER-20 | FC2A-CS-20 | FBN-58-105 | 5/8"x10-1/2" | 12 |
| 24" | FC2AG-2580-2632 | FC2A-BER-24 | FC2A-CS-24 | FBN-58-135 | 5/8"x13-1/2" | 14 |

To order: Specify desired quantity and order using catalog number.

Ford Extended Length Transition Couplings

Style FC2A-L12



The extended length version of the Ford FC2A offers the same advantages as the standard FC2A (page M-7) with the added versatility of a 12-inch long center sleeve.

Caution: Restrain if necessary to provide thrust resistance.
Flexible couplings do not prevent axial pipe movement.
See Catalog Section U for restrained couplings.

Rated Working Pressure: 250 psi

| NOM. PIPE SIZE | CATALOG NUMBER PREFIX | GASKET RANGE | | END RING COLOR CODE | BY | GASKET RANGE | | END RING COLOR CODE | CATALOG NUMBER SUFFIX | CENTER SLEEVE LENGTH | NUMBER OF BOLTS | APPROX. WEIGHT LBS |
|----------------|-----------------------|--------------------|------------|---------------------|---------------|-------------------|------|---------------------|-----------------------|----------------------|-----------------|--------------------|
| | | 1ST. HALF CAT. No. | | | | 2ND HALF CAT. No. | | | | | | |
| 4" | FC2A- | 4.00 — 4.00 | Red | X | 4.00 — 4.00 | Red | -L12 | 12" | 3 | 34 | | |
| | | 4.50 — 4.50 | Red | | 4.50 — 4.50 | Red | | | | | | |
| | | 4.80 — 5.14 | Black | | 4.80 — 5.14 | Black | | | | | | |
| | | 5.15 — 5.57 | White/Gray | | 5.15 — 5.57 | White/Gray | | | | | | |
| 6" | FC2A- | 6.00 — 6.00 | Red | X | 6.00 — 6.00 | Red | -L12 | 12" | 4 | 48 | | |
| | | 6.63 — 6.63 | Red | | 6.63 — 6.63 | Red | | | | | | |
| | | 6.90 — 7.20 | Black | | 6.90 — 7.20 | Black | | | | | | |
| | | 7.21 — 7.56 | White/Gray | | 7.21 — 7.56 | White/Gray | | | | | | |
| 8" | FC2A- | 8.00 — 8.00 | Red | X | 8.00 — 8.00 | Red | -L12 | 12" | 5 | 63 | | |
| | | 8.63 — 8.63 | Red | | 8.63 — 8.63 | Red | | | | | | |
| | | 9.05 — 9.40 | Black | | 9.05 — 9.40 | Black | | | | | | |
| | | 9.40 — 9.74 | White/Gray | | 9.40 — 9.74 | White/Gray | | | | | | |
| 10" | FC2A- | 10.00 — 10.00 | Red | X | 10.00 — 10.00 | Red | -L12 | 12" | 6 | 83 | | |
| | | 10.75 — 10.75 | Red | | 10.75 — 10.75 | Red | | | | | | |
| | | 11.10 — 11.40 | Black | | 11.10 — 11.40 | Black | | | | | | |
| | | 11.42 — 11.77 | Black | | 11.42 — 11.77 | Black | | | | | | |
| 12" | FC2A- | 11.77 — 12.12 | White/Gray | X | 11.77 — 12.12 | White/Gray | -L12 | 12" | 7 | 106 | | |
| | | 12.00 — 12.00 | Black | | 12.00 — 12.00 | Black | | | | | | |
| | | 12.75 — 12.75 | Black | | 12.75 — 12.75 | Black | | | | | | |
| | | 13.20 — 13.50 | Black | | 13.20 — 13.50 | Black | | | | | | |
| | | 13.69 — 14.04 | White/Gray | | 13.69 — 14.04 | White/Gray | | | | | | |
| 14.03 — 14.38 | White/Gray | 14.03 — 14.38 | White/Gray | | | | | | | | | |

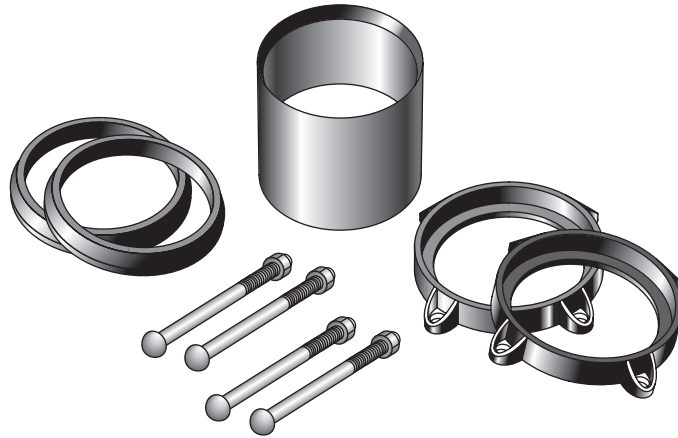
To order: Locate the gasket range that accommodates your pipe O.D. for both ends of pipe. Use the top range of each gasket size to determine the part number. For example, to connect pipe with an O.D. of 6.90 to a pipe with an O.D. of 7.37, the catalog number is FC2A-720-756-L12.

Options: For available options, see chart on page M-3.

Note: For end cap options, see page M-15.

Ford Extended Length Transition Coupling Parts

Style FC2A-L12



Component Parts for Style FC2A-L12 Extended Length Couplings

| NOM. PIPE SIZE | GASKET CATALOG No. | END RING CATALOG No. | CENTER SLEEVE CATALOG No. | BOLT AND NUT CATALOG No. | BOLT AND NUT SIZE | NUMBER OF BOLTS REQUIRED |
|-----------------|--------------------|----------------------|---------------------------|--------------------------|-------------------|--------------------------|
| 4" | FC2AG-400 | FC2A-RER-4 | FC2A-CS-4-L12 | FBN-58-155 | 5/8" x 15-1/2" | 3 |
| | FC2AG-450 | FC2A-RER-4 | | | | |
| | FC2AG-480-514 | FC2A-BER-4 | | | | |
| | FC2AG-515-557 | FC2A-WER-4 | | | | |
| 6" | FC2AG-600 | FC2A-RER-6 | FC2A-CS-6-L12 | FBN-58-155 | 5/8" x 15-1/2" | 4 |
| | FC2AG-663 | FC2A-RER-6 | | | | |
| | FC2AG-690-720 | FC2A-BER-6 | | | | |
| | FC2AG-721-756 | FC2A-WER-6 | | | | |
| 8" | FC2AG-800 | FC2A-RER-8 | FC2A-CS-8-L12 | FBN-58-155 | 5/8" x 15-1/2" | 5 |
| | FC2AG-863 | FC2A-RER-8 | | | | |
| | FC2AG-905-940 | FC2A-BER-8 | | | | |
| | FC2AG-940-974 | FC2A-WER-8 | | | | |
| 10" | FC2AG-1000 | FC2A-RER-10 | FC2A-CS-10-L12 | FBN-58-155 | 5/8" x 15-1/2" | 6 |
| | FC2AG-1075 | FC2A-RER-10 | | | | |
| | FC2AG-1110-1140 | FC2A-BER-10 | | | | |
| | FC2AG-1142-1177 | FC2A-BER-10 | | | | |
| 12" | FC2AG-1177-1212 | FC2A-WER-10 | FC2A-CS-12-L12 | FBN-58-155 | 5/8" x 15-1/2" | 7 |
| | FC2AG-1200 | FC2A-BER-12 | | | | |
| | FC2AG-1275 | FC2A-BER-12 | | | | |
| | FC2AG-1320-1350 | FC2A-BER-12 | | | | |
| | FC2AG-1369-1404 | FC2A-WER-12 | | | | |
| FC2AG-1403-1438 | FC2A-WER-12 | | | | | |

To order: Specify desired quantity and order using catalog number.

Ford Ultra-Flex Wide Range Couplings

Style FC2W

Ford Ultra-Flex Wide Range Couplings offer convenience, reliability, and inventory reduction. The Ultra-Flex can join virtually any pipes within a nominal size and is rated for 350 psi working pressure on 3"-12" and 250 psi working pressure on 16". The stab-in design allows quicker installation and the standard fusion bonded epoxy coating provides corrosion protection. The standard NBR (Buna-N) gaskets are lubricated at the factory. No field lubrication is required. The unique gaskets seal on the pipe with fewer turns of the wrench. This allows the installer to use a standard deep-well socket, even when installing on pipes at the low end of the listed range. See the table below for exact ranges.

Benefits:

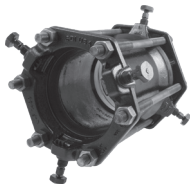
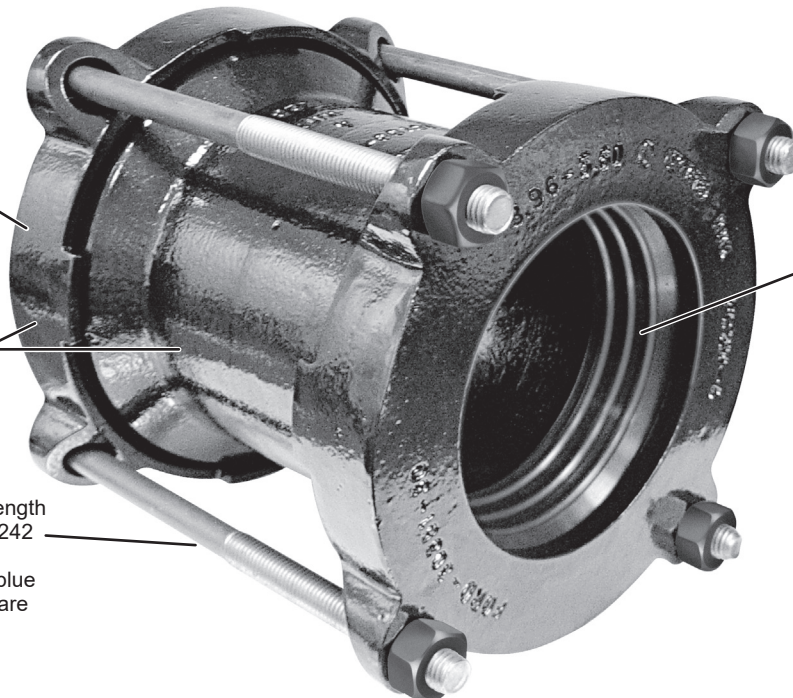
- Stab-in installation. No disassembly required.
- Long standard sleeve.
- Unique gasket allows for quicker installation.
- 350 psi rated working pressure, sizes 3" - 12"
250 psi rated working pressure for 16"

End rings and sleeve fusion bonded epoxy coating standard

Center sleeve and end rings are ductile iron per ASTM A536, Grade 65-45-12

Bolts and nuts are high strength low alloy steel per ASTM A242 and AWWA C111. Optional stainless steel or blue fluorocarbon coated hardware also available.

NBR (Buna-N) Gasket per ASTM D2000



Caution: Restrain if necessary to provide thrust resistance. Flexible couplings do not prevent axial pipe movement. See Catalog Section U for restrained couplings.

Style FC2W Wide Range Couplings

| NOMINAL PIPE SIZE | PIPE OD RANGE* | | CATALOG NUMBER | NUMBER OF BOLTS | BOLT DIAMETER | SLEEVE LENGTH | APPROX. WEIGHT LBS. |
|-------------------|----------------|----------------|----------------|-----------------|---------------|---------------|---------------------|
| | INCHES | MILLIMETERS | | | | | |
| 3" | 2.50 - 4.29 | 63.5 - 109.0 | FC2W-3 | 3 | 5/8" | 7" | 27 |
| 4" | 3.96 - 5.60 | 100.5 - 142.2 | FC2W-4 | 4 | 5/8" | 7" | 35 |
| 6" | 6.23 - 7.60 | 158.2 - 193.0 | FC2W-6 | 4 | 5/8" | 7" | 44 |
| 8" | 8.40 - 9.75 | 213.3 - 247.6 | FC2W-8 | 4 | 5/8" | 7" | 52 |
| 10" | 10.75 - 12.12 | 273.0 - 307.8 | FC2W-10 | 6 | 5/8" | 9" | 76 |
| 12" | 12.75 - 14.38 | 323.8 - 365.25 | FC2W-12 | 6 | 5/8" | 9" | 97 |
| 16" | 16.00 - 17.80 | 406.4 - 452.1 | FC2W-16 | 8 | 5/8" | 10" | 135 |

* Pipes smaller than the published range may be joined using the FC2W coupling at a reduced pressure rating. Contact Ford Meter Box for details.

Options: For available options, see chart on page M-3.

Note: See page M-20 for installation instructions.

Ford Ultra-Flex Long Sleeve Wide Range Couplings

Style FC2W-L12

The long sleeve version of the Ford FC2W Ultra-Flex offers the same advantages as the standard FC2W (page M-11) with the added versatility of a 12-inch long center sleeve.

Caution: Restrain if necessary to provide thrust resistance. Flexible couplings do not prevent axial pipe movement. See Catalog Section U for restrained couplings.



Rating: 350 psi working water pressure

Style FC2W-L12 Long Sleeve Wide Range Couplings

| NOMINAL PIPE SIZE | PIPE OD RANGE | | CATALOG NUMBER | NUMBER OF BOLTS | BOLT DIAMETER | SLEEVE LENGTH | APPROX. WEIGHT LBS. |
|-------------------|---------------|----------------|----------------|-----------------|---------------|---------------|---------------------|
| | INCHES | MILLIMETERS | | | | | |
| 3" | 2.50 - 4.29 | 63.5 - 109.0 | FC2W-3-L12 | 3 | 5/8" | 12" | 40 |
| 4" | 3.96 - 5.60 | 100.5 - 142.2 | FC2W-4-L12 | 4 | 5/8" | 12" | 45 |
| 6" | 6.23 - 7.60 | 158.2 - 193.0 | FC2W-6-L12 | 4 | 5/8" | 12" | 56 |
| 8" | 8.40 - 9.75 | 213.3 - 247.6 | FC2W-8-L12 | 4 | 5/8" | 12" | 68 |
| 10" | 10.75 - 12.12 | 273.0 - 307.8 | FC2W-10-L12 | 6 | 5/8" | 12" | 90 |
| 12" | 12.75 - 14.38 | 323.8 - 365.25 | FC2W-12-L12 | 6 | 5/8" | 12" | 109 |

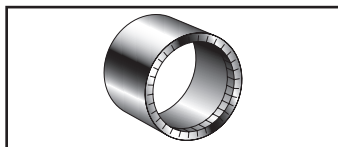
* Pipes smaller than the published range may be joined using the FC2W coupling at a reduced pressure rating. Contact Ford Meter Box for details.

Options: For available options, see chart on page M-3.

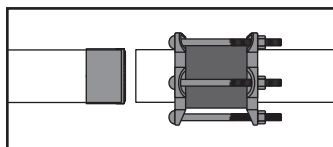
Ford Insulating Boots Style FIB

Ford Insulating Boots are used to provide a break in electrical conductivity between metallic pipes in order to control corrosion. The 7" long rubber boot slides over the end of the pipe and prevents contact with adjoining pipe. **The FIB adds .25" to the outside diameter of the pipe which is important to consider when ordering couplings.**

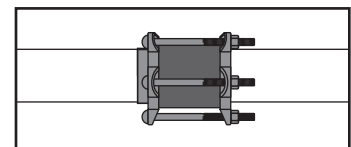
Material Specifications: SBR Rubber per ASTM D2000.



The Ford FIB



Place the FIB on one pipe end and the coupling on the adjoining pipe



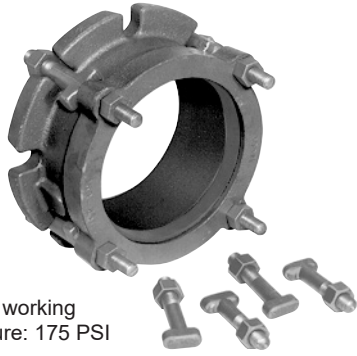
Complete the installation according to the coupling instructions.

| NOM. PIPE SIZE | PIPE O.D. | CATALOG NUMBER | APPROX. WT. LBS. |
|----------------|-----------|----------------|------------------|
| 4" | 4.80 | FIB-480 | 0.7 |
| 6" | 6.90 | FIB-690 | 1.0 |
| 8" | 9.05 | FIB-905 | 1.3 |
| 10" | 11.10 | FIB-1110 | 1.6 |
| 12" | 13.20 | FIB-1320 | 1.9 |

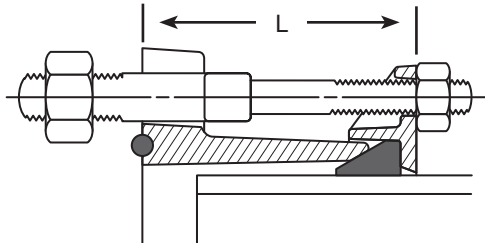
Note: Additional sizes built to the same specification are available upon request.

Ford Flanged Coupling Adapters

Style FFCA



Rated working pressure: 175 PSI



Ford Flanged Coupling Adapters are used to join plain end pipe to flanged fittings. The FFCA is designed without pipe stops and can slide completely over the pipe to allow for clearance. The adapter is furnished with HSLA tee-head bolts and/or ductile iron cross bolts. The flange has a built-in O-ring gasket. Larger, fabricated steel flanged coupling adapters are detailed in Catalog Section N.

Material Specifications:

1. **Body** - Ductile iron per ASTM A536 Grade 65-45-12.
2. **End Rings** - Ductile iron per ASTM A536 Grade 65-45-12.
3. **Coupling Gasket** - SBR per ASTM D2000.
4. **Cross Bolts, T-Bolts & Nuts** - High strength low alloy steel per AWWA C111/ASTM A242. Optional blue fluorocarbon coating.
5. **Finish** - Shop coat. Optional fusion bonded epoxy coating is available upon request.
6. **Flange** - Drilling per ANSI/AWWA C110/A21.10, AWWA C207 Class D and per ANSI B16.1 Class 125.
7. **Flange O-Ring** - NBR (Buna-N).
8. **Anchor Studs** - (optional) C1141 cold rolled steel.

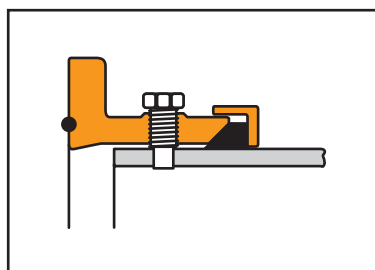
Caution: Restrain if necessary to provide thrust resistance. Flexible couplings do not prevent axial pipe movement. See anchor stud options below. See Catalog Section U for restrained couplings.

Style FFCA Flanged Coupling Adapters

| NOMINAL PIPE SIZE | PIPE O.D. RANGE | CATALOG NUMBER | END RING COLOR CODE | APPROX. ASSEMBLED LENGTH (L) | APPROX. WEIGHT LBS. | OPTIONAL ANCHOR STUDS | NO. AND SIZE OF | |
|-------------------|--------------------------------------|----------------|---------------------|------------------------------|---------------------|-----------------------|-----------------|----------------|
| | | | | | | | CROSS BOLTS | T-BOLTS |
| | | | | | | | CATALOG NUMBER | CATALOG NUMBER |
| 3" | 3.45-3.60 | FFCA-360 | Red | 3-7/8" | 18 | 2 | 4 | N/A |
| | 3.70-3.88 | FFCA-388 | Black | | 18 | | | |
| | 3.91-4.06 | FFCA-406 | Black | | 18 | | | |
| | 4.07-4.20 | FFCA-420 | White/Gray | | 18 | | | |
| 4" | 4.45-4.60 | FFCA-460 | Red | 3-1/2" | 22 | 2 | 4 | 4 |
| | 4.70-4.91 | FFCA-491 | Black | | 22 | | 5/8" | |
| | 4.92-5.16 | FFCA-516 | Black | | 22 | | FTBN-58-3 | |
| | 5.17-5.32 | FFCA-532 | White/Gray | | 22 | | | |
| 6" | 6.54-6.76 | FFCA-676 | Red | 4-1/8" | 34 | 2 | 4 | 4 |
| | 6.81-7.12 | FFCA-712 | Black | | 34 | | 3/4" | |
| | 7.17-7.37 | FFCA-737 | Black | | 34 | | 3/4" | |
| | 7.37-7.60 | FFCA-760 | White/Gray | | 34 | | FTBN-34-35 | |
| 8" | 8.50-8.75 | FFCA-875 | Red | 4-3/16" | 45 | 4 | 8 | N/A |
| | 8.76-9.17 | FFCA-917 | Black | | 45 | | | |
| | 9.22-9.50 | FFCA-950 | Black | | 45 | | | |
| | 9.49-9.79 | FFCA-979 | White/Gray | | 45 | | | |
| 10" | 10.69-10.85 | FFCA-1085 | Red | 4-13/16" | 55 | 4 | 12 | N/A |
| | 11.04-11.40 | FFCA-1140 | Black | | 55 | | 7/8" x 5/8" | |
| 12" | Use FCA located in catalog section N | | | | | | | |

Note: End rings for FFCA's are not interchangeable with the balance of the Ford coupling system. For fabricated or larger flange coupling adapters, see Catalog Section N.

Optional Anchor Studs (C1141 cold rolled steel)



(Use of anchor studs requires field drilling of pipe.)

Optional anchor studs provide restraint against axial pipe movement. For use on ductile iron or steel pipe. See table above for optional stud quantities.

Optional anchor studs: For two studs add "-AS2" to the catalog number. For four studs add "-AS4" to the catalog number.
Example: FFCA-712-AS2

Ford Cut-In Couplings

Style FRR



Designed Specifically for Cut-In Applications

Ford FRR cut-in couplings are commonly used to replace leaking couplings that require removal or join pipe where the sections can't be moved or it is difficult or undesirable to replace a section of pipe.

The three-piece sleeve allows disassembly for installation through the space between two existing stationary pipe ends where a solid body coupling would not fit.

Material Specifications:

1. **Center Sleeve** - ASTM A36 steel.
2. **Repair Ring** - Ductile iron per ASTM A536 or carbon steel per ASTM A36.
3. **End Rings** - Ductile iron per ASTM A536 Grade 65-45-12.
4. **Gaskets** - NBR (Buna-N) per ASTM D2000.
5. **Bolts** - High strength low alloy steel per ASTM A242 and AWWA C111.
6. **Finish** - Shop coat. Optional epoxy coating is available upon request.

Caution: Restrain if necessary to provide thrust resistance. Flexible couplings do not prevent axial pipe movement. See Catalog Section U for restrained couplings.

Style FRR Ford Cut-In Coupling

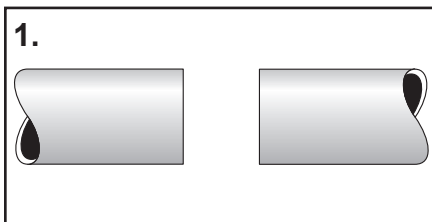
| NOM. PIPE SIZE | PIPE O.D. RANGE | CATALOG NUMBER | APPROX. WT. LBS. | BOLT AND NUT CATALOG NUMBER | BOLT AND NUT SIZE | NUMBER OF BOLTS REQUIRED | MINIMUM PIPE SEPARATION | MAXIMUM PIPE SEPARATION* |
|----------------|-----------------|----------------|------------------|-----------------------------|-------------------|--------------------------|-------------------------|--------------------------|
| 4" | 4.80-5.14 | FRR-514 | 38 | FBN-58-155 | 5/8"x15-1/2" | 3 | 5.25" | 7-3/4" |
| | 5.15-5.57 | FRR-557 | 38 | | | | | |
| 6" | 6.90-7.20 | FRR-720 | 61 | FBN-58-155 | 5/8"x15-1/2" | 4 | 5.25" | 7-3/4" |
| | 7.21-7.56 | FRR-756 | 61 | | | | | |
| 8" | 9.05-9.40 | FRR-940 | 82 | FBN-58-155 | 5/8"x15-1/2" | 5 | 5.25" | 7-3/4" |
| | 9.40-9.74 | FRR-974 | 82 | | | | | |
| 10" | 11.10-11.40 | FRR-1140 | 105 | FBN-58-175 | 5/8"x17-1/2" | 6 | 6.25" | 9-3/4" |
| | 11.42-11.77 | FRR-1177 | 105 | | | | | |
| | 11.77-12.12 | FRR-1212 | 105 | | | | | |
| 12" | 13.20-13.50 | FRR-1350 | 135 | FBN-58-175 | 5/8"x17-1/2" | 7 | 6.25" | 9-3/4" |
| | 13.69-14.04 | FRR-1404 | 135 | | | | | |
| | 14.03-14.38 | FRR-1438 | 135 | | | | | |

* Maximum pipe separation is dependent on the pipe material and the centering of the coupling.

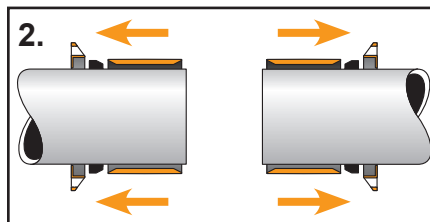
Note: A repair ring can be manufactured for any size 4" through 12". FC2A listed on page M-7.

Options: For available options, see chart on page M-3.

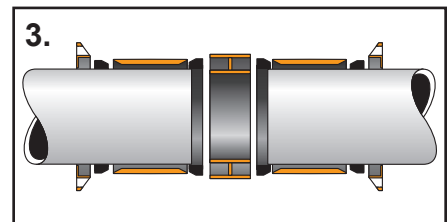
Installation Instructions



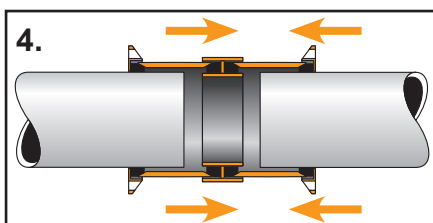
1. Clean each end of the pipe to ensure a watertight seal.



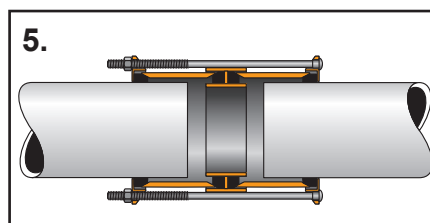
2. Slide the two end rings, end ring gaskets and sleeves over the exposed ends of the pipes as shown above.



3. Place the cut-in sleeve gaskets and cut-in sleeve into position.



4. Slide the end rings, end ring gaskets and sleeves toward the cut-in sleeve, making sure all components are properly positioned.



5. Insert the bolts and tighten nuts evenly to 60-70 ft-lb in an incremental and alternating sequence to ensure the end rings remain parallel.

Ford End Cap Couplings

Style FEC



The FEC Ford End Cap Coupling is provided with a 2" female iron pipe threaded boss (less the pipe plug). The boss is located in the center as standard; optional locations are available. Blind end caps may be furnished upon request.

Material Specifications:

- Center Sleeve** - Ductile iron per ASTM A536, Grade 65-45-12.
- End Rings** - Ductile iron per ASTM A536, Grade 65-45-12.
- Gaskets** - NBR (Buna-N) per ASTM D2000.
- End Cap** - Carbon steel per ASTM A36 with 2" female iron pipe threaded boss.
- Bolts** - High strength low alloy steel per ASTM A242 and AWWA C111.
- Finish** - Shop coat. Optional epoxy coating is available upon request.

Caution: Restrain if necessary to provide thrust resistance. Flexible couplings do not prevent axial pipe movement. See Catalog Section U for restrained couplings.

| NOM. PIPE SIZE | PIPE O.D. RANGE | CATALOG NUMBER | APPROX. WT. LBS. | END CAP ONLY (INCLUDES GASKET) | | NUMBER OF BOLTS REQUIRED |
|----------------|-----------------|----------------|------------------|--------------------------------|---------------|--------------------------|
| | | | | FC1 COUPLING | FC2A COUPLING | |
| 4" | 4.00 | FEC-400 | 21 | FEC1-4 | FEC2-4 | 3 |
| | 4.50 | FEC-450 | | | | |
| | 4.80-5.14 | FEC-514 | | | | |
| | 5.15-5.57 | FEC-557 | | | | |
| 6" | 6.00 | FEC-600 | 31 | FEC1-6 | FEC2-6 | 4 |
| | 6.63 | FEC-663 | | | | |
| | 6.90-7.20 | FEC-720 | | | | |
| | 7.21-7.56 | FEC-756 | | | | |
| 8" | 8.00 | FEC-800 | 41 | FEC1-8 | FEC2-8 | 5 |
| | 8.63 | FEC-863 | | | | |
| | 9.05-9.40 | FEC-940 | | | | |
| | 9.40-9.74 | FEC-974 | | | | |
| 10" | 11.10-11.40 | FEC-1140 | 55 | FEC1-10 | FEC2-10 | 6 |
| | 11.77-12.12 | FEC-1212 | | | | |
| 12" | 13.20-13.50 | FEC-1350 | 66 | FEC1-12 | FEC2-12 | 7 |

Note: Larger fabricated end cap couplings are listed in Section "N".

Options: For available options, see chart on page M-3.

Ford End Cap for Ultra-Flex Wide Range Couplings

Style FC2W-EC



The FC2W-EC Ford End Cap Coupling is provided with a 2" female iron pipe threaded boss (less the pipe plug). The boss is located in the center as standard; optional locations are available on 10" and 12" end caps.

Material Specifications:

- Center Sleeve** - Ductile iron per ASTM A536, Grade 65-45-12.
- End Rings** - Ductile iron per ASTM A536, Grade 65-45-12.
- Gaskets** - NBR (Buna-N) per ASTM D2000.
- End Cap** - Ductile iron per ASTM A536, Grade 65-45-12 or carbon steel per ASTM A36.
- Bolts** - High strength low alloy steel per ASTM A242 and AWWA C111.
- Finish** - Sleeve and end rings are epoxy coated. 4", 6" and 8" e-coat epoxy end caps 10" and 12" epoxy coated end caps

| NOM. PIPE SIZE | PIPE O.D. RANGE | | CATALOG NUMBER | APPROX. WT. LBS. | END CAP ONLY | END CAP WT. LBS. |
|----------------|-----------------|----------------|----------------|------------------|--------------|------------------|
| | INCHES | Millimeters | | | | |
| 4" | 3.96-5.60 | 100.5 - 142.2 | FC2W-4-EC | 44 | FECW-4 | 9 |
| 6" | 6.23-7.60 | 158.2 - 193.0 | FC2W-6-EC | 57 | FECW-6 | 13 |
| 8" | 8.40-9.75 | 213.3 - 247.6 | FC2W-8-EC | 75 | FECW-8 | 23 |
| 10" | 10.77-12.12 | 273.0 - 307.8 | FC2W-10-EC | 138 | FECW-10 | 62 |
| 12" | 12.75-14.38 | 323.8 - 365.25 | FC2W-12-EC | 178 | FECW-12 | 80 |

Ford Ultra-Flex Long Sleeve Wide Range Couplings

Style FC2W-EC (12" Long)

| NOM. PIPE SIZE | PIPE OD RANGE | | CATALOG NUMBER | SLEEVE LENGTH | APPROX. WT. LBS. | END CAP ONLY | END CAP WT. LBS. |
|----------------|---------------|----------------|----------------|---------------|------------------|--------------|------------------|
| | INCHES | MILLIMETERS | | | | | |
| 4" | 3.96 - 5.60 | 100.5 - 142.2 | FC2W-4-L12-EC | 12" | 54 | FECW-4 | 9 |
| 6" | 6.23 - 7.60 | 158.2 - 193.0 | FC2W-6-L12-EC | 12" | 69 | FECW-6 | 13 |
| 8" | 8.40 - 9.75 | 213.3 - 247.6 | FC2W-8-L12-EC | 12" | 91 | FECW-8 | 23 |
| 10" | 10.75 - 12.12 | 273.0 - 307.8 | FC2W-10-L12-EC | 12" | 152 | FECW-10 | 62 |
| 12" | 12.75 - 14.38 | 323.8 - 365.25 | FC2W-12-L12-EC | 12" | 189 | FECW-12 | 80 |

Ford Flange Adapter

Style MJFA

Ford offers a true stab fit for connecting plain end steel sized or ductile pipe to a flange end pipe with the MJFA style adapter.

Tee-head bolts and nuts are made of high strength, low alloy steel, per ASTM A242 and AWWA C111. Optional blue fluorocarbon coated or stainless steel.

Flange adapter sleeve is ductile iron per ASTM A536, compatible with Class D or Class E Flange per AWWA C207 with a fusion bonded epoxy coating.

Center sleeve and MJ gland are ductile iron per ASTM A536, Grade 65-45-12

Gaskets are pre-lubricated SBR rubber (SO-EZ gasket) Optional NBR (Buna-N) rubber (SO-EZ gasket)

Flange O-ring is NBR (ASTM D2000)

Two closed starter lugs, (one at top and one on bottom)

Caution: Restrain if necessary to provide thrust resistance. Flexible couplings do not prevent axial pipe movement. See Catalog Section U for restrained couplings.

TYPE OF COUPLING

MJFA = Mechanical Joint Flange Adapter
 MJC = Mechanical Joint Couplings

M J F A - 6 - 1

3-1 = 3"
 4-1 = 4"
 6-1 = 6"
 8-1 = 8"
 10-1 = 10"
 12-1 = 12"

NOMINAL PIPE SIZE

- No disassembly required
- Fits steel-to-ductile nominal pipe with no modification

Component Specifications:

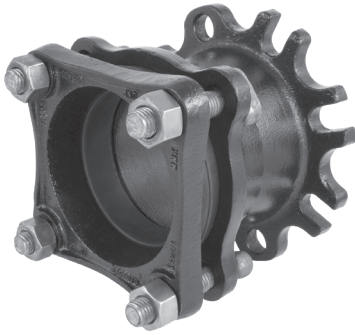
| | |
|---------------------------------|---|
| Flanged Adapter Sleeve: | Ductile iron per ASTM A536, bolting up to Class D or Class E flange, per AWWA C207 with a fusion bonded epoxy coating. |
| Flange O-ring: | NBR (Buna-N per ASTM D2000). |
| Tee-head Bolts and Nuts: | High strength low alloy steel, per ASTM A242 and AWWA C111 Optional: Blue fluorocarbon coated or stainless steel |
| MJ Gland: | Black e-coat epoxy, ductile iron per ASTM A536 |
| Gasket: | Pre-lubricated SBR rubber (SO-EZ gasket) Optional: NBR (Buna-N) rubber (SO-EZ gasket) required for sewer applications. |

Pressure Rating for C900 PVC, IPS PVC, C909 PVC and SDR35 Sewer Pipe

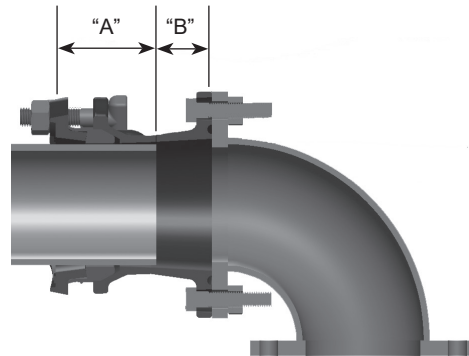
| C900 | | ASTM D2241 | | C909 | SDR35 |
|---------|---------|------------|---------|---------|------------|
| DR25 | DR18 | DR14 | SDR26 | SDR21 | PC150 |
| 165 PSI | 235 PSI | 305 PSI | 160 PSI | 200 PSI | 150 PSI |
| | | | | | PS> 46 PSI |

Ford Mechanical Joint Flange Adapter

Style MJFA



The Ford Mechanical Joint Flange Adapter, style MJFA provides a stab fit for connecting plain end pipe to a flange end pipe. The MJFA adapter can be used on ductile iron pipe, steel, PVC, or SDR35 sewer pipe applications. There is a 2" or more pipe insertion adjustment, which allows for uneven size cuts and pipe deflection with a maximum pipe deflection of 5° for 4"- 8" and 3° for 10"- 12".



MJFA for Ductile Iron, C900, IPS PVC, Steel, C909 and **SDR35 Sewer Pipe

| NOMINAL PIPE SIZE | PIPE O.D. | CATALOG NUMBER | DIMENSION "A" MINIMUM PIPE INSERTION | DIMENSION "B" PIPE ADJUSTABILITY | MAX. DEFLECTION ALLOWANCE | BOLT AND NUT CATALOG NUMBER | NUMBER OF BOLTS AND NUTS | SIZE OF BOLTS AND NUTS | APPROX. WEIGHT LBS. |
|-------------------|---------------|----------------|--------------------------------------|----------------------------------|---------------------------|-----------------------------|--------------------------|------------------------|---------------------|
| 3" | 3.50 - 3.96 | MJFA-3-I | *3-7/8" | *1-7/8" | 5° | TB-58-3 | 4 | 5/8" x 3" | 15 |
| 4" | 4.21 - 4.80 | MJFA-4-I | *4-3/8" | *2" | 5° | TB-34-4 | 4 | 3/4" x 4" | 17 |
| 6" | 6.27 - 6.90 | MJFA-6-I | *4-5/8" | *2-7/8" | 5° | TB-34-4 | 6 | 3/4" x 4" | 34 |
| 8" | 8.40 - 9.05 | MJFA-8-I | *4-11/16" | *3" | 5° | TB-34-412 | 6 | 3/4" x 4-1/2" | 41 |
| 10" | 10.50 - 11.10 | MJFA-10-I | *4-11/16" | *3-3/8" | 3° | TB-34-412 | 8 | 3/4" x 4-1/2" | 56 |
| 12" | 12.50 - 13.20 | MJFA-12-I | *4-11/16" | *3-5/8" | 3° | TB-34-412 | 8 | 3/4" x 4-1/2" | 74 |

* Not accounting for beveled, unsquare or deflected pipe ends.

** NBR (Buna-N) required for sewer applications. Add "-N" to the catalog number. Example: MJFA-6-N-I

Ford Series MJFA Flange Adapter with Flange Bolt

| NOMINAL PIPE SIZE | PIPE O.D. | CATALOG NUMBER | APPROX. WEIGHT LBS. | CATALOG NUMBER BOLTS AND NUTS | T-BOLTS | | CATALOG NUMBER FLANGE BOLTS AND NUTS | FLANGE BOLTS | |
|-------------------|---------------|----------------|---------------------|-------------------------------|---------|---------------|--------------------------------------|--------------|---------------|
| | | | | | QTY. | SIZE | | QTY. | SIZE |
| 3" | 3.50 - 3.96 | MJFA-3A-I | 21 | TB-58-3 | 4 | 5/8" x 3" | FBN-58-212 | 4 | 5/8" x 2-1/2" |
| 4" | 4.21 - 4.80 | MJFA-4A-I | 25 | TB-34-4 | 4 | 3/4" x 4" | FBN-58-212 | 8 | 5/8" x 2-1/2" |
| 6" | 6.27 - 6.90 | MJFA-6A-I | 43 | TB-34-4 | 6 | 3/4" x 4" | FBN-34-234 | 8 | 3/4" x 2-3/4" |
| 8" | 8.40 - 9.05 | MJFA-8A-I | 50 | TB-34-412 | 6 | 3/4" x 4-1/2" | FBN-34-234 | 8 | 3/4" x 2-3/4" |
| 10" | 10.50 - 11.10 | MJFA-10A-I | 69 | TB-34-412 | 8 | 3/4" x 4-1/2" | FBN-78-3 | 12 | 7/8" x 3" |
| 12" | 12.50 - 13.20 | MJFA-12A-I | 76 | TB-34-412 | 8 | 3/4" x 4-1/2" | FBN-78-312 | 12 | 7/8" x 3-1/2" |

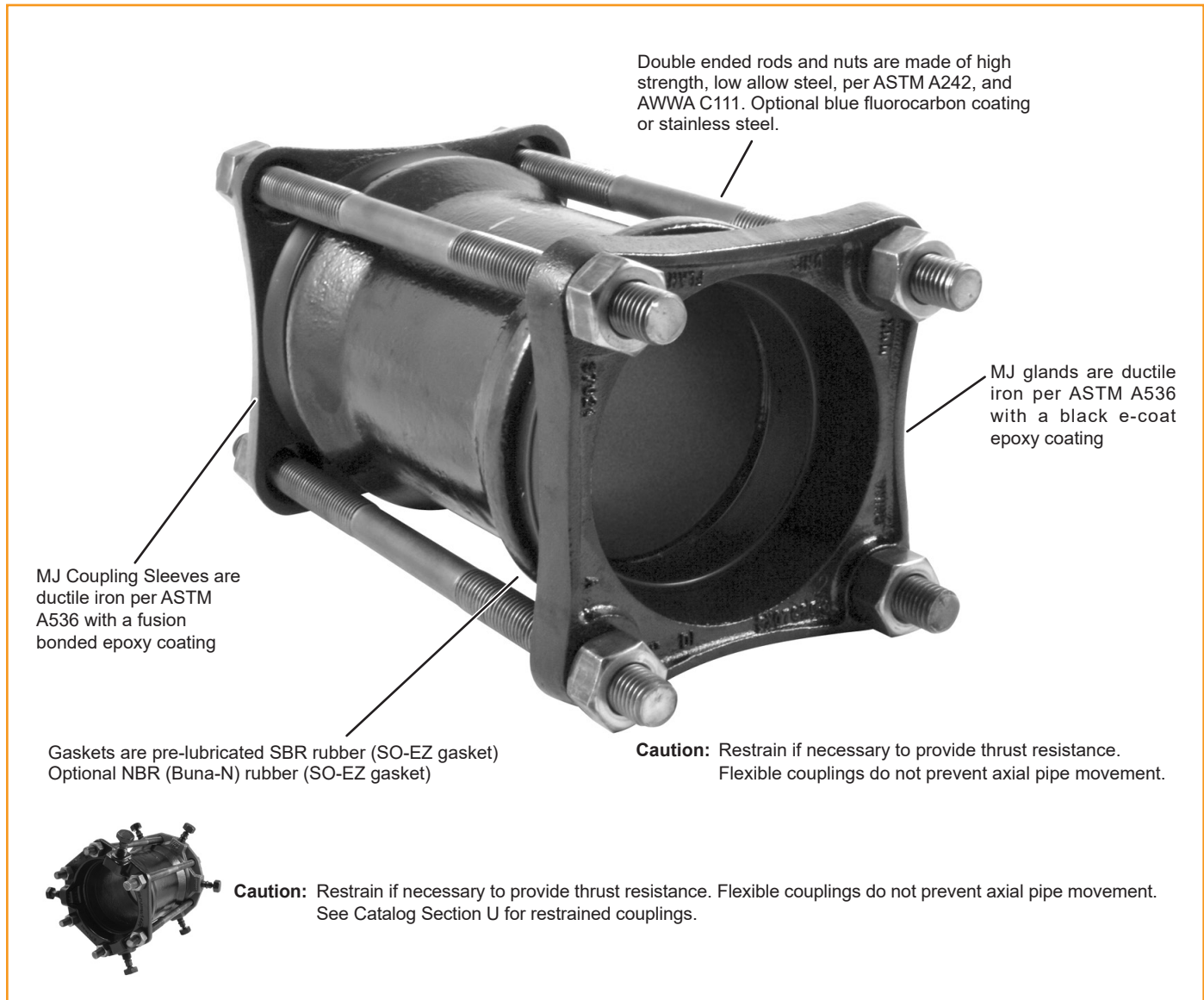
Note: For available options, see table on page M-3.

Caution: The MJFA is an unrestrained coupling and does not provide protection against possible pipe pullout. If restraint is required, the RFAD style coupling should be used on ductile iron applications. Restraint applications for C900, IPS PVC, steel, C909 or SDR35 pipe should use the RFAP style coupling (See Catalog Section U for restrained coupling options).

Ford Mechanical Joint Coupling

Style MJC

Joining plain end pipe is so easy when using Ford's MJC coupling. The standard coupling includes the SO-EZ gasket that permits a stab fit for a wide range within a nominal size pipe.



Component Specifications:

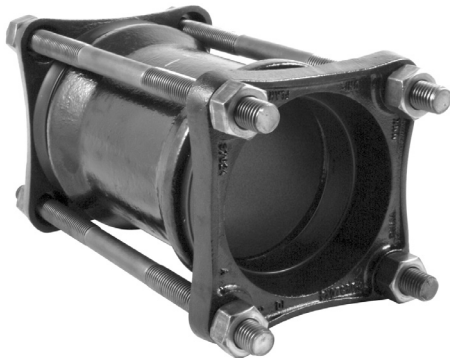
| | |
|------------------------------------|--|
| MJ Coupling Sleeve: | Ductile iron per ASTM A536 with fusion-bonded epoxy |
| Double-ended Rods and Nuts: | High strength low alloy steel per ASTM A242 and AWWA C111 Optional: blue fluorocarbon coated or stainless steel |
| MJ Gland: | Black e-coated, ductile iron per ASTM A536 |
| Gasket: | Pre-lubricated SBR rubber (SO-EZ gasket) ** Optional: NBR (Buna-N) rubber (SO-EZ gasket) required for sewer applications. |

Pressure Rating for C900, IPS PVC, C909 and **SDR35 Sewer Pipe

| C900 | | | ASTM D2241 | | C909 | SDR35 |
|---------|---------|---------|------------|---------|---------|------------------------|
| DR25 | DR18 | DR14 | SDR26 | SDR21 | PC150 | |
| 165 PSI | 235 PSI | 305 PSI | 160 PSI | 200 PSI | 150 PSI | PS _≥ 46 PSI |

Ford Mechanical Joint Coupling

Style MJC



Joining plain end pipe is so easy when using Ford's MJC coupling. The standard coupling includes the SO-EZ gasket that permits a stab fit for a wide range within a nominal size pipe.

The MJC coupling has a 2:1 safety factor at the full rated pressure of the pipe on which it is installed.

Caution: Restrain if necessary to provide thrust resistance.
Flexible couplings do not prevent axial pipe movement.
See Catalog Section U for restrained couplings

Style MJC Coupling for Ductile Iron, C900, IPS, Steel, C909 and **SDR35 Sewer Pipe

| NOMINAL PIPE SIZE | PIPE O.D.* | CATALOG NUMBER | MINIMUM PIPE INSERTION | MAXIMUM DEFLECTION ALLOWANCE | RODS AND NUTS | | APPROX. WEIGHT LBS. |
|-------------------|---------------|----------------|------------------------|------------------------------|---------------|------------|---------------------|
| | | | | | QTY. | SIZE | |
| 3" | 3.50 - 3.96 | MJC-3-U | *4" | 5° | 4 | 5/8" x 14" | 21 |
| 4" | 4.21 - 4.80 | MJC-4-I | *4-5/8" | 5° | 4 | 3/4" x 14" | 25 |
| 6" | 6.27 - 6.90 | MJC-6-I | *4-3/4" | 5° | 6 | 3/4" x 14" | 43 |
| 8" | 8.40 - 9.05 | MJC-8-I | *4-13/16" | 5° | 6 | 3/4" x 14" | 50 |
| 10" | 10.50 - 11.10 | MJC-10-I | *4-7/8" | 5° | 8 | 3/4" x 14" | 69 |
| 12" | 12.50 - 13.20 | MJC-12-I | *4-7/8" | 5° | 8 | 3/4" x 14" | 76 |

* Not accounting for beveled, unsquare or deflected pipe ends.

** NBR (Buna-N) gasket required for sewer applications.

Larger fabricated sizes are available, contact factory for more information.

Note: For available options, see table on page M-3.

I = Import Casting U = Domestic Casting

Component Parts for Style MJC Couplings

| NOMINAL PIPE SIZE | ***SLEEVEKITS | MJ COUPLING SLEEVE CATALOG NUMBER | GASKET CATALOG NUMBER | ROD CATALOG NUMBER | ROD SIZE | NUMBER OF RODS | NUTS | NUMBER OF NUTS |
|-------------------|---------------|-----------------------------------|-----------------------|--------------------|------------|----------------|--------|----------------|
| 3" | RCAK-3 | MJCS-3-U | SO-EZ-3 | DER-58-14 | 5/8" x 14" | 4 | HHN-58 | 8 |
| 4" | RCAK-4 | MJCS-4-I | SO-EZ-4 | DER-34-14 | 3/4" x 14" | 4 | HHN-34 | 8 |
| 6" | RCAK-6 | MJCS-6-I | SO-EZ-6 | DER-34-14 | 3/4" x 14" | 6 | HHN-34 | 12 |
| 8" | RCAK-8 | MJCS-8-I | SO-EZ-8 | DER-34-14 | 3/4" x 14" | 6 | HHN-34 | 12 |
| 10" | RCAK-10 | MJCS-10-I | SO-EZ-10 | DER-34-14 | 3/4" x 14" | 8 | HHN-34 | 16 |
| 12" | RCAK-12 | MJCS-12-I | SO-EZ-12 | DER-34-14 | 3/4" x 14" | 8 | HHN-34 | 16 |

*** Includes center sleeve, rods, nuts and bolts.

Installation Instructions

Ford FC2W Ultra-Flex Coupling

FC2W Ultra-Flex Installation Instructions

CAUTION

- Ultra-Flex couplings do not restrain axial movement of pipe.
- Ultra-Flex couplings are designed to float on pipe ends and are not designed to support the pipe. Block and shim as necessary.

INSTALLATION INSTRUCTIONS

1. Measure the outside diameter of each pipe end to be joined to ensure they are within the coupling range.
2. Thoroughly clean each pipe end to a smooth, bare sealing surface.
3. Stab each pipe end into the Ultra-Flex coupling. For ease of installation, it may be necessary to loosen the nuts when assembling on larger O.D. pipes. Disassembly of the coupling is not required. **NOTE: Do not lubricate the pipe OD or the gasket. If the coupling is disassembled, lubricate only the contoured lip on each end of the coupling sleeve prior to reassembly.**
4. Center the coupling between the two pipe ends. The optimum pipe end gap for the Ultra-Flex coupling is less than 1".
5. Evenly tighten bolts in an alternating sequence, being certain that end rings remain parallel to one another. Tighten bolts to the recommended torque shown in the table below. Use of a torque wrench is highly recommended and required to ensure proper torque.

| Recommended Bolt Torque | |
|-------------------------|----------|
| Nominal Coupling Size | Torque |
| 3" - 10" | 50 ft-lb |
| 12" and 16" | 75 ft-lb |

6. Restrain if necessary. Test and recheck bolt torque before backfilling. If a leak develops during testing, recheck bolt torque. Be advised that extreme torque can overstress coupling components.

Installation Instructions

Ford Flexible Couplings

CAUTION

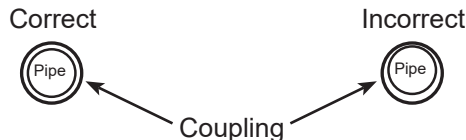
- Flexible couplings do not restrain axial movement of pipe.
- Flexible couplings are designed to float on pipe ends and are not designed to support the pipe.

INSTALLATION INSTRUCTIONS

1. Measure pipe O.D. to ensure it is within the coupling range.
2. Thoroughly clean each pipe end to a smooth, bare surface sufficiently longer than coupling length.
3. Slide the proper end ring onto each pipe end.
4. Lubricate the pipe ends and the gaskets before assembly to assist proper gasket seating. Use a non-petroleum based lubricant (suitable for potable water). In cold conditions, warm gasket to room temperature before installation to improve elasticity.
5. Place the proper gasket on each pipe end with the beveled edge facing the pipe end.
6. Slide center sleeve onto one pipe end, then center the sleeve over the pipe ends.

| | | | | |
|----------------------|------|------|-------|-------|
| Sleeve Length | 5" | 6" | 7" | 10" |
| Optimum Pipe End Gap | .50" | .50" | 1.00" | 1.00" |

7. **Extremely Important: Block and shim pipe ends and coupling as needed to ensure that the coupling remains at an equal distance from the pipe circumference.**



8. Push gaskets (by hand) into center sleeve evenly. Position end rings against the gaskets. Insert and tighten all bolts finger tight. Evenly tighten bolts in an alternating sequence, being certain that end rings remain parallel to one another. Use of a torque wrench is highly recommended and required to ensure proper torque.

1/2" Bolts = 40 - 50 ft. lbs.

5/8" Bolts = 60 - 70 ft. lbs.

9. Restrain if necessary. Test and recheck bolt torque before backfilling. If a leak develops during testing, tighten bolts to stop leak; however, extreme torque can overstress coupling components.

Stainless Steel Insert Stiffeners

For HDPE Pipe

End tapered for easy insertion

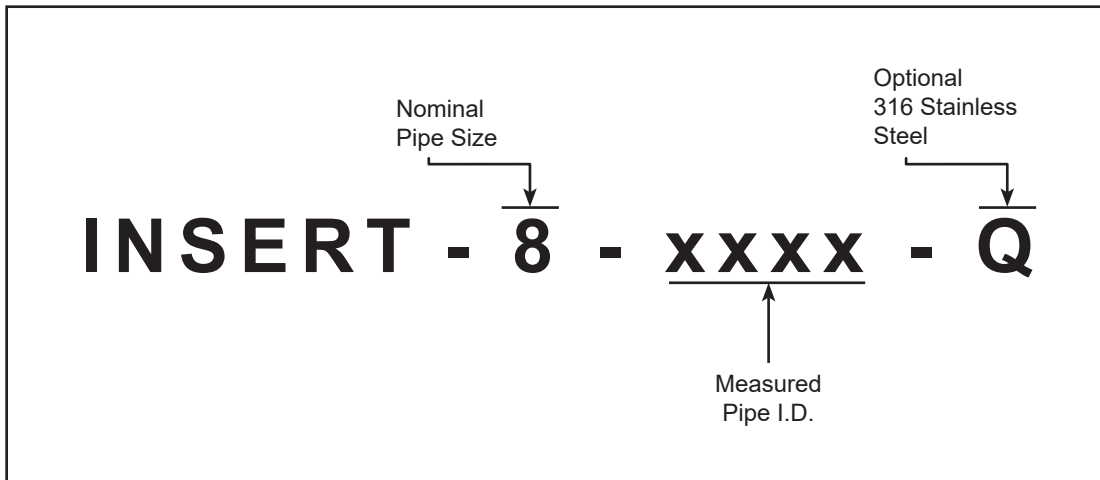


Ford stainless steel insert stiffeners prevent HDPE pipe from losing rigidity on the end while also keeping the gasket or restraint functioning properly on the pipe. With one end tapered and a lip on the other, the solid design is easy to install and can't be over-inserted.

Lip prevents over-insertion

Features:

- Solid design on 6" and larger sizes. 3" and 4" design may be solid or wedged.
- Type 304 stainless steel per ASTM A240 (with optional 316 stainless steel)
- Chemically passivated to restore natural corrosion-resistant state
- Durable, ergonomic design allows for a simple installation and long-lasting life



| NOM. PIPE SIZE | *CATALOG NUMBER | LENGTH | GAUGE/THICKNESS | APPROX. WT. LBS. |
|----------------|-----------------|---------|-----------------|------------------|
| 3" | INSERT-3-xxx | 6" - 8" | 14 | 1.7 |
| 4" | INSERT-4-xxx | | 20 | 1.0 |
| 6" | INSERT-6-xxx | 7-3/8" | 18 | 2.1 |
| 8" | INSERT-8-xxx | | 18 | 2.8 |
| 10" | INSERT-10-xxxx | | 18 | 3.5 |
| 12" | INSERT-12-xxxx | | 18 | 4.1 |
| 14" | INSERT-14-xxxx | | 16 | 5.7 |
| 16" | INSERT-16-xxxx | | 16 | 6.5 |
| 18" | INSERT-18-xxxx | | 16 | 7.4 |
| 20" | INSERT-20-xxxx | | 16 | 8.2 |
| 24" | INSERT-24-xxxx | | 16 | 9.6 |
| 30" | INSERT-30-xxxx | | 12 | 20.4 |
| 36" | INSERT-36-xxxx | | 12 | 25.0 |

* When ordering, the pipe inside diameter is required. For example, when ordering for an 8" pipe with an I.D. of 7.305", the part number is INSERT-8-731.

Contact factory for sizes larger than 36" or high pressure applications.

O.D. Chart

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

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

Section M

Ford[®] Cast Couplings and Adapters

Warranty

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

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

Please Note:

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