



THE FORD METER BOX COMPANY, INC.  
CERTIFIED TO ISO 9001:2008  
10002505

10/2018

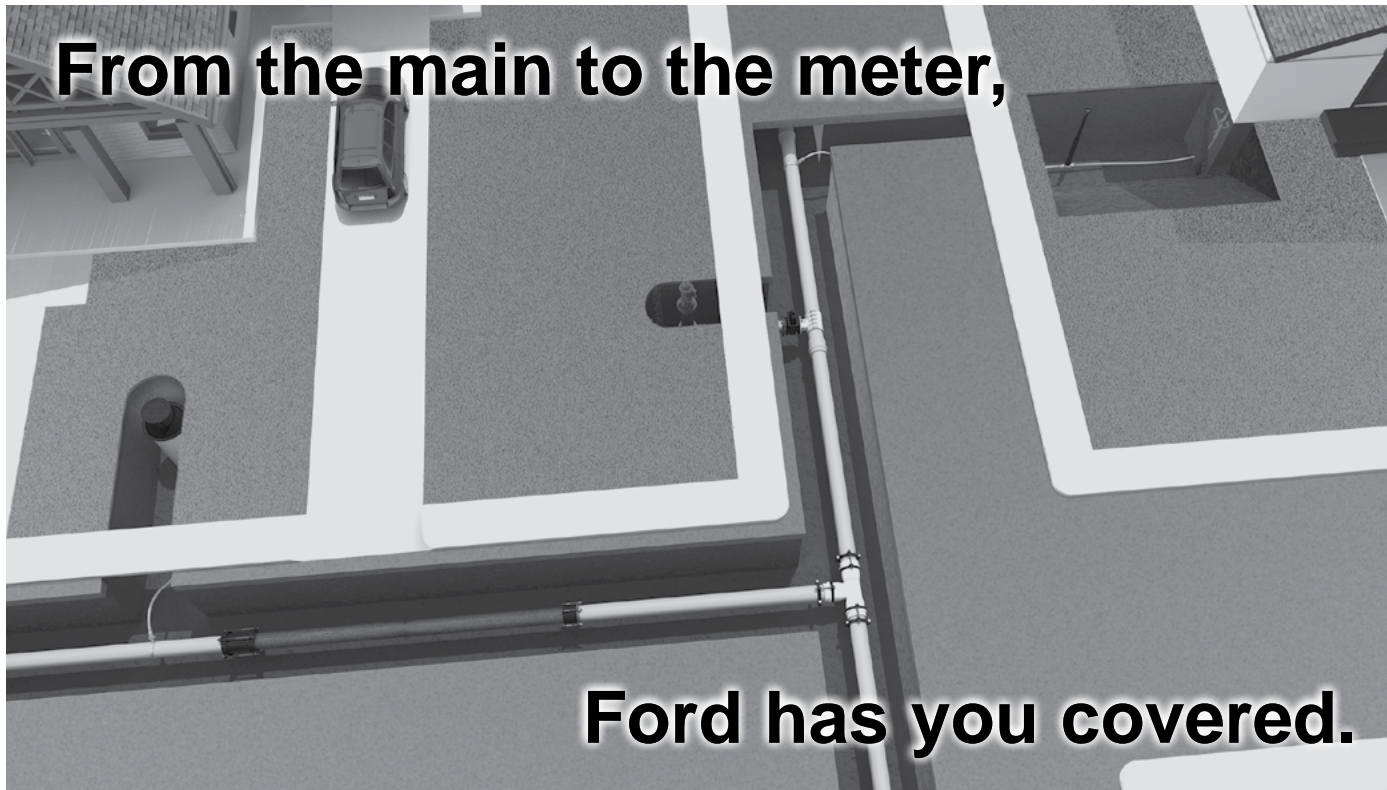
Web Revision 04/29/2020

# Ford<sup>®</sup> Product Guide

This guide shows Ford Meter Box product categories by catalog section. For complete product information, please refer to the specific catalog section referenced in this guide.



## FORD PRODUCT GUIDE



Ford Meter Box no-lead brass products manufactured from UNS/CDA No. 89833 alloy shall contain no more than 0.25% total lead content by weight. United States federal and state laws allow the use of products manufactured from UNS C83600 85-5-5-5 brass alloy for only non-potable water systems within the United States.

**Parties responsible for monitoring and maintaining proper water system design must exercise full responsibility in understanding and upholding the full intent and scope of applicable lead laws.**

Due to design improvements, product images in the catalog do not always reflect the most current design detail.

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# CORPORATION STOPS AND BALLCORPS

## Catalog Section A - 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"

**NO-LEAD**

**F 1 0 0 0 - 3 - G - NL**

### 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 (Schedule 40 & 80)
1600	1700	Female Iron Pipe

### OPTIONS

**G** = Grip Joint (3/4"-2" CTS and 3/4" and 1" PEP)

**IDR7** = Pack Joint for 1-1/2" and 2" PEP requires dimension ratio designation

**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 (requires a drilling/tapping machine adapter for MIP threads)

**\*U2-ANWT** = Ultra-Tite Coupling (requires a drilling/tapping machine adapter for flare copper threads)

**U-AWT** = Consists of components assembled watertight to coupling or ell

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

\* Ultra-Tite couplings assembled to corporation stop hand-tight.



# CORPORATION STOPS AND BALLCORPS

## Catalog Section A - Products

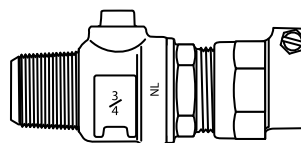
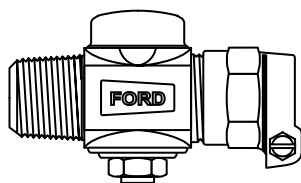
Ford Meter Box offers the largest variety of service line connections including male and female iron pipe thread, flare copper, compression couplings for copper, iron, polyethylene, PVC and lead. All Ford brass products that contact drinking water are made of no-lead UNS/CDA C89833 brass alloy unless otherwise requested.

### COMPRESSION FITTINGS

- Pack Joint Nuts are available on all fittings.
- Grip Joint Nuts are available for 3/4" through 2" CTS and 3/4" and 1" PE Pipe.
- Quick Joint Nuts are available on a select number of fittings. See catalog for particular listings.
- Ultra-Tite (stab connection) available on 3/4" and 1" PEP and PET (CTS).

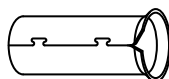
### Corporation Stops

Key Valve Corp

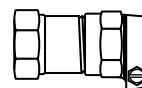
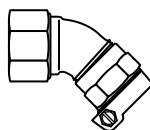
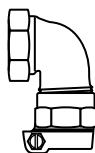


Ball Valve Corp  
(Ballcorp)

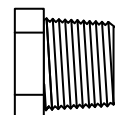
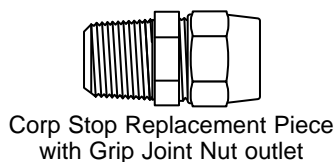
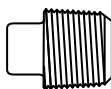
### Insert Stiffeners for PE Pipe or Tubing



### Quarter Bends, Eighth Bends, and Straight Couplings

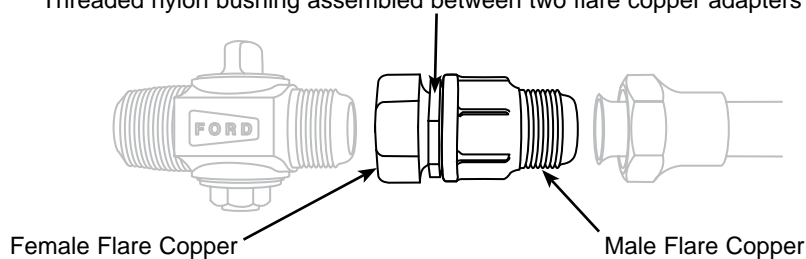


### Replacement Pieces, Brass Corp Stop Plugs and Brass Bushings for Corporation Stops



### Service Insulators

Threaded nylon bushing assembled between two flare copper adapters



# SERVICE SADDLES

## Catalog Section AA - Numbering System

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

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

**F C 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  
**202BSD** = Brass Saddle with Dual Stainless Steel Bands  
**\*F101** = Iron Saddle with a Single Strap  
**FC101** = Iron Saddle with a Single Stainless Steel Band and Epoxy Coated Body  
**\*◇ F202** = Iron Saddle with Two Steel Straps (*for 3" and 4" taps, saddle body is fabricated steel*)  
**◇ FC202** = Iron Saddle with a Double Wide Stainless Steel Band and Epoxy Coated Body  
**◇ FCD202** = Iron Saddle with Dual Stainless Steel Bands and Bolts, Epoxy Coated Body  
**FRS202** = All Stainless Steel Repair Saddle with Two Stainless Steel Bands  
**FS313** = All Stainless Steel Saddle with a Single Band  
**FS323** = All Stainless Steel Saddle with a Double Band  
**FS333** = All Stainless Steel Saddle with a Triple Band  
**FSP313** = All Stainless Steel Saddle with a Single Band for HDPE  
**FSP323** = All Stainless Steel Saddle with a Double Band for HDPE  
**FSP333** = All Stainless Steel Saddle with a Triple Band for HDPE

**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"

\* F101/F202 Saddles available with stainless straps, contact factory for availability.  
 ◇ F202 / FC202 / FCD202 Saddles available as import in sizes 2" - 12". Add "-I" to the end of the catalog number.

**TYPE OF SADDLE**  
S = Brass Saddle

**TYPE OUTLET THREAD**  
0 = Tapped AWWA  
1 = Tapped Iron Pipe

**S 7 0 - 2 0 3**

**S 9 0 2 - 2 0 3**

**TYPE OF MAIN TO BE TAPPED**  
4 = 2" Copper Tubing  
(with 1/2", 3/4" and 1" taps only)  
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"  
6 = 1-1/2"  
7 = 2"

**INDICATES SADDLE IS TWO-PIECE  
BOLTED DESIGN  
S902 AND S912 ONLY**

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

\* For S40/S41 saddles only. 1/2" taps for all other saddles require an optional bushing.

# SERVICE SADDLES

## Catalog Section AA - Products

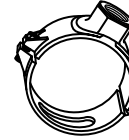
### Brass Saddles



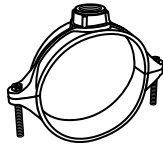
**Style S40 and S41**  
Saddle for Copper Tubing



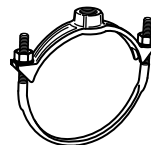
**Style S70 and S71**  
Saddle for Standard PVC Pipe



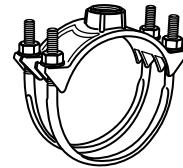
**Style S90 and S91**  
Saddle for C900 PVC Pipe



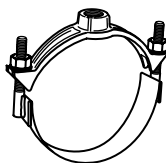
**Style S902 and S912**  
Two-Piece Bolted Saddle  
for C900 PVC Pipe



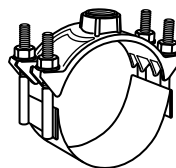
**Style 101B**  
Single Strap Saddle  
for AC and Iron Pipe



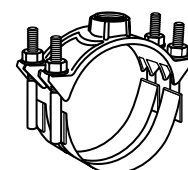
**Style 202B**  
Double Strap Saddle  
for AC and Iron Pipe



**Style 101BS**  
Single Band Saddle with Stainless Steel  
Bands and Bolts for C900 PVC Pipe



**Style 202BS**  
Double Band Saddle with  
Stainless Steel Bands and  
Bolts for C900/C905,  
AC and Iron Pipe



**Style 202BSD**  
Dual Band Saddle with  
Stainless Steel Bands and  
Bolts for C900/C905,  
AC and Iron Pipe

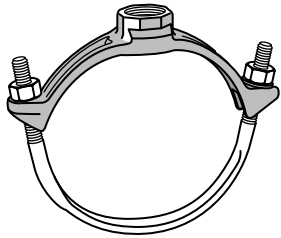
Brass saddles are not required to comply with the no-lead standard and shall meet the requirements of ASTM B62 and ASTM B584, using UNS/CDA number C83600. Brass saddles (in most states) are exempt from the no-lead requirements.

**Parties responsible for monitoring and maintaining proper water system design must exercise full responsibility in understanding and upholding the full intent and scope of applicable lead laws.**

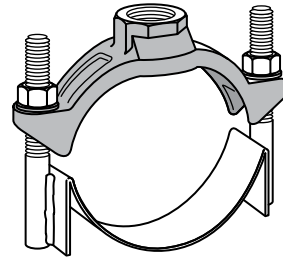
# SERVICE SADDLES

## Catalog Section AA - Products

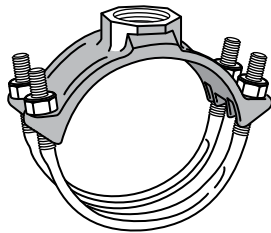
### Ductile Iron Service Saddles



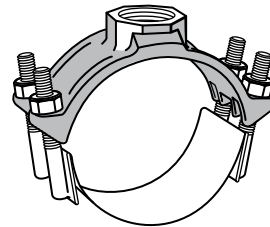
**Style F101**  
Single Strap Saddle  
(epoxy coated with standard steel strap)  
for AC and Iron Pipe



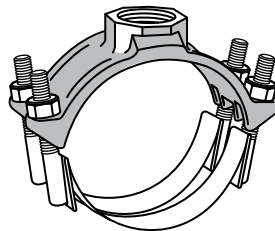
**Style FC101**  
Single Band Saddle (epoxy coated  
with stainless steel band and bolts)  
for AC, Iron, C900/C905 PVC  
and Steel Sized PVC



**Style F202**  
Double Strap Saddle  
(epoxy coated with standard steel straps)  
for AC and Iron Pipe



**Style FC202**  
Double Band Saddle (epoxy  
coated, with stainless steel band  
and bolts) for AC, Iron, C900/C905  
PVC and HDPE



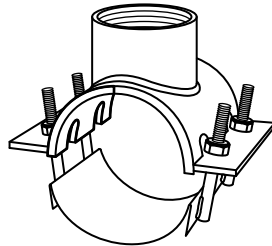
**Style FCD202**  
Dual Band Saddle  
(epoxy coated, with dual  
stainless steel band and  
bolts) for AC, Iron and  
C900/C905 PVC



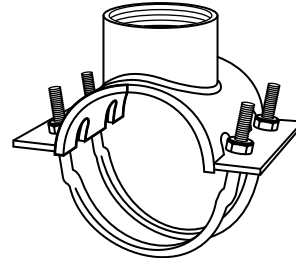
# SERVICE SADDLES

## Catalog Section AA - Products

### Fabricated Steel Service Saddles for 3" and 4" taps



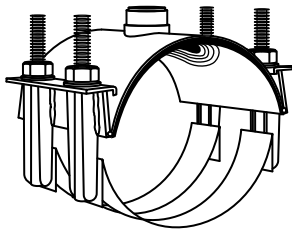
**Style FS202**  
(with stainless steel band)



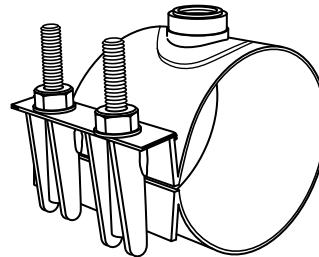
**Style F202**  
(with standard steel straps)

For C900/C905 PVC, Steel Sized PVC, AC and Iron Pipe

### Stainless Steel Service Saddles



**Style FRS202**  
Double Band Stainless Repair Saddle  
For C900/C905 PVC, AC and Iron Pipe



**Style FS300**  
Stainless Steel Saddle  
For C900/C905/C909 PVC, Steel Sized PVC,  
AC, and Iron Pipe

# TAPPING SLEEVES

## Catalog Section AA - Numbering System

### TYPE OF TAPPING SLEEVE

- FAST** = All Stainless Steel Tapping Sleeve
- FASTP** = All Stainless Steel Tapping Sleeve for use on HDPE
- FTSS** = All Stainless Steel Tapping Sleeve with Removable Bolts
- FTSSP** = All Stainless Steel Tapping Sleeve with Removable Bolts for use on HDPE
- FTSAS** = All Stainless Steel Tapping Sleeve with Removable Bolts 4"-36" Flange Size
- FTS** = Steel Tapping Sleeve with Removable Bolts and Outlet Seal Gasket
- FTSP** = Steel Tapping Sleeve for use on HDPE
- FTSC** = Epoxy Coated Steel Tapping Sleeve with Stainless Steel Bolts
- FTSCP** = Epoxy Coated Steel Tapping Sleeve with Stainless Steel Bolts for Use on HDPE

### OPTIONS

- A** = Optional Carbon Steel Flange on FAST, FTSS and FTSAS
- A-E** = Epoxy Coated Carbon Steel Flange on FAST, FTSS and FTSAS

**FAST - 970 - 4A - MJ**

### SIZE OF O.D.

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

### OUTLET SIZE

#### CODE

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

### OPTIONS

- MJ** = Mechanical Joint Adapter Outlet (instead of flange outlet)
- AH** = Optional High Strength Low Alloy Steel Nuts and Bolts on Removable Bolt Tapping Sleeves
- EPDM** = EPDM Gasket
- SH** = Optional Stainless Steel Nuts and Bolts on FTS
- FG** = Optional Ultra-Seal Cap Style Flange Gasket (available for 4" through 12" and standard on all 10" and 12" size flanges for FAST and FTSS tapping sleeves)

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

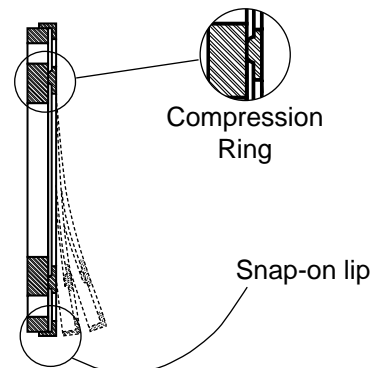
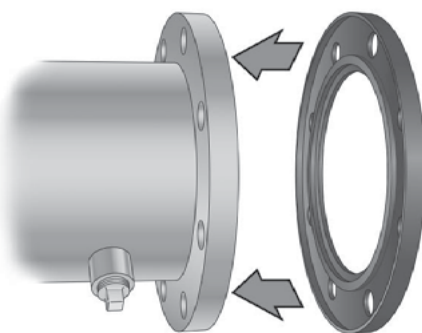
\* These outlet sizes are not available on the FAST Style.

Class E and F flanges are available. Contact the factory for availability.

# TAPPING SLEEVES

## Catalog Section AA - Products

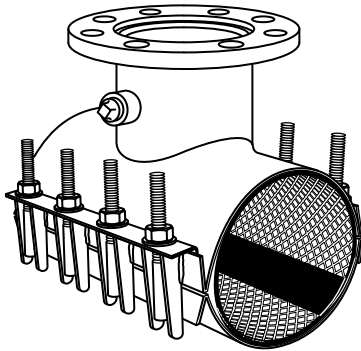
**Ultra-Seal Gasket**  
for 4"-12" Class D Flanges  
Style CSFG



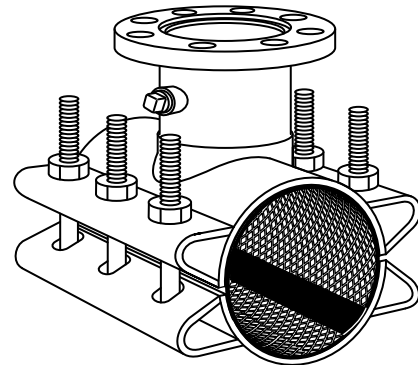
# TAPPING SLEEVES

## Catalog Section AA - Products

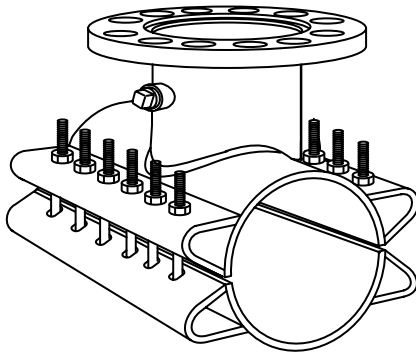
### Tapping Sleeves



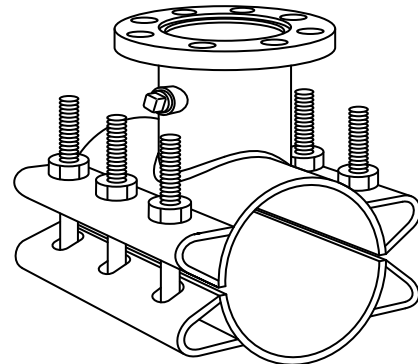
**All Stainless Steel Tapping Sleeve  
with 360° Gasket**  
Style FAST Tapping Sleeves with 3" - 12"  
stainless steel or carbon steel flange



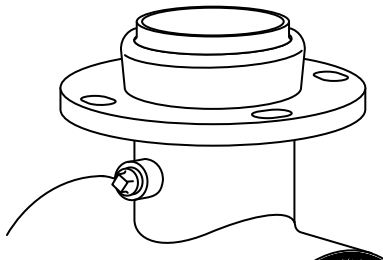
**All Stainless Steel Tapping Sleeve  
with Removable Bolts and 360° Gasket**  
Style FTSS Tapping Sleeves with 3" - 36"  
stainless steel or carbon steel flange



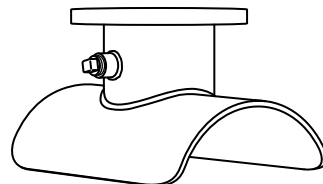
**All Stainless Steel Tapping Sleeve  
with removable bolts**  
Style FTSAS Tapping Sleeves with 3" - 36"  
stainless steel or carbon steel flange  
FTSAS not for use on HDPE pipe



**Steel Tapping Sleeve**  
Style FTS Tapping Sleeves  
and  
Style FTSC Epoxy Coated Tapping Sleeves  
Available with 3" - 36" flanged outlet.



**Mechanical Joint Outlet**  
Available for all tapping sleeves  
with 3" - 36" outlets



**Steel Weld-On Tapping Sleeves**  
Style FWS

# DRILLING MACHINE

## Catalog Section AB - Numbering System

### DRILLING MACHINE KITS

Catalog Number	Description
<b>DMO-NL</b>	Model 77 Drilling Machine Body Only (items 1 through 8)
<b>DMO-1-9A-NL</b>	Model 77 Drilling Machine Only (items 1 through 9A)
<b>DMK-1-12A-NL</b>	Model 77 Drilling Machine Kit Complete (items 1 through 12)

### DRILLING MACHINE COMPONENTS

Ref. No.	Description	Catalog Number
1	Handwheel and Feedscrew	DMHF
2	Ratchet Wrench	DMRW
3	Yoke	DMY
4	Yoke Bolts (2)	DMYB
5	Plug - 3/4" Iron Pipe Thread	DMP-3-NL
6	Packing Bushing	DMPB-NL
7	Boring Bar Packing (2)	DMBBP
8	Body	DMB-NL
9	3/4" Boring Bar (fits 11/16" drill and shell cutter for 3/4" corp stop)	DMBB-3
9A	1" Boring Bar (fits 7/8" drill and shell cutter for 1" corp stop)	DMBB-4A
10	3/4" Flare Copper Adapter with Gaskets	DMA2-3-NL
	1" Flare Copper Adapter with Gaskets	DMA2-4-NL
11	Open End Adjustable Wrenches (2 - one each 8" & 10")	DMAW-PR
12	Tool Box	DMTB

### OPTIONAL ITEMS

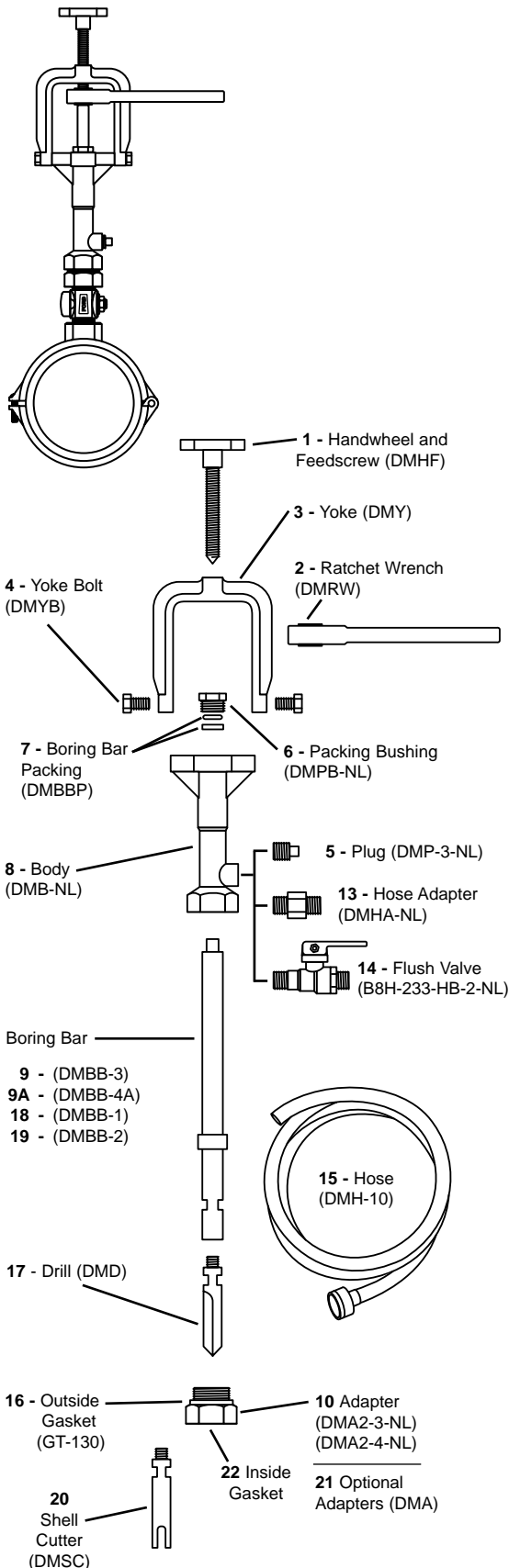
-	Drilling Machine Ratchet Wrench Repair Kit	DMRWK
13	Hose Adapter for Chip Flushing	DMHA-NL
14	Ball Valve with Hose Threads for Chip Flushing	B8H-233-HB-2-NL
15	10 ft. Hose for Chip Flushing	DMH-10
16	Outside Gasket for all Corp Stop Adapters	GT-130

### OPTIONS FOR 1/2" - 1-1/4" DRILLING REQUIREMENTS

17	7/16" Drill for 1/2" Corp Stop (fits boring bar DMBB-1-NL)	DMD-1
	9/16" Drill for 5/8" Corp Stop (fits boring bar DMBB-2-NL)	DMD-2
	11/16" Drill for 3/4" Corp Stop (fits boring bar DMBB-3-SS-NL)	DMD-3
	7/8" Drill for 1" Corp Stop (fits boring bar DMBB-4A-SS-NL)	DMD-4A
18	Boring Bar for 7/16" Drill for 1/2" Corp Stop	DMBB-1
19	Boring Bar for 9/16" Drill for 5/8" Corp Stop	DMBB-2
20	7/16" Shell Cutter for 1/2" Corp Stop (fits boring bar DMBB-1-NL)	DMSC-1
	11/16" Shell Cutter for PVC (fits boring bar DMBB-3-SS-NL)	DMSC-3
	7/8" Shell Cutter for PVC (fits boring bar DMBB-4A-SS-NL)	DMSC-4A
	1/2" Flare Copper Adapter with Gaskets	DMA2-1-NL
21	5/8" Flare Copper Adapter with Gaskets	DMA2-2-NL
	1-1/4" Flare Copper Adapter with Gaskets	*DMA2-5-NL
	3/4" Female Iron Pipe Adapter with Gaskets	DMA1-3-NL
	1" Female Iron Pipe Adapter with Gaskets	DMA1-4-NL
	1-1/4" Female Iron Pipe Adapter with Gaskets	*DMA1-5-NL
	1-1/4" Quick Joint Adapter with Gaskets	*DMA4-5-Q-NL
	3/4" Quick Joint Adapter with Gaskets	DMA6-3-Q-NL
	1" Quick Joint Adapter with Gaskets	DMA6-4-Q-NL
22	Inside Gasket for 1/2" Flare Copper Adapter	GT-106
	Inside Gasket for 5/8" Flare Copper Adapter	GT-107
	Inside Gasket for 3/4" Flare Copper Adapter	GT-118
	Inside Gasket for 1" Flare Copper Adapter	GT-119
	Inside Gasket for 1-1/4" Flare Copper Adapter	GT-147
	Inside Gasket for 3/4" Iron Pipe Adapter	GT-114
	Inside Gasket for 1" Iron Pipe Adapter	GT-120
	Inside Gasket for 1-1/4" Iron Pipe Adapter	GT-119

**Note:** 1-1/4", 1-1/2" and 2" equipment are shown in catalog section AB

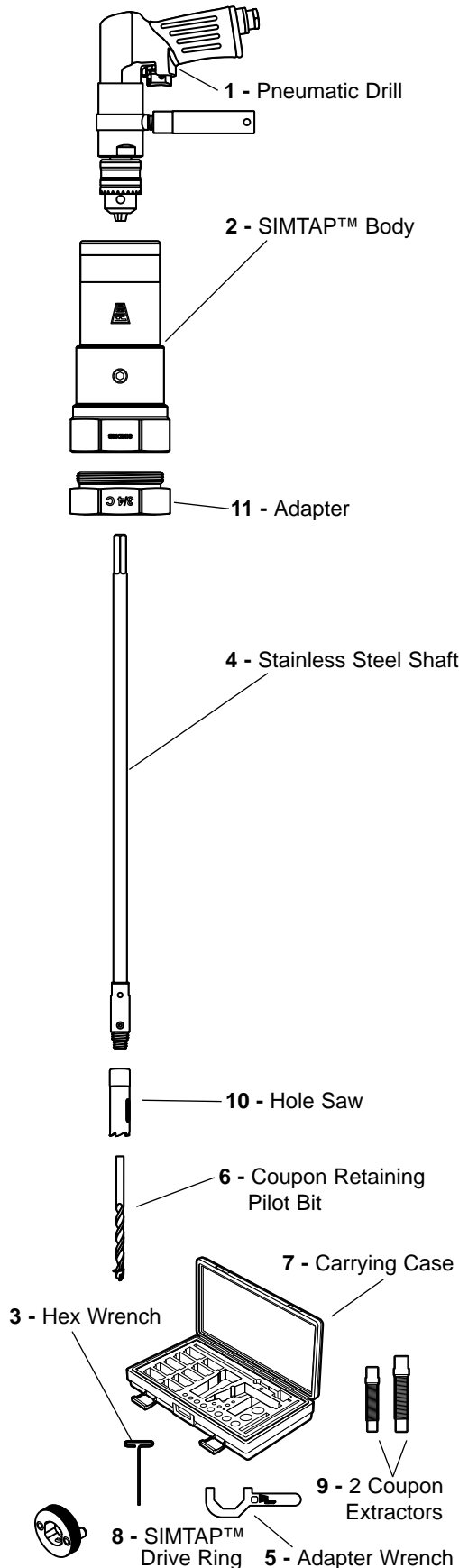
\* For use with 7/8" (1" nominal) drill or shell cutter.





# SIMTAP

## Catalog Section AB - Numbering System



### SIMTAP™ KITS

CATALOG NUMBER	DESCRIPTION
<b>SIMDMK</b>	Complete SIMTAP™ Drilling Machine Kit with Pneumatic Drill (includes items 1-11) (29.18 lbs)
<b>SIMDMK-LD</b>	The SIMTAP™ Drilling Machine Kit less Pneumatic Drill (includes items 2-11) (25.58 lbs)
<b>SIMDMK-B</b>	The SIMTAP™ Drilling Machine Base Kit (includes items 2-8) (12.9 lbs)

### COMPONENT PARTS

REF. NO.	CATALOG No.	DESCRIPTION
1	<b>SIMAD</b>	Pneumatic Drill
2	<b>SIMDMB</b>	SIMTAP™ Drilling Machine Body with bleed-off port (combination body and 2" flare copper thread adapter)
3	<b>SIMHW</b>	Pilot Drill Hex Wrench
4	<b>SIMDMBB-SS</b>	Stainless Steel Shaft with Dual Arbor
5	<b>SIMDMAW</b>	Adapter Wrench
6	<b>SIMDMPD</b>	1/4" Coupon Retaining Pilot Bit
7	<b>SIMDMTB</b>	SIMTAP™ Drilling Machine Carrying Case
8	<b>*SIMDRIVE-SS</b>	SIMTAP™ Drive Ring for use with 1-1/2" & 2" Hole Saws
9	<b>SIMCE1-SS</b>	1/2" Coupon Extractor
	<b>SIMCE2-SS</b>	5/8" Coupon Extractor
10	<b>SIMDMHS-3</b>	11/16" Hole Saw
	<b>SIMDMHS-4</b>	7/8" Hole Saw
	<b>SIMDMHS-6</b>	1-3/8" Hole Saw
	<b>SIMDMHS-7</b>	1-7/8" Hole Saw
11	<b>SIMDMA1-3</b>	3/4" Iron Pipe Thread Adapter (Red)
	<b>SIMDMA2-3</b>	3/4" Flare Copper Thread Adapter (Purple)
	<b>SIMDMA1-4</b>	1" Iron Pipe Thread Adapter (Turquoise)
	<b>SIMDMA2-4</b>	1" Flare Copper Thread Adapter (Grey)
	<b>SIMDMA6-4-Q</b>	1" PEP Quick Joint Thread Adapter (Blue)
	<b>SIMDMA1-6</b>	1-1/2" Iron Pipe Thread Adapter (Brown)
	<b>SIMDMA2-6</b>	1-1/2" Flare Copper Thread Adapter (Orange)
	<b>SIMDMA4-6-Q</b>	1-1/2" CTS Quick Joint Thread Adapter (Green)
	<b>SIMDMA1-7</b>	2" Iron Pipe Thread Adapter (Gold)
	<b>SIMDMA4-7-Q</b>	2" CTS Quick Joint Thread Adapter (Yellow)

\* Requires newer model boring bar with flats and dimple / detent.

### Optional Items

CATALOG NUMBER	DESCRIPTION
<b>SIMDMA6-3-Q</b>	3/4" PEP Quick Joint Thread Adapter (Aqua)
<b>SIMDMA1-5</b>	1-1/4" Iron Pipe Thread Adapter (Black)
<b>SIMDMA2-5</b>	1-1/4" Flare Copper Thread Adapter (Pink)
<b>SIMDMA4-5-Q</b>	1-1/4" CTS Quick Joint Thread Adapter (Silver)
<b>SIMDMA1-8</b>	2-1/2" Iron Pipe Thread Adapter (Silver)
<b>SIMDMHS-5</b>	1-1/8" Hole Saw
<b>SIMDMSC-3-PVC</b>	11/16" Shell Cutter for PVC (Asbestos Cement)
<b>SIMDMSC-4-PVC</b>	7/8" Shell Cutter for PVC (Asbestos Cement)
<b>SIMDMSC-5-PVC</b>	1-1/8" Shell Cutter for PVC (Asbestos Cement)
<b>SIMDMSC-6-PVC</b>	1-3/8" Shell Cutter for PVC (Asbestos Cement)
<b>SIMDMSC-7-PVC</b>	1-7/8" Shell Cutter for PVC (Asbestos Cement)
<b>**SIMDMSC-6-PVC-HDPE</b>	1-3/8" Shell Cutter for PVC or HDPE
<b>**SIMDMSC-7-PVC-HDPE</b>	1-7/8" Shell Cutter for PVC or HDPE
<b>SIMDMBB-285-SS</b>	Stainless Steel Shaft with Dual Arbor - 28-1/2" Long
<b>SIMDMPD-5-5</b>	1/4" Coupon Retaining Pilot Bit - 5-1/2" Long for HDPE

# INSIDE METER SETTINGS

## Catalog Section B - Numbering System

### TYPE OF INDOOR SETTER

**PB** = Plumbhorn - *for new services*

**KH** = Kornerhorn \*

**DH** = Drophorn \*

**PH** = Pretzelhorn \*

**KHVB** = Kornerhorn\* with Integral Ball Valve

**KHVBH** = Kornerhorn\* with Integral Ball Valve and Single Check Valve

**KHVBHH** = Kornerhorn\* with Integral Ball Valve and Cascading Dual Check Valve

**KHVBHC** = Kornerhorn\* with Integral Ball Valve and Cartridge Dual Check Valve

\* Requires removable Pack Joint assemblies to attach setter to existing service line (two per setter).

**A** = Meter Parallel to Service Line

**B** = Meter Perpendicular to Service Line

**DROP** (meter set below the service line)

**18** = 18"

**24** = 24"

**30** = 30"

**36** = 36"

### METER SIZE

**1** = 5/8"

**2** = 5/8"x3/4"

**3** = 3/4"

**4** = 1"

*Drophorn Information Only*

**NO-LEAD**

**DH - 2 A-24 - NL**

**CH 4 4 - 3 3 3 - G - NL**

**CH** = Copperhorn  
- *for new services*

**VCH** = Valve Copperhorn  
- *for new services*

### METER SIZE

**1** = 5/8"

**2** = 5/8"x3/4"

**3** = 3/4"

**4** = 1"

**NO-LEAD**

### TYPES OF INLETS - OUTLETS (one end - other end)

**1** = Female Iron Pipe Thread  
(double purpose on valve copperhorns)

**2** = Flare Copper Tube Nut

**4** = Pack Joint for Plastic Pipe  
or Copper Tube (CTS)

**5** = Pack Joint for Iron Pipe

**6** = Pack Joint for PE Pipe

**7** = Pack Joint for PVC Pipe (Schedule 40 & 80)

**8** = Male Iron Pipe Threads

**S** = Solder Connection

### SIZE OF INLETS - OUTLETS (one end - other end)

**1** = 1/2"

**2** = 5/8"

**3** = 3/4"

**4** = 1"

**G** = Grip Joint options  
3/4" - 2" CTS and  
3/4" and 1" PEP

**LS** = Less Swivels with  
Swivel Nuts

**Q** = Quick Joint

Note: Convex (male) double purpose ends are standard.

For concave (female) double purpose ends use prefix **CHFSW**xx-xxx-NL.

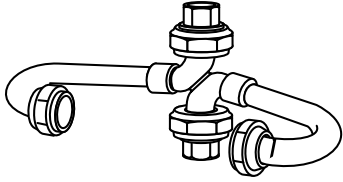
Note: See item listings in catalog section to ensure desired sizes and options are available.

# INSIDE METER SETTINGS

## Catalog Section B - Products

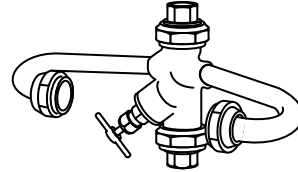
### Copperhorns

For metering **new** services



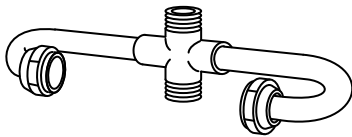
### Valve Copperhorns

For metering **new** services



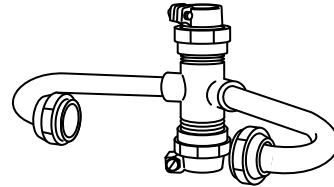
### Plumbhorns

For metering **new** services



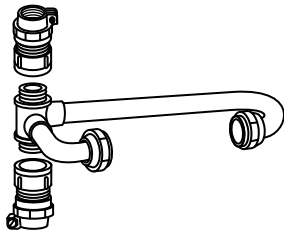
### Handyhorns

For metering **new or existing** services  
(setters with integral inlet - outlet  
Pack Joint connections)



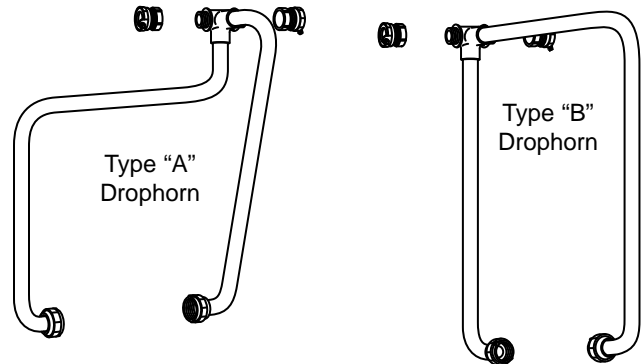
### Kornerhorns

For metering **existing** services  
(setters with removable & interchangeable valves  
and Pack Joint connections, sold separately)



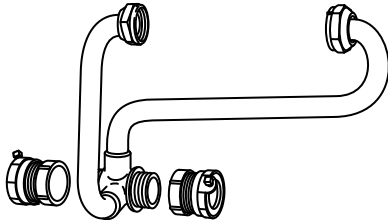
### Drophorns

For metering **existing** services  
(setters with removable & interchangeable valves  
and Pack Joint connections, sold separately)



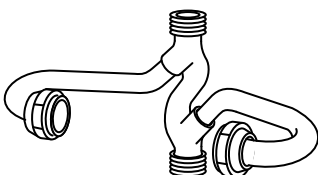
### Pretzelhorns

For metering **existing** services  
(setters with removable & interchangeable valves  
and Pack Joint connections, sold separately)



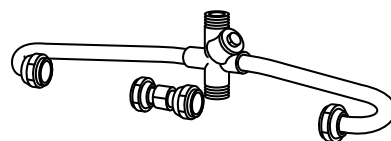
### Basement Resetters

For **existing** meter services



### Wall Setters / Tandem Indoor Settings

For special metering applications



# METER BOXES

## Catalog Section C - Numbering System

### METER BOX TYPE

- CB** = Crescent Box
- DG** = Double Gulfbox
- DGHC** = Long Double Gulfbox with Cartridge Dual Check Valve
- G** = Gulfbox
- GHC** = Long Gulfbox with Cartridge Dual Check Valve
- LYLB** = Single Ball Valve Long Yokebox with Cartridge Dual Check Valve ◇
- LYLBB** = Double Ball Valve Long Yokebox with Cartridge Dual Check Valve ◇
- LYLV** = Single Key Valve Long Yokebox with Cartridge Dual Check Valve ◇
- LYLVV** = Double Key Valve Long Yokebox with Cartridge Dual Check Valve ◇
- YL** = Shallow Yokebox ◇
- YLB** = Shallow Ball Valve Yokebox ◇
- YLBHC** = Shallow Ball Valve Yokebox with Cartridge Dual Check Valve ◇
- YLHC** = Shallow Yokebox with Cartridge Dual Check Valve ◇
- YM** = Deep Yokebox
- YMB** = Deep Ball Valve Yokebox
- YMBHC** = Deep Ball Valve Yokebox with Cartridge Dual Check Valve
- YMHC** = Deep Yokebox with Cartridge Dual Check Valve
- YS** = Extra Shallow Key Valve Yokebox
- YSB** = Extra Shallow Ball Valve Yokebox
- YSBHC** = Extra Shallow Ball Valve Yokebox with Cartridge Dual Check Valve

◇ For plastic upper section add a "P". Example: LYLBP

- P** = Optional Plastic Upper Section, Shallow Boxes Only (LYL or YL Yokeboxes only)
- JP** = Optional Enlarged Plastic Upper Section and Lid (YL or YM Yokebox only)

### OPTIONAL

- G** = Grip Joint Connections
- K** = "Linesaver" Upper Body Casting
- LL** = Lockless Lid
- P** = Plastic Lid
- PB** = Plastic Lid with ERT Bracket (bracket option not for "YS" Yokebox)
- PLB** = Plastic Lid with large ERT Bracket (bracket option not for "YS" Yokebox)
- P4** = 4" Plastic Riser
- RL** = Reading Lid (hinged cast iron flap)
- RW** = Reclaimed Water Lettering on Lid
- RWC** = Reclaimed Water Lettering on Purple Lid
- SP** = Spacer in lieu of Dual Check Valve for Long Yokebox
- T** = Electronic Meter Reading Lid, 2" hole
- TP** = Electronic Meter Reading Lid, 2" hole with removable plug
- U-NA** = Ultra-Tite Compression (not assembled)

### METER SIZE

- 1 = 5/8"
- 2 = 5/8"x3/4"
- 3 = 3/4"
- 4 = 1"

**YLB JP 1 2 2 - 2 3 3 - T-NL**

### SERVICE LINE POSITION

- 1 = Straight Inlet & Outlet
- 2 = Angle Inlet & Straight Outlet
- 3 = Angle Inlet & Outlet
- 4 = Straight Inlet & Angle Outlet

### TYPE OF INLET - OUTLET

- 1 = Female Iron Pipe Threads or Double Purpose Connection
- 2 = Flare Copper Tube Nut
- 4 = Pack Joint for Plastic or Copper
- 5 = Pack Joint for Iron Pipe
- 6 = Pack Joint for PE Pipe
- 7 = Pack Joint for PVC Pipe (Schedule 40 & 80)
- 8 = Male Iron Pipe Threads

### SIZE OF INLET - OUTLET

- 1 = 1/2"
- 2 = 5/8"
- 3 = 3/4"
- 4 = 1"

### NO-LEAD

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

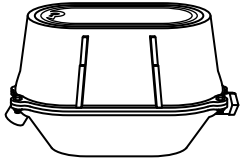


# METER BOXES

## Catalog Section C - Products

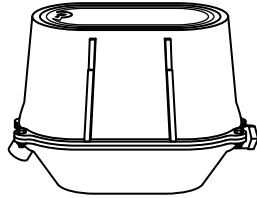
### Yokeboxes for 5/8" and 5/8"x3/4" Meters

Yokeboxes are available with a variety of options and configurations including a straight or angle inlet. Outlet cartridge dual check valves are also available on Long Yokebox and Long Double Gulfbox styles.



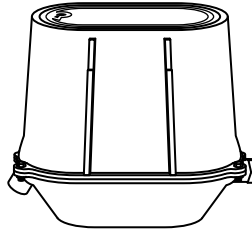
#### EXTRA SHALLOW TYPE (YS)

For modern magnetic or multi-jet meters  
(center line of meter  
5" below grade)



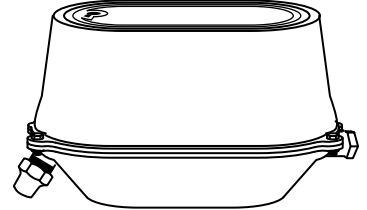
#### SHALLOW TYPE (YL)

(center line of meter  
8" below grade)



#### DEEP TYPE (YM)

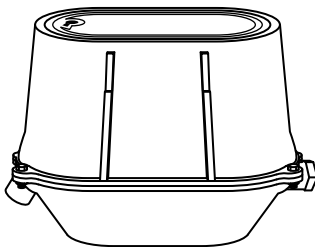
(center line of meter  
10" below grade)



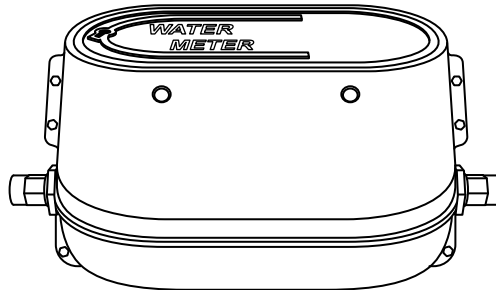
#### LONG YOKEBOX (SHALLOW)

(with a cartridge dual check  
valve included, located  
completely within the Yokebox)

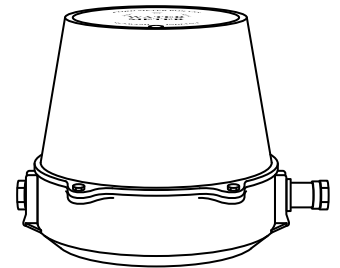
#### YOKEBOXES FOR 3/4" METER



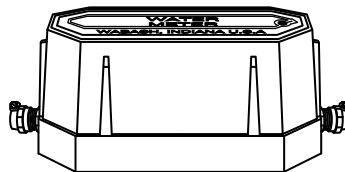
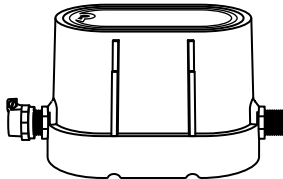
#### LONG YOKEBOXES FOR 1" METER (Cartridge dual check valve within the Yokebox)



#### YOKEBOXES FOR 1" METER



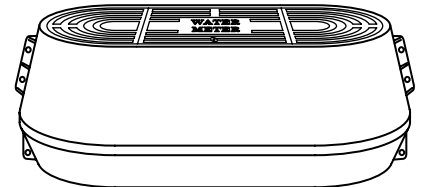
### GULFBOXES FOR 5/8" AND 5/8"x3/4" METER



"Long Gulfboxes" are available for  
use when a cartridge dual check  
valve is required.

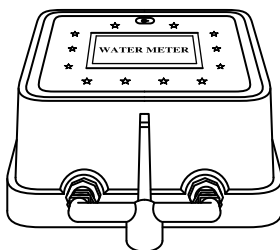
### PROTECTOR METER BOXES

For 1-1/2" and 2" meters



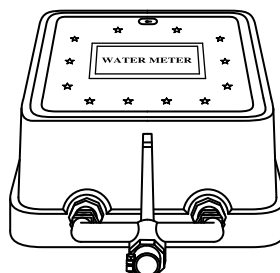
### DOUBLE GULFBOXES

For 5/8" and 5/8"x3/4" meters



### LONG DOUBLE GULFBOXES

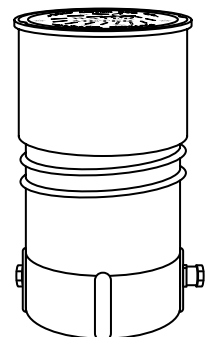
For 5/8" and 5/8"x3/4" meters



"Long Double Gulfboxes" are  
available for use when cartridge dual  
check valves are required.

### CRESCENT BOXES

Grade adjustable boxes for  
5/8", 5/8"x3/4", 3/4" and 1" meters



# METER BOX COVERS

## Catalog Section D - Numbering System

### 15" - 21" Meter Pit Covers

#### TYPE OF COVER

- 32B** = Adjustable Cover 11-1/2" Lid, 18" Pit Diameter  
**A** = Recessed Single Lid Cover (4" depth)  
**A32C** = Spiked Cover 11-1/2" Lid, 18" Pit Diameter  
**C** = Overlapping Single Lid Cover (4" depth)  
**KA** = Flat Cover with Inset Lid  
**PMBC** = Overlapping Single Lid Plastic Cover (4" depth)  
**W** = Wabash Double Lid Cover (10" depth)  
**X** = Overlapping Single Lid Hinged Cover (4" depth)

#### TYPE OF TOP LID OR FRAME

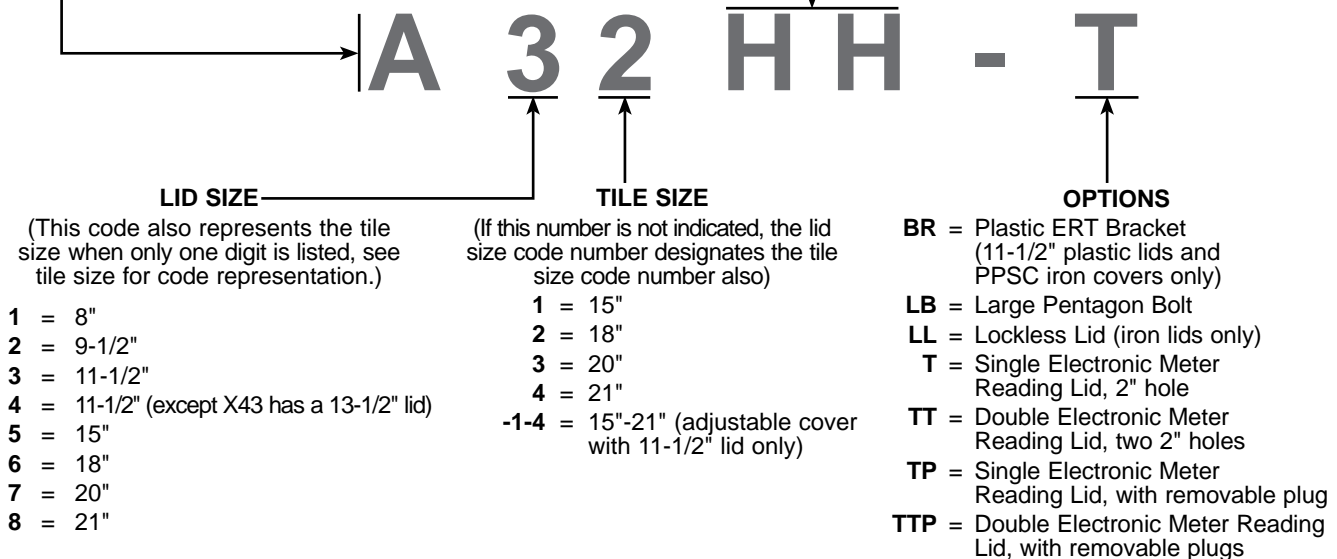
- C3** = Special Spiked & Adjustable Top Lid *ONLY*  
**CX** = Type "C" or Type "X" Plastic Top Lid *ONLY*  
**\*F** = Frame Only  
**WA** = Wabash, Type "A", Type "KA" Top Lid *ONLY*

#### LID ONLY AND/OR LID THICKNESS

- A** = Aluminum Inner Lid with W3 cover instead of plastic  
**-D** = Recessed Plastic Inner Lid for W Style Cover with 11-1/2" lid opening - Standard with Plastic Lids and Iron Lids with T-read holes  
**H** = Extra Heavy Lid  
**L** = Lid Only, Without Frame. The "L" will need to appear with all LID ONLY part numbers.  
**P** = Locking Plastic Lid (11-1/2" size only)  
**PR** = Plastic Inset Lid (11-1/2" size only) - only on W, A and KA Style Lids

#### FRAME ONLY

- HH** = Double Extra Heavy Frame with Extra Heavy Lid for Style A only



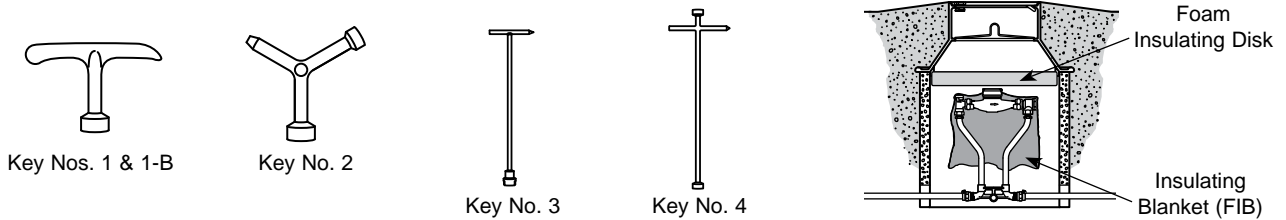
Note: See item listings in catalog section to ensure that desired sizes and options are available.

\* "F" placed before cover type code designates "Frame Only"

# METER BOX COVERS

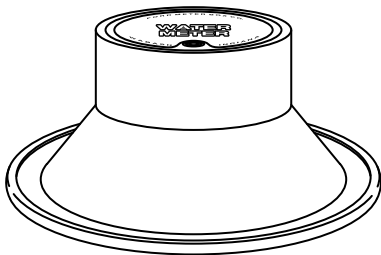
## Catalog Section D - Products

### Keys for Covers and Valves, Worm Lock Parts, Insulating Blankets and Disks



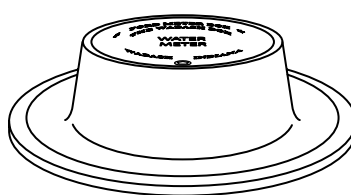
### Wabash Double Lid Covers

Inset style top lid plus inner lid for frost protection, 10" cover depth



### Type "A" Single Lid Covers

Inset style top lid, 4" cover depth



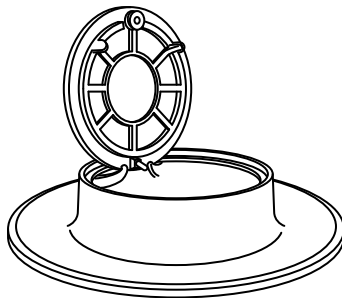
### Type "C" Single Lid Covers

Overlapping style top lid, 4" cover depth



### Type "X" Single Lid Covers

Overlapping style top lid with hinged lid support on frame, 4" cover depth



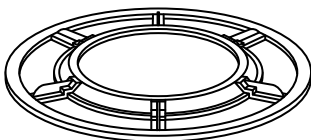
### PMBC-3 Plastic Single Lid Cover

Overlapping style top lid, 4" cover depth



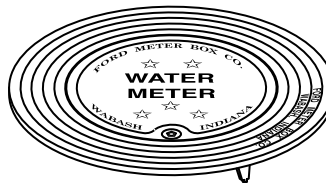
### Extension Rings

For Wabash, "A," "C," or "X" type covers



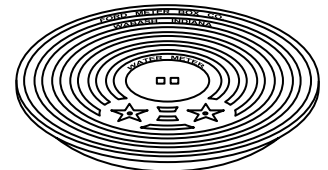
### Flat Meter Box Covers

Type "KA" flat covers with inset style lids



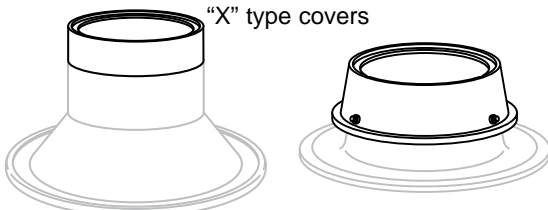
### One Piece Flat Covers

(no separate top lid)



### Elevator Rings

For Wabash and "A" or "C" and "X" type covers



### Adjustable Cover

Inset style top lid with adjustable frame height, 3-1/4"–6-1/2" cover depth



### Inset Style Top Lid with Anchor Spikes on Frame

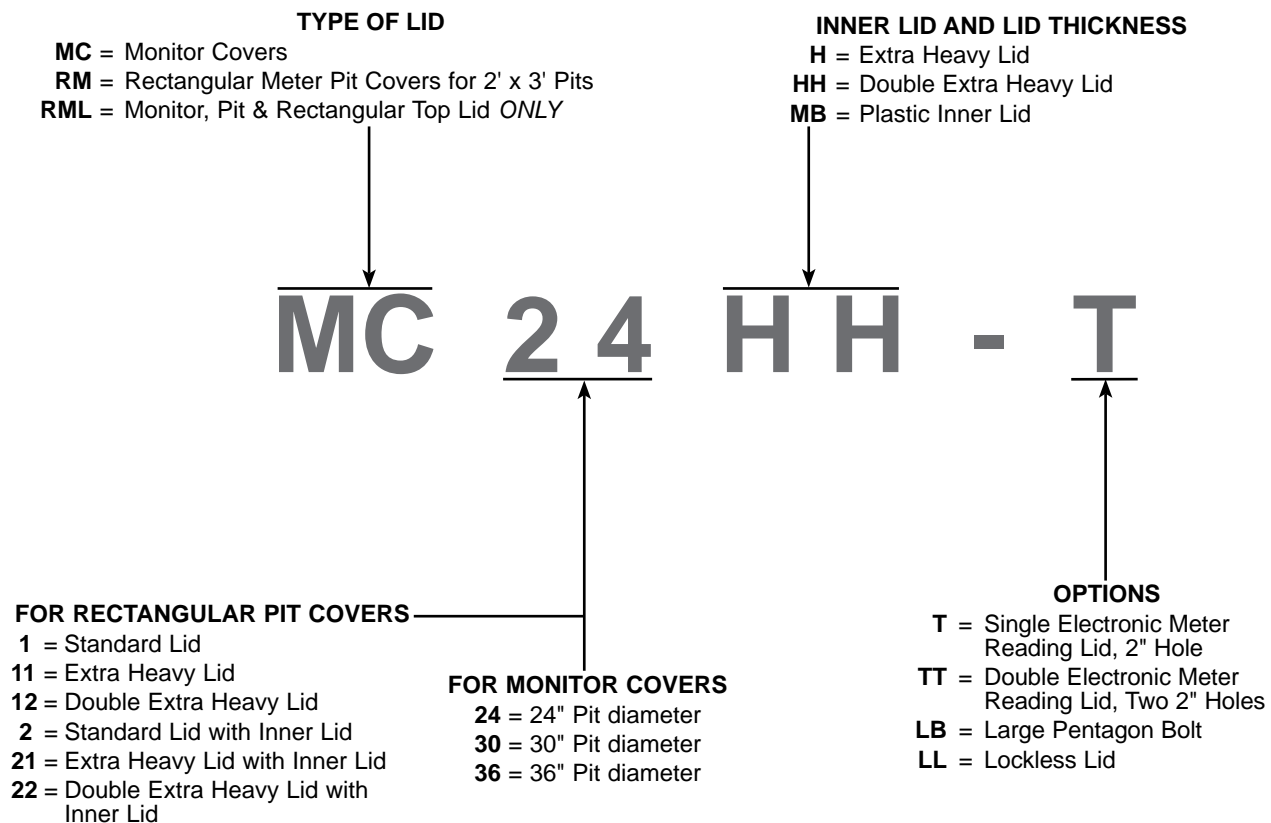
4" cover depth



# METER BOX COVERS

## Catalog Section D - Numbering System

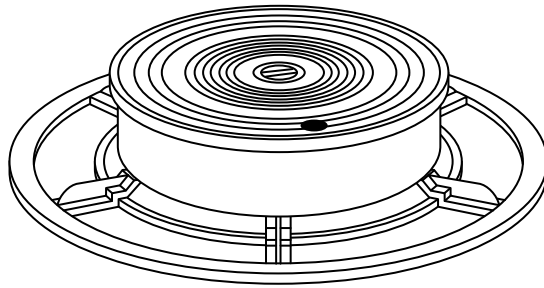
### 24" and Larger Meter Pit Covers



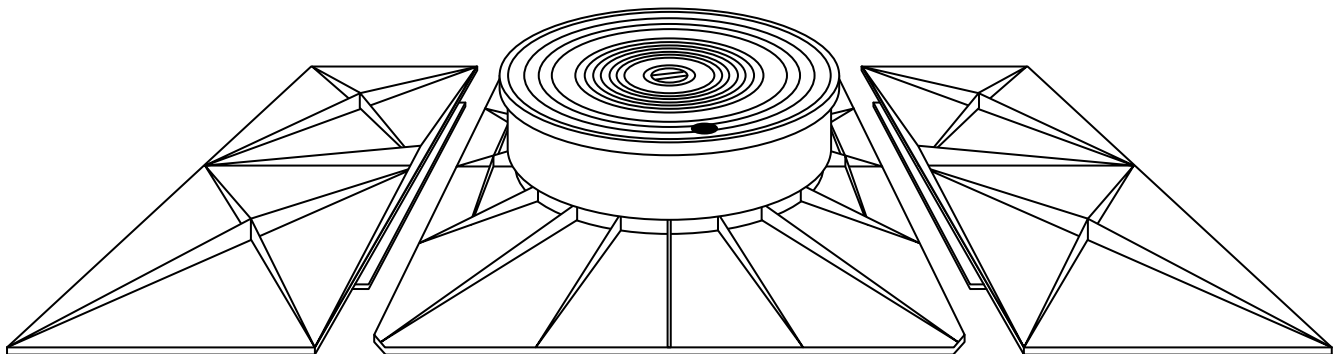
Note: See item listings in catalog section to ensure that desired sizes and options are available.



**Monitor Covers**  
(for large settings)

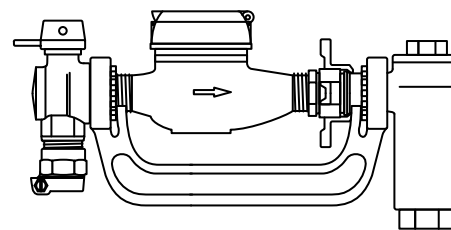
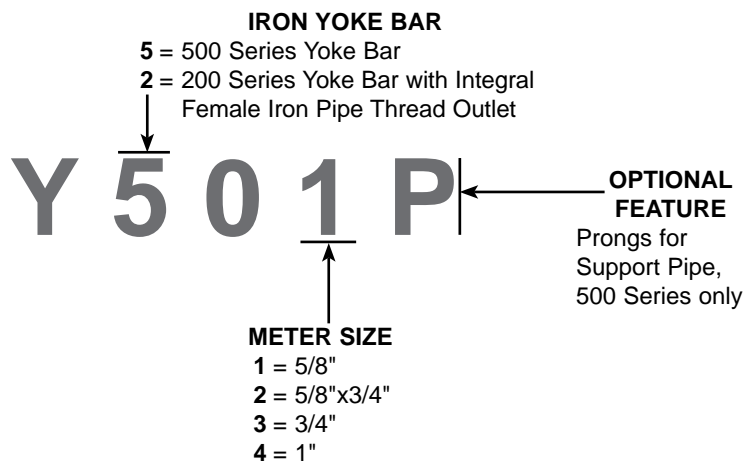


**Rectangular Meter Pit Covers**



# METER YOKES

## Catalog Section E - Numbering System



Example of a complete yoke meter setting using a 500 Series Yoke Bar, an angle ball inlet valve, standard expansion connection and an angle cartridge dual check outlet valve.

### TYPE OF INLET OR OUTLET VALVE/FITTING

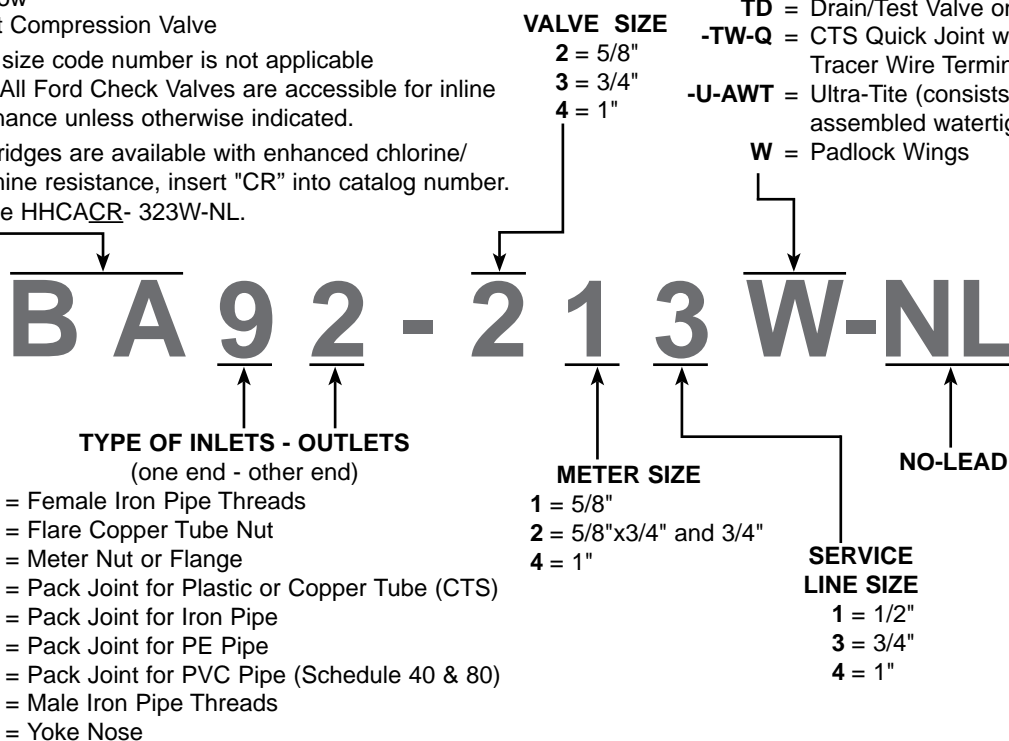
- AV = Angle Key Yoke Valve
- B = Straight Ball Valve
- BA = Angle Ball Valve
- \*C = Straight Coupling
- GA = Angle Compression Valve
- HA = Angle Check Valve
- HHA = Cascading Style Angle Dual Check Valve
- HHCA = Cartridge Style Angle Dual Check Valve ▲
- HHCH = Cartridge Style Straight Dual Check Valve ▲
- HHS = Cascading Style Straight Dual Check Valve
- HS = Straight Check Valve
- \*L = 90° Elbow
- SG = Straight Compression Valve

\* Valve size code number is not applicable  
NOTE: All Ford Check Valves are accessible for inline maintenance unless otherwise indicated.  
▲ Cartridges are available with enhanced chlorine/chloramine resistance, insert "CR" into catalog number.  
Example HHACR- 323W-NL.

### YOKE PARTS & OPTIONS

#### OPTIONAL FEATURES

- D = Drain/Test Valve
- G = Grip Joint Connection (3/4" - 2" CTS and 3/4" and 1" PEP)
- Q = Quick Joint
- R = 360° Rotation of Tee Head
- TD = Drain/Test Valve on Top of Fitting
- TW-Q = CTS Quick Joint with Tracer Wire Terminal
- U-AWT = Ultra-Tite (consists of components assembled watertight)
- W = Padlock Wings



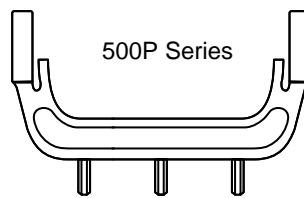
# METER YOKES

## Catalog Section E - Products

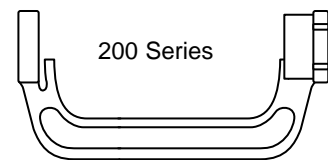
### Iron Yoke Bars



500 Series

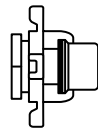


500P Series



200 Series

### Yoke Expansion Connections

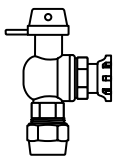


Standard

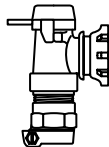


Wrench Type

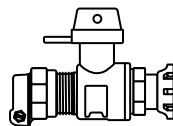
### Inlet Valves for Yokes



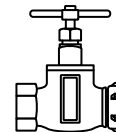
Angle Ball Valve



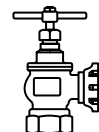
Angle Key Valve



Straight Ball Valve

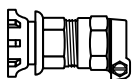


Straight Compression Valve

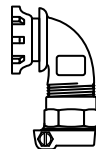


Angle Compression Valve

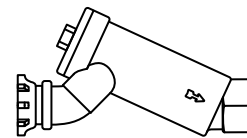
### Outlet Pieces and Check Valves for Yokes



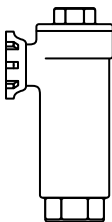
Straight Outlet Piece



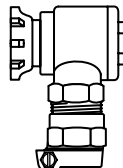
Ell



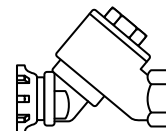
Straight Cartridge Dual Check Valve



Angle Cartridge Dual Check Valve

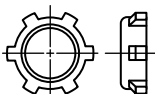


Angle Dual Check Valve



Straight Dual Check Valve

### Lock Nuts, Lock Caps, Wrenches, Gaskets and Special Parts



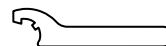
Lock Nuts



Gaskets



Lock Caps



Spanner Wrench



Expansion Connection Wrench

# COPPERSETTERS, LINESETTERS AND RESETTERS

## Catalog Section F - Numbering System

### \* Type of Meter Inlet Valve and Outlet Valve

- V = inlet key valve & no outlet valve
- VV = inlet key valve & outlet key valve
- VVG = inlet key valve & compression outlet valve
- VH = inlet key valve & outlet single check valve
- Δ VHH = inlet key valve & outlet cascading dual check valve
- \*\*VHC = inlet key valve & outlet cartridge dual check valve
- VB = inlet ball valve & no outlet valve
- \*\*\*VBB = inlet ball valve & outlet ball valve
- VBG = inlet ball valve & outlet compression valve
- VBH = inlet ball valve & outlet single check valve
- Δ VBHH = inlet ball valve & outlet cascading dual check valve
- \*\*VBHC = inlet ball valve & outlet cartridge dual check valve
- T = "T" in front of the catalog number indicates a tandem style setter
- \* Coppersettors can be ordered less valves by omitting the above letters from the catalog number.
- \*\* Cartridges with enhanced chlorine/chloramine resistance are available. Add "CR" to end of alpha code.  
Example: VHCCR72-15W-44-33-NL
- \*\*\* The 5/8" port angle ball valve is a one-way directional valve designed for the inlet side of the meter and should not be used as a customer shut-off on the customer side of the meter.

### Meter Size

- 1 = 5/8" meter
- 2 = 5/8"x 3/4" meter
- 3 = 3/4" meter
- 4 = 1" meter
- 6 = 1-1/2" flanged meter
- 7 = 2" flanged meter

### Setter Height (approximate)

- 7 = 7" high setter
- 8 = 8" high setter
- 9 = 9" high setter
- 10 = 10" high setter
- 12 = 12" high setter
- Setters above 12" are made in 3" increments

5/8" thru 1" Coppersettors only

- W = Angle Meter Ball and Key Valves are with Padlock Wing  
Compression valve without Padlock Wing

1-1/2" and 2" Coppersettors only

- B = Bypass
- HB = High Bypass
- BHC = Bypass with dual check
- HBHC = High Bypass with dual check (1-1/2" & 2" only)

### Service Line Connection Size

- |   | Inlet  | Outlet |
|---|--------|--------|
| 1 | 1/2"   |        |
| 3 | 3/4"   |        |
| 4 | 1"     |        |
| 5 | 1-1/4" |        |
| 6 | 1-1/2" |        |
| 7 | 2"     |        |

-NL = No Lead alloy ▲

**V72 - 12W - 44 - 33 - G - NL**

### Type of setter

- 7 = 70 series coppersetter with horizontal inlet and outlet
- 27 = 270 series coppersetter with detachable pack joint assemblies for 5/8", 5/8" x 3/4", 3/4" and 1" meter
- 8 = 80 series coppersetter with vertical inlet and outlet
- 7-8 = 70-80 series coppersetter with vertical inlet and horizontal outlet
- 9 = 90 series coppersetter with horizontal inlet and outlet for 5/8", 5/8" x 3/4", 3/4" and 1" meter
- 4 = 40 series resetter to use when meter connections are available in existing services
- 3 = 30 series flexible resetter to use when meter nuts are available in existing services for 5/8", 5/8"x3/4", 3/4" and 1" meter

### Inlet Outlet

### Service Line Connection Type

- 1 = Double Purpose Union Swivel (FIP for 1-1/2" & 2" Coppersettors)
- 2 = Flare Copper
- 4 = Pack Joint for CTS
- 6 = Pack Joint for PE Pipe
- 7 = Pack Joint for PVC Pipe (Schedule 40 & 80)
- 8 = Male Iron Pipe Union Swivel
- F = Integral Female Iron Pipe (female iron pipe union swivel may be used when integral FIP is not available.)
- M = Integral Male Iron Pipe Thread

### Options

- G = Grip nut compression fitting instead of pack joint nut. Available with CTS (3/4" - 2") and PE Pipe (3/4" & 1")
- Q = Quick Joint
- TP6 = 1-1/2" Integral Test Port on Dual Check Valve for 1-1/2" and 2" Coppersettors with a shut-off valve below the Dual Check Valve
- TW-Q = CTS Quick Joint with Tracer Wire Terminal Ultra-Tite available with 3/4" and 1" CTS and PE Pipe (contact factory for pricing)
- U = Ultra-Tite available with 3/4" and 1" CTS and PE pipe where listed

### 90 Series Options

- A = 15" Outlet Extension
- B = 18" Outlet Extension
- C = Bolted Clamp
- E = Brace Eye
- F = 15" Outlet Extension and Bolted Clamp
- H = 15" Outlet Extension and Brace Eye
- J = 18" Outlet Extension and Bolted Clamp
- K = 18" Outlet Extension and Brace Eye

Δ Angle cascading dual check valve contains 3/4" internal components. This valve meets the ASSE flow requirements of a 1" valve. For a full port valve order the cartridge style check valve.

**Note:** A complete list of inlet and outlet options on following page.

**Note:** 5/8" x 3/4", 3/4" and 1" setters with angle ball valve will have a reduced port that usually provides suitable water flow. A full port ball valve is available at an additional cost; add "-FP" to end of catalog number and contact the factory for pricing.

▲ Ford Meter Box no-lead brass products manufactured from UNS/CDA No. 89833 alloy shall contain no more than 0.25% total lead content by weight. United States federal and state laws allow the use of products manufactured from UNS C83600 85-5-5-5 brass alloy for only non-potable water systems within the United States. The same UNS C83600 85-5-5-5 brass alloy, also referenced as gunmetal or LG2, is specified and used in potable water systems in most other countries.

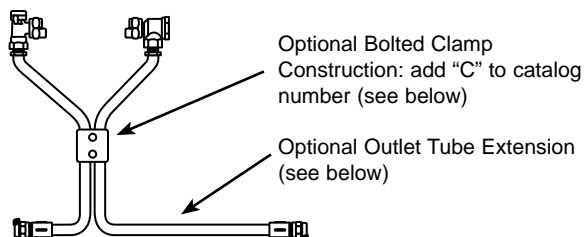
**Remove "-NL" from catalog number to have products manufactured from UNS C83600 85-5-5-5 brass alloy.**

**Parties responsible for monitoring and maintaining proper water system design must exercise full responsibility in understanding and upholding the full intent and scope of applicable lead laws.**

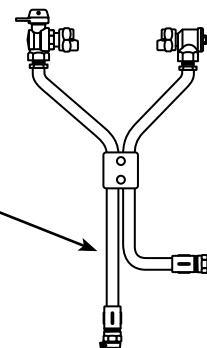
**Note:** Many products in this section are non-stock, non-returnable and subject to cancellation charges.

# COPPERSETTERS, LINESETTERS AND RESETTERS

## Catalog Section F - Products



Optional Vertical Inlet  
Construction: add "Z" to catalog number (see below)



OPTION	EXTENSION TO CATALOG NUMBER
<b>OPTIONS FOR 5/8", 5/8" x 3/4", 3/4" AND 1" 90 SERIES COPPERSETTERS</b>	
Brace Eye	Add "E" to Cat. No.
Bolted Clamp Construction	Add "C" to Cat. No.
15" Outlet Tube Extension	Add "A" to Cat. No.
15" Outlet Tube Extension and Brace Eye	Add "H" to Cat. No.
15" Outlet Tube Extension and Bolted Clamp	Add "F" to Cat. No.
18" Outlet Tube Extension	Add "B" to Cat. No.
18" Outlet Tube Extension and Brace Eye	Add "K" to Cat. No.
18" Outlet Tube Extension and Bolted Clamp	Add "J" to Cat. No.

**NOTE:** To order the above options with the Coppersetter; add the catalog number extension letter to the 90 Series Coppersetter number.

**Example:** V92-24W-11-33A-NL is a 5/8"x3/4" 90 Series Coppersetter with 3/4" double purpose union swivel service line connections and an optional 15" outlet tube extension.

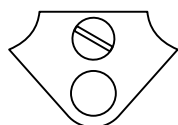
## INLET TUBE OPTIONS FOR 90 SERIES COPPERSETTERS

OPTION	COPPERSETTER SIZE	INLET TUBE OPTION CODE
<b>INLET TUBE OPTIONS FOR 5/8" AND 5/8" x 3/4" 90 SERIES COPPERSETTERS</b>		
15" Inlet Tube Extension	5/8" & 5/8" x 3/4"	Add "P" to Cat. No.
18" Inlet Tube Extension	5/8" & 5/8" x 3/4"	Add "S" to Cat. No.
Vertical Inlet	5/8" & 5/8" x 3/4"	Add "Z" to Cat. No.
<b>INLET TUBE OPTIONS FOR 3/4" 90 SERIES COPPERSETTERS</b>		
15" Inlet Tube Extension	3/4"	Add "P" to Cat. No.
18" Inlet Tube Extension	3/4"	Add "S" to Cat. No.
Vertical Inlet	3/4"	Add "Z" to Cat. No.
<b>INLET TUBE OPTIONS FOR 1" 90 SERIES COPPERSETTERS</b>		
15" Inlet Tube Extension	1"	Add "P" to Cat. No.
18" Inlet Tube Extension	1"	Add "S" to Cat. No.
Vertical Inlet	1"	Add "Z" to Cat. No.

**NOTE:** To order above inlet tube options, place catalog inlet tube option code directly left of any other option extension from the top table of options.

**Example:** V92-24W-11-33ZA-NL has a vertical inlet and a 15" extended outlet.

## BRACE EYE (NOT FACTORY ASSEMBLED) FOR 90 SERIES COPPERSETTERS



Brace Eye

OPTION	Catalog Number
Brace Eye on 5/8" & 5/8" x 3/4" sizes	BRE-92
Brace Eye on 3/4" size	BRE-93
Brace Eye on 1" size	BRE-94

**NOTE:** The brace eye options listed as BRE-92, BRE-93 and BRE-94 above are NOT factory assembled on the Coppersetter and are for field installation.

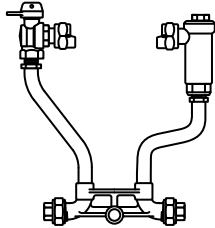
# COPPERSETTERS, LINESETTERS AND RESETTERS

## Catalog Section F - Products

### Coppersettors

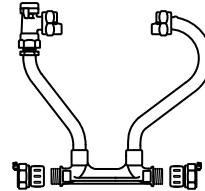
#### 70 Series Coppersettors

For 5/8", 5/8"x3/4", 3/4" & 1" meters



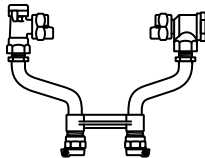
#### 270 Series Coppersettors

With removable Pack Joint assemblies  
for 5/8", 5/8"x3/4", 3/4" & 1" meters



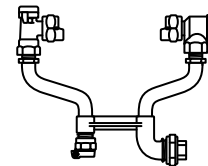
#### 80 Series Coppersettors

With vertical inlet and outlet  
for 5/8", 5/8"x3/4", 3/4" & 1" meters



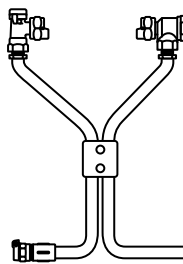
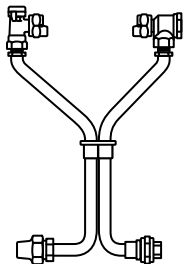
#### 70-80 Series Coppersettors

With vertical inlet and horizontal outlet  
for 5/8", 5/8"x3/4", 3/4" & 1" meters



#### 90 Series Coppersettors

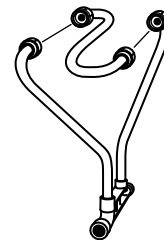
For 5/8", 5/8"x3/4", 3/4" & 1" meters



Optional outlet tube  
extension and bolted  
clamp construction  
available.

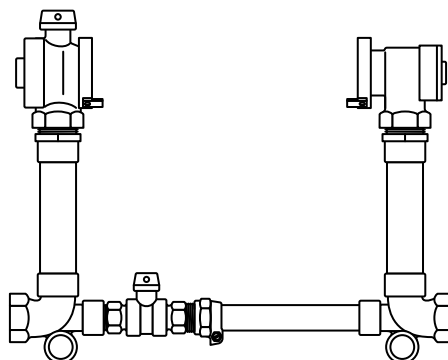
#### Tandem Coppersettors & Resetters

For 5/8", 5/8"x3/4", 3/4" & 1" meters



#### 1-1/2" and 2" Coppersettors

For 1-1/2" and 2" flanged meters



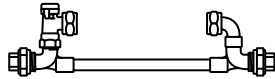
Shown with standard by-pass.  
Optional high by-pass is available.

# COPPERSETTERS, LINESETTERS AND RESETTERS

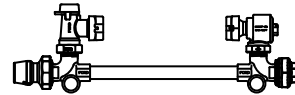
## CATALOG SECTION F - Products

### Linesetters

For 5/8", 5/8"x3/4" and 3/4" meters



For 1" meters

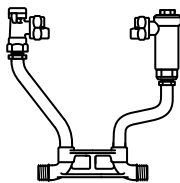


Brace eyes are standard on all linesetters for 1" meters.

### Resetters - For Resetting Meter in an Existing Service

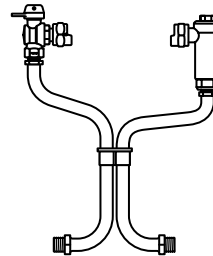
#### 40 Series Resetter

For 5/8", 5/8"x3/4", 3/4" and 1" meters



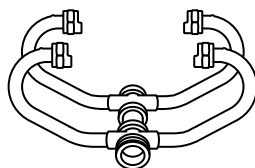
#### 30 Series "Flexible" Resetter

For 5/8", 5/8"x3/4", 3/4" and 1" meters



#### Tandem Resetter

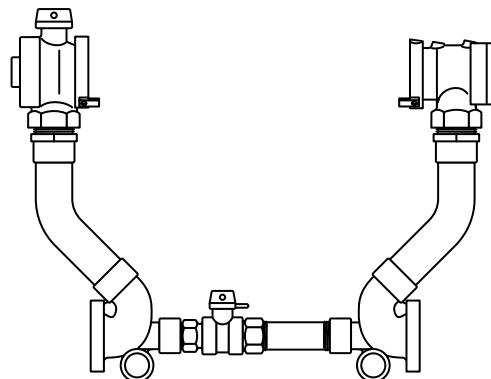
For 5/8", 5/8"x3/4", 3/4" and 1" meters



B Style Tandem Resetter

#### 1-1/2" & 2" Resetter

For flanged meters



Shown with standard by-pass.



# PLASTIC PIT SETTERS

## Catalog Section FA - Numbering System

### TYPE OF PLASTIC SETTER

- PS** = Standard for Single Lid Cover  
**PD** = Standard for Double Lid Cover  
**\*PTS** = Tandem for Single Lid Cover  
**\*PTD** = Tandem for Double Lid Cover  
**\*PDS** = Dual Service for Single Lid Cover  
**\*PDD** = Dual Service for Double Lid Cover  
**PM** = Pit Setter for Monitor Cover

(1-1/2" and 2" meter settings only)

\* 20" pit recommended for 5/8"-3/4" meters  
 Not recommended for 1" meters

### INLET VALVE TYPE

- \*\*B** = Angle Ball Valve  
**V** = Angle Key Valve  
**‡G** = Angle Compression Valve

### METER SIZE

(INLET - OUTLET SIZE)

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

(The number in parentheses is the standard inlet-outlet size for a given meter size.)

### PIT DIAMETER & DEPTH

- ★ **18-36** = 18" x 36"  
 ★ **18-48** = 18" x 48"  
 ★ **18-60** = 18" x 60"  
 ★ **18-72** = 18" x 72"  
**20-36** = 20" x 36"  
**20-48** = 20" x 48"  
**20-60** = 20" x 60"  
**20-72** = 20" x 72"  
 ❖ **36HB-36** = 36" x 36"  
 ❖ **36HB-42** = 36" x 42"  
 ❖ **36HB-48** = 36" x 48"  
 ❖ **36HB-54** = 36" x 54"  
 ❖ **36HB-60** = 36" x 60"  
 ❖ **36HB-66** = 36" x 66"  
 ❖ **36HB-72** = 36" x 72"  
 ❖ **36HB-78** = 36" x 78"

★ Not available for 3/4" or 1" meters

❖ Available only for 1-1/2" and 2" meters.

**PSBH-222-18-72-G-NL**

NL = No Lead

### OUTLET VALVE TYPE

- \*\*B** = Angle Ball Valve  
**V** = Angle Key Valve  
**‡G** = Angle Compression Valve  
**H** = Angle Check Valve  
**ΔHH** = Angle Cascading Dual Check Valve  
**\*\*\*‡HC** = Angle Cartridge Dual Check Valve

‡ Not available with 1-1/2" and 2" Pit Setters.

Δ Angle Cascading Dual Check Valve contains 3/4" internal components. This valve meets the ASSE flow requirements of a 1" valve. For a full port valve order the cartridge style check valve.

\*\* The 5/8" port angle ball valve is a one-way directional valve designed for the inlet of the meter and should not be used as a customer shut-off on the customer side of the meter. 5/8"x3/4", 3/4" & 1" setters with angle ball valves will be reduced port, unless otherwise specified. Reduced port valves usually provide suitable water flow. Add "-FP" to the end of catalog number for full port.

\*\*\* Cartridges with enhanced chlorine/chloramine resistance are available. Add "CR" to the end of the alpha code. Example: PSBHCCR-344-20-36-NL. Cartridge style dual checks not available with 1-1/2" and 2" pit setters.

### TYPES OF INLET- OUTLET (one end – other end)

- ‡2 = Flare Copper Tube Nut  
 ‡4 = Pack Joint for Plastic or Copper Tube (CTS)  
**8** = Male Iron Pipe Threads

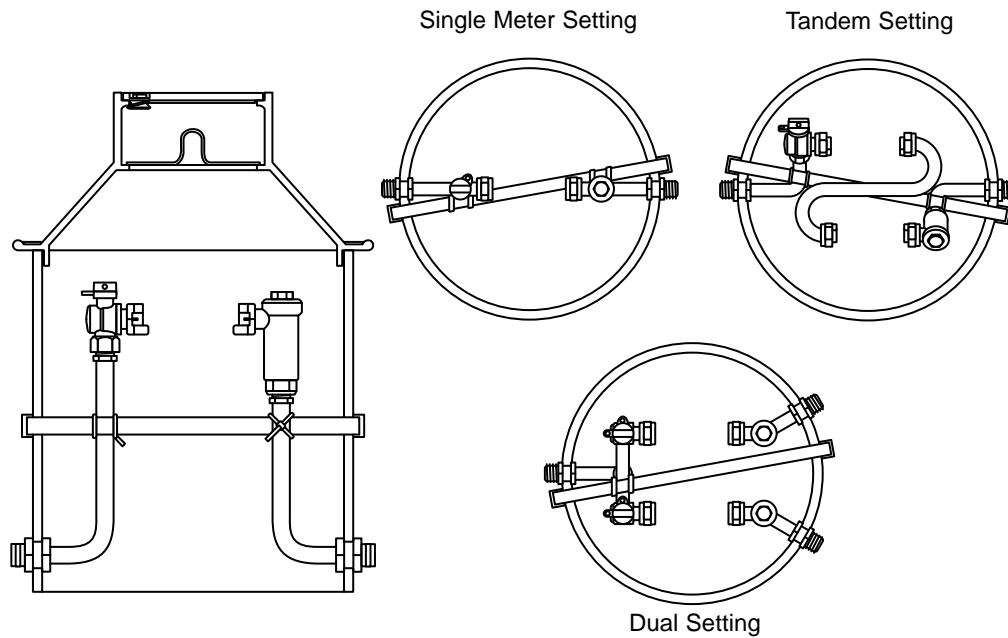
### OPTIONS

**-G** = Grip Joint Connection

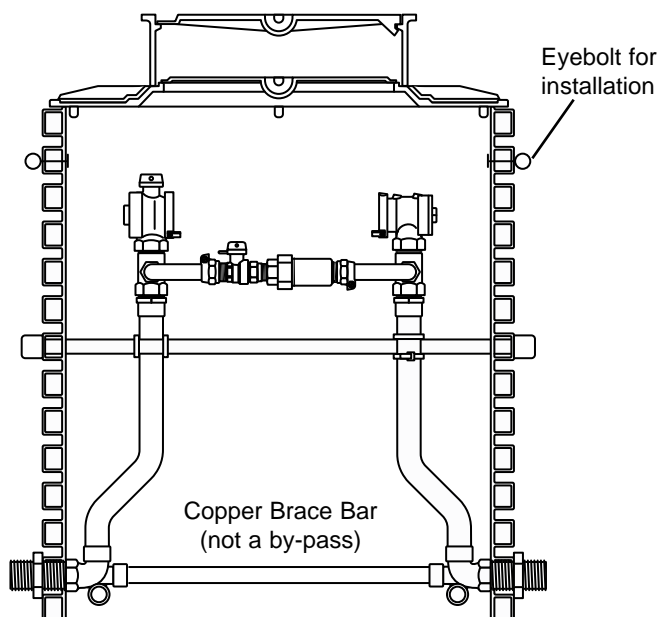
# PLASTIC PIT SETTERS

## Catalog Section FA - Products

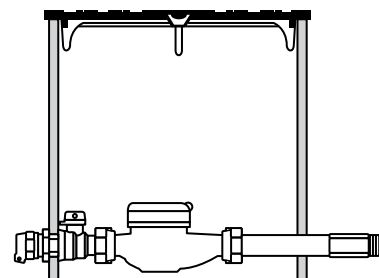
### Pit Setter for 5/8", 5/8"x3/4", 3/4" & 1" Meter



### Pit Setter for 1-1/2" and 2" Meters

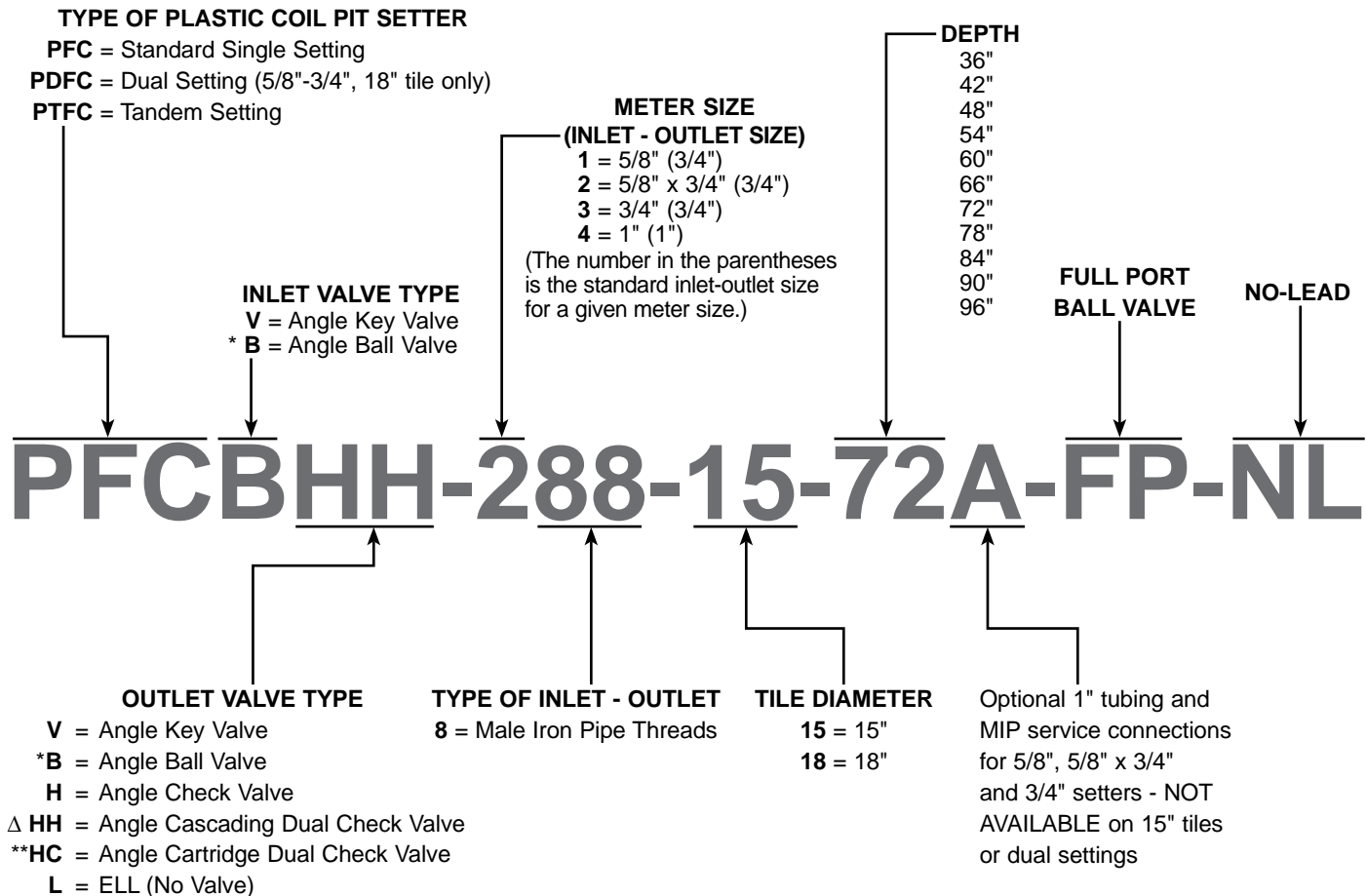


### 15" Diameter Style "K" Pitsetter For 5/8"x3/4" Meters (for moderate climates)



# COIL PIT SETTERS

## Catalog Section FA - Numbering System



\* Angle Ball Valve is a one-way directional valve designed for the inlet side of the meter and should not be used as a customer shut-off on the customer side of the meter. Setters with angle ball valves will be reduced port, unless otherwise specified. Reduced port valves usually provide suitable water flow for normal household usage. Add "-FP" to end of catalog number for full port.

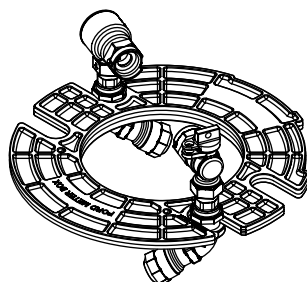
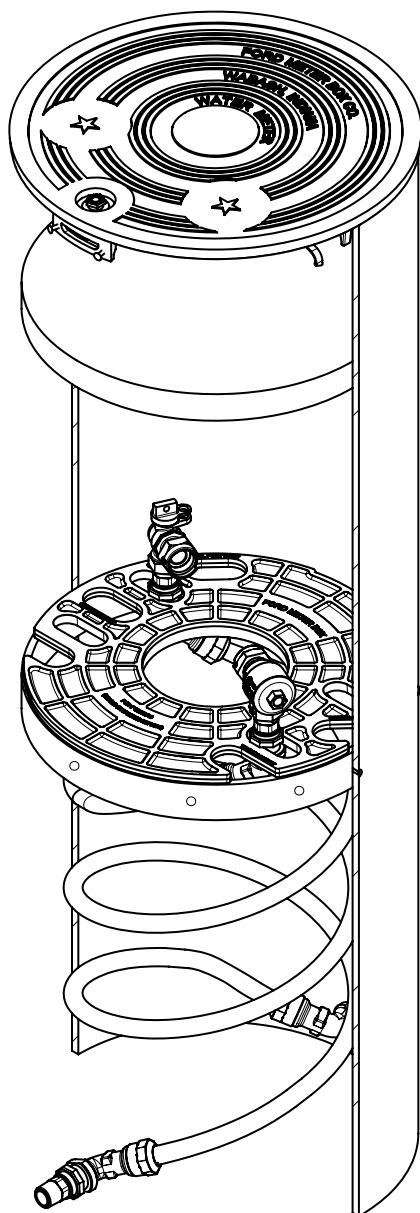
\*\* 3/4" and 1" cartridges with enhanced chlorine/chloramine resistance are available. Insert "CR" at end of the alpha code. Example: PFCBHCCR-388-16-60-NL

Δ 1" Angle Cascading Dual Check Valve contains 3/4" internal components. This valve meets the ASSE flow requirements of a 1" valve. For a full port valve order the cartridge style check valve.

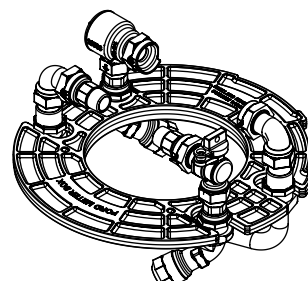
If PRV lengths are outside of range or have connections other than FNPT, contact factory for price and availability.

# COIL PIT SETTERS

## Catalog Section FA - Products



**15" Single (5/8" x 3/4") Setting  
Ball Valve by Dual Check Valve**



**15" Tandem Setting (5/8" x 3/4")  
Ball Valve by Dual Check Valve**

### STANDARD COIL PITSETTER PRV LENGTH RANGE

TILE SIZE AND METER SETTINGS	MIN	MAX
<b>5/8" METER SETTING</b>		
15" Tile	4-1/4"	5-1/4"
15" Tile with full port ball valve	3-1/2"	4-1/2"
<b>5/8" x 3/4" METER SETTING</b>		
15" Tile	4"	4-3/4"
15" Tile with full port ball valve	3-3/8"	4-1/8"
18" Tile	4-1/2"	5-3/4"
18" Tile with full port ball valve	3-7/8"	4-7/8"
<b>3/4" METER SETTING</b>		
18" Tile	4-5/8"	6-5/8"
18" Tile with full port ball valve	4-1/8"	6-1/8"
<b>1" METER SETTING</b>		
18" Tile	4-1/4"	4-1/4"
18" Tile with full port ball valve	3-1/2"	3-3/4"

PRV lengths with connections other than FNPT or lengths outside of the range, please contact factory for price and availability

# VALVES AND BRANCH VALVE ASSEMBLIES

## Catalog Section G - Numbering System

### TYPE OF VALVE

- AV = Angle Key Yoke Valve or Service Valve
- B = Ball Valve
- BA = Angle Ball Valve
- BF = Flanged Ball Valve
- BFA = Flanged Angle Ball Valve
- BL = Ball Valve (long)
- BH = 5/8" Ball Valve with a Heavy Tee-Head
- BRW = Reclaimed Water Tee-Head
- FV = Flanged Angle Key Valve
- KV = Angle Key Meter Valve
- SG = Straight Compression Valve
- SV = Straight Key Valve
- UV = Branch Key Valve Assembly
- UAV = Angle Branch Key Valve Assembly
- UVB = Branch Ball Valve Assembly
- UAVB = Angle Branch Ball Valve Assembly
- UVZS = Branch Key Curb Stop Assembly
- Z = Curb Stop (standard)
- ZL = Curb Stop (long)
- ZS = Curb Stop (short)
- ZX = 1/2" Curb Stop (plug style)

### SIZE OF INLETS - OUTLETS

(one end - other end)

- 1 = 1/2" (or 5/8" meter nut)
- 2 = 5/8" (or 5/8"x3/4" and 3/4" meter nut)
- 3 = 3/4"
- 4 = 1"
- 5 = 1-1/4"
- 6 = 1-1/2"
- 7 = 2"
- 8 = 2-1/2"

### METER NUTS

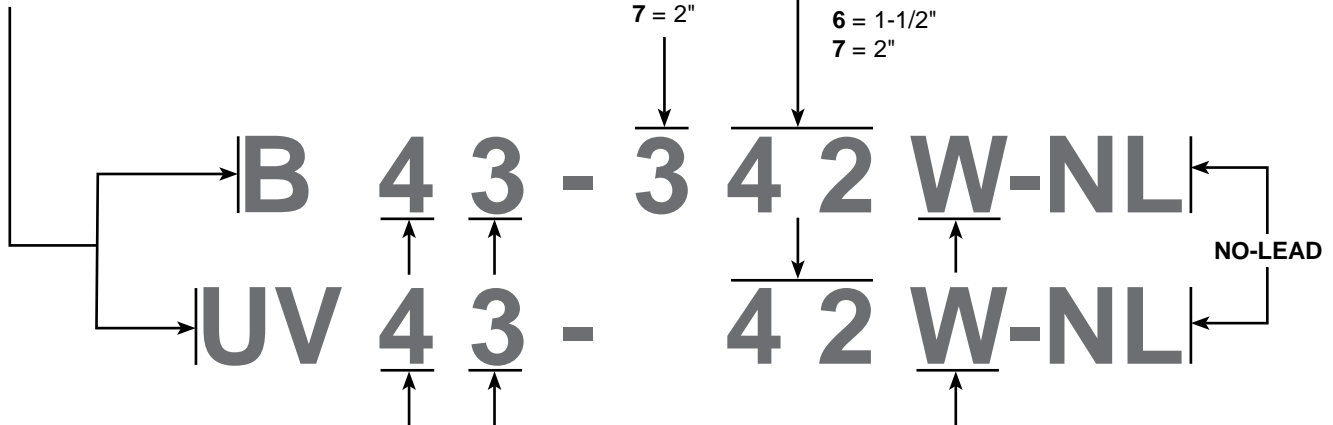
- 1 = 5/8"
- 2 = 5/8"x3/4" & 3/4"
- 4 = 1"

### METER FLANGES

- 6 = 1-1/2"
- 7 = 2"

### VALVE SIZE

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



### TYPE OF INLETS - OUTLETS

(One End - Other End)

- 1 = Female Iron Pipe Threads
- 2 = Flare Copper Tube Nut
- 3 = Meter Nut or Flange
- 4 = Pack Joint for Plastic or Copper Tube (CTS)
- 5 = Pack Joint for Iron Pipe
- 6 = Pack Joint for PE Pipe
- 7 = Pack Joint for PVC Pipe (Schedule 40 & 80)
- 8 = Male Iron Pipe Threads
- 9 = Yoke Nose
- 0 = Female Copper Tube Nut Thread or 'Special'

### OPTIONAL FEATURES

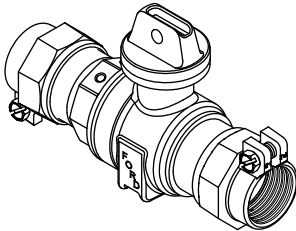
- D = Test/Drain Valve
- G = Grip Joint (for 3/4" - 2" CTS and 3/4" and 1" PEP)
- IDR7 = Inner Dimension Ratio for 1-1/2" and 2" PE Pipe
- M = Minneapolis Pattern
- NE = New England Threads
- OR = Open Right
- Q = Quick Joint
- R = (360° tee-head rotation)
- SW = Stop & Waste
- TW-Q = CTS Quick Joint with Tracer Wire Terminal
- U-AWT = Ultra-Tite (component assembled watertight)
- W = Padlock Wing

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

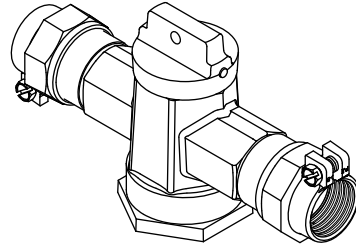
# VALVES AND BRANCH VALVE ASSEMBLIES

## Catalog Section G - Products

### Curb Stops

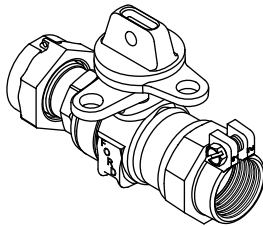


Ball Valve Curb Stops

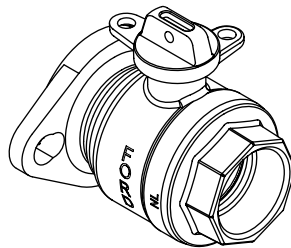


Inverted Key Curb Stops

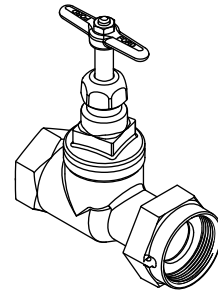
### Straight Meter Valves



Ball Valves

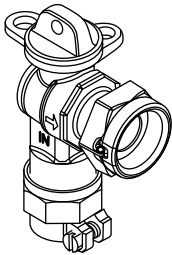


1-1/2" and 2" Flanged  
Ball Valves

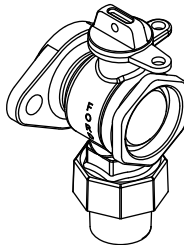


Compression Valves

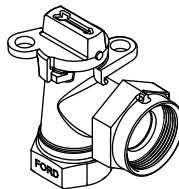
### Angle Meter Valves



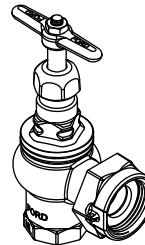
Ball Valves



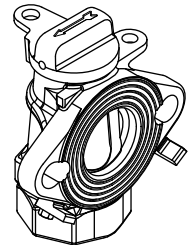
1-1/2" & 2" Flanged  
Ball Valves



Key Valves



Compression Valves

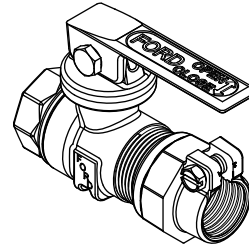
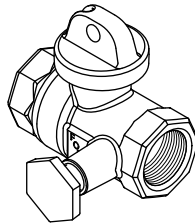
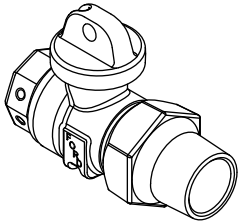


1-1/2" and 2" Flanged  
Key Valves

# VALVES AND BRANCH VALVE ASSEMBLIES

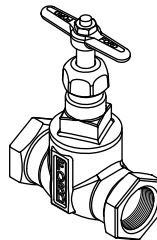
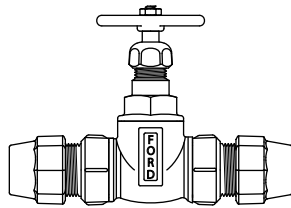
## Catalog Section G - Products

### 5/8" Straight Ball Service Valves

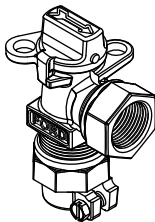


(some valves available  
with drain/test valve on  
outlet side of valves)

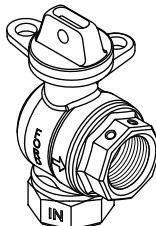
### 3/4" Straight Compression Globe Service Valves



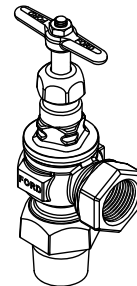
### Angle Service Valves



Inverted Key Valves



Ball Valves



Compression Valves

#### FORD METER BOX OFFERS A VARIETY OF VALVE OPTIONS.

1. Padlock wings are available to allow locking valves in the closed position.
2. Curb Stops are available with a Minneapolis Pattern for threaded Curb Boxes.
3. Many ball valves are available with 360° tee-head rotation option.
4. Selected Ford valves are available with special "New England" iron pipe threads under flare nut.
5. Valves can be manufactured so the valve opens by turning the handle to the right or clockwise.
6. Valve handles are available for a variety of valves.
7. Lock caps for ball and key valves are available.
8. A gate valve operating nut is available.

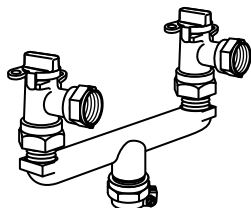


# VALVES AND BRANCH VALVE ASSEMBLIES

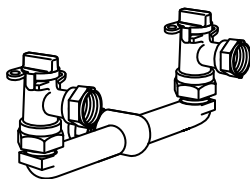
## Catalog Section G - Products

### Branch Assemblies and Angle Branch Assemblies

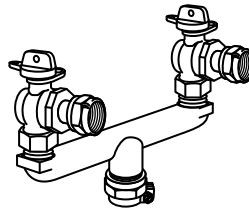
6-1/2" and 7-1/2" spacing between centers of valves



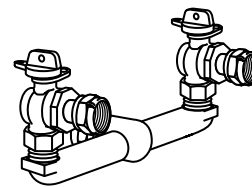
Branch Assembly  
with Angle Key Valves



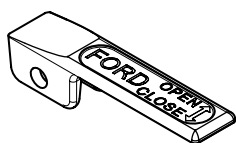
Angle Branch Assembly  
with Angle Key Valves



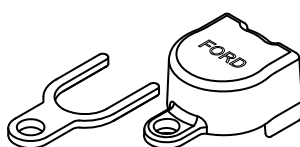
Branch Assembly  
with Angle Ball Valves



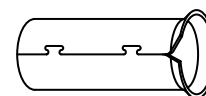
Angle Branch Assembly  
with Angle Ball Valves



Handles for Ball Valves  
and Inverted Key Valves

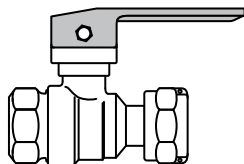


Ball Valve Lock Caps

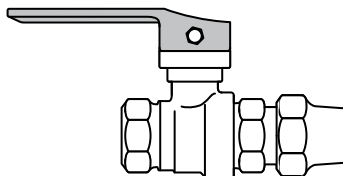


Insert Stiffeners

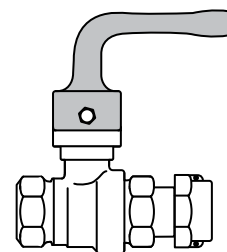
### Valve Handles



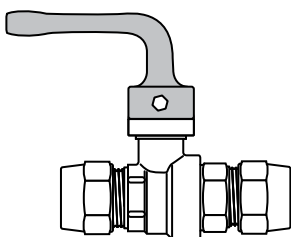
**HB-2** for 5/8" Ball Valves  
Straight and Angle



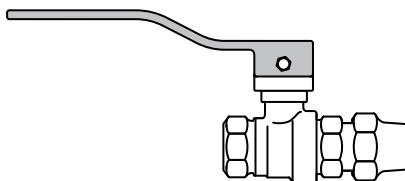
**HB-34** (4-3/8") and **HB-34S** (3-3/8")  
for 3/4" and 1" Ball Valves  
Straight and Angle



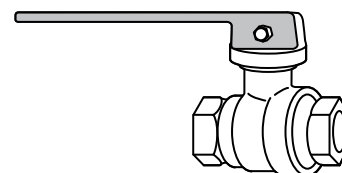
**HH-34** for 3/4" and 1" Ball Valves  
Straight and Angle



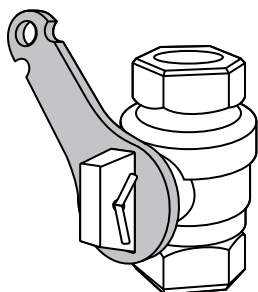
**HS-4** for 1-1/4", 1-1/2" and 2"  
Straight and Angle Ball Valves



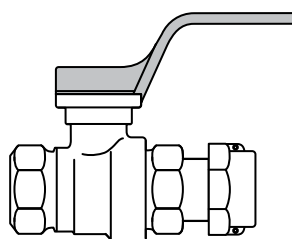
**HH-67** for 1-1/4", 1-1/2" and 2"  
Straight and Angle Ball Valves



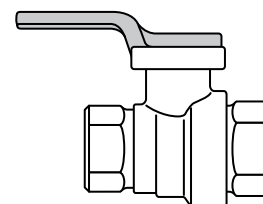
**HB-67** (9-1/2" long) and **HB-67S** (4-7/8"  
long) 1-1/4", 1-1/2" and 2" Ball Valves



**HP-4** for use on Ball Valves  
for Pitometer service



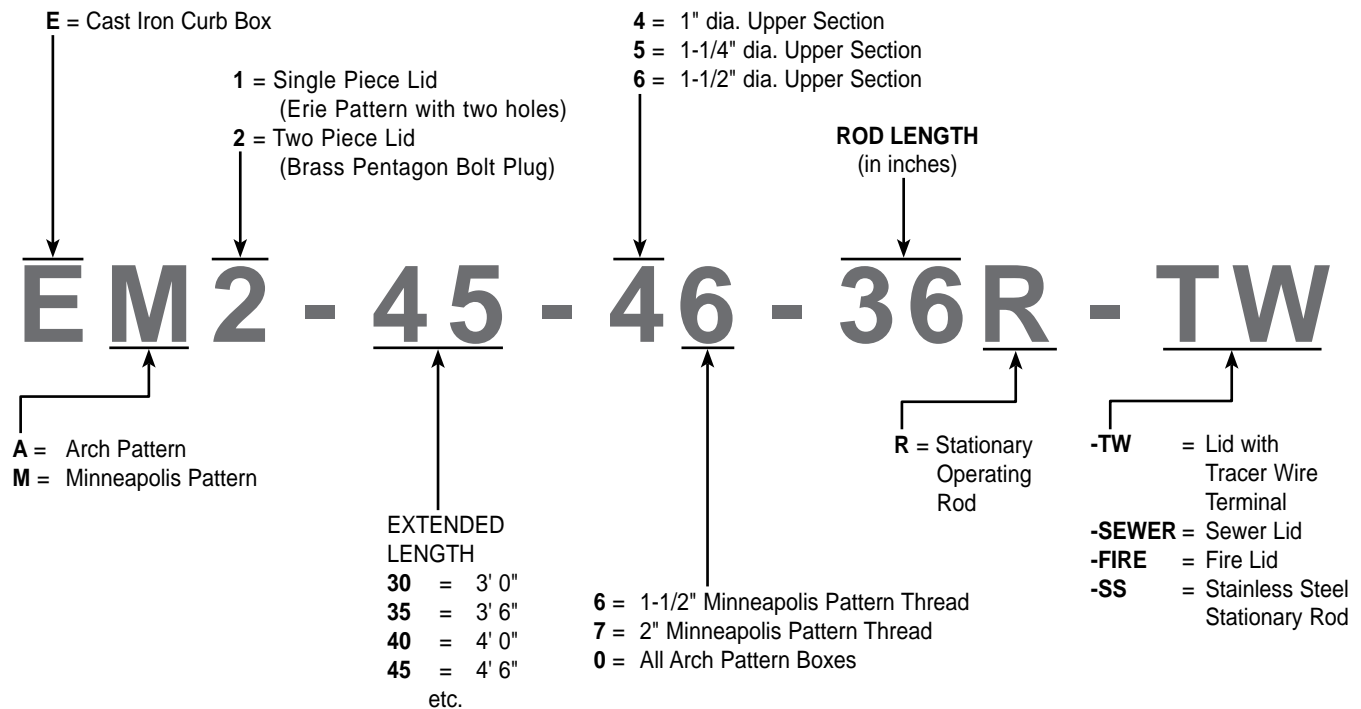
**HT-34** for 3/4" and 1" Angle  
Ball Valves and 3/4" and 1"  
Straight Ball Valves.  
(Factory assembled only)



**HT-67S** for 1-1/2" and 2"  
Straight Ball Valves  
(Factory assembled only)

# CURB BOXES

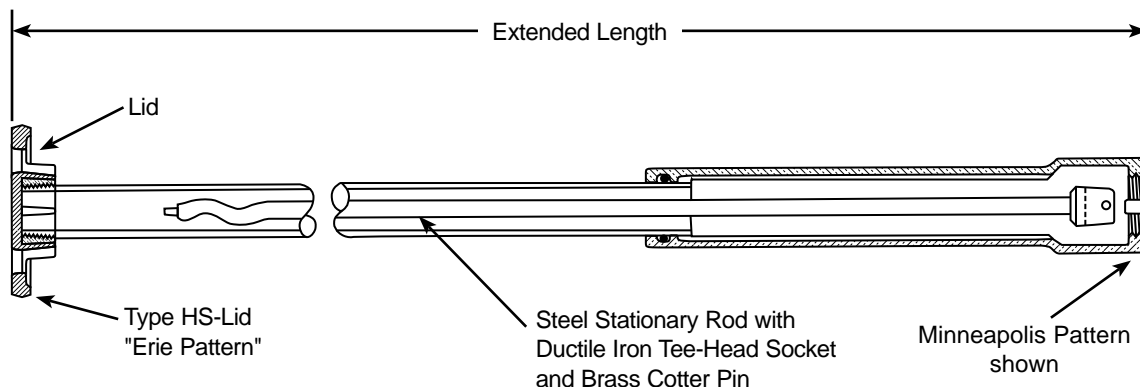
## Catalog Section GA - Numbering System



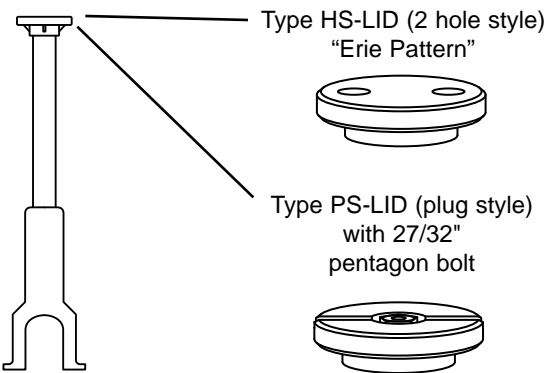
100 = 10'.0" (maximum length available)

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

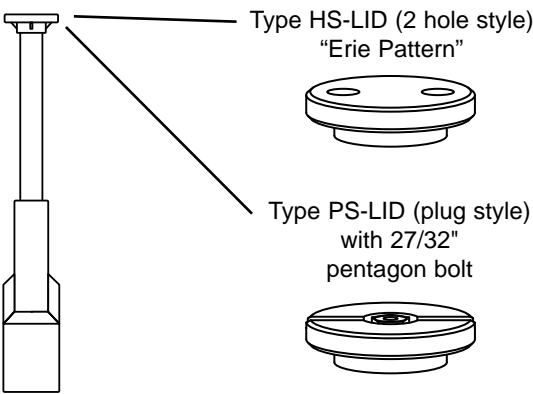
EM1-xx-46-xxR example below:



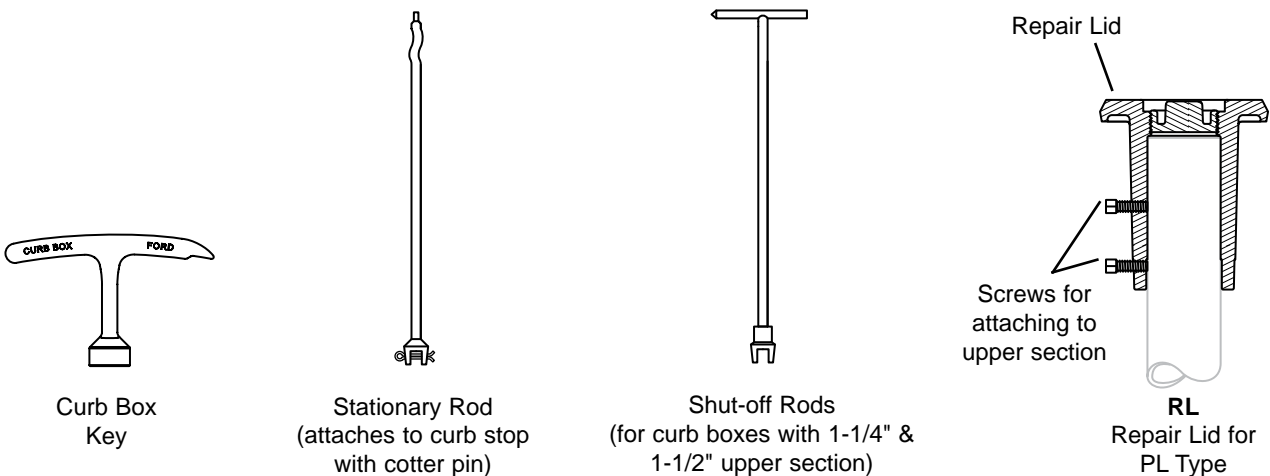
**Arch Pattern Curb Boxes**



**Minneapolis Pattern Curb Boxes**

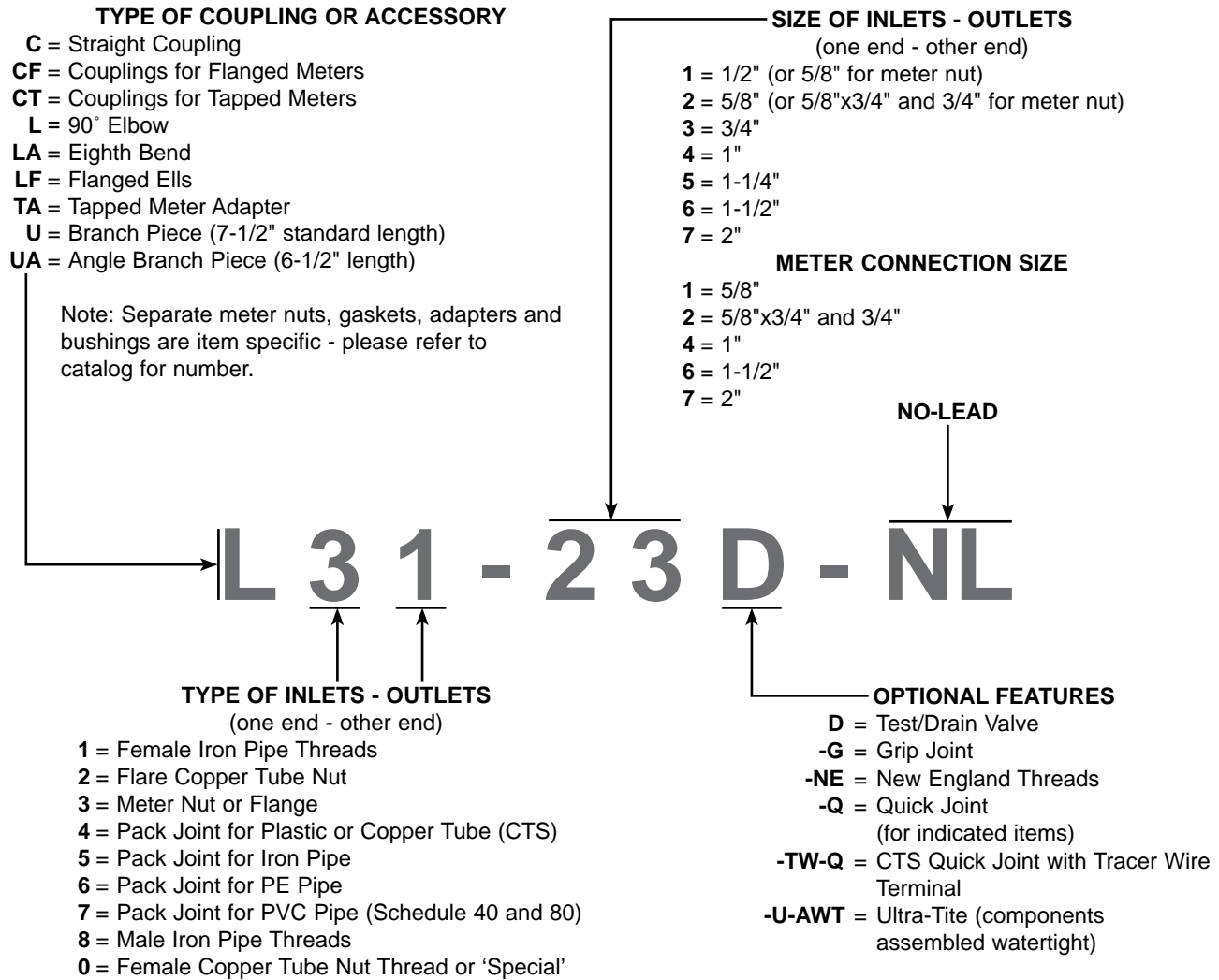


**Stationary Rods, Shut-Off Rods and Parts for Curb Boxes**



# METER COUPLINGS AND ACCESSORIES

## Catalog Section H - Numbering System



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

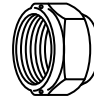
# METER COUPLINGS AND ACCESSORIES

Catalog Section H - Products

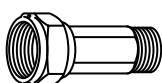
## Meter Gaskets



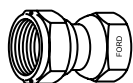
## Meter Coupling Nuts



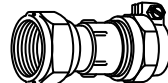
## Straight Meter Couplings



MIP

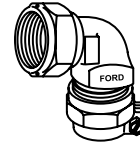


FIP

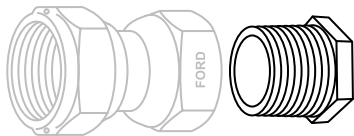


COMPRESSION

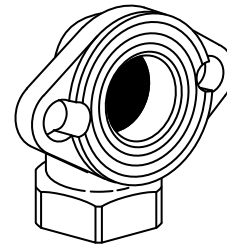
## Angle Meter Couplings



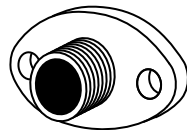
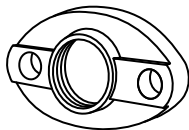
## Dielectric Bushings (for insulating service lines)



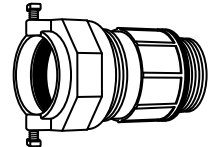
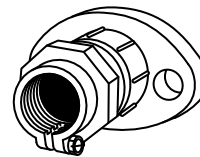
## Flange Ells for 1-1/2" and 2" Meters



## Bronze Meter Flanges



## Lok-Pak Meter Couplings For 1-1/2" and 2" Meters



## Meter Adapters



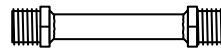
Adapt from 1" to 2" meter  
with A47-NL adapter



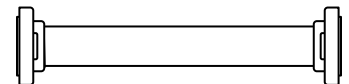
Adapt from 1" to 5/8" meter  
with A14-NL adapter

A VARIETY OF OTHER ADAPTERS ARE AVAILABLE

## Meter Idlers

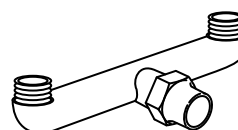
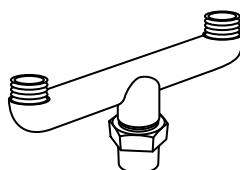


For 5/8" thru 1" meters



For 1-1/2" thru 2" meters

## "U" Branch Pieces



# CHECK VALVES, RETROSETTERS AND CUT-IN CHECK VALVES

## Catalog Section I - Numbering System

### TYPES OF \*CHECK VALVES

- HA** = Angle Check Valve
- HHA** = Angle Cascading Dual Check Valve
- HHCA** = Angle Cartridge Style Dual Check Valve
- HHCACR** = Angle Cartridge Style Dual Check Valve (enhanced chlorine/chloramine resistance)
- HS** = Straight Check Valve
- HHS** = Straight Cascading Dual Check Valve
- HHC** = Straight Cartridge Style Dual Check Valve (not in-line accessible)
- HHCCR** = Straight Cartridge Style Dual Check Valve (enhanced chlorine/chloramine resistance)
- HHCH** = Straight Cartridge Style Dual Check Valve
- HHCHCR** = Straight Cartridge Style Dual Valve (enhanced chlorine/chloramine resistance)
- HFA** = Flanged Angle Check Valve
- HHFA** = Flanged Angle Dual Check Valve
- HFS** = Flanged Straight Check Valve

\*Note: All Ford Check Valves are accessible for in-line maintenance unless otherwise indicated.

### SIZE OF INLETS - OUTLETS (one end - other end)

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

### METER CONNECTION SIZE

- 1 = 5/8"
- 2 = 5/8"x3/4" & 3/4"
- 4 = 1"
- 6 = 1-1/2"
- 7 = 2"

**H H C A 3 4 - 3 2 3 - G - NL**

### TYPE OF INLETS - OUTLETS (one end - other end)

- 1 = Female Iron Pipe Threads
- 2 = Flare Copper Tube Nut
- 3 = Meter Nut or Flange
- 4 = Pack Joint for Plastic or Copper Tube (CTS)
- 5 = Pack Joint for Iron Pipe
- 6 = Pack Joint for PE Pipe
- 7 = Pack Joint for PVC Pipe (Schedule 40 & 80)
- 8 = Male Iron Pipe Threads
- 9 = Yoke Nose

### VALVE SIZE

- 3 = 3/4"
- 4 = 1"
- 6 = 1-1/2"
- 7 = 2"

### OPTIONAL FEATURES

- D** = Test/Drain Valve
- G** = Grip Joint
- TV** = Test/Drain Valve On Top Of Cartridge Dual Check Valve Access Cap
- Q** = Quick Joint
- TW-Q** = CTS Quick Joint with Tracer Wire Terminal
- U-AWT** = Ultra-Tite (components assembled watertight)

**NO-LEAD**

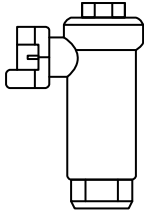
Note: See item listings in catalog section to ensure desired sizes and options are available

# CHECK VALVES, RETROSETTERS AND CUT-IN CHECK VALVES

## Catalog Section I - Products

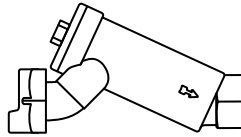
### Angle Cartridge Style Dual Check Valves

HHCA Style (in-line accessible)



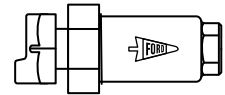
### Straight Cartridge Style Dual Check Valves

HHCH Style (in-line accessible)



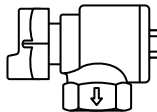
### Straight Cartridge Style Dual Check Valves

HHC Style (not in-line accessible)



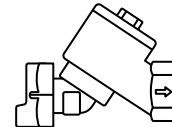
### Angle Cascading Dual Check Valves

HHA Style (in-line accessible)



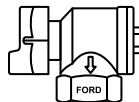
### Straight Cascading Dual Check Valves

HHS Style (in-line accessible)



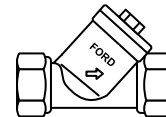
### Angle Check Valves

HA Style (in-line accessible)



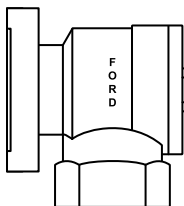
### Straight Check Valves

HS Style (in-line accessible)

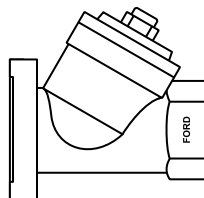


### Single Check Valves with Flanged Inlet for 1-1/2" and 2" Meters

(in-line accessible)



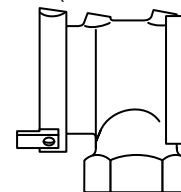
Angle  
Check  
Valves



Straight  
Check  
Valves

### Dual Check Valves with Flanged Inlet for 1-1/2" and 2" Meters

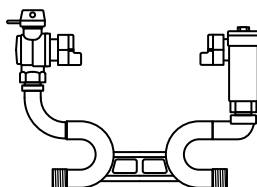
(in-line accessible)



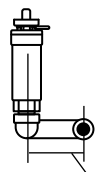
Angle  
Check  
Valves

### Retrosetters

FOR RETRO-FITTING CHECK VALVES INTO AN EXISTING METER SERVICE

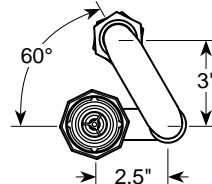


Style "B"



Style "C"

Offset

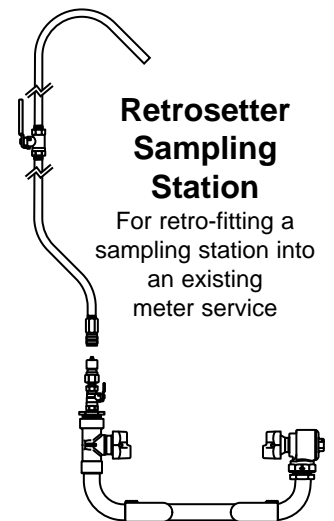


RETRO-Z Style "E"

Fits inside Ford Yokebox or  
equal if ordered without inlet  
and outlet valves

### Retrosetter Sampling Station

For retro-fitting a  
sampling station into  
an existing  
meter service



### Check Valves for Kornerhorn and Special Applications

**Check Valve Repair Kits** - Internal working parts and gaskets

**Cut-In Check Valve Assemblies for Ford Coppersetters and Resetters**

(With "HA" & "HHA" style check valves)



# COUPLINGS FOR PIPE AND TUBING

## Catalog Section J - Numbering System

### TYPES OF INLETS - OUTLETS (one end – other end)

- 1 = Female Iron Pipe Thread
- 2 = Flare Copper Tube Nut
- 4 = Pack Joint for Plastic or Copper Tube
- 5 = Pack Joint for Iron Pipe
- 6 = Pack Joint for PE Pipe
- 7 = Pack Joint for PVC Pipe
- 8 = Male Iron Pipe Thread
- 0 = Female Copper Tube Nut Thread or "Special"

G = Grip Joint (3/4" - 2" CTS and 3/4" & 1" PEP)  
Q = Quick Joint (for indicated items)

IDR7 = Pack Joint for 1-1/2" and 2" PEP (requires dimension ratio designation)

IDR9 = Pack Joint for 1-1/2" and 2" PEP (requires dimension ratio designation)

TW-Q = CTS Quick Joint with tracer wire terminal

U-AWT = Ultra-Tite Coupling (consists of components assembled watertight)

U = Ultra-Tite Coupling

NO-LEAD

### Ford Coupling Numbering System

**C** = Coupling  
**L** = 90° Elbow  
**LA** = Eighth Bend

**3 4 - G - NL**

### SIZE OF INLETS - OUTLETS (one end – other end)

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

### TYPES OF INLETS - OUTLETS

(one end/run – other end/run – side outlet)

- 1 = Female Iron Pipe Thread
- 2 = Flare Copper Tube Nut
- 4 = Pack Joint for Plastic or Copper Tube
- 6 = Pack Joint for PE Pipe
- 8 = Male Iron Pipe Thread

### SIZE OF INLETS - OUTLETS

(one end – other end – side outlet)

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

G = Grip Joint (3/4" - 2" CTS, 3/4" & 1" PEP)  
Q = Quick Joint (for indicated items)

U-AWT = Ultra-Tite Coupling (consists of components assembled watertight)

### Ford Tee Numbering System

**T** = Tee  
**TD** = Cut-In Tee

**4 4 1 - 3 3 4**  
Run  
Side Outlet

**G - NL**

NO-LEAD

### Lead on One End

**Q 2 1 - 3 3 - NL**

### Lead Strength

- 1 = Strong
- 2 = Extra Strong
- 3 = Double Extra Strong

### Other End

- 1 = Female Iron Pipe Thread
- 2 = Flare Copper Tube Nut
- 4 = Pack Joint for Plastic or Copper Tube
- 6 = Pack Joint for PE Pipe
- 8 = Male Iron Pipe Thread
- S = Solder

### SIZES One End – Other End

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

NO-LEAD

**Q 3 Q 3 - 4 4 - NL**

### Lead On Both Ends

### Ford Lead-Pak Numbering System

**Note:** See product listings in catalog to ensure desired sizes and options are available.

# COUPLINGS FOR PIPE AND TUBING

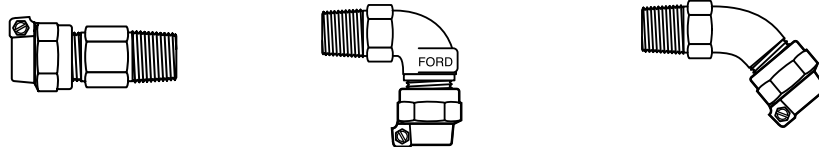
## Catalog Section J - Products

Ford Meter Box offers the largest variety of couplings in the water works industry including male and female iron pipe thread, flare copper, compression couplings for copper, iron, polyethylene, PVC and lead.

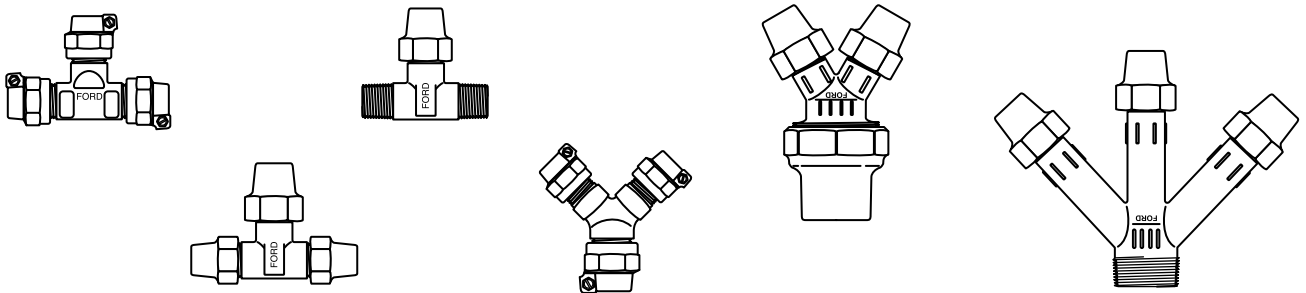
**Note:** Pack and Grip Joint Nuts are available for 3/4" through 2" CTS and 3/4" and 1" PE Pipe.

**Note:** Ultra-tite Connection and Quick Joint Nuts are available on selected couplings. See catalog for particular listings.

### Straight Couplings, Ells and Eighth Bends



### Tees and "Y" Branches



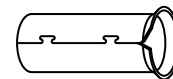
### Lead-Pak Couplings

For joining various types of service line material to lead

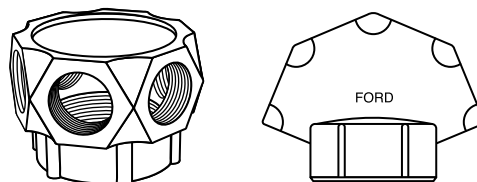


### Insert Stiffeners

for PEP/IPS, HDPE Pipe or PET/CTS Tubing



### Multi-Service Tees and "Y"s

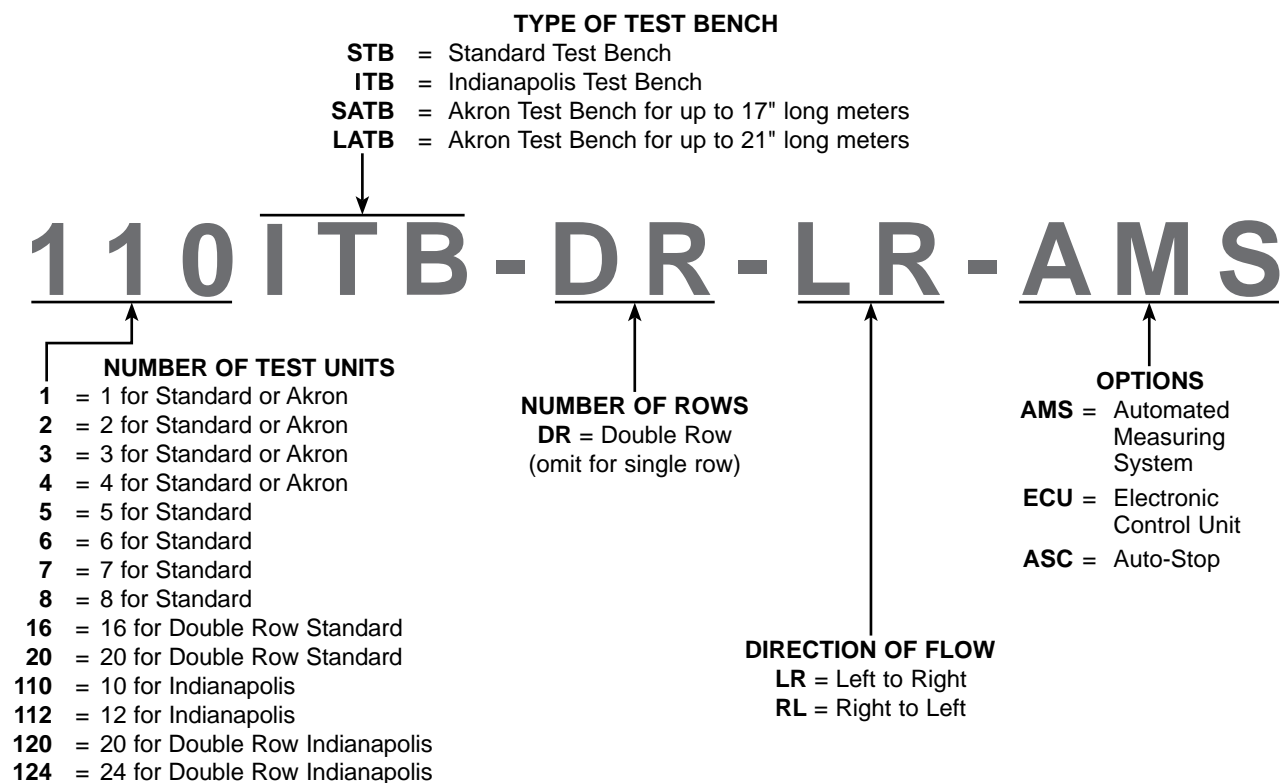


### CATALOG SECTION J CONTAINS A VARIETY OF ADDITIONAL ITEMS INCLUDING:

- Pack and Grip Joint Nuts and Parts
- Quick Joint Nuts and Parts
- CTS Quick Joint Nut with Tracer Wire terminal
- Copper Rounding Tools
- Copper Tube Nuts for flare connections
- Thaw wire copper tube nuts for flare copper connections
- Brass Bushings
- Reducing Couplings
- Brass Service Plugs
- Copper Disks to plug service at flare copper connections
- Copper gaskets for flare copper connections (for adapters which replace copper flare nut)
- Straight Insert Fittings for PE Plastic Pipe
- Ell Insert Fittings for PE Plastic Pipe
- Service Tee Insert Fitting for 1" PE Plastic Pipe
- Stainless Steel Clamps for PE Pipe
- Flare Nuts for PE Pipe (replaces copper flare nut)

## TESTING EQUIPMENT

### Catalog Section K - Numbering System

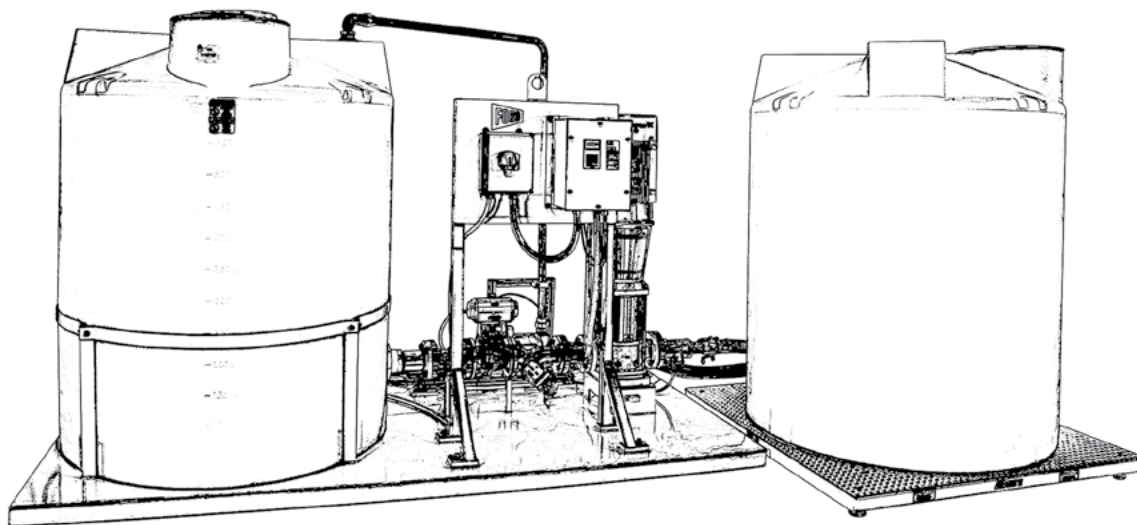


Note: See item listings in catalog section to ensure desired sizes and options are available.

## TESTING EQUIPMENT

### Catalog Section K - Products

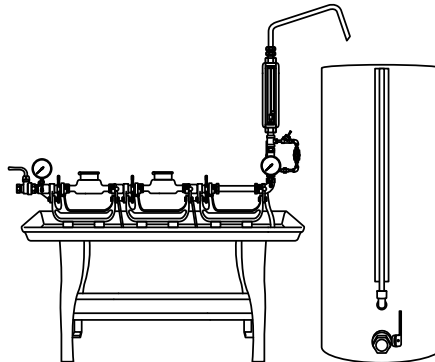
#### Test Bench Recirculating System (for Indianapolis Test Benches)



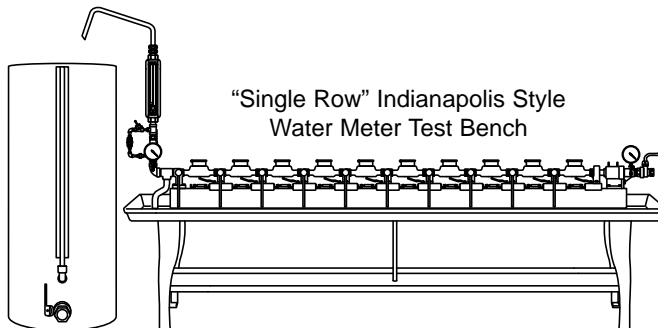
# TESTING EQUIPMENT

## Catalog Section K - Products

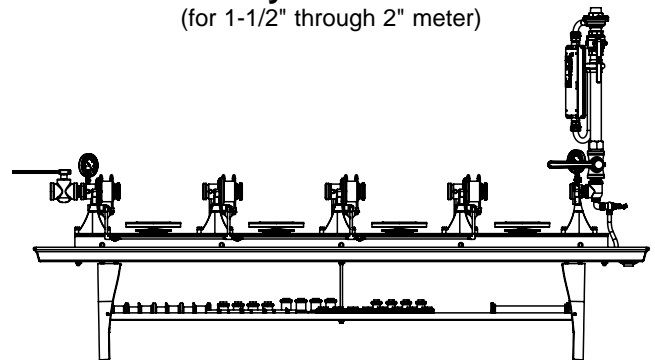
### Standard Test Benches (for 5/8" through 1" meter)



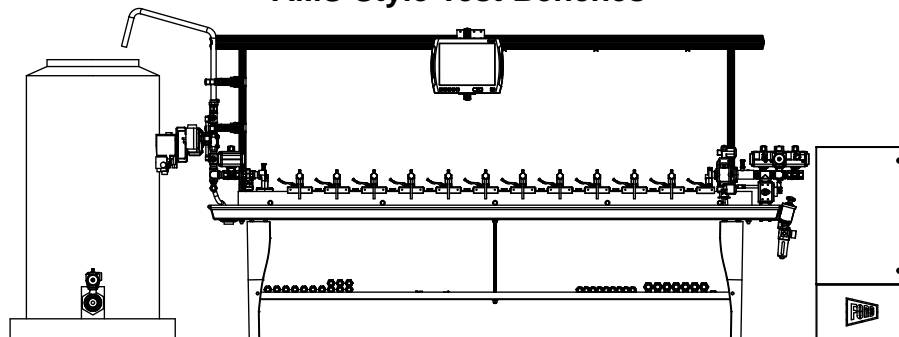
### Indianapolis Style Test Benches (for 5/8" and/or 5/8"x3/4" meter or 5/8" through 1" meter)



### Akron Style Test Benches (for 1-1/2" through 2" meter)



### AMS Style Test Benches



### OTHER ITEMS FOR WATER METER TESTING EQUIPMENT

Automated Testing System  
Electric Valve Flow Control Equipment  
Calibrated Testing Tanks  
Parts for Standard Test Benches  
Parts for Indianapolis Test Benches  
Parts for Akron Test Benches

Miscellaneous Tester and Tank Parts  
Meter Shop Accessories  
Tester Clamps for Testing Up To 6" Meters  
Automated Measuring System  
Auto-Stop

# PIPE REPAIR PRODUCTS

## Catalog Section L - Numbering System

### TYPE OF CLAMP

<b>F1</b>	= Single Band Stainless Steel Clamp with Ductile Iron Lugs
<b>F2</b>	= Double Band Stainless Steel Clamp with Ductile Iron Lugs
<b>F2W</b>	= Special Range Double Band Stainless Steel Clamp with Ductile Iron Lugs
<b>F3</b>	= Triple Band Stainless Steel Clamp with Ductile Iron Lugs
<b>FLS1</b>	= Single Band Stainless Steel Repair Clamps with Drop-In Bolts
<b>FLS2</b>	= Double Band Stainless Steel Repair Clamps with Drop-In Bolts
<b>FLS3</b>	= Triple Band Stainless Steel Repair Clamps with Drop-In Bolts
<b>FP1</b>	= Single Band Stainless Steel Clamp with Ductile Iron Lugs for HDPE Pipe
<b>FP2</b>	= Double Band Stainless Steel Clamp with Ductile Iron Lugs for HDPE Pipe
<b>FP3</b>	= Triple Band Stainless Steel Clamp with Ductile Iron Lugs for HDPE Pipe
<b>FS1</b>	= Single Band All Stainless Steel Clamp
<b>FS2</b>	= Double Band All Stainless Steel Clamp
<b>FS3</b>	= Triple Band All Stainless Steel Clamp
<b>FSP1</b>	= Single Band All Stainless Steel Clamp for HDPE Pipe
<b>FSP2</b>	= Double Band All Stainless Steel Clamp for HDPE Pipe
<b>FSP3</b>	= Triple Band All Stainless Steel Clamp for HDPE Pipe
<b>FACC</b>	= Abandoned Corp Cap
<b>FSC</b>	= Snap or Wrap Clamp
<b>FLSC</b>	= All Stainless Steel Snap or Wrap Clamp
<b>FCC</b>	= Repair Clamp for PVC Solvent Weld Coupling
<b>FBC</b>	= Bell Joint Leak Clamp
<b>FIBC</b>	= Repair Clamp for PVC Solvent Weld Integral Bell

### CLAMP LENGTH

(Lengths are not required on styles FACC, FBC, FCC and FIBC)

<b>3</b>	= 3" (FSC, FSC-R and FLSC only)
<b>6</b>	= 6" (FSC, FSC-R and FLSC)
<b>75</b>	= 7-1/2"
<b>9</b>	= 9" (FSC, FSC-R and FLSC only)
<b>10</b>	= 10"
<b>12</b>	= 12" (FSC, FSC-R and FLSC only)
<b>125</b>	= 12-1/2"
<b>15</b>	= 15"
<b>20</b>	= 20"
<b>24</b>	= 24"
<b>30</b>	= 30"

**F S 1 - 9 3 9 - 1 5 - C C 4**

### O.D. SIZE

For most clamp styles, the O.D. size number indicates the top end of the range.  
Use listed catalog sizes.

### OPTIONAL FEATURES

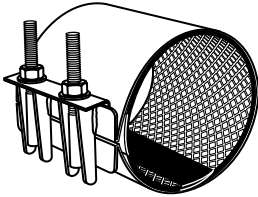
<b>A</b>	= Long Starter Bolt	<b>IP2</b>	= 1/2" Iron Pipe Tapped Thread
<b>CC3</b>	= 3/4" AWWA Tapped Thread	<b>IP3</b>	= 3/4" Iron Pipe Tapped Thread
<b>CC4</b>	= 1" AWWA Tapped Thread	<b>IP4</b>	= 1" Iron Pipe Tapped Thread
<b>CC5</b>	= 1-1/4" AWWA Tapped Thread	<b>IP5</b>	= 1-1/4" Iron Pipe Tapped Thread
<b>CC6</b>	= 1-1/2" AWWA Tapped Thread	<b>IP6</b>	= 1-1/2" Iron Pipe Tapped Thread
<b>CC7</b>	= 2" AWWA Tapped Thread	<b>IP7</b>	= 2" Iron Pipe Tapped Thread
<b>CS</b>	= Conductivity Strips	<b>N</b>	= NBR (Buna-N) Rubber Gasket
<b>EPDM</b>	= EPDM Rubber Gasket	<b>R</b>	= Wrap Clamp, features a 360° gasket (for FSC & FLSC style clamps)
		<b>R2</b>	= Dual Armor Wrap Clamp with EPDM gasket (less dimples)
		<b>SH</b>	= Stainless Steel Nuts & Bolts (for ductile lug clamps)

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

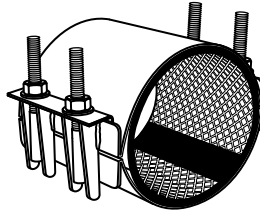
# PIPE REPAIR PRODUCTS

## Catalog Section L - Products

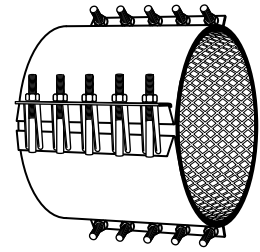
### All Stainless Repair Clamps



Style FS1 Single Band  
(FSP1 for HDPE)



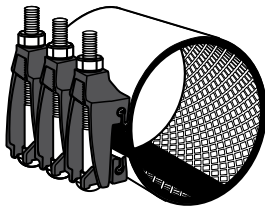
Style FS2 Double Band  
(FSP2 for HDPE)



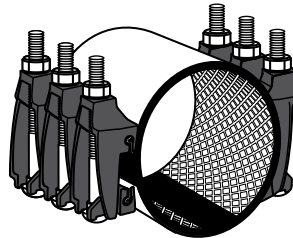
Style FS3 Triple Band  
(FSP3 for HDPE)

### Fordflex Repair Clamps

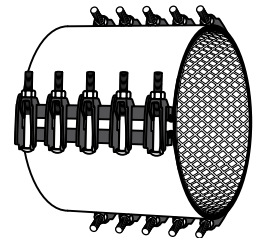
#### Stainless Steel Sleeve with Heavy Duty Ductile Iron Lug Construction



Style F1 Single Band  
(FP1 for HDPE)

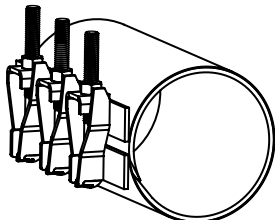


Style F2 Double Band  
(FP2 for HDPE)

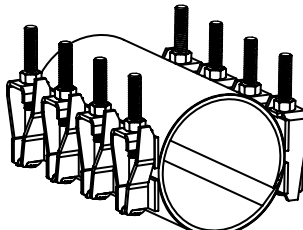


Style F3 Triple Band  
(FP3 for HDPE)

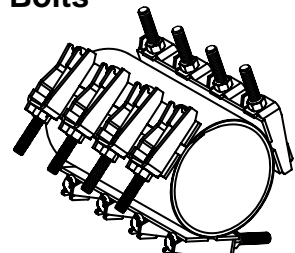
### All Stainless Steel Repair Clamps with Removable Bolts



Style FLS1

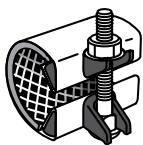


Style FLS2

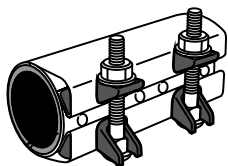


Style FLS3

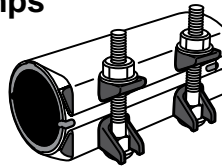
### Snap Clamps & Wrap Clamps



Style FSC



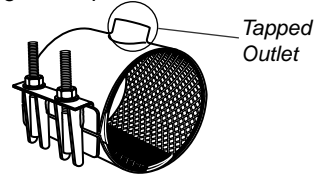
Style FSC "-R"  
featuring a 360° gasket



Style FSC "-R2"  
featuring a 360° gasket

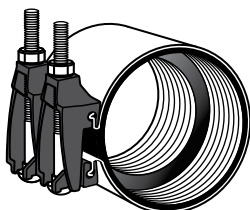
### Tapped Outlet - Available on all Repair Products

3/4" through 2" Taps IP, CC/AWWA or BSP

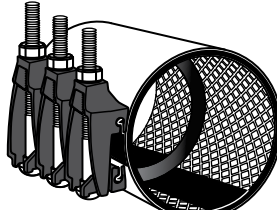


### Coupling & Integral Bell Clamp for PVC

Style FCC  
(Schedule 40  
Solvent Weld PVC)

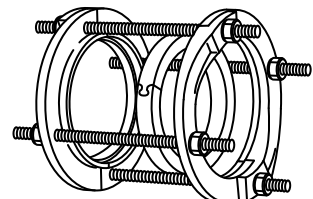


Style FIBC  
(Class 160 and  
200 Solvent Weld PVC)



### Bell Joint Leak Clamps

Style FBC  
For PVC, Standard Steel Size,  
Cast Iron Pipe and C900 PVC



# BOLTED FLEX COUPLINGS

## Catalog Section M - 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

- SH** = Type 304 Stainless Steel Nuts & Bolts  
**ESH** = Type 304 Stainless Steel Nuts & Bolts with Epoxy Coated Coupling  
**N** = NBR (Buna-N) gaskets, alloy bolts & Nuts with Shop Coated Coupling  
**EPDM** = EPDM Gaskets  
**BBN** = Blue Fluorocarbon Coated Nuts & Bolts  
**L12** = 12" Long Center Sleeve Length (for FC1 4" & 6" FC2A - 4" - 12")  
**FOR FFCA COUPLING ADAPTERS**  
**AS2** = Two Anchor Studs  
**AS4** = Four Anchor Studs (316 stainless steel nuts and bolts available - contact factory)

**FC1 - 690 - 720 - SH**

one end

OD SIZE

other end

Use listed catalog sizes

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

### TYPE OF COUPLING

- MJFA** = Mechanical Joint Flange Adapter  
**MJC** = Mechanical Joint Couplings

### NOMINAL PIPE SIZE

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

**MJFA - 6 - I**

### TYPE OF COUPLING

- FC2W** = Ductile Iron Wide Range Coupling (Epoxy coated, NBR (Buna-N) gaskets)

**FC2W - 6 - SH**

### NOMINAL PIPE SIZE

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

### OPTIONAL FEATURES

- SH** = Type 304 stainless steel nuts and bolts  
**L12** = 12" long center sleeve (sizes 3" - 12")  
**EPDM** = EPDM gasket  
**EC** = End Cap with 2" FIP threaded boss (sizes 4"-12")  
**BBN** = Blue Fluorocarbon coated nuts and bolts (316 stainless steel nuts and bolts available - contact factory)

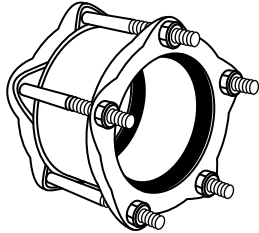
Note: See item listings in catalog section to ensure desired sizes and options are available.



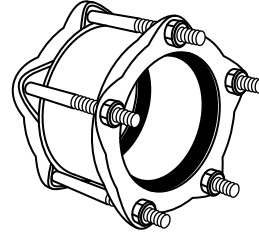
# BOLTED FLEX COUPLINGS

## Catalog Section M - Products

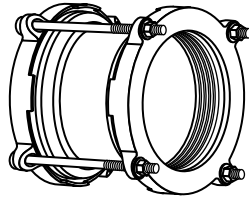
**Ductile Iron Couplings  
Style FC1**



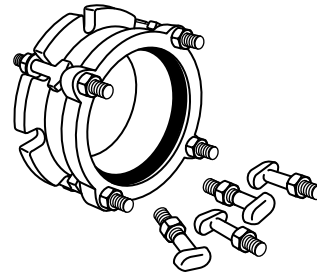
**Ductile Iron Transition Couplings  
Style FC2A**



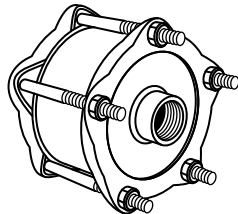
**Ductile Iron Wide Range  
Transition Coupling  
Style FC2W**



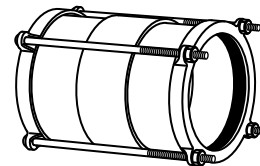
**Iron Flanged Coupling Adapters  
Style FFCA**



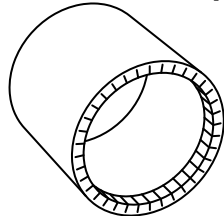
**End Cap Couplings  
Style FEC**



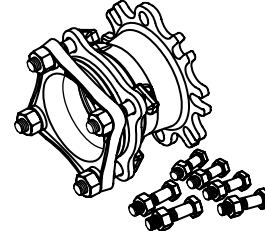
**Cut-In Couplings  
Style FRR**



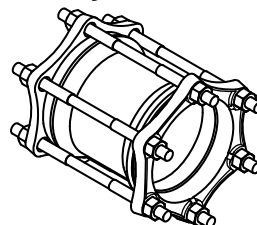
**Insulating Boot for  
Iron or Steel Pipe**



**Mechanical Joint Flange Adapter  
Style MJFA**

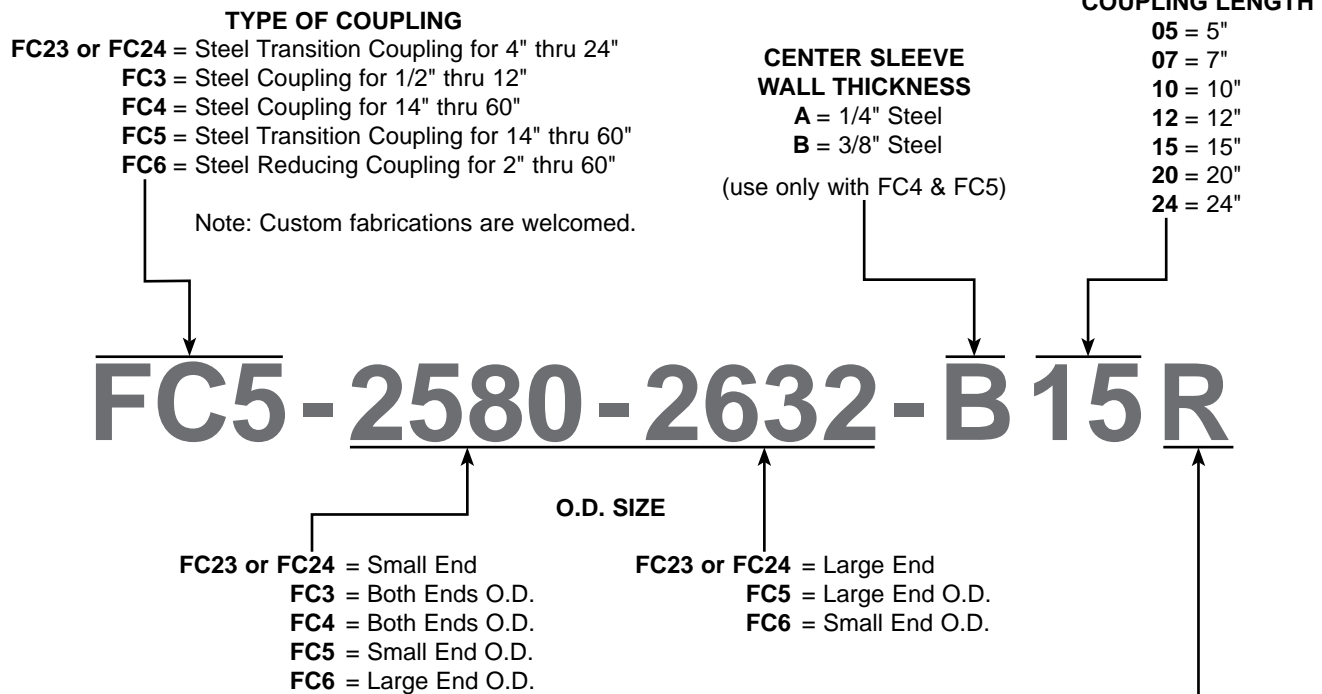


**Mechanical Joint Coupling  
Style MJC**



# FABRICATED STEEL PRODUCTS

## Catalog Section N - Numbering System



### COATING, BOLTS AND GASKET OPTIONS

GASKET MATERIAL	COATING AND BOLT COMBINATIONS							
	Standard Shop Coat				Epoxy Coated			
	Standard Alloy Bolts	304 Stainless Steel Bolts	316 Stainless Steel Bolts	Electro Galvanized Bolts	Standard Alloy Bolts	304 Stainless Steel Bolts	316 Stainless Steel Bolts	Electro Galvanized Bolts
SBR Rubber	R	X	Q	G	E	Y	Z	K
Buna-N Rubber	N	H	J	F	C	P	T	O
EPDM Rubber	S	M	V	W	A	B	D	L

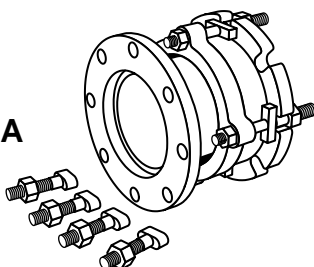
Note: See item listings in catalog section to ensure desired sizes and options are available.

# FABRICATED STEEL PRODUCTS

## Catalog Section N - Products

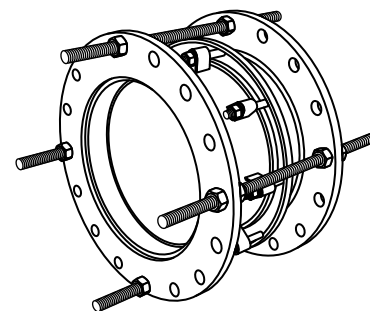
### Ford Dismantling Joint Style FDJ

Style A



Less tie rods

Style B

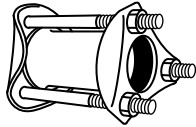


With tie rods

# FABRICATED STEEL PRODUCTS

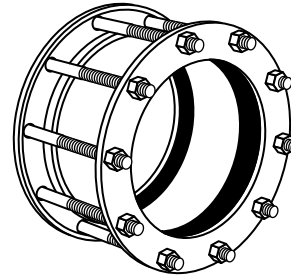
## Catalog Section N - Products

### Standard Steel Couplings Style FC3



for pipe  
sizes 1/2"  
thru 12"

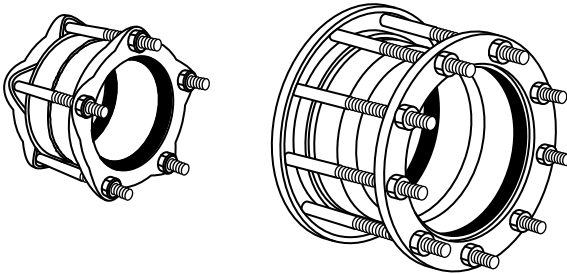
### Standard Steel Couplings Style FC4



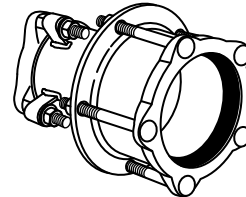
for pipe  
sizes 14"  
thru 60"

### Steel Transition Couplings Styles FC23, FC24 and FC5

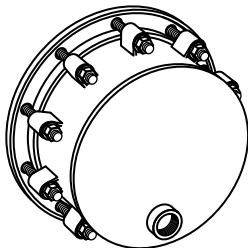
Joins most pipe within each nominal size



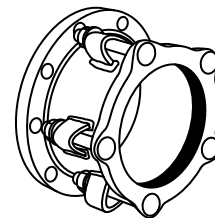
### Steel Reducing Couplings Style FC6



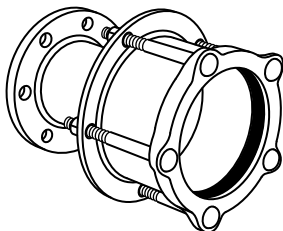
### Steel End Cap Couplings Style FC4



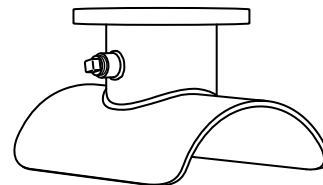
### Steel Flange Coupling Adapters Style FCA



### Steel Reducing Flange Coupling Adapters Style FCA

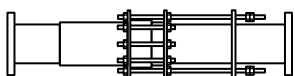


### Steel Weld-On Tapping Sleeves Style FWS

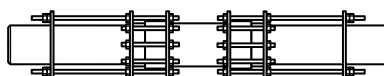


### Expansion Joints Style FEJ

Single and Double End

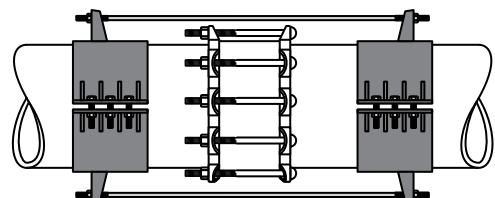


Flange End Expansion Joint



Plain End Expansion Joint

### Restrainer Assemblies Style FR



# UNI-FLANGE® RETAINER GLANDS

## Catalog Section U - Numbering System

### PRODUCT TYPE

- RFAP** = Restrained Flange Adapter for C905 PVC, C900, C909, DR35, IPS PVC and Steel Pipe
- RFAD** = Restrained Flange Adapter for Ductile Iron Pipe
- RCDD** = Restrained Coupling for Ductile Iron Pipe
- RCDP** = Restrained Coupling for joining Ductile Iron Pipe to C905 PVC, C900 PVC, IPS PVC, Steel, C909 or DR35 pipe
- RCPP** = Restrained Coupling for C905 PVC, C900, IPS PVC, Steel, C909 and DR35 Sewer Pipe
- UFA200** = Adapter Flange for Steel and Ductile Iron Pipe
- UFA400** = Higher Pressure Adapter Flange for Steel and Ductile Iron Pipe
- UFA420** = Extra Heavy Adapter Flange
- UFA900** = Adapter Flange for PVC Pipe
- UFR1300** = Restraint Device for PVC Pipe and MJ/Push-On Fittings
- UFR1300-P** = Restraint Device for Sewer Pipe
- UFR1309** = Restraint Device for C909 PVC and MJ/Push-On Fittings
- UFR1350** = Restraint Device for PVC Pipe Bell Joints
- UFR1355** = Restraint Device for PVC Pipe Bell Joints for Ductile Iron Pipe O.D.
- UFR1360** = Restraint Device for PVC Pressure Fittings
- UFR1390** = Restraint Device for PVC Pipe Bell Joints
- UFR1390-P** = Restraint Device for Sewer Pipe Bell Joints
- UFR1399** = Restraint Device for C909 Pipe Bell Joints
- UFR1400** = Wedge Action Retainer Gland Joint Restraint for Ductile Iron Pipe
- UFR1450** = Bell Joint Restraint for Ductile Iron
- UFR1405** = Split MJ Retainer Gland Joint Restraint for Ductile Iron
- UFR1455** = Joint Restraint with Split Back Up Ring for Ductile Iron
- UFR1490** = Split Joint Restraint with Split Back Up Ring for Ductile Iron
- UFR1500** = Retainer Gland Joint Restraint for PVC and Steel Pipe
- UFR1559** = Retainer Gland Joint Restraint for C909 PVC Pipe Bell Joints
- UFR2800** = Tandem Restraints for High Pressure Applications on Ductile Iron
- UFR2850** = Bell Joint Restraints for High Pressure Applications on Ductile Iron
- UFRCS1300-P** = Casing Spacer for Support of Sewer Pipe Barrel
- UFRCS1300** = Casing Spacer for Support of Pipe Barrel
- UFRCS1390** = Casing Spacer for Support/Restraint of Pipe Bell Joints
- UFRCS1390-P** = Casing Spacer for Support of Sewer Pipe Barrel

**C** = C900/C905 PVC  
**D** = Ductile Iron Pipe  
**S** = Steel Size (IPS)  
 PVC Pipe (steel pipe for UFA200/400/420 only)  
**Z** = SO-EZ Gasket

### OPTIONS

**XL** = Extra Large Inner Diameter for Class C and D Gray Cast Iron Pipe (4" - 12" UFR1400 only)  
**I** = Imported Casting  
**U** = Domestic Casting

**UFR1400 - DA - 12 - XL**

Optional MJ Accessory Pack  
 (T-bolts and gasket,  
 also includes MJ gland with  
 UFR1300)

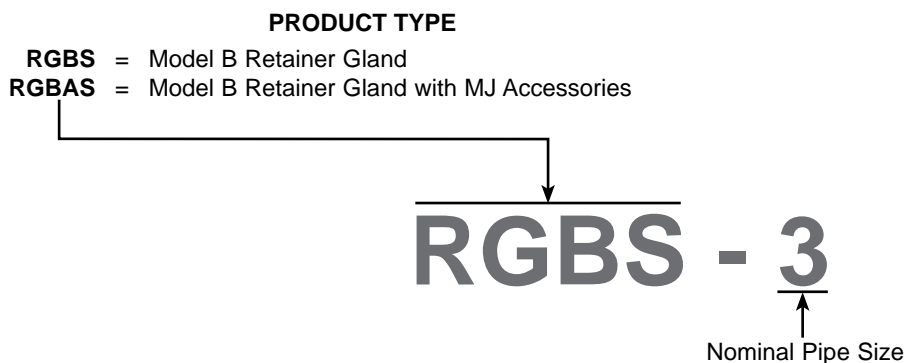
Nominal Pipe Size

Note: See catalog listings to ensure desired sizes, styles, options and pipe applications are available.

# UNI-FLANGE® RETAINER GLAND

## Catalog Section U - Numbering System

### Uni-Flange® Set Screw Retainer Glands Numbering System



# UNI-FLANGE® ADAPTER FLANGES

## Catalog Section U - Numbering System

### Adapters Series

**UFA200** = Adapter Flange for Steel and Ductile Iron  
 Pipe with working pressure 2" through 8"  
**200 PSI** / 10" through 12" **175 PSI**

**UFA400** = Adapter Flange for Steel and Ductile Iron Pipe  
 with working pressure - 2" through 12" **250 PSI**  
 14" through 24" **150 PSI** / 30" through 48" **100 PSI**

**UFA420** = Adapter Flange for Steel and Ductile Iron Pipe  
 with working pressure - 2" through 12" **400 PSI**

**UFA900** = Adapter Flange for PVC Pipe

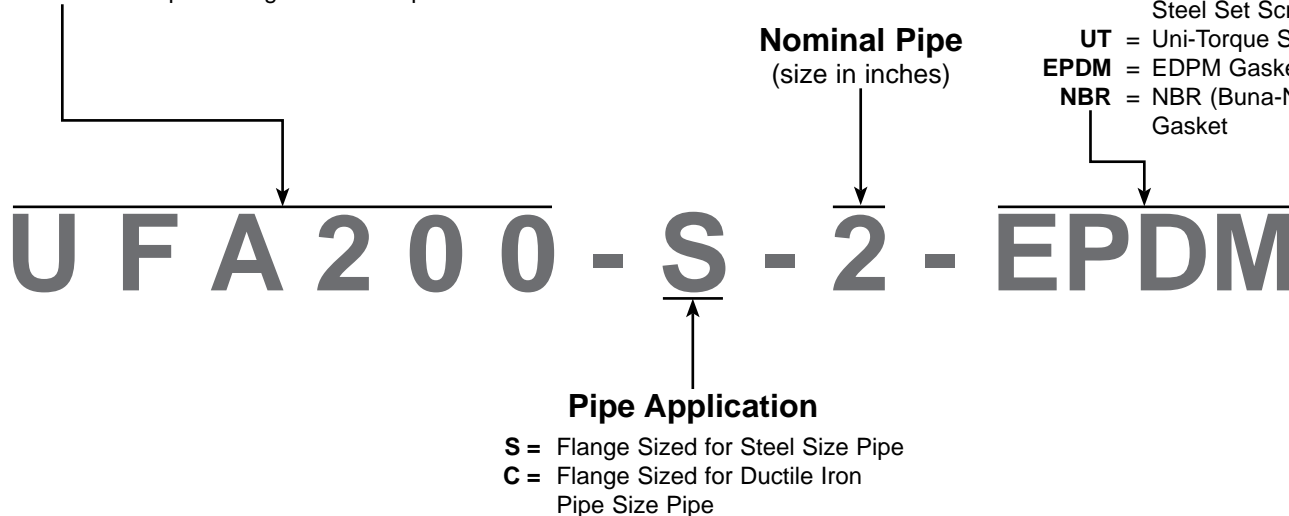
### OPTIONS

**SS** = Type 410 Heat Treated  
 Steel Set Screw

**UT** = Uni-Torque Set Screw

**EPDM** = EPDM Gasket

**NBR** = NBR (Buna-N) Nitrile  
 Gasket



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

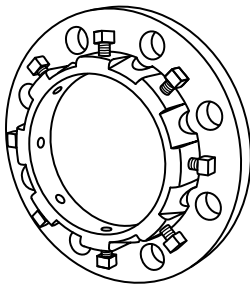
# UNI-FLANGE® ADAPTER FLANGES

## Catalog Section U - Products

### Series 200 Adapter Flange for Steel and Ductile Iron Pipe

Flange Drilling ANSI B16.1 125 lb.  
and ANSI B16.5 150 lb.

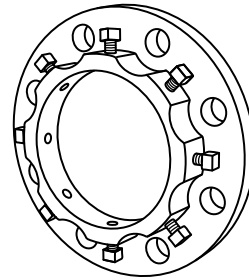
Working pressure - 2" through 8" **200 PSI**  
10" through 12" **175 PSI**



### Series 400 Adapter Flange for Steel and Ductile Iron Pipe

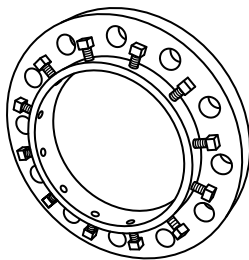
Flange Drilling ANSI B16.1 125 lb.  
and ANSI B16.5 150 lb.

Working pressure - 2" through 12" **250 PSI**  
14" through 24" **150 PSI**  
30" through 48" **100 PSI**



### Series 420 Extra Heavy Adapter Flange for Steel and Ductile Iron Pipe

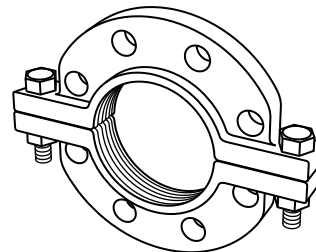
Flange Drilling ANSI B16.1 250 lb. and ANSI B16.5 300 lb.  
Working pressure - 2" through 12" **400 PSI**



### Series 900 Adapter Flange for PVC Pipe

Flange Drilling ANSI B16.1 125 lb.  
and ANSI B16.5 150 lb.

Working pressure based on pipe size and type



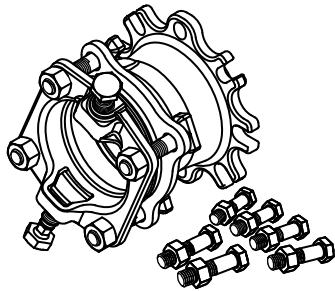
# UNI-FLANGE® RESTRAINED FLANGE ADAPTER

Catalog Section U - Products

## RFAD

### Flange and Restraint Devices for Ductile Iron Pipe

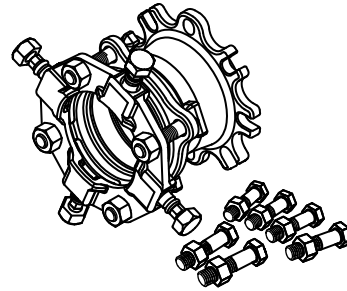
Flange Drilling ANSI B16.1 125 lb. for Cast Iron Flanges  
and ANSI B16.5 150 lb. for Steel Flanges



## RFAP

### Flange and Restraint Devices for PVC, Steel or DR35 Sewer Pipe

Flange Drilling ANSI B16.1 125 lb. for Cast Iron Flanges  
and ANSI B16.5 150 lb. for Steel Flanges

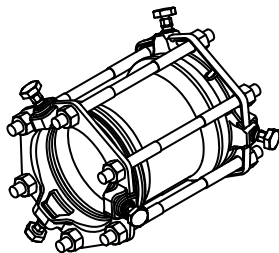


# UNI-FLANGE® RESTRAINED COUPLINGS

Catalog Section U - Products

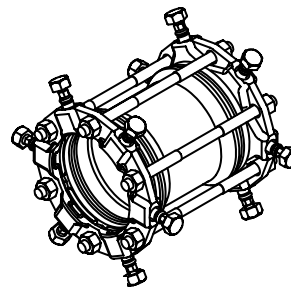
## RCDD

### Coupling and Restraint Device for Ductile Iron Pipe x Ductile Iron Pipe



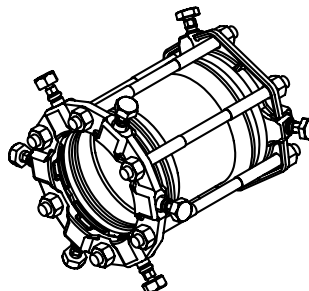
## RCPP

### Coupling and Restraint Device for PVC Pipe x PVC Pipe



## RCDP

### Coupling and Restraint Device for Ductile Iron Pipe x PVC Pipe



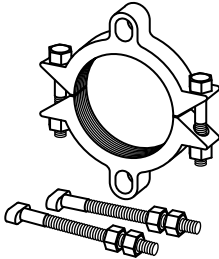
Note: Restrained adapters and couplings rated to the full pressure of the pipe.

# UNI-FLANGE® PIPE RESTRAINT FOR PVC

## Catalog Section U - Products

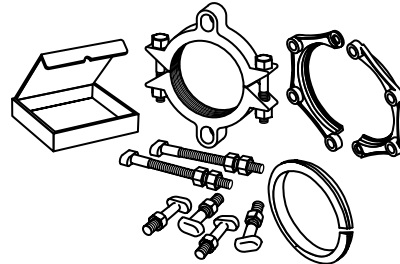
### Series 1300 Restraint Device for PVC & Ductile Iron Pipe\*

*used with Mechanical Joint/  
Push-On Fittings*



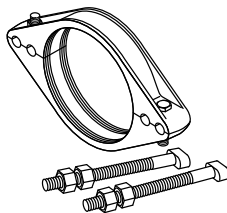
### Series 1300-CAS and 1300-SAS for C900 PVC Pipe

*Mechanical joint repair kit*



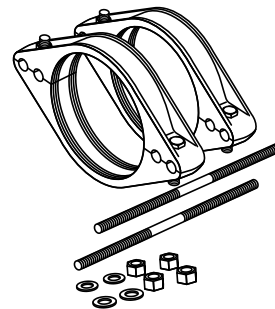
### Series 1309 Restraint Device for C900 & C909 PVC Pipe C906 HDPE & Ductile Iron Pipe\*

*used with Mechanical Joint/  
Push-On Fittings*



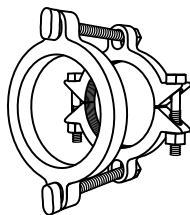
### Series 1399 Restraint Device for C909 PVC Pipe

*Split Restraint for push-on joints of C909  
PVC pipe (new or existing installations)*



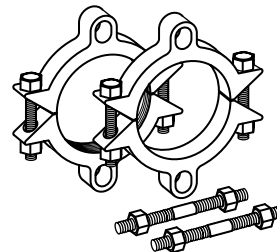
### Series 1350 Restraint Device for PVC Pipe

*for restraining bell joints of PVC pipe  
(new pipe installations only)*



### Series 1355 Restraint Device for PVC Pipe Bell Joints for Ductile Iron Pipe\* O.D.

*for restraining bell and spigot joints of PVC  
pipe (new or existing pipe installations)*



\* See Catalog Section U for ductile iron pipe applications.

NOTE: Ford recommends using inserts or pipe stiffeners for HDPE pipe applications.

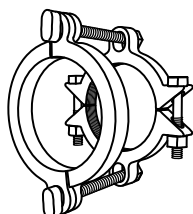


# UNI-FLANGE® PIPE RESTRAINT FOR PVC

## Catalog Section U - Products

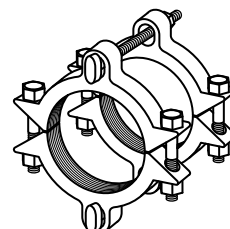
### Series 1360 Restrainers for PVC Pipe

*for restraining PVC pipe and  
pressure fitting joints of PVC pipe*



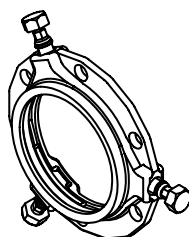
### Series 1390 Restrainers for PVC & Ductile Iron Pipe\*

*for restraining bell joints of PVC pipe  
or ductile iron pipe*



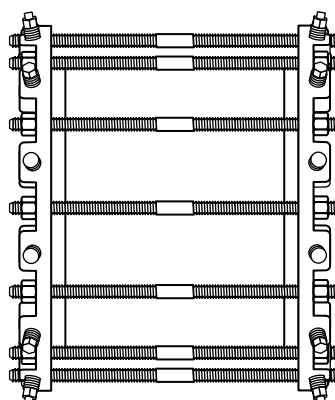
### Series 1500 Restrainer for PVC Pipe

*MJ Retainer Gland Joint Restraint*



### Series 1559 Restrainer for C909 PVC Pipe

*MJ Retainer Gland Joint Restraint  
for C909 PVC bell joints  
(new installations only)*



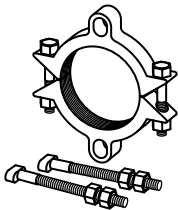
\* See Catalog Section U for ductile iron pipe applications.

NOTE: Ford recommends using inserts or pipe stiffeners for HDPE pipe applications.

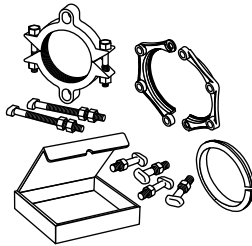
# UNI-FLANGE® PIPE RESTRAINT FOR DUCTILE IRON PIPE

## Catalog Section U - Products

### Series 1300 Restrainer for Ductile Iron Pipe

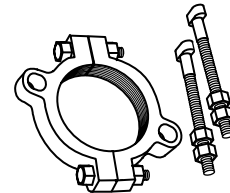


### Series 1300-CAS Mechanical Joint Repair Kit for Ductile Iron Pipe



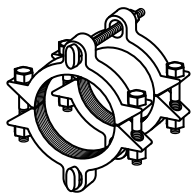
### Series 1309 Restrainer for C900 & C909 PVC Pipe C906 HDPE & Ductile Iron Pipe

*used with Mechanical Joint/  
Push-On Fittings*



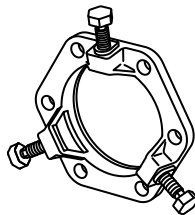
### Series 1390 Restrainers for Ductile Iron Pipe

*for restraining bell joints of PVC pipe  
or ductile iron pipe 4" through 16"*



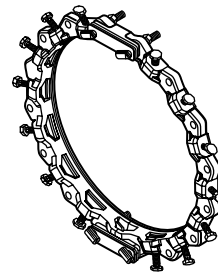
### Series 1400 Restrainer for Ductile Iron Pipe

*Wedge Action MJ Retainer  
Gland Joint Restraint*



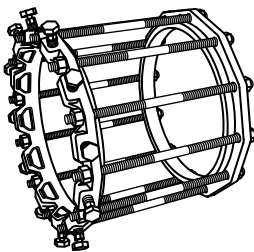
### Series 1405 Restrainer for Ductile Iron Pipe

*Split MJ Retainer Gland Joint Restraint*



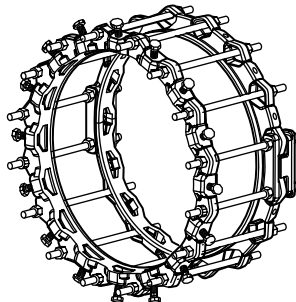
### Series 1450 Restrainer for Ductile Iron Pipe

*Wedge Action Restrainer  
for Push-On Joints of Ductile Iron Pipe  
(new installations only)*



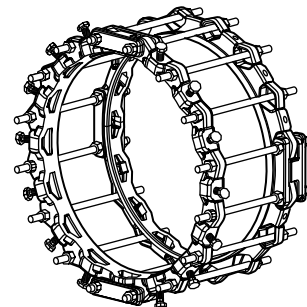
### Series 1455 Restrainer for Ductile Iron Pipe

*Joint Restraint with  
Split Back-Up Ring*



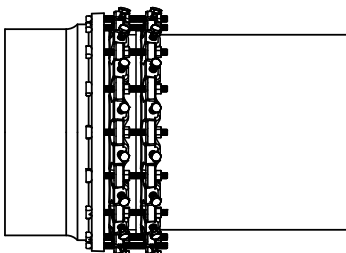
### Series 1490 Restrainer for Ductile Iron Pipe

*Split Wedge Action Retainer  
with Split Back-Up Ring*



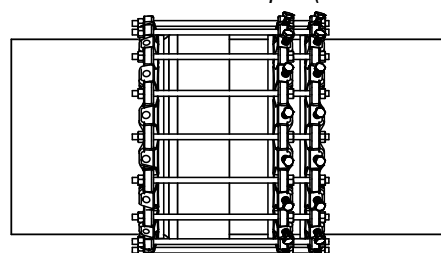
### Series 2800 for High Pressure Applications on Ductile Iron Pipe

*Tandem Restraints*



### Series 2850 for High Pressure Applications on Ductile Iron Pipe

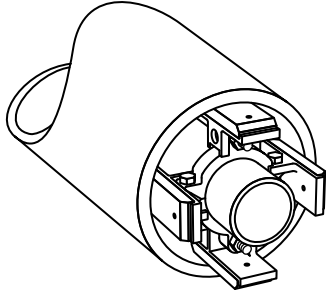
*for Push-On Joints of Ductile Iron Pipe / (New Installations Only)*



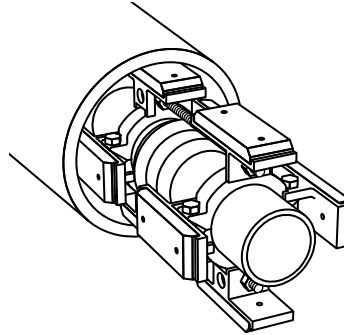
# UNI-FLANGE® CASING SPACERS FOR PVC AND DUCTILE IRON PIPE

Catalog Section U - Products

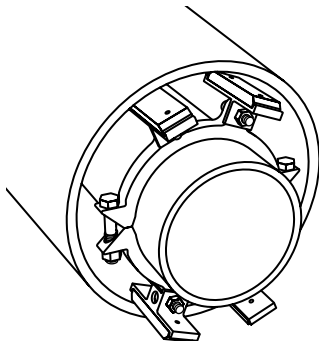
**Uni-Flange Series 1300 Casing Spacer  
for Support of Pipe Barrel  
4" through 8"**



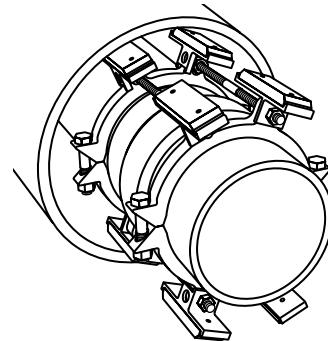
**Uni-Flange Series 1390 Casing Spacer  
for Pipe Bell Joint  
4" through 8"**



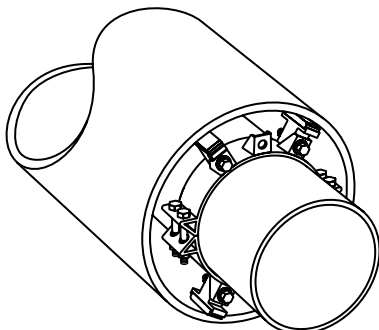
**Uni-Flange Series 1300 Casing Spacer  
for Support of Pipe Barrel  
10" through 12"**



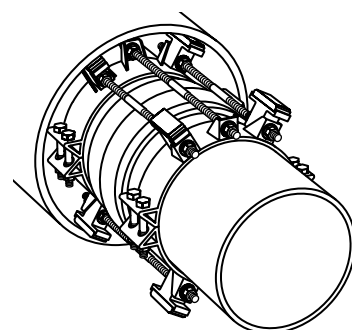
**Uni-Flange Series 1390 Casing Spacer  
for Pipe Bell Joint  
10" through 12"**



**Uni-Flange Series 1300 Casing Spacer  
for Support of Pipe Barrel  
14" through 24"**



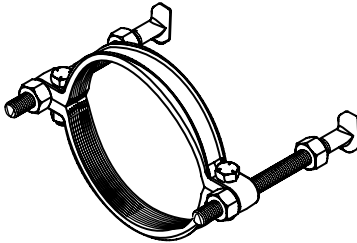
**Uni-Flange Series 1390 Casing Spacer  
for Pipe Bell Joint  
14" through 24"**



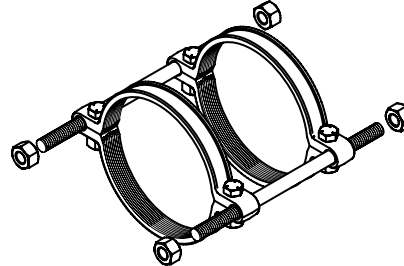
## UNI-FLANGE® PIPE RESTRAINTS FOR SEWER PIPE

Catalog Section U - Products

**Series 1300-P Restraints  
for Sewer Pipe  
4" through 24"**



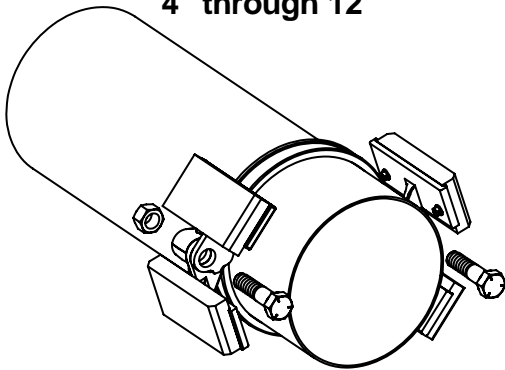
**Series 1390-P Restraints  
for Sewer Pipe Bell Joints  
4" through 24"**



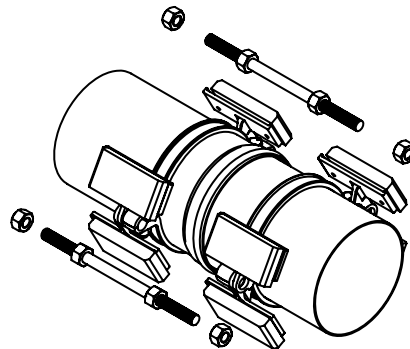
## UNI-FLANGE® HARNESS RESTRAINTS WITH CASING SPACERS FOR SEWER PIPE

Catalog Section U - Products

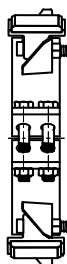
**Uni-Flange Series 1300-P  
Casing Spacer for  
Support of Pipe Barrel  
4" through 12"**



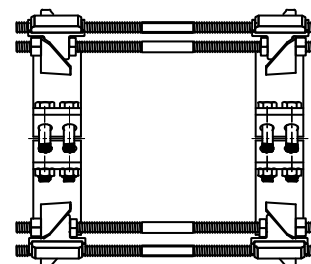
**Uni-Flange Series 1390-P  
Casing Spacer for  
Support of Pipe Barrel  
4" through 12"**



**Uni-Flange Series 1300-P  
Casing Spacer for Support of Pipe  
Barrel and Pipe Bell Joint  
15" through 24"**



**Uni-Flange Series 1390-P  
Casing Spacer for Support of Pipe  
Barrel and Pipe Bell Joint  
15" through 24"**



# O.D. Chart

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

# EXPLANATION OF ABBREVIATIONS

## THREADED AND FLARE CONNECTIONS

AWWA / CC .....AWWA Standard Thread, has steeper taper than Iron Pipe Threads (per AWWA C800)  
 COP THRD .....Copper Thread on Flare Copper Connections  
 FIP .....Female Iron Pipe Thread  
 FL COP .....Flare Copper Connection  
 IP .....Iron Pipe (not threaded) for Pack Joint Connections or Female Iron Pipe Thread for Saddle Taps  
 MIP .....Male Iron Pipe Thread  
 BSPP .....British Standard Pipe parallel pipe thread  
 BSPT .....British Standard Pipe tapered pipe thread

## PLASTIC PIPE AND TUBING CONNECTIONS

CTS .....**Flexible** Plastic water service **tubing** in what is referred to as "copper tube size" (CTS-PE or CTS-PB printed on service line). **OUTSIDE DIAMETER** is the same as on corresponding sizes of copper tubing (Ford Pack Joint Nut coded CTS).  
 PET .....Polyethylene tubing. **Flexible** Plastic water service **tubing** in what is referred to as "copper tube size" (CTS-PE printed on service line). **OUTSIDE DIAMETER** is the same as on corresponding sizes of copper tubing (Ford Pack Joint Nut coded CTS).  
 PEP .....Polyethylene pipe. **Flexible** Plastic water service **pipe** in what is referred to as "pipe size" (IPS-PE printed on service line). **INSIDE DIAMETER** is the same as on corresponding sizes of standard iron pipe (Ford Pack Joint Nut coded PEP).  
 PVC .....Polyvinyl Chloride **rigid** plastic **pipe**. **OUTSIDE DIAMETER** is the same as on the corresponding sizes of standard iron pipe. **Ford Pack Joints are recommended for use only with Schedule 40 and Schedule 80 PVC.** (Ford Pack Joint Nut coded PVC).  
 HDPE .....High-density Polyethylene. More flexible than PVC pipe and expands and contracts with temperature and pressure variations. See: **Ford HDPE Product Guide** for information on proper product usage.

## 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	0.625	0.875	1.125	1.375	1.625	2.125	—	—	—	—	—	—
PET	PE3408	200	SDR9	OD	0.625	0.875	1.125	1.375	1.625	2.125	—	0.681	0.875	1.069	1.263	1.653
	PE4710	250			0.625	0.875	1.125	1.375	1.625	2.125	—	0.681	0.875	1.069	1.263	1.653
PEP	PE3408	200	SIDR7	ID	—	1.060	1.349	1.774	2.070	2.657	—	0.824	1.049	1.380	1.610	2.067
	PE4710	250			—	1.060	1.349	1.774	2.070	2.657	—	0.824	1.049	1.380	1.610	2.067
IPS PE	—	—	—	OD	0.840	1.050	1.315	1.660	1.900	2.375	—	—	—	—	—	—
PVC	—	—	—	OD	0.840	1.050	1.315	1.660	1.900	2.375	—	—	—	—	—	—
Galv IP	—	—	—	OD	0.840	1.050	1.315	1.660	1.900	2.375	—	—	—	—	—	—

## LEAD PIPE CONNECTIONS

S - Strong Lead Pipe (Ford Pack Joint Nut coded S)  
 XS - Extra Strong Lead Pipe (Ford Pack Joint Nut coded XS)  
 XXS - Double Extra Strong Lead Pipe (Ford Pack Joint Nut coded XXS)

SIZE I.D. AND TYPE OF LEAD PIPE	APPROXIMATE AVERAGE O.D. SIZE
1/2" Extra Strong (XS)	.876
1/2" Double Extra Strong (XXS)	1.012
5/8" Strong (S)	1.019
5/8" Extra Strong (XS)	1.082
5/8" Double Extra Strong (XXS)	1.137
3/4" Strong (S)	1.156
3/4" Extra Strong (XS)	1.212
3/4" Double Extra Strong (XXS)	1.336
1" Strong (S)	1.428
1" Extra Strong (XS)	1.492
1" Double Extra Strong (XXS)	1.596
1-1/4" Extra Strong (XS)	1.765
1-1/2" Extra Strong (XS)	2.076
2" Extra Strong (XS)	2.751

## WARRANTY AND AGREEMENT STIPULATIONS

The sole and exclusive warranty respecting any product is as stated in the warranty below. **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.**

No other document, demonstration, description, words, conduct or action of Manufacturer or any of its employees, agents or representatives shall supplement or alter the warranty except as stated in the warranty below.

No claim or legal action may be brought against Manufacturer more than one (1) year after the date the factory shipment is delivered, regardless of when Recipient of shipment learns of any such cause of action.

There are, and may in the future be, foreign, federal, state and local laws, rules and regulations prohibiting the use of some of Manufacturer's products in certain applications (e.g. potable water) due to the content of lead (No Lead Laws). While Manufacturer is not responsible for recipient's compliance with No Lead Laws, Manufacturer will use reasonable efforts to identify those products prohibited (Non-qualifying Products) from use in applications due to the No Lead Laws through one or more measures which may or may not include information distributed as part of the ordering and acceptance process, labels affixed to the exterior of product boxes and a document included within product boxes. In order to assist recipient, and without limiting recipient's obligation to comply with No Lead Laws, Manufacturer may provide recipient with additional information and documentation regarding Non-qualifying Products which recipient agrees to provide to those who purchase Non-qualifying Products from recipient and/or use Non-qualifying Products. Recipient agrees to at all times comply with No Lead Laws and agrees to hold harmless the Manufacturer and its affiliates and their respective employees, agents and representatives, from any and all loss, liability, claim, judgment and expense (including, without limitation, reasonable attorneys' fees and expenses) that relate to or result from the recipient's or any user's sale, distribution or use of Manufacturer's Non-qualifying Products in violation of the No Lead Laws.

**Receipt of factory shipments is considered the Recipient's full agreement with the Manufacturer regarding all stipulations contained herein. The warranty stated below shall also be applicable in its entirety to received products resold to any other person or entity.**

### **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.**

**The Ford Meter Box Company, Inc.**

The Ford Meter Box Company considers the information in this Product Guide to be correct at the time of publication. Item and option availability, including specifications, are subject to change without notice. The terms as written herein shall supersede the terms of the customer's order in the event of contradiction or inconsistency and no understanding, agreement, terms, condition or trade custom at variance herewith shall be binding on the parties.

The Ford Meter Box Company, Inc.

# Ford<sup>®</sup> Product Guide

## 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.

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

### Please Note:

Consult the Ford Meter Box Company, Inc. website ([www.fordmeterbox.com](http://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.

**Parties responsible for monitoring and maintaining proper water system design must exercise full responsibility in understanding and upholding the full intent and scope of applicable lead laws.**



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