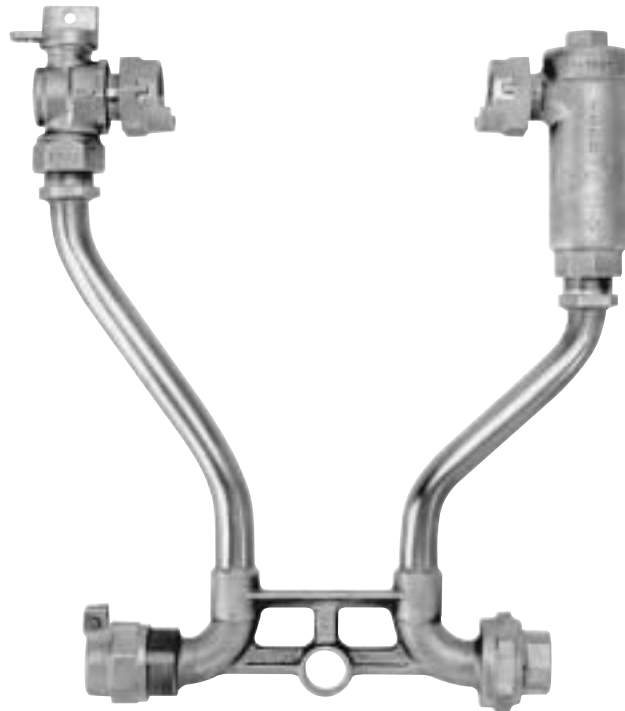


# Section F

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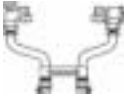
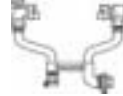







# Ford Coppersetters, Linesetters, and Resetters

All Ford Meter Setters are assembled using lead-free solder.



**The Ford Meter Box Co., Inc.** 775 Manchester Avenue, P.O. Box 443, Wabash, Indiana, USA 46992-0443  
Telephone: 219/563-3171 FAX: 1-800-826-3487 Overseas FAX: 219/563-0167 <http://www.fordmeterbox.com>

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# Information

## Features of Ford Coppersettors, Linesettors, and Resettors

**Valve Options** - The valve on the riser of a Coppersetter, Linesetter or Resetter serves as a curb stop. An inverted key valve is available; however, angle ball valves may be specified and provide many advantages. Padlock wings are standard on all Ford meter valves (key and ball styles).



Angle Ball Valve

### All Ford Meter Setters are assembled using lead-free solder.

Coppersettors, Linesettors, and Resettors are complete meter setting devices, easily installed and providing these permanent benefits.

- Meter reading is expedited
- Pressure loss is minimized
- Meter changes are quick and do not disturb the service line
- There are cost savings in couplings, valves, pipe fittings and labor and Retro fitting a check valve for backflow prevention is quick and easy

Coppersettors and Linesettors are for new meter installations and place meters from 3" or more above the service line. They are made in several types, for connection into new or existing service lines. Resettors connect between old meter couplings to raise and improve meter settings.



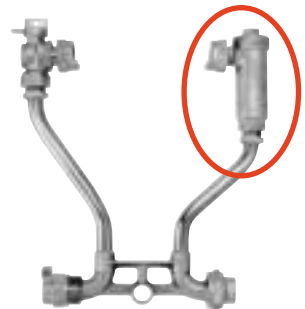
**Dual Angle Check Valves** are available on Ford setters and resettors for meters through 2". Cartridge Style Dual Angle Check Valves are available through 1". Located at the outlet of the meter, they are practical and inexpensive solutions to several potential backflow problems.

Pit flooding during meter changeouts is prevented, as well as hot water damage to meter chambers. In the event of a utility system pressure drop some protection is afforded from cross-connection contamination, and raw water infiltration from customer well systems is minimized.

Checks are spring loaded, of brass, plastic and stainless steel construction, and have a removable top or back cap for in-line maintenance purpose.

A single angle check valve can also be specified and ordered on any Ford Setter or Resetter. Check Valves are available as outlet valves. Ford is THE choice of Dual Checks for Water Utilities. Only Ford offers these important advantages:

- The first full line of ASSE approved Dual Checks designed for use at the water meter
- The first full line of ASSE approved Dual Checks with removable access caps for easy maintenance
- The first ASSE approved Dual Checks available as integral parts of Coppersettors, Resettors and Yokes

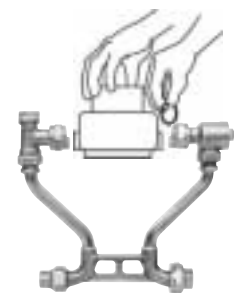


Cartridge Dual Check Valve  
U.S. PAT. NO. 5148828



**Saddle Nuts** - "As good as an extra hand in the meter box" is the way one waterworks man describes Saddle Nuts. This feature provides supporting lips on the coupling nuts to hold the meter when it is lowered into position. Threads in the nuts are automatically lined up with the meter spuds for easy starting. Gaskets are held in place and prevented from dropping while the nuts are started. Saddle Nuts save time, trouble and gaskets with each meter change.

Saddle Nuts are included with all 5/8" through 1" Ford Coppersettors and Resettors as a free and valuable bonus. Support Brackets included on 1-1/2" and 2" Coppersettors and Resettors provide similar advantages by holding the flanged meter and gasket in place while the flange bolts are inserted and tightened.



A **Compression Valve** is available on Coppersettors. It is normally placed at the outlet and is convenient for customer operation.



Compression Valve

A **Drain or Test Valve** for checking meter performance or draining service lines can be included at the outlet of plain or single valve Coppersettors and Resettors. The Drain Valve consists of a bronze body with a bronze screw seating on a plastic washer to prevent leakage.



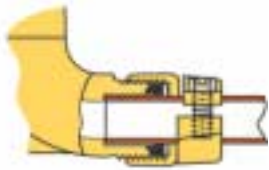
Drain or Test Valve

# Information

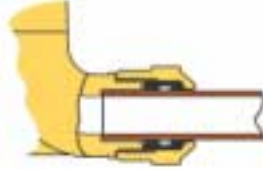
## Features of Ford Coppersetters, Linesetters, and Resetters Service Line Connections

Coppersetters are available with connections for a wide range of types and sizes of pipe and tubing. Note the convenience of Pack Joints, Grip Joints and Quick Joints for existing services and for many new settings. Both Coppersetters and Resetters can be tailored to special conditions. It is a privilege to assist in solving unusual problems.

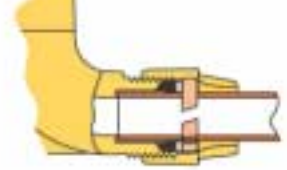
### Pack Joint, Quick Joint and Grip Joint Compression Connections



Pack Joint compression coupling for Copper, PET, PEP and PVC

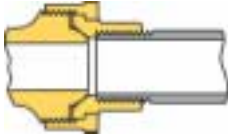


Quick Joint compression coupling for Copper, PET and PEP

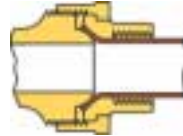


Grip Joint compression coupling for Copper, PET and PEP

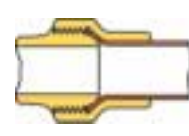
### Double Purpose and Flare Connections



The Double Purpose Coupling as used for connection to iron pipe

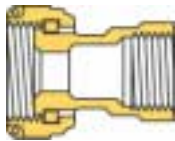


The Double Purpose Coupling as used for flare-type connection to copper.

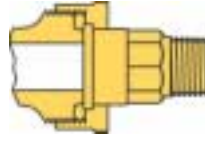


Flare Joint for connection to copper tubing.

### Swivel Iron Pipe Thread Connections



Union Nut and FIP Swivel Assembly for connecting smaller Coppersetters to 1" Iron Pipe



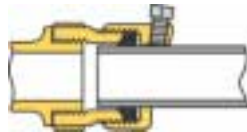
The Male Swivel is convenient for connecting to a curb stop.

### MIP Connections

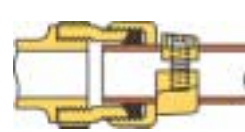


Integral Male Iron Pipe Thread (No Swivel)

### 270 Series Compression Connections



Pack Joint compression coupling for Iron Pipe



Pack Joint compression coupling for copper, PET, PEP and PVC

## GASKETS

Rubber gaskets are furnished with all Coppersetters. Copper clad gaskets are standard with all Resetters for connecting the bottom bar between the old meter couplings. Leather and Composition gaskets are available upon request.

### GASKETS FOR COPPERSETTERS LINESETTERS - RESETTERS

CATALOG NUMBER	MATERIAL	METER SIZE	DIAMETER		THICKNESS
			OUTSIDE	INSIDE	
GT-109	Composition	5/8"	15/16"	41/64"	1/8"
GT-116		5/8"x3/4" & 3/4"	1-5/32"	25/32"	1/8"
GT-121		1"	1-1/2"	1-1/16"	1/8"
GT-167	Leather (paraffined)	5/8"	15/16"	5/8"	1/8"
GT-113		5/8"x3/4" & 3/4"	1-3/16"	3/4"	1/8"
GT-163		1"	1-1/2"	1"	1/8"
GT-108	Rubber	5/8"	15/16"	5/8"	1/8"
GT-114		5/8"x3/4" & 3/4"	1-5/32"	3/4"	1/8"
GT-120		1"	1-1/2"	1"	1/8"
GT-169	Copper Clad (for Resetters)	5/8"	7/8"	5/8"	1/8"
GT-172		5/8"x3/4" & 3/4"	1-3/16"	27/32"	1/8"
GT-174		1"	1-7/16"	1-1/16"	1/8"

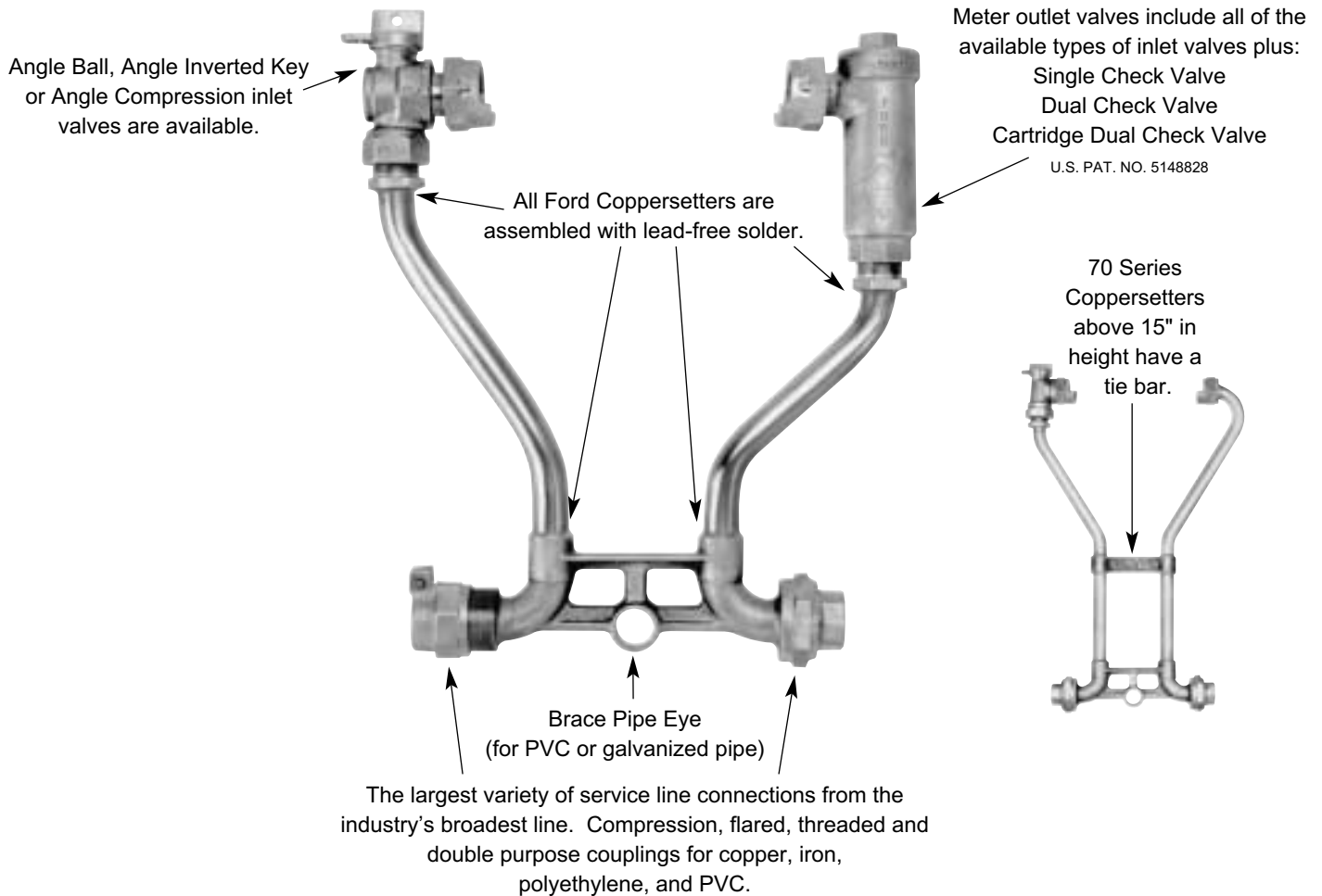
# The Ford 70 Series Coppersetter

**For 5/8", 5/8"x3/4", 3/4" or 1" Meter Size**

Ford 70 series Coppersetters are designed to be a complete ready made meter setting. They require only two pipe joints to install and will connect to horizontal service lines. 70 Series Coppersetters are made in various heights to place the meter at the proper elevation for convenient reading and servicing. Correct hydraulic design assures minimum pressure loss; copper and brass construction provides a lifetime of satisfactory service.

**To order:** Select one catalog number component from each of the three charts on pages 8 and 9 to arrive at the complete Coppersetter catalog number. Selection order of components:

1. Meter size and valve type . . . . . page 8
2. Coppersetter height . . . . . page 8
3. Service line connections . . . . . page 9



70 AND 270 SERIES COPPERSETTER TIE BAR USAGE				
COPPERSETTER HEIGHT	METER SIZE			
	5/8", 5/8"x3/4", & 3/4"		1"	
	WITHOUT *HHCA	WITH *HHCA	WITHOUT *HHCA	WITH *HHCA
15" & Under	NO	NO	NO	NO
18"	YES	NO	NO	NO
21"	YES	YES	YES	NO
24" thru 39"	YES	YES	YES	YES
42" and higher	YES (2)**	YES (2)**	YES (2)**	YES (2)**

\* HHCA represents a cartridge style dual check valve, which is designated with an "HC" in the coppersetter catalog number.

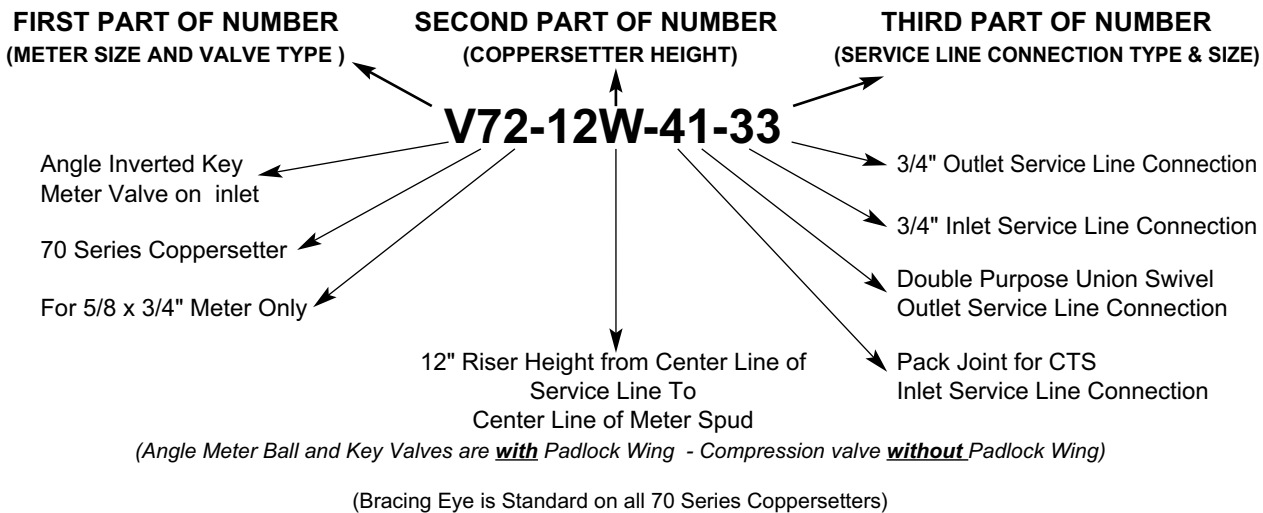
**Example:** VHC 72-15W-44-33.

\*\*The Second Tie Bar is an Extra Cost.

# The Ford 70 Series Coppersetter

For 5/8", 5/8"x3/4", 3/4" or 1" Meter Size

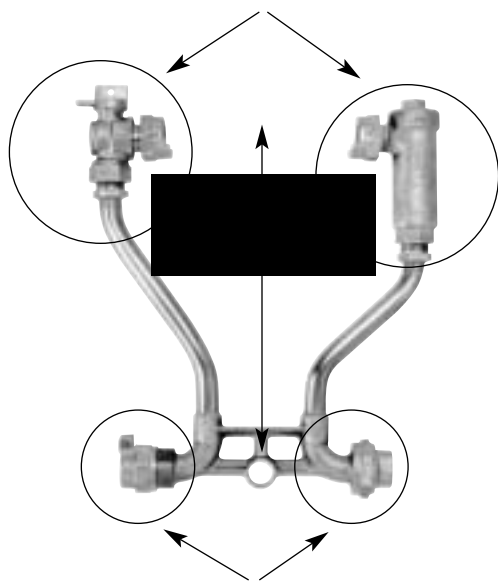
## Example of Catalog Number for a 70 Series Coppersetter



The description for the above catalog number reads: 70 Series Coppersetter for 5/8" x 3/4" meter with an angle inverted key meter valve on the inlet, 12 inches high, with 3/4" Pack Joint for CTS inlet by 3/4" double purpose union swivel outlet.

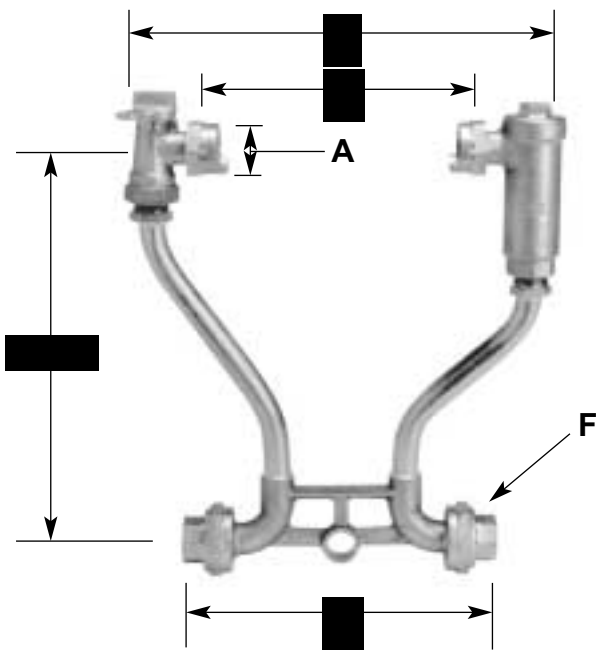
## Catalog Numbering

**METER SIZE & VALVE TYPE**  
1ST PART OF CATALOG NUMBER



**SERVICE LINE CONNECTIONS**  
3RD PART OF CATALOG NUMBER

## Dimensions

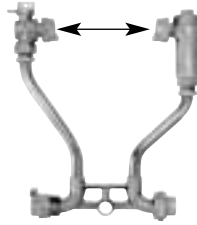


DIMENSIONS	METER SIZES			
	5/8"	5/8" x 3/4"	3/4"	1"
A	1-1/16"	1-5/16"	1-5/16"	1-5/8"
B	9-1/2"	9-1/2"	11"	12-3/4"
C	Heights as ordered in all sizes			
D	7-1/2"+3/8"	7-1/2"+3/8"	9"+3/8"	10-3/4"+3/8"
E	12"	12"	14-1/4"	17-1/4"
F	3/4"	3/4"	3/4"	1"

# The Ford 70 Series Coppersetter

For 5/8", 5/8"x3/4", 3/4" or 1" Meter Size

## METER SIZE & VALVE TYPE - (FIRST PART OF CATALOG NUMBER)



CATALOG NUMBER (METER SIZE AND VALVE TYPE)				DESCRIPTION (METER CONNECTION)	
FOR 5/8"	FOR 5/8"x 3/4"	FOR 3/4"	FOR 1"	INLET VALVE	OUTLET VALVE
71	72	73	74	none	none
V71	V72	V73	V74	Key	none
VB71	VB72	VB73	VB74	Ball	none
VV71	VV72	VV73	VV74	Key	Key
VVG71*	VVG72*	VVG73*	VVG74*	Key	Compression
VH71	VH72	VH73	VH74	Key	Single check
VHH71	VHH72	VHH73	VHH74	Key	Dual check
VHC71	VHC72	VHC73	VHC74	Key	Cartridge dual check
VBH71	VBH72	VBH73	VBH74	Ball	Single check
VBHH71	VBHH72	VBHH73	VBHH74	Ball	Dual check
VBHC71	VBHC72	VBHC73	VBHC74	Ball	Cartridge dual check

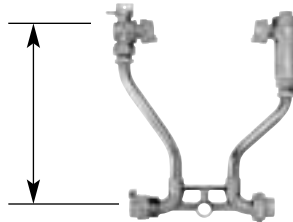
\* Compression valve does not have padlock wing

### METER VALVE OPTIONS FOR 70 SERIES COPPERSETTERS

Seal Wire Hole in Inlet Valve  
Seal Wire Hole in Check Valve

## HEIGHT - (SECOND PART OF CATALOG NUMBER)

NOTE: Height dimensions are approximate.



### For 5/8" and 5/8"x3/4" Meter

CATALOG NUMBER	HEIGHT IN INCHES
7W	7
9W	9
12W	12
15W	15
18W	18
21W	21
24W	24

### For 3/4" Meter

CATALOG NUMBER	HEIGHT IN INCHES
8W	8
12W	12
15W	15
18W	18
21W	21
24W	24

### For 1" Meter

CATALOG NUMBER	HEIGHT IN INCHES
10W	10
12W	12
15W	15
18W	18
21W	21
24W	24

**Note:** 70 Series Coppersetters with cartridge dual check valve have a 9" minimum height for 5/8" and 5/8" x 3/4" meters, 12" minimum height for 3/4" meters and 15" minimum height for 1" meters.

**Note:** See table on page 6 for Tie Bar usage.

### HEIGHT OPTION FOR 70 SERIES COPPERSETTERS

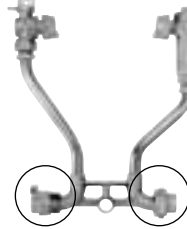
Coppersetters are available in heights over 24" in 3" increments; 27", 30", 33" etc. To order put desired height in catalog number.

EXAMPLE: V72-33W-11-33 is a 33" high setter.

# The Ford 70 Series Coppersetter

For 5/8", 5/8"x3/4", 3/4" or 1" Meter Size

## INLET & OUTLET SERVICE LINE CONNECTIONS - (THIRD PART OF CATALOG NUMBER)



CATALOG NUMBER	DESCRIPTION	
	INLET CONNECTION	OUTLET CONNECTION
<b>Pack Joint by Pack Joint</b>		
◆ 44-33	3/4" P.J. for Copper or Plastic Tubing (CTS)*	3/4" P.J. for Copper or Plastic Tubing (CTS)*
** 44-43	1" P.J. for Copper or Plastic Tubing (CTS)*	3/4" P.J. for Copper or Plastic Tubing (CTS)*
◆** 44-44	1" P.J. for Copper or Plastic Tubing (CTS)*	1" P.J. for Copper or Plastic Tubing (CTS)*
** 46-33	3/4" P.J. for Copper or Plastic Tubing (CTS)*	3/4" P.J. for PE Pipe*
** 46-44	1" P.J. for Copper or Plastic Tubing (CTS)*	1" P.J. for PE Pipe*
** 47-33	3/4" P.J. for Copper or Plastic Tubing (CTS)*	3/4" P.J. for PVC Pipe
** 47-44	1" P.J. for Copper or Plastic Tubing (CTS)*	1" P.J. for PVC Pipe
◆** 66-33	3/4" P.J. for PE Pipe*	3/4" P.J. for PE Pipe*
** 66-44	1" P.J. for PE Pipe*	1" P.J. for PE Pipe*
** 67-44	1" P.J. for PE Pipe*	1" P.J. for PVC Pipe
** 76-44	1" P.J. for PVC Pipe	1" P.J. for PE Pipe*
** 77-33	3/4" P.J. for PVC Pipe	3/4" P.J. for PVC Pipe
** 77-44	1" P.J. for PVC Pipe	1" P.J. for PVC Pipe
<b>Pack Joint by Iron Pipe and Double Purpose</b>		
16-33	3/4" Female Iron Pipe Union Swivel	3/4" P.J. for PE Pipe*
17-33	3/4" Female Iron Pipe Union Swivel	3/4" P.J. for PVC Pipe
◆ 41-33	3/4" P.J. for Copper or Plastic Tubing (CTS)*	3/4" Double Purpose
** 41-43	1" P.J. for Copper or Plastic Tubing (CTS)*	3/4" Double Purpose Union Swivel
◆** 41-44	1" P.J. for Copper or Plastic Tubing (CTS)*	1" Double Purpose Union Swivel
** 48-44	1" P.J. for Copper or Plastic Tubing (CTS)*	1" Male Iron Pipe Union Swivel
4M-33	3/4" P.J. for Copper or Plastic Tubing (CTS)*	3/4" Integral Male Iron Pipe Thread
** 61-33	3/4" P.J. for PE Pipe*	3/4" Female Iron Pipe Union Swivel
*** 61-44	1" P.J. for PE Pipe *	1" Double Purpose Union Swivel
** 71-33	3/4" P.J. for PVC Pipe	3/4" Double Purpose Union Swivel
*** 71-44	1" P.J. for PVC Pipe	1" Double Purpose Union Swivel
** 78-33	3/4" P.J. for PVC Pipe	3/4" Male Iron Pipe Union Swivel
<b>Double Purpose, Iron Pipe and Flare Copper</b>		
11-33	3/4" Double Purpose Union Swivel	3/4" Double Purpose Union Swivel
11-44	1" Double Purpose Union Swivel	1" Double Purpose Union Swivel
*** FF-55	1-1/4" Female Iron Pipe Union Swivel	1-1/4" Female Iron Pipe Union Swivel
12-44	1" Double Purpose Union Swivel	1" Flare Copper
18-33	3/4" Double Purpose Union Swivel	3/4" Male Iron Pipe Union Swivel
18-44	1" Double Purpose Union Swivel	1" Male Iron Pipe Union Swivel
21-33	3/4" Flare Copper	3/4" Double Purpose Union Swivel
21-44	1" Flare Copper	1" Double Purpose Union Swivel
22-33	3/4" Flare Copper	3/4" Flare Copper
22-44	1" Flare Copper	1" Flare Copper
28-44	1" Flare Copper	1" Male Iron Pipe Union Swivel
81-33	3/4" Male Iron Pipe Union Swivel	3/4" Double Purpose Union Swivel
81-43	1" Male Iron Pipe Union Swivel	3/4" Double Purpose Union Swivel
81-44	1" Male Iron Pipe Union Swivel	1" Double Purpose Union Swivel
82-44	1" Male Iron Pipe Union Swivel	1" Flare Copper
88-33	3/4" Male Iron Pipe Union Swivel	3/4" Male Iron Pipe Union Swivel
88-44	1" Male Iron Pipe Union Swivel	1" Male Iron Pipe Union Swivel
*** 88-55	1-1/4" Male Iron Pipe Union Swivel	1-1/4" Male Iron Pipe Union Swivel
** FF-33	3/4" Integral Female Iron Pipe	3/4" Integral Female Iron Pipe
FF-44	1" Female Iron Pipe Union Swivel	1" Female Iron Pipe Union Swivel
MM-33	3/4" Integral Male Iron Pipe	3/4" Integral Male Iron Pipe
*** MM-44	1" Integral Male Iron Pipe	1" Integral Male Iron Pipe
*** MM-55	1-1/4" Integral Male Iron Pipe	1-1/4" Integral Male Iron Pipe
*** MM-66	1-1/2" Integral Male Iron Pipe	1-1/2" Integral Male Iron Pipe

\* Grip Joint for CTS (all sizes) and P.E. pipe (3/4" & 1") is available. Add "-G" to the catalog number. Example: V72-12W-41-33-G

\*\* These couplings are NOT available on 3/4", V73 Series Coppersettors (with 15/16" O.D. copper tubing). Use V72 Series with 3/4" meter spacing.

\*\*\* These connections are available on 1", V74 Series Coppersettors only.

**NOTE:** Ford Pack Joints for PVC are recommended for Schedule 40 and Schedule 80 pipe only.

◆ Quick Joint is available. Add "-Q" to the end of this catalog number. The 1" Quick Joint Connections are for 1" Meter Setters only.



# The Ford 270 Series Coppersetter

For 5/8", 5/8"x3/4", 3/4" or 1" Meter Size

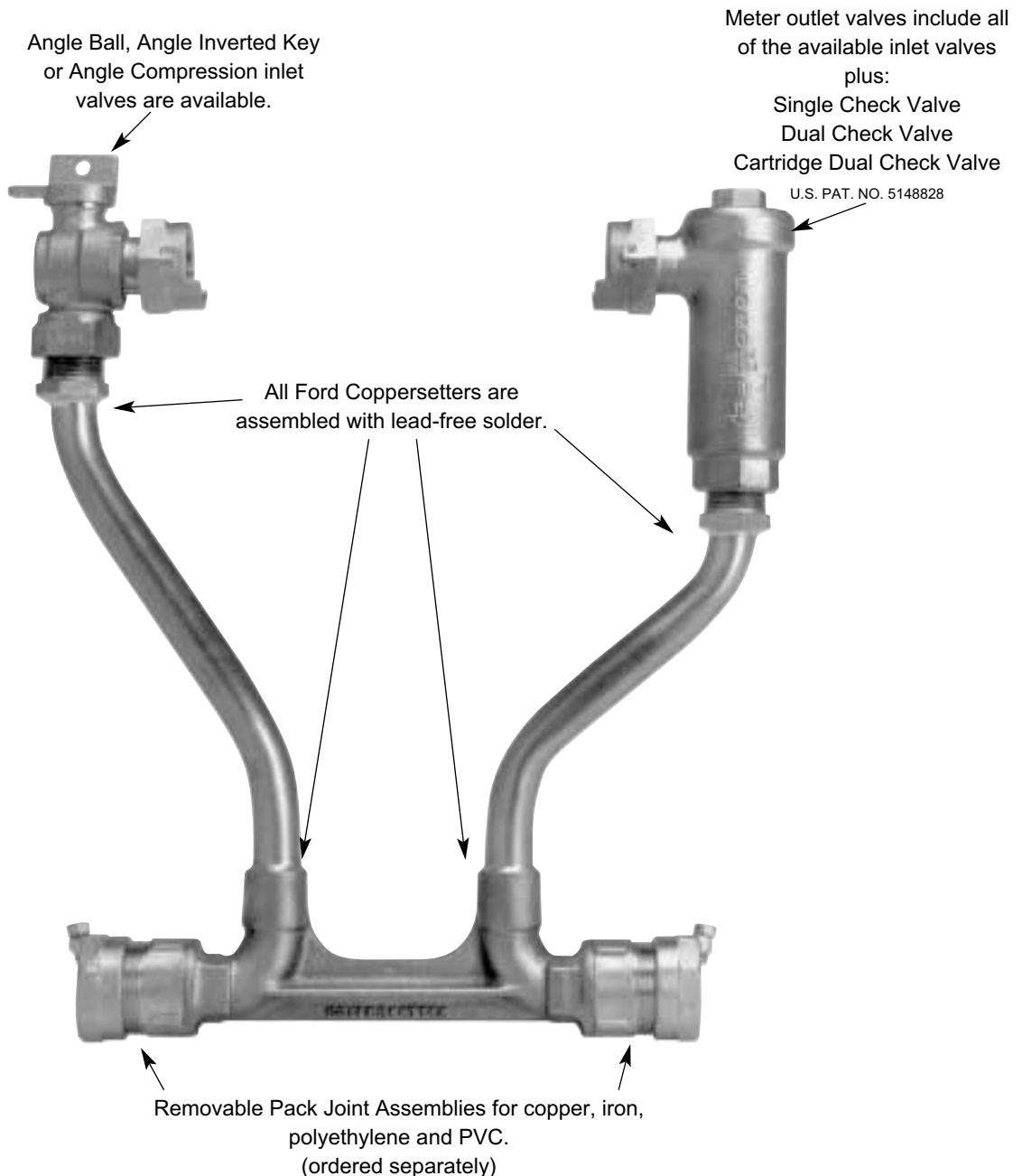
With removable Pack Joint (Pack Joint Assemblies ordered separately)

The 270 Series Coppersetters, with removable Pack Joint Assemblies, save time and expense when water meters are set outside in existing service lines. Threading of old iron pipe or flaring of brittle copper tubing is not required. Pack Joint Assemblies are interchangeable and available for all types of service pipe, a great help in metering programs where conditions are unknown until the pits are dug.

**To order:** Select one Catalog Number component from each of the two charts on page 12 to arrive at the complete Coppersetter Catalog Number. Additionally, service line connections are removable Pack Joint Assemblies and are ordered and priced separately. Selection order of components:

1. Meter size and valve type . . . . . page 12
2. Coppersetter height . . . . . page 12

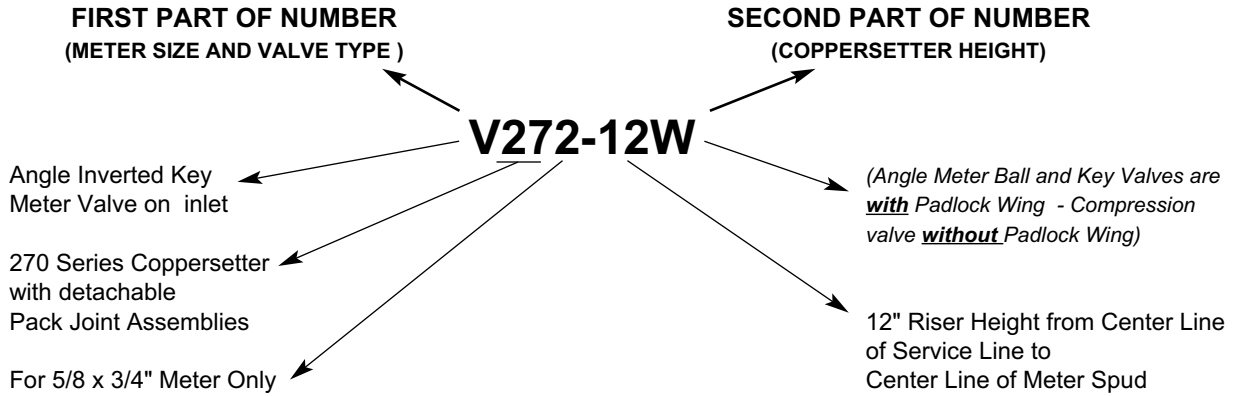
Service line connections (removable Pack Joint Assemblies). . . page 13



# The Ford 270 Series Coppersetter

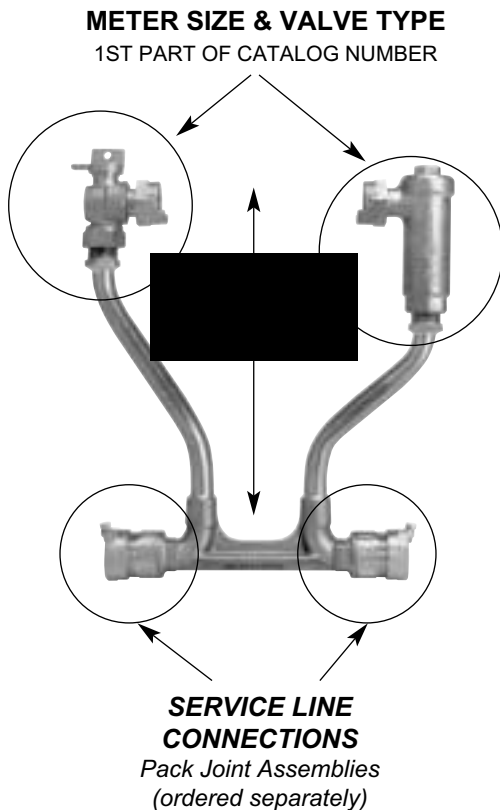
For 5/8", 5/8"x3/4", 3/4" or 1" Meter Size  
 With removable Pack Joint (Pack Joint Assemblies ordered separately)

## Example of Catalog Number for a 270 Series Coppersetter

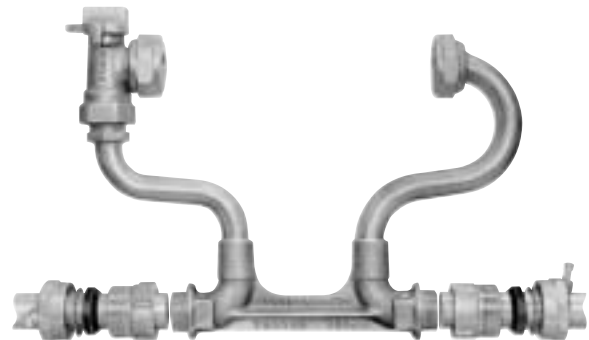


The description for the above catalog number reads: A 12 inch high 270 Series Coppersetter for 5/8 x 3/4" meter with an angle inverted key meter valve inlet.

## Catalog Numbering



## Installation



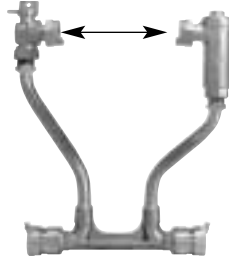
Quick and simple installation involves cutting out a section of service line about 1/2" longer than the Coppersetter bar, cleaning about 3" of pipe ends and slipping Pack Joint Assemblies onto pipe (as shown in photo above). The Pack Joint Assemblies are then screwed tightly onto the bar, nuts tightened and locked into place. The complete setting, made in minutes, is tight on old and pitted iron pipe or on old and brittle copper.

# The Ford 270 Series Coppersetter

For 5/8", 5/8"x3/4", 3/4" or 1" Meter Size

With removable Pack Joint (Pack Joint Assemblies ordered separately)

## METER SIZE & VALVE TYPE - (FIRST PART OF CATALOG NUMBER)



CATALOG NUMBER (METER SIZE AND VALVE TYPE)				DESCRIPTION	
For 5/8"	For 5/8"x 3/4"	For 3/4"	For 1"	INLET VALVE	OUTLET VALVE
271	272	273	274	none	none
V271	V272	V273	V274	Key	none
VB271	VB272	VB273	VB274	Ball	none
VV271	VV272	VV273	VV274	Key	Key
VVG271*	VVG272*	VVG273*	VVG274*	Key	Compression
VH271	VH272	VH273	VH274	Key	Single check
VHH271	VHH272	VHH273	VHH274	Key	Dual check
VHC271	VHC272	VHC273	VHC274	Key	Cartridge dual check
VBH271	VBH272	VBH273	VBH274	Ball	Single check
VBHH271	VBHH272	VBHH273	VBHH274	Ball	Dual check
VBHC271	VBHC272	VBHC273	VBHC274	Ball	Cartridge dual check

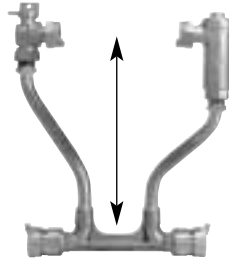
\* Compression valve does not have padlock wing

### METER VALVE OPTIONS FOR 270 SERIES COPPERSETTERS

- Seal Wire Hole in Inlet Valve
- Seal Wire Hole in Check Valve

## HEIGHT - (SECOND PART OF CATALOG NUMBER)

NOTE: Height dimensions are approximate.



### For 5/8" and 5/8"x3/4" Meter

CATALOG NUMBER	HEIGHT IN INCHES
7W	7
9W	9
12W	12
15W	15
18W	18
21W	21
24W	24

### For 3/4" Meter

CATALOG NUMBER	HEIGHT IN INCHES
8W	8
12W	12
15W	15
18W	18
21W	21
24W	24

### For 1" Meter

CATALOG NUMBER	HEIGHT IN INCHES
10W	10
12W	12
15W	15
18W	18
21W	21
24W	24

Note: 270 Series Coppersetters with cartridge dual check valve have a 9" minimum height for 5/8" and 5/8" x 3/4" meters, 12" minimum height for 3/4" meters and 15" minimum height for 1" meters.

### HEIGHT OPTION FOR 270 SERIES COPPERSETTERS

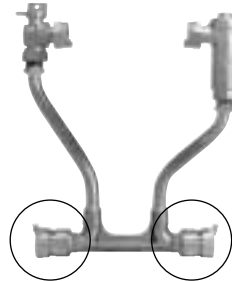
Coppersetters are available in heights over 24" in 3" increments; 27", 30", 33" etc. To order put desired height in catalog number.

EXAMPLE: V272-30W-11-33 is a 30" high setter.

# The Ford 270 Series Coppersetter

For 5/8", 5/8"x3/4", 3/4" or 1" Meter Size  
With removable Pack Joint (Pack Joint Assemblies ordered separately)

## PACK JOINT ASSEMBLIES FOR 270 SERIES COPPERSETTERS INLET & OUTLET SERVICE LINE CONNECTIONS



Pack Joint Assemblies  
(ordered separately)  
**Service line  
Connections**

CATALOG NUMBER	DESCRIPTION	
	SIZE AND TYPE OF EXISTING PIPE	P.J. ASSEMBLY REQUIRED
◆ PJA4-11	1/2" Copper or Plastic Tube	1/2" Pack Joint for Copper or Plastic Tubing (CTS)*
◆ PJA4-13	3/4" Copper or Plastic Tube	3/4" Pack Joint for Copper or Plastic Tubing (CTS)*
PJA4-14	1" Copper or Plastic Tube	1" Pack Joint for Copper or Plastic Tubing (CTS)*
PJA4-15	1-1/4" Copper or Plastic Tube	1-1/4" Pack Joint for Copper or Plastic Tubing (CTS)*
** PJA4-16-AWT	1-1/2" Copper or Plastic Tube	1-1/2" Pack Joint for Copper or Plastic Tubing (CTS)*
*** PJA4-44-C14-54	1" Copper or Plastic Tube	1" Pack Joint for Copper or Plastic Tubing (CTS)*
*** PJA4-45	1-1/4" Copper or Plastic Tube	1-1/4" Pack Joint for Copper or Plastic Tubing (CTS)*
*** PJA4-46-C14-56	1-1/2" Copper or Plastic Tube	1-1/2" Pack Joint for Copper or Plastic Tubing (CTS)*
PJA5-11	1/2" Iron Pipe	1/2" Pack Joint for Iron Pipe
PJA5-13	3/4" Iron Pipe	3/4" Pack Joint for Iron Pipe
PJA5-14	1" Iron Pipe	1" Pack Joint for Iron Pipe
PJA5-15	1-1/4" Iron Pipe	1-1/4" Pack Joint for Iron Pipe
** PJA5-16-AWT	1-1/2" Iron Pipe	1-1/2" Pack Joint for Iron Pipe
*** PJA5-44-C15-54	1" Iron Pipe	1" Pack Joint for Iron Pipe
*** PJA5-45-C15-55	1 1/4" Iron Pipe	1-1/4" Pack Joint for Iron Pipe
*** PJA5-46-C15-56	1 1/2" Iron Pipe	1-1/2" Pack Joint for Iron Pipe
PJA6-13	3/4" Polyethylene Pipe	3/4" Pack Joint for P.E. Pipe*
PJA6-14	1" Polyethylene Pipe	1" Pack Joint for P.E. Pipe*
** PJA6-15-AWT	1-1/4" Polyethylene Pipe	1-1/4" Pack Joint for P.E. Pipe
** PJA6-16-IDR7-AWT	1-1/2" Polyethylene Pipe	1-1/2" Pack Joint for P.E. Pipe
*** PJA6-44	1" Polyethylene Pipe	1" Pack Joint for P.E. Pipe*
*** PJA6-45-C16-55	1-1/4" Polyethylene Pipe	1-1/4" Pack Joint for P.E. Pipe
*** PJA6-46-C16-56IDR7	1-1/2" Polyethylene Pipe	1-1/2" Pack Joint for P.E. Pipe
PJA7-11	1/2" PVC Pipe	1/2" Pack Joint for PVC Pipe
PJA7-13	3/4" PVC Pipe	3/4" Pack Joint for PVC Pipe
PJA7-14	1" PVC Pipe	1" Pack Joint for PVC Pipe
PJA7-15	1-1/4" PVC Pipe	1-1/4" Pack Joint for PVC Pipe
** PJA7-16-AWT	1-1/2" PVC Pipe	1-1/2" Pack Joint for PVC Pipe
*** PJA7-44	1" PVC Pipe	1" Pack Joint for PVC Pipe
*** PJA7-45-C17-55	1-1/4" PVC Pipe	1-1/4" Pack Joint for PVC Pipe
*** PJA7-46	1-1/2" PVC Pipe	1-1/2" Pack Joint for PVC Pipe

\* Grip Joint for CTS (all sizes) and P.E. pipe (3/4" & 1") is available. Add "-G" to the catalog number. Example: PJA4-13-G

\*\* These items are not one piece but are two adapter pieces assembled water tight.

\*\*\* These pack joint assemblies are for 1" 274 Series Coppersetters only.

◆ Quick Joint is available. Add "-Q" to the end of this catalog number.

### ADDITIONAL OPTIONS FOR 270 SERIES COPPERSETTERS

Support assembly clamp (5/8", 5/8"x3/4" and 3/4" sizes only) catalog number: SAC

**NOTE:** Ford Pack Joints for PVC are recommended for Schedule 40 and Schedule 80 pipe only.

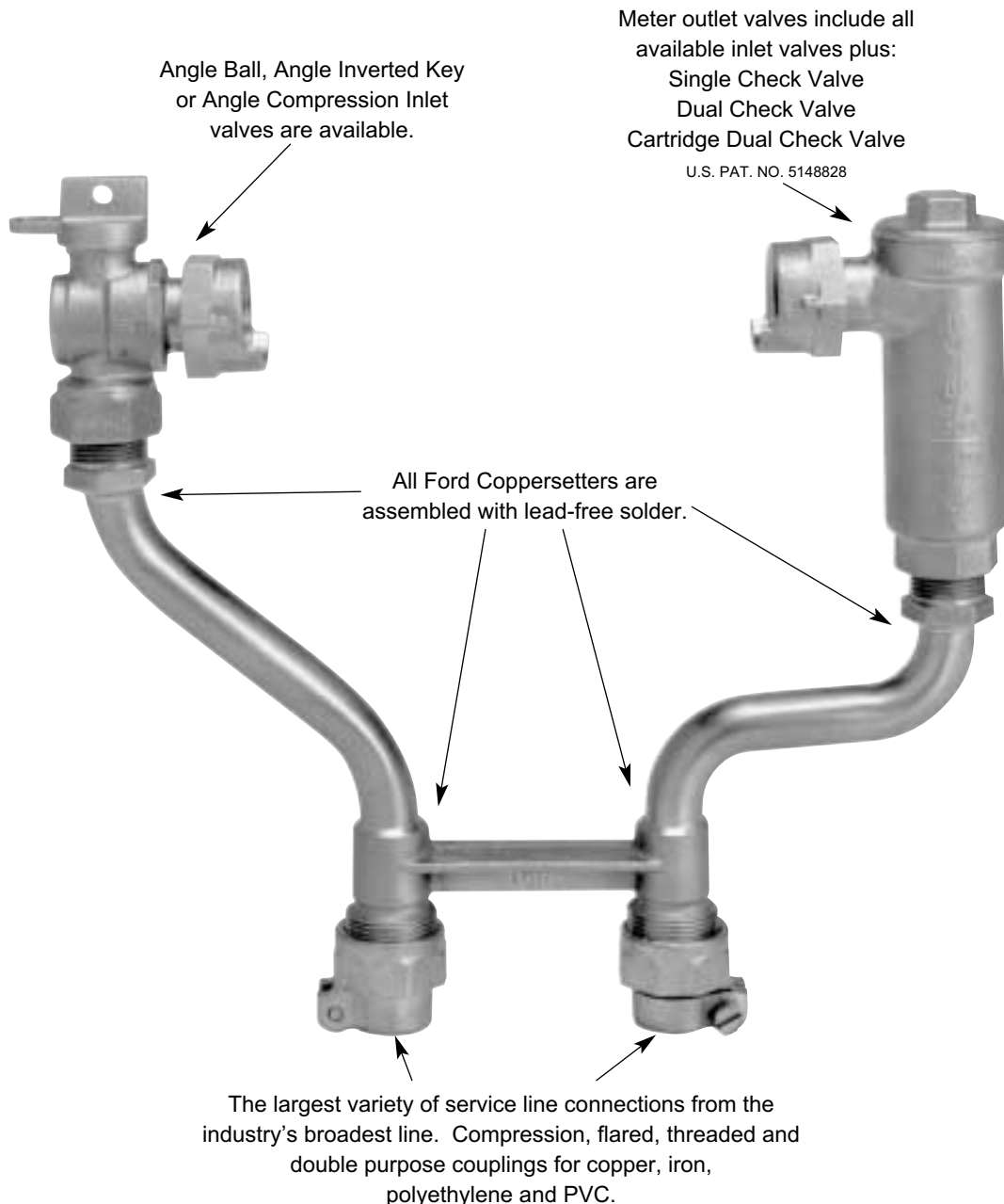
# The Ford 80 Series Coppersetter

**For 5/8", 5/8"x3/4", 3/4" or 1" Meter Size  
Vertical inlet and outlet**

The Ford 80 Series Coppersetter offers economy and flexibility by allowing the utility to construct meter pit risers from various service line materials, cut to any height. The 80 Series setters connect directly to these risers, without elbows or pressure reducing bends, by means of a wide variety of service line connections. All standard Coppersetter valve options, including Dual or Single Check Valves, are available on the 80 Series.

**To order:** Select one Catalog Number component from each of two charts on pages 16 and 17 to arrive at the complete Coppersetter Catalog Number. Selection order of components:

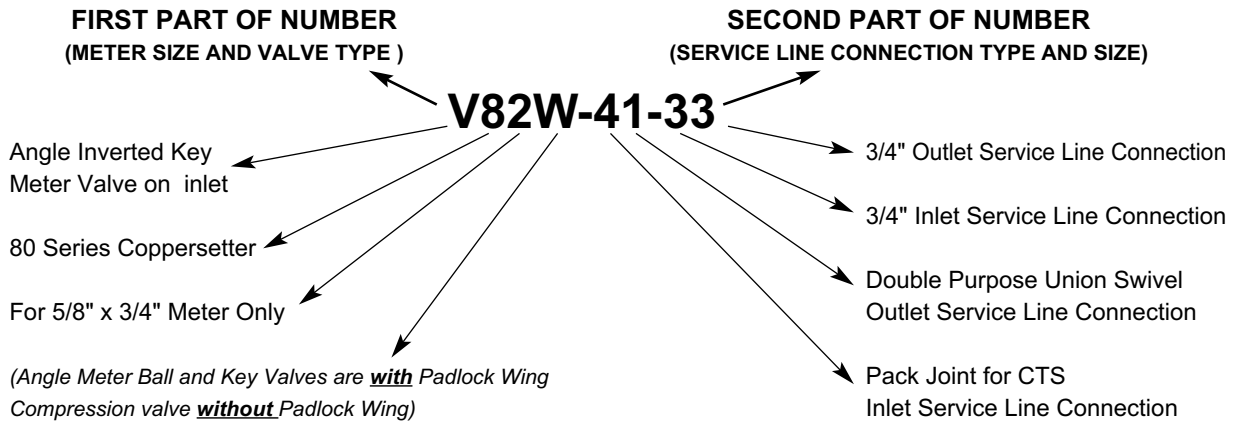
1. Meter size and valve type . . . . . page 16
2. Service line connections . . . . . page 17



# The Ford 80 Series Coppersetter

For 5/8", 5/8"x3/4", 3/4" or 1" Meter Size  
Vertical inlet and outlet

## Example of Catalog Number for an 80 Series Coppersetter



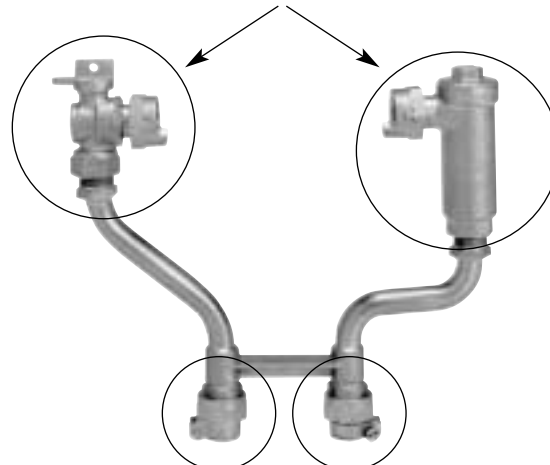
Height for 5/8" & 5/8" x 3/4" meter is 7", for 3/4" meter 9", and for 1" meter 10"

The description for the above catalog number reads: 80 Series Coppersetter for 5/8" x 3/4" meter with an Angle Inverted Key Meter Valve on the inlet, with 3/4" Pack Joint for CTS inlet by 3/4" double purpose union swivel outlet service line connections.

## Catalog Numbering

### METER SIZE & VALVE TYPE

1ST PART OF CATALOG NUMBER



### SERVICE LINE CONNECTIONS

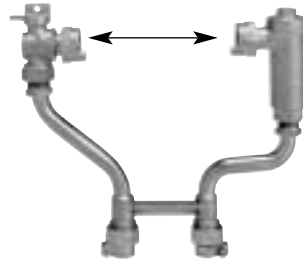
2ND PART OF CATALOG NUMBER

Height - 80 Series  
Coppersettors are made to  
the "standard" heights  
indicated above

# The Ford 80 Series Coppersetter

For 5/8", 5/8"x3/4", 3/4" or 1" Meter Size  
Vertical inlet and outlet

## METER SIZE & VALVE TYPE - (FIRST PART OF CATALOG NUMBER)



CATALOG NUMBER (METER SIZE AND VALVE TYPE)				DESCRIPTION	
FOR 5/8"	FOR 5/8"x 3/4"	FOR 3/4"	FOR 1"	INLET VALVE	OUTLET VALVE
V81	V82	V83	V84	Key	none
VB81	VB82	VB83	VB84	Ball	none
VVG81*	VVG82*	VVG83*	VVG84*	Key	Compression
VV81	VV82	VV83	VV84	Key	Key
VH81	VH82	VH83	VH84	Key	Single check
VHH81	VHH82	VHH83	VHH84	Key	Dual check
VHC81	VHC82	VHC83	VHC84	Key	Cartridge dual check
VBH81	VBH82	VBH83	VBH84	Ball	Single check
VBHH81	VBHH82	VBHH83	VBHH84	Ball	Dual check
VBHC81	VBHC82	VBHC83	VBHC84	Ball	Cartridge dual check

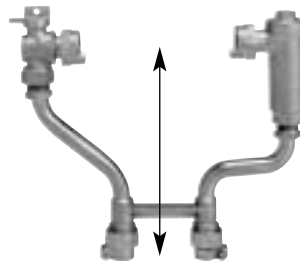
\* Compression valve does not have padlock wing

### METER VALVE OPTIONS FOR 80 SERIES COPPERSETTERS

Seal Wire Hole in Inlet Valve  
Seal Wire Hole in Check Valve

## HEIGHT - 80 SERIES COPPERSETTERS ARE MADE TO "STANDARD" HEIGHTS

NOTE: Height dimensions are approximate.



81 Series Coppersetter  
for 5/8" Meter  
and

82 Series Coppersetter  
for 5/8"x3/4" Meter

HEIGHT IS 7"  
13/16" O.D. TUBING

83 Series Coppersetter  
for 3/4" Meter

HEIGHT IS 9"  
15/16" O.D. Tubing

84 Series Coppersetter  
for 1" Meter

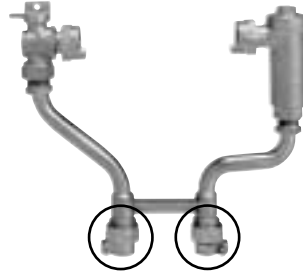
HEIGHT IS 10"  
1-1/8" O.D. Tubing

Note: 80 Series Coppersettors with cartridge dual check valve have a 9" minimum height for 5/8" and 5/8" x 3/4" meters, 12" minimum height for 3/4" meters and 15" minimum height for 1" meters.

# The Ford 80 Series Coppersetter

For 5/8", 5/8"x3/4", 3/4" or 1" Meter Size  
Vertical inlet and outlet

## INLET & OUTLET SERVICE LINE CONNECTIONS - (SECOND PART OF CATALOG NUMBER)



CATALOG NUMBER	DESCRIPTION	
	INLET CONNECTION	OUTLET CONNECTION
11-33	3/4" Double Purpose Union Swivel	3/4" Double Purpose Union Swivel
11-44	1" Double Purpose Union Swivel	1" Double Purpose Union Swivel
***11-55	1-1/4" Female Iron Pipe Union Swivel	1-1/4" Female Iron Pipe Union Swivel
12-33	3/4" Double Purpose Union Swivel	3/4" Flare Copper
12-44	1" Double Purpose Union Swivel	1" Flare Copper
18-33	3/4" Double Purpose Union Swivel	3/4" Male Iron Pipe Union Swivel
18-44	1" Double Purpose Union Swivel	1" Male Iron Pipe Union Swivel
21-33	3/4" Flare Copper	3/4" Double Purpose Union Swivel
***21-44	1" Flare Copper	1" Double Purpose Union Swivel
‡22-33	3/4" Flare Copper	3/4" Flare Copper
22-44	1" Flare Copper	1" Flare Copper
***22-55	1-1/4" Flare Copper	1-1/4" Flare Copper
***28-44	1" Flare Copper	1" Male Iron Pipe Union Swivel
‡44-33	3/4" P.J. for Copper or Plastic Tubing (CTS)*	3/4" P.J. for Copper or Plastic Tubing (CTS)*
**44-33-Q	3/4" Q.J. for Copper or Plastic Tubing (CTS)	3/4" Q.J. for Copper or Plastic Tubing (CTS)
◆44-44	1" P.J. for Copper or Plastic Tubing (CTS)*	1" P.J. for Copper or Plastic Tubing (CTS)*
***44-55	1-1/4" P.J. for Copper or Plastic Tubing (CTS)*	1-1/4" P.J. for Copper or Plastic Tubing (CTS)*
**46-33	3/4" P.J. for Copper or Plastic Tubing (CTS)*	3/4" P.J. for PE Pipe*
**64-33	3/4" P.J. for PE Pipe*	3/4" P.J. for Copper or Plastic Tubing (CTS)*
66-33	3/4" P.J. for PE Pipe*	3/4" P.J. for PE Pipe*
***66-44	1" P.J. or PE Pipe*	1" P.J. for PE Pipe*
**77-33	3/4" P.J. for PVC Pipe	3/4" P.J. for PVC Pipe
81-33	3/4" Male Iron Pipe Union Swivel	3/4" Double Purpose Union Swivel
81-44	1" Male Iron Pipe Union Swivel	1" Double Purpose Union Swivel
88-33	3/4" Male Iron Pipe Union Swivel	3/4" Male Iron Pipe Union Swivel
**88-44	1" Male Iron Pipe Union Swivel	1" Male Iron Pipe Union Swivel
‡**FF-33	3/4" Female Iron Pipe	3/4" Female Iron Pipe

\* Grip Joint for CTS (all sizes) and P.E. pipe (3/4" & 1") is available. Add "-G" to the catalog number. Example: V82W-41-33-G

\*\* Not Available on V83 Series Coppersettors (with 15/16" O.D. copper tubing). These service line connections are available on V82 Series Coppersettors (13/16" O.D. copper) with 3/4" meter spacing.

\*\*\* These connections available on 1", V84 Series Coppersettors only.

‡ 81 and 82 Series Coppersettors with the indicated service line connections have a vertical brace eye.

◆ Quick Joint is available. Add "-Q" to the end of this catalog number.

### ADDITIONAL OPTIONS FOR 80 SERIES COPPERSETTERS

Support Assembly Clamp (5/8", 5/8"x3/4" and 3/4" sizes only) Catalog Number: SAC



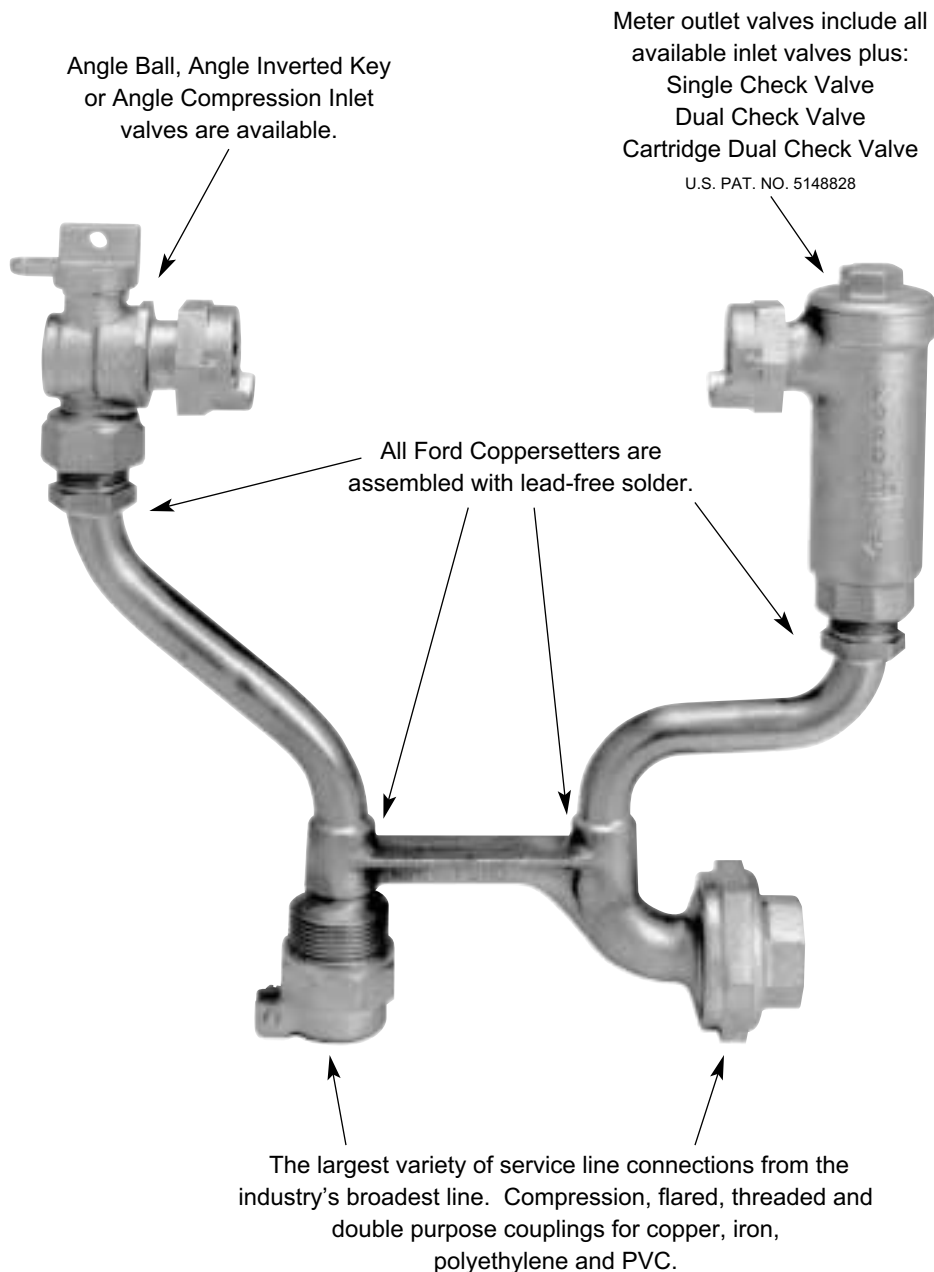
# The Ford 70-80 Series Angle Coppersetter

**For 5/8", 5/8"x3/4", 3/4" or 1" Meter Size**  
**Vertical inlet and horizontal outlet**

Standard service installation in some water utilities calls for tubing from the main to the curb meter setting to be relatively deep, and the pipe from the meter box to the house to be shallower. The Angle Coppersetter has a vertical inlet and horizontal outlet. It can be furnished with a variety of valves as described below.

**To order:** Select one Catalog Number from each of the two charts on pages 20 and 21 to arrive at the complete Coppersetter Catalog Number. Selection order of components:

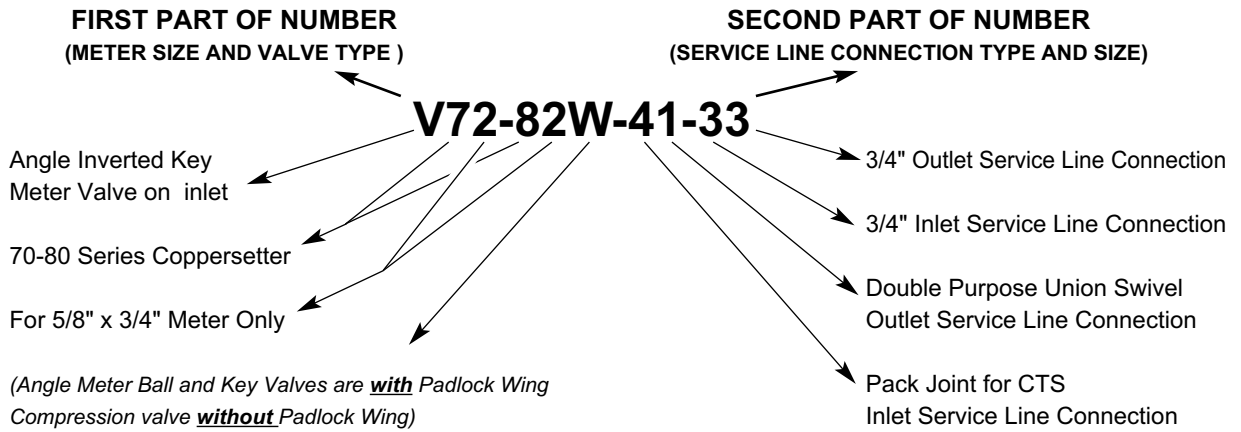
1. Meter size and valve type . . . . . page 20
2. Service line connections . . . . . page 21



# The Ford 70-80 Series Angle Coppersetter

For 5/8", 5/8"x3/4", 3/4" or 1" Meter Size  
Vertical inlet and horizontal outlet

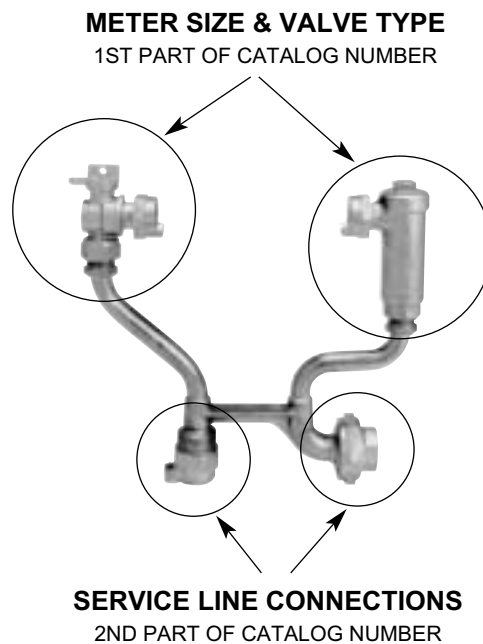
## Example of Catalog Number for a 70-80 Series Coppersetter



Height for 5/8", 5/8" x 3/4" and 3/4" meter is 7" and for 1" meter is 10"

The description for the above catalog number reads: 70-80 Series Coppersetter for 5/8" x 3/4" meter with an angle inverted key meter valve on the inlet, with 3/4" Pack Joint for CTS inlet by 3/4" double purpose union swivel outlet.

## Catalog Numbering

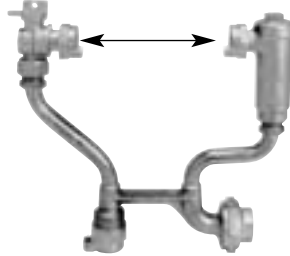


Height - 70-80 Series  
Coppersettters are made to  
"standard" heights

# The Ford 70-80 Series Angle Coppersetter

For 5/8", 5/8"x3/4", 3/4" or 1" Meter Size  
Vertical inlet and horizontal outlet

## METER SIZE & VALVE TYPE - (FIRST PART OF CATALOG NUMBER)



CATALOG NUMBER (METER SIZE AND VALVE TYPE)				DESCRIPTION	
FOR 5/8"	FOR 5/8"x 3/4"	FOR 3/4"	FOR 1"	INLET VALVE	OUTLET VALVE
V71-81	V72-82	V73-83	V74-84	Key	none
VB71-81	VB72-82	VB73-83	VB74-84	Ball	none
VVG71-81*	VVG72-82*	VVG73-83*	VVG74-84*	Key	Compression
VV71-81	VV72-82	VV73-83	VV74-84	Key	Key
VH71-81	VH72-82	VH73-83	VH74-84	Key	Single check
VHH71-81	VHH72-82	VHH73-83	VHH74-84	Key	Dual check
VHC71-81	VHC72-82	VHC73-83	VHC74-84	Key	Cartridge dual check
VBH71-81	VBH72-82	VBH73-83	VBH74-84	Ball	Single check
VBHH71-81	VBHH72-82	VBHH73-83	VBHH74-84	Ball	Dual check
VBHC71-81	VBHC72-82	VBHC73-83	VBHC74-84	Ball	Cartridge dual check

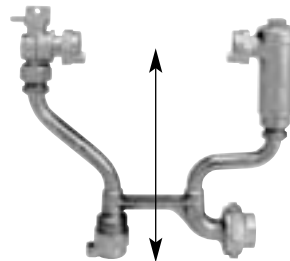
\* Compression valve does not have padlock wing

### METER VALVE OPTIONS FOR 70-80 SERIES COPPERSETTERS

Seal Wire Hole in Inlet Valve  
Seal Wire Hole in Check Valve

## HEIGHT - 70-80 SERIES COPPERSETTERS ARE MADE TO "STANDARD" HEIGHTS

NOTE: Height dimensions are approximate.



71-81 Series Coppersetter  
for 5/8" Meter  
and

72-82 Series Coppersetter  
for 5/8"x3/4" Meter

HEIGHT IS 7"  
(MADE FROM 13/16" O.D. TUBING)

73-83 Series Coppersetter  
for 3/4" Meter

HEIGHT IS 7"  
(MADE FROM 13/16" O.D. TUBING)

74-84 Series Coppersetter  
for 1" Meter

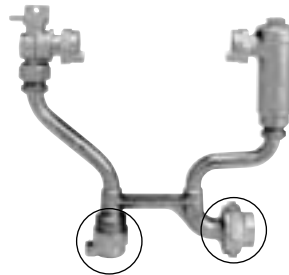
HEIGHT IS 10"  
(MADE FROM 1.25" O.D. TUBING)

**Note:** 70-80 Series Coppersetters with cartridge dual check valve have a 9" minimum height for 5/8", 5/8" x 3/4" and 3/4" meters, and 15" minimum height for 1" meters.

# The Ford 70-80 Series Angle Coppersetter

For 5/8", 5/8"x3/4", 3/4" or 1" Meter Size  
Vertical inlet and horizontal outlet

## INLET & OUTLET SERVICE LINE CONNECTIONS - (SECOND PART OF CATALOG NUMBER)



CATALOG NUMBER	DESCRIPTION	
	INLET CONNECTION	OUTLET CONNECTION
11-33	3/4" Double Purpose Union Swivel	3/4" Double Purpose Union Swivel
** 11-44	1" Double Purpose Union Swivel	1" Double Purpose Union Swivel
18-33	3/4" Double Purpose Union Swivel	3/4" Male Iron Pipe Union Swivel
** 18-44	1" Double Purpose Union Swivel	1" Male Iron Pipe Union Swivel
21-33	3/4" Flare Copper	3/4" Double Purpose Union Swivel
** 21-44	1" Flare Copper	1" Double Purpose Union Swivel
** 28-44	1" Flare Copper	1" Male Iron Pipe Union Swivel
41-33	3/4" P.J. for Copper or Plastic Tubing (CTS)*	3/4" Double Purpose Union Swivel
41-44	1" P.J. for Copper or Plastic Tubing (CTS)*	1" Double Purpose Union Swivel
44-33	3/4" P.J. for Copper or Plastic Tubing (CTS)*	3/4" P.J. for Copper or Plastic Tubing (CTS)*
44-44	1" P.J. for Copper or Plastic Tubing (CTS)*	1" P.J. for Copper or Plastic Tubing (CTS)*
48-44	1" P.J. for Copper or Plastic Tubing (CTS)*	1" Male Iron Pipe Union Swivel
81-33	3/4" Male Iron Pipe Union Swivel	3/4" Double Purpose Union Swivel
81-44	1" Male Iron Pipe Union Swivel	1" Double Purpose Union Swivel
88-33	3/4" Male Iron Pipe Union Swivel	3/4" Male Iron Pipe Union Swivel
88-44	1" Male Iron Pipe Union Swivel	1" Male Iron Pipe Union Swivel

\* Grip Joint for CTS is available. Add "-G" to the catalog number. Example: V72-82W-41-33-G

\*\* Available on V74-84 Series Coppersetters only

### ADDITIONAL OPTIONS FOR 70-80 SERIES COPPERSETTERS

Support Assembly Clamp (5/8", 5/8"x3/4" and 3/4" sizes only) Catalog Number: SAC

# The Ford 90 Series Coppersetter

For 5/8", 5/8"x3/4", 3/4" or 1" Meter Size

Each conduit of the 90 Series Coppersetter is one piece of copper tubing and the two conduits are connected by a clamp. This flexible design provides adjustability to the space between service pipe ends during installation. The clamp is normally soldered permanently to the tubes but can be furnished with a bolted clamp so that the two conduits can be taken apart, if desired. An optional extended outlet leg provides customer side hook-up without disturbing the pit.

**To order:** Select one Catalog Number component from each of the three charts on pages 24 and 25 to arrive at the complete Coppersetter Catalog Number. Selection order of components:

1. Meter size and valve type . . . . . page 24
  2. Coppersetter height . . . . . page 24
  3. Service line connections . . . . . page 25
- Outlet extension, bolted clamp construction and brace eye . . . page 25

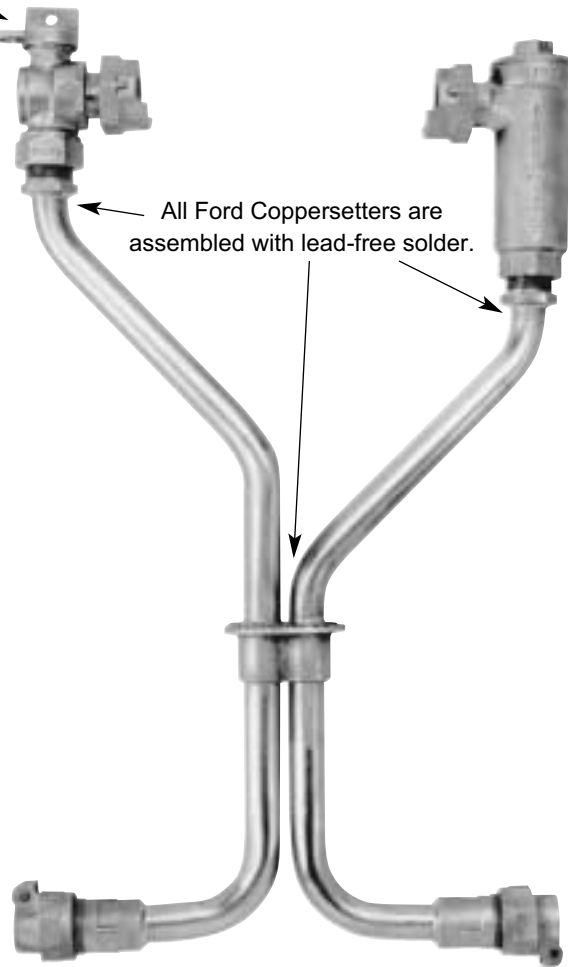
Angle Ball, Angle Inverted Key or Angle Compression Inlet valves are available.

Meter outlet valves include all available inlet valves plus:  
Single Check Valve  
Dual Check Valve  
Cartridge Dual Check Valve

U.S. PAT. NO. 5148828

All Ford Coppersettors are assembled with lead-free solder.

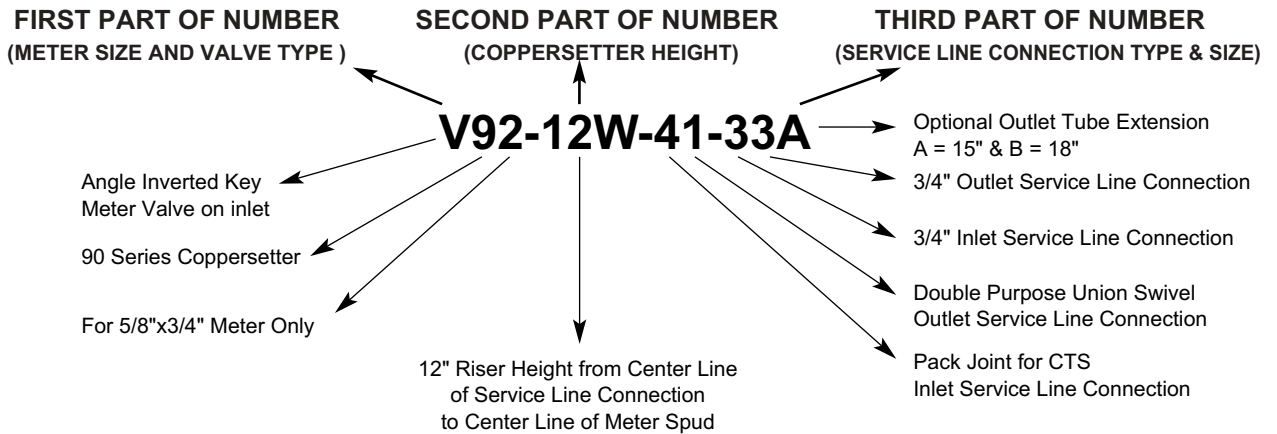
The largest variety of service line connections from the industry's broadest line. Compression, flared, threaded and double purpose couplings for copper, iron, polyethylene and PVC.



# The Ford 90 Series Coppersetter

For 5/8", 5/8"x3/4", 3/4" or 1" Meter Size

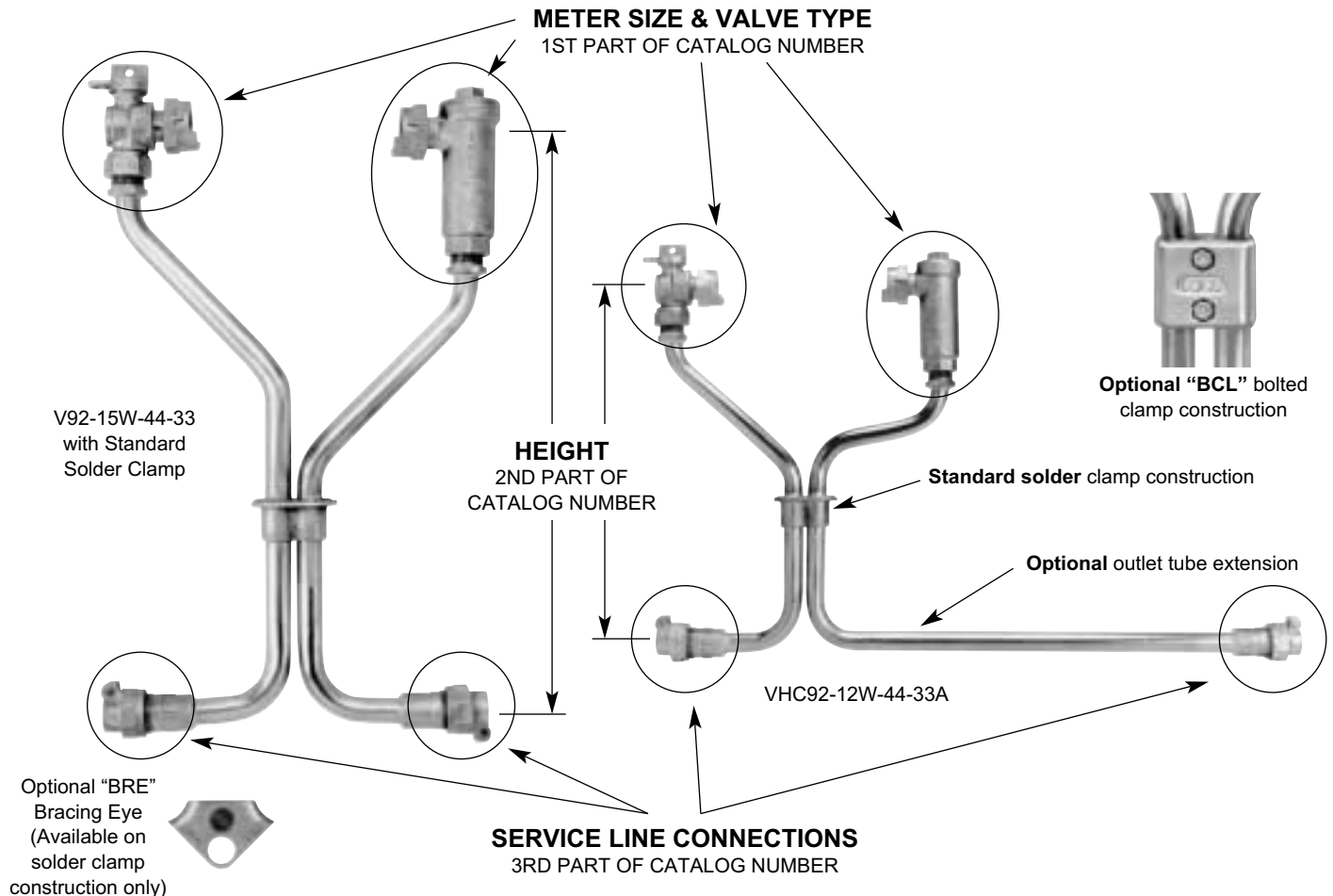
## Example of Catalog Number for a 90 Series Coppersetter



(Angle Meter Ball and Key Valves are with Padlock Wing - Compression valve without Padlock Wing)

The description for the above catalog number reads: 90 Series Valve Type Coppersetter for 5/8"x3/4" meter, 12 inches high, with 3/4" Pack Joint for CTS inlet by 3/4" double purpose union swivel outlet on an optional 15" extended outlet tube.

## Catalog Numbering



# The Ford 90 Series Coppersetter

For 5/8", 5/8"x3/4", 3/4" or 1" Meter Size

## METER SIZE & VALVE TYPE - (FIRST PART OF CATALOG NUMBER)



CATALOG NUMBER (METER SIZE AND VALVE TYPE)				DESCRIPTION	
For 5/8"	For 5/8"x 3/4"	For 3/4"	For 1"	INLET VALVE	OUTLET VALVE
91	92	93	94	none	none
V91	V92	V93	V94	Key	none
VB91	VB92	VB93	VB94	Ball	none
VVG91*	VVG92*	VVG93*	VVG94*	Key	Compression
VV91	VV92	VV93	VV94	Key	Key
VH91	VH92	VH93	VH94	Key	Single check
VHH91	VHH92	VHH93	VHH94	Key	Dual check
VHC91**	VHC92**	VHC93**	VHC94**	Key	Cartridge dual check
VBH91	VBH92	VBH93	VBH94	Ball	Single check
VBHH91	VBHH92	VBHH93	VBHH94	Ball	Dual check
VBHC91**	VBHC92**	VBHC93**	VBHC94**	Ball	Cartridge dual check

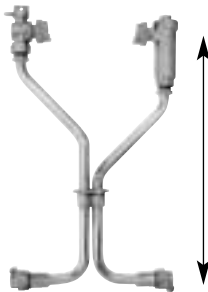
\* Compression valve does not have padlock wing

### METER VALVE OPTIONS FOR 90 SERIES COPPERSETTERS

Seal Wire Hole in Inlet Valve  
Seal Wire Hole in Check Valve

## HEIGHT - (SECOND PART OF CATALOG NUMBER)

NOTE: Height dimensions are approximate.



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

CATALOG NUMBER	HEIGHT IN INCHES
12W	12
15W	15
18W	18
21W	21
24W	24

For 1" Meter

CATALOG NUMBER	HEIGHT IN INCHES
15W	15
18W	18
21W	21
24W	24

**Note:** 90 Series Coppersetters with cartridge dual check valve have a 15" minimum height for 5/8" and 5/8" x 3/4", 3/4" meters and 18" minimum height for 1" meters.

### HEIGHT OPTION FOR 90 SERIES COPPERSETTERS

Coppersetters are available in heights over 24" in 3" increments; 27", 30", 33" etc.

To order put desired height in catalog number.

EXAMPLE: V92-33W-11-33 is a 33" high setter.

# The Ford 90 Series Coppersetter

For 5/8", 5/8"x3/4", 3/4" or 1" Meter Size

## INLET & OUTLET SERVICE LINE CONNECTIONS - (THIRD PART OF CATALOG NUMBER)



CATALOG NUMBER	DESCRIPTION	
	INLET CONNECTION	OUTLET CONNECTION
<b>Pack Joint by Pack Joint</b>		
◆ 44-33	3/4" P.J. for Copper or Plastic Tubing (CTS)*	3/4" P.J. for Copper or Plastic Tubing (CTS)*
*** 44-43	1" P.J. for Copper or Plastic Tubing (CTS)*	3/4" P.J. for Copper or Plastic Tubing (CTS)*
*** 44-44	1" P.J. for Copper or Plastic Tubing (CTS)*	1" P.J. for Copper or Plastic Tubing (CTS)*
** 46-33	3/4" P.J. for Copper or Plastic Tubing (CTS)*	3/4" P.J. for PE Pipe*
*** 46-44	1" P.J. for Copper or Plastic Tubing (CTS)*	1" P.J. for PE Pipe*
** 47-33	3/4" P.J. for Copper or Plastic Tubing (CTS)	3/4" P.J. for PVC Pipe
*** 47-44	1" P.J. for Copper or Plastic Tubing (CTS)*	1" P.J. for PVC Pipe
** 66-33	3/4" P.J. for PE Pipe*	3/4" P.J. for PE Pipe*
*** 66-44	1" P.J. for PE Pipe*	1" P.J. for PE Pipe*
*** 67-44	1" P.J. for PE Pipe*	1" P.J. for PVC Pipe
*** 76-44	1" P.J. for PVC Pipe	1" P.J. for PE Pipe*
** 77-33	3/4" P.J. for PVC Pipe	3/4" P.J. for PVC Pipe
*** 77-44	1" P.J. for PVC Pipe	1" P.J. for PVC Pipe
<b>Pack Joint by Iron Pipe and Double Purpose</b>		
** 16-33	3/4" Female Iron Pipe Union Swivel	3/4" P.J. for PE Pipe*
** 17-33	3/4" Female Iron Pipe Union Swivel	3/4" P.J. for PVC Pipe
*** 41-43	1" P.J. for Copper or Plastic Tubing (CTS)*	3/4" Double Purpose Union Swivel
*** 48-44	1" P.J. for Copper or Plastic Tubing (CTS)*	1" Male Iron Pipe Union Swivel
** 61-33	3/4" P.J. for PE Pipe*	3/4" Female Iron Pipe Union Swivel
** 78-33	3/4" P.J. for PVC Pipe	3/4" Male Iron Pipe Union Swivel
** 71-33	3/4" P.J. for PVC Pipe	3/4" Female Iron Pipe Union Swivel
<b>Double Purpose, Iron Pipe and Flare Copper</b>		
11-33	3/4" Double Purpose Union Swivel	3/4" Double Purpose Union Swivel
*** 11-44	1" Double Purpose Union Swivel	1" Double Purpose Union Swivel
*** 12-44	1" Double Purpose Union Swivel	1" Flare Copper
18-33	3/4" Double Purpose Union Swivel	3/4" Male Iron Pipe Union Swivel
*** 18-44	1" Double Purpose Union Swivel	1" Male Iron Pipe Union Swivel
21-33	3/4" Flare Copper	3/4" Double Purpose Union Swivel
*** 21-44	1" Flare Copper	1" Double Purpose Union Swivel
22-33	3/4" Flare Copper	3/4" Flare Copper
22-44	1" Flare Copper	1" Flare Copper
*** 28-44	1" Flare Copper	1" Male Iron Pipe Union Swivel
81-33	3/4" Male Iron Pipe Union Swivel	3/4" Double Purpose Union Swivel
** 81-43	1" Male Iron Pipe Union Swivel	3/4" Double Purpose Union Swivel
*** 81-44	1" Male Iron Pipe Union Swivel	1" Double Purpose Union Swivel
*** 82-44	1" Male Iron Pipe Union Swivel	1" Flare Copper
88-33	3/4" Male Iron Pipe Union Swivel	3/4" Male Iron Pipe Union Swivel
*** 88-44	1" Male Iron Pipe Union Swivel	1" Male Iron Pipe Union Swivel

\* Grip Joint for CTS (all sizes) and P.E. pipe (3/4" & 1") is available. Add "-G" to the catalog number. Example: V92-12W-41-33-G

\*\* These connections are not available on V93 Series Coppersetters (with 15/16" O.D. copper tubing).

These connections are available on V92 Series Coppersetters (13/16" O.D. copper) with 3/4" meter spacing.

\*\*\*These connections are for V94 Series Coppersetters only.

◆ Quick Joint is available. Add "-Q" to the end of this catalog number.

### OPTIONS FOR 90 SERIES COPPERSETTERS

OPTION	EXTENSION TO CATALOG NUMBER
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 & brace eye	Add "H" to Cat. No.
15" outlet tube extension & bolted clamp	Add "F" to Cat. No.
18" outlet tube extension	Add "B" to Cat. No.
18" outlet tube extension & brace eye	Add "K" to Cat. No.
18" outlet tube extension & bolted clamp	Add "J" to Cat. No.



# Ford Tandem Coppersetter

Designed to solve problems resulting from excessive water pressure, the Tandem Coppersetter holds a pressure regulator just ahead of the water meter – all in one compact, quickly-installed Ford Coppersetter device. Pressure of the water flow through the meter and customer service lines is thereby easily reduced.

**This space-saving unit is designed for installation in a single meter pit, frequently as small as 20" in diameter.**

**Ford recommends service lines and valves be set a minimum of 2" from the pit wall to help prevent freezing.**



TV72-15W-44-33

## HOW TO ORDER

Select Coppersetter Series desired. Add the letter "T" before Catalog Number selected. EXAMPLE: TV72-18W-21-33 = Valve type Tandem Coppersetter for 5/8" x 3/4" meter, 18" high with 3/4" flared copper inlet and with double purpose union swivel outlet. Tandem Coppersetter include an "S" tube and male iron pipe adapters for holding a pressure regulator. When ordering a 5/8", 5/8" x 3/4" or 3/4" Coppersetter, adapters and "S" tube will be sized to hold a 3/4" regulator with an overall length between 4" and 5". When ordering a 1" Coppersetter, adapters and "S" tube will be sized to hold a 1" regulator with an overall length between 5" and 6". Unless specified otherwise, Tandem Coppersetter are designed to hold a water meter in series with a pressure regulator. **An "S" tube and male iron pipe adapters for the regulator are included.**

### Adapters for Regulator



CATALOG NUMBER	METER SIZE	ADAPTER LENGTH	APPROX. WT. LBS.
RA-1	5/8"	1-7/8"	.6
RA-2	5/8"x3/4"	2-1/16"	.8
RA-4	1"	2-1/4"	1.3

# Ford Linesetters

The Ford Linesetter is an economical way to support the meter and speed meter changeouts in areas where shallow service line depths are possible. The short rise provided by the Linesetter helps to keep the meter out of the dirt at the bottom of the meter box, and the setter body supports the service line. Cut-in style Linesetters can be used when installing meters in previously unmetred services, and eliminate the need to flare or thread old service lines.



LSV11-233W

The LSV11-233W is an example of a Linesetter for a 5/8" x 3/4" meter. Service line connections are double purpose.



LSV44-444W

The LSV44-444W is an example of a Linesetter for a 1" meter. Service line connections are Pack Joint for CTS. Brace eyes are standard on all Linesetters for 1" meters.



LSAV21-233W

The LSAV21-233W is an example of a Angle Inlet Linesetter for a 5/8" x 3/4" meter. Service line connections are an angled flare copper inlet by double purpose outlet.

## Linesetters for 5/8" meters

### 3/4" DOUBLE PURPOSE INLET BY 3/4" DOUBLE PURPOSE OUTLET



CATALOG NUMBER FOR 5/8" METER	INLET VALVE TYPE	OUTLET VALVE TYPE
LS11-133	none	none
LSV11-133W	Key	none
LSVH11-133W	Key	Single Check
LSVHH11-133W	Key	Dual Check
LSVB11-133W	Ball	none
LSVBH11-133W	Ball	Single Check
LSVBHH11-133W	Ball	Dual Check

### 3/4" DOUBLE PURPOSE INLET BY 3/4" MALE IRON PIPE OUTLET



CATALOG NUMBER FOR 5/8" METER	INLET VALVE TYPE	OUTLET VALVE TYPE
LS18-133	none	none
LSV18-133W	Key	none
LSVH18-133W	Key	Single Check
LSVHH18-133W	Key	Dual Check
LSVB18-133W	Ball	none
LSVBH18-133W	Ball	Single Check
LSVBHH18-133W	Ball	Dual Check

### 3/4" PACK JOINT FOR CTS\* INLET BY 3/4" DOUBLE PURPOSE OUTLET



CATALOG NUMBER FOR 5/8" METER	INLET VALVE TYPE	OUTLET VALVE TYPE
◆ LSV41-133W	Key	none
◆ LSVH41-133W	Key	Single Check
◆ LSVHH41-133W	Key	Dual Check
◆ LSVB41-133W	Ball	none
◆ LSVBH41-133W	Ball	Single Check
◆ LSVBHH41-133W	Ball	Dual Check

\*Grip Joint for CTS is available. Add "-G" to the catalog number. Example: LSV41-133W-G

◆ Quick Joint is available. Add "-Q" to the end of the catalog number. Example: LSV41-133W-Q

# Ford Linesetters

Linesetters for 5/8" x 3/4" meters



## 3/4" DOUBLE PURPOSE INLET BY 3/4" DOUBLE PURPOSE OUTLET

CATALOG NUMBER FOR 5/8"x3/4" METER	INLET VALVE TYPE	OUTLET VALVE TYPE
LS11-233	none	none
LSV11-233W	Key	none
LSVH11-233W	Key	Single Check
LSVHH11-233W	Key	Dual Check
LSVB11-233W	Ball	none
LSVBH11-233W	Ball	Single Check
LSVBHH11-233W	Ball	Dual Check



## 3/4" PACK JOINT FOR CTS\* INLET BY 3/4" DOUBLE PURPOSE OUTLET

CATALOG NUMBER FOR 5/8"x3/4" METER	INLET VALVE TYPE	OUTLET VALVE TYPE
◆ LSV41-233W	Key	none
◆ LSVH41-233W	Key	Single Check
◆ LSVHH41-233W	Key	Dual Check
◆ LSVB41-233W	Ball	none
◆ LSVBH41-233W	Ball	Single Check
◆ LSVBHH41-233W	Ball	Dual Check

\*Grip Joint for CTS is available. Add "-G" to the catalog number. Example: LSV41-233W-G

◆ Quick Joint is available. Add "-Q" to the end of the catalog number. Example: LSV41-233W-Q



## 3/4" FLARE COPPER INLET BY 3/4" DOUBLE PURPOSE OUTLET

CATALOG NUMBER FOR 5/8"x3/4" METER	INLET VALVE TYPE	OUTLET VALVE TYPE
LSV21-233W	Key	none
LSVH21-233W	Key	Single Check
LSVHH21-233W	Key	Dual Check
LSVB21-233W	Ball	none
LSVBH21-233W	Ball	Single Check
LSVBHH21-233W	Ball	Dual Check



## 3/4" PACK JOINT FOR CTS\* INLET BY 3/4" PACK JOINT FOR CTS\* OUTLET

CATALOG NUMBER FOR 5/8"x3/4" METER	INLET VALVE TYPE	OUTLET VALVE TYPE
◆ LSV44-233W	Key	none
◆ LSVH44-233W	Key	Single Check
◆ LSVHH44-233W	Key	Dual Check
◆ LSVB44-233W	Ball	none
◆ LSVBH44-233W	Ball	Single Check
◆ LSVBHH44-233W	Ball	Dual Check

\*Grip Joint for CTS is available. Add "-G" to the catalog number. Example: LSV44-233W-G

◆ Quick Joint is available. Add "-Q" to the end of the catalog number. Example: LSV44-233W-Q

# Ford Linesetters

## Linesetters for 5/8" x 3/4" meters

### 3/4" ANGLED FLARE COPPER INLET BY 3/4" DOUBLE PURPOSE OUTLET



CATALOG NUMBER FOR 5/8"x3/4" METER	INLET VALVE TYPE	OUTLET VALVE TYPE
LSAV21-233W	Key	none
LSAVH21-233W	Key	Single Check
LSAVHH21-233W	Key	Dual Check
LSAVB21-233W	Ball	none
LSAVBH21-233W	Ball	Single Check
LSAVBHH21-233W	Ball	Dual Check

### 3/4" ANGLED PACK JOINT FOR CTS\* INLET BY 3/4" DOUBLE PURPOSE OUTLET



CATALOG NUMBER FOR 5/8"x3/4" METER	INLET VALVE TYPE	OUTLET VALVE TYPE
◆ LSAV41-233W	Key	none
◆ LSAVH41-233W	Key	Single Check
◆ LSAVHH41-233W	Key	Dual Check
◆ LSAVB41-233W	Ball	none
◆ LSAVBH41-233W	Ball	Single Check
◆ LSAVBHH41-233W	Ball	Dual Check

\*Grip Joint for CTS is available. Add "-G" to the catalog number. Example: LSAV41-233W-G

◆ Quick Joint is available. Add "-Q" to the end of the catalog number. Example: LSAV41-233W-Q

## Linesetters for 3/4" meters

### 3/4" DOUBLE PURPOSE INLET BY 3/4" DOUBLE PURPOSE OUTLET



CATALOG NUMBER FOR 3/4" METER	INLET VALVE TYPE	OUTLET VALVE TYPE
LS11-333	none	none
LSV11-333W	Key	none
LSVH11-333W	Key	Single Check
LSVHH11-333W	Key	Dual Check
LSVB11-333W	Ball	none
LSVBH11-333W	Ball	Single Check
LSVBHH11-333W	Ball	Dual Check

### OTHER 3/4" LINESETTERS

Besides the 3/4" linesetters listed in this table, any of the 5/8" x 3/4" linesetter listings are available as 3/4" Linesetters by changing the catalog number. Example: an LSV44-233W for 5/8" x 3/4" meter will read LSV44-333 for 3/4" meter.

# Ford Linesetters

## Linesetters for 1" meters



### 1" DOUBLE PURPOSE INLET BY 1" DOUBLE PURPOSE OUTLET

CATALOG NUMBER FOR 1" METER	INLET VALVE TYPE	OUTLET VALVE TYPE
LSV11-444W	Key	none
LSVH11-444W	Key	Single Check
LSVHH11-444W	Key	Dual Check
LSVB11-444W	Ball	none
LSVBH11-444W	Ball	Single Check
LSVBHH11-444W	Ball	Dual Check



### 1" FLARE COPPER INLET BY 1" DOUBLE PURPOSE OUTLET

CATALOG NUMBER FOR 1" METER	INLET VALVE TYPE	OUTLET VALVE TYPE
LSV21-444W	Key	none
LSVH21-444W	Key	Single Check
LSVHH21-444W	Key	Dual Check
LSVB21-444W	Ball	none
LSVBH21-444W	Ball	Single Check
LSVBHH21-444W	Ball	Dual Check



### 1" PACK JOINT FOR CTS\* INLET BY 1" DOUBLE PURPOSE OUTLET

CATALOG NUMBER FOR 1" METER	INLET VALVE TYPE	OUTLET VALVE TYPE
◆ LSV41-444W	Key	none
◆ LSVH41-444W	Key	Single Check
◆ LSVHH41-444W	Key	Dual Check
◆ LSVB41-444W	Ball	none
◆ LSVBH41-444W	Ball	Single Check
◆ LSVBHH41-444W	Ball	Dual Check

\***Grip Joint** for CTS is available. Add "-G" to the catalog number. Example: LSV41-444W-G.

◆ Quick Joint is available. Add "-Q" to the end of the catalog number. Example: LSV41-444W-Q



### 1" PACK JOINT FOR CTS\* INLET BY 1" PACK JOINT FOR CTS\* OUTLET

CATALOG NUMBER FOR 1" METER	INLET VALVE TYPE	OUTLET VALVE TYPE
◆ LSV44-444W	Key	none
◆ LSVH44-444W	Key	Single Check
◆ LSVHH44-444W	Key	Dual Check
◆ LSVB44-444W	Ball	none
◆ LSVBH44-444W	Ball	Single Check
◆ LSVBHH44-444W	Ball	Dual Check

\***Grip Joint** for CTS is available. Add "-G" to the catalog number. Example: LSV44-444W-G.

◆ Quick Joint is available. Add "-Q" to the end of the catalog number. Example: LSV44-444W-Q

# Ford Linesetters

Linesetters for 1" meters

1" MALE IRON PIPE INLET BY  
1" DOUBLE PURPOSE OUTLET



CATALOG NUMBER FOR 1" METER	INLET VALVE TYPE	OUTLET VALVE TYPE
LSV81-444W	Key	none
LSVH81-444W	Key	Single Check
LSVHH81-444W	Key	Dual Check
LSVB81-444W	Ball	none
LSVBH81-444W	Ball	Single Check
LSVBHH81-444W	Ball	Dual Check

## Ford Pack Joint Linesetters - Cut-In Type

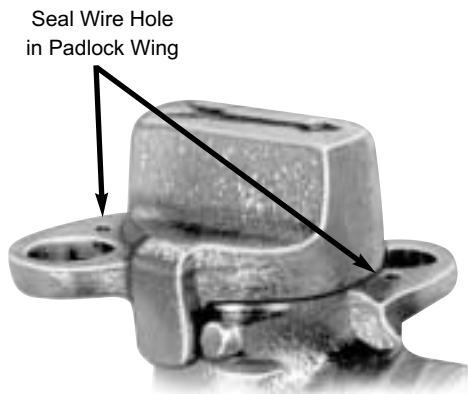
Order Pack Joint Assemblies separately



CATALOG NUMBER	METER SIZE	INLET CONNECTION	OUTLET CONNECTION
<b>WITHOUT VALVE</b>			
LS00-100	5/8"	Optional Pack Joint	Optional Pack Joint
LS00-200	5/8"x3/4"	Optional Pack Joint	Optional Pack Joint
LS00-300	3/4"	Optional Pack Joint	Optional Pack Joint
<b>WITH VALVE</b>			
LSV00-100W	5/8"	Optional Pack Joint	Optional Pack Joint
LSV00-200W	5/8"x3/4"	Optional Pack Joint	Optional Pack Joint
LSV00-300W	3/4"	Optional Pack Joint	Optional Pack Joint

Pack Joint Assemblies for Cut-In Pack Joint Linesetters (two required per Linesetter)  
see table on page 13 under 270 Series Coppersetters.

## Options for Ford Linesetters

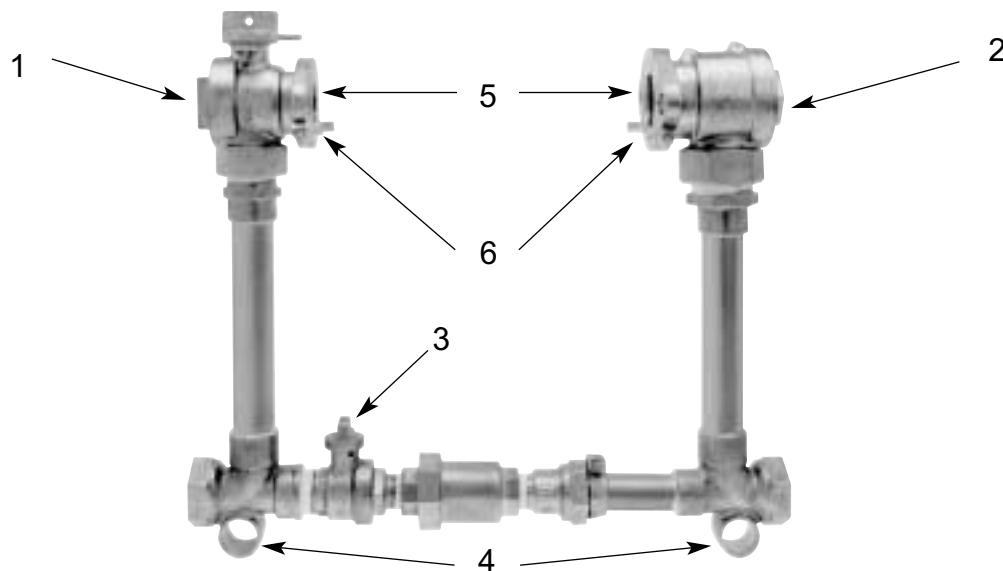


### ADDITIONAL OPTIONS FOR LINESETTERS

Seal Wire Hole in Inlet Valve. To order add "- SEAL" to catalog number.  
Example: LSV11-133W- SEAL

# Coppersettters for 1-1/2" & 2" Flanged Meters

## Information for Ford All Brass and Copper 1-1/2" & 2" Coppersettters



### Specifications:

Ford Coppersettters are constructed from 85-5-5-5 Brass (AWWA specification C-800) and copper tubing.

All Ford 1-1/2" and 2" Coppersettters are individually factory tested for water-tightness before shipment.

Individualized setting requirements can be satisfied using special Ford Coppersettters. We welcome the opportunity to solve your 1-1/2" and 2" setting problems.

1. Inlet valve options are a flanged angle inverted key or flanged angle Ball Valve.
2. All inlet valve options are also available on outlet\* - A Flanged Angle Check Outlet Valve or a Flanged Angle Dual Check Valve may be ordered.
3. By-pass includes a Ford Ball Valve with padlock wings. An optional Dual Check Valve in the By-Pass is available.
4. Brace pipe eyelets are standard - brace pipe not included.
5. Different flange spacing may be specified.
6. All 1-1/2" and 2" Flange Valves on Coppersettters have Meter Support Brackets.

\* **NOTE:** 1-1/2" and 2" outlet Ball Valves may be used as customer shut-offs (on the customer side of the meter) up to 150 psi.

The Flange Inverted Key Angle Valves should not be used as customer shut-off on the customer side of the meter.

### HIGH BY-PASS OPTION

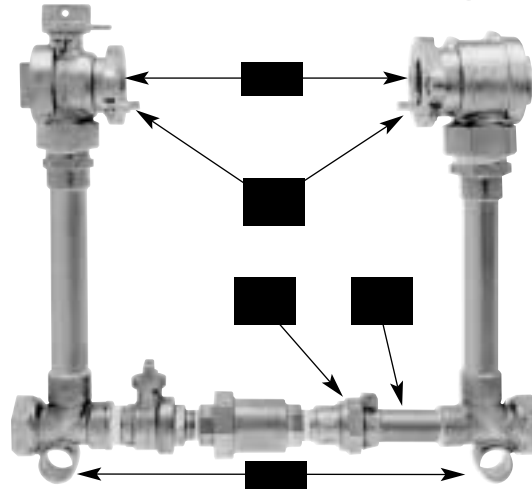
A High By-Pass option is available on 1-1/2" and 2" Ford Coppersettters with a 12" minimum height.

To Order: add "HB" to catalog number. Example: VV77-12HB-11-77



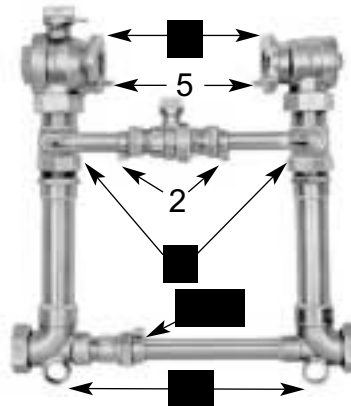
# Coppersetter for 1-1/2" & 2" Flanged Meters

## Coppersetter Installation Instructions



1. **COMPARE LAYING LENGTH OF METER WITH SETTER DIMENSION BETWEEN INLET AND OUTLET (#1).**  
Adjustments to setter meter length may be made as follows:
    - A. **LOOSEN PACK JOINT (#2) AND ADJUST SETTER LENGTH TO FIT METER BY INSTALLING PROPER IDLER OR METER.**
    - B. If a shorter meter is used, cut the copper pipe (#3). Copper pipe should extend a minimum of 1/2" beyond the Pack Joint gasket.
    - C. Tighten Pack Joint (#2) nut and tighten screw.
  2. Cut two pieces of 1" pipe 18" long and install through the brace eye supports (#4).
  3. Be sure that the Coppersetter is installed in the correct position in relation to the water flow and make sure the bypass valve is in the **OFF** position.
  4. Use a good pipe sealant or Teflon tape when attaching fittings to the female iron pipe inlet and outlet threads.
  5. Special Ford drop-in gaskets are included with each setter for use when installing the water meter. Meter support brackets (#5) may need to be loosened or removed due to variations in the shape of water meter flanges.
- 

## High Bypass Coppersetter Installation Instructions



1. **COMPARE LAYING LENGTH OF METER WITH SETTER DIMENSION BETWEEN INLET AND OUTLET (#1) AND INSTALL METER OR METER IDLER PRIOR TO CONNECTING THE BYPASS ASSEMBLY AND THE INLET AND OUTLET SERVICE LINES.**
2. The bypass assembly has been removed for shipping and may be re-assembled as follows:
  - A. Loosen Pack Joint (#4) on Coppersetter brace bar.
  - B. Loosen Pack Joint on bypass ball valve (#2).
  - C. Insert bypass ends completely into the Pack Joint Assemblies (#3).
  - D. Tighten all Pack Joints (#2, #3, and #4) securely with meter or meter idler in place.
3. Cut two pieces of 1" pipe 18" long and install through the brace eye supports (#6).
4. Be sure that the Coppersetter is installed in the correct position in relation to water flow and make certain the bypass valve is **OFF**.
5. Use a good pipe sealant or Teflon tape when attaching fittings to the female iron pipe inlet or outlet.
6. Special Ford drop-in gaskets are included with each Coppersetter for use when installing a water meter. Meter support brackets (#5) may need to be loosened or removed due to variations in shape of water meter flanges.



# 70 Series Coppersetters for 1-1/2" & 2" Flanged Meters

## Horizontal inlet and outlet

UNLESS OTHERWISE SPECIFIED - STANDARD METER SPACING FOR: 1-1/2" COPPERSETTERS = 13"  
2" COPPERSETTERS = 17"

### KEY VALVE INLET AND METER ELL OUTLET

HEIGHT	SERVICE LINE CONNECTION		FOR 1-1/2" METER CATALOG NUMBER	APPROX. Wt. LBS.	FOR 2" METER CATALOG NUMBER	APPROX. Wt. LBS.
	INLET	OUTLET				
12"	FIP	FIP	V76-12-11-66	30.0	V77-12-11-77	32.0
	CTS*	FIP	V76-12-41-66	30.0	V77-12-41-77	32.0
	CTS*	CTS*	V76-12-44-66	30.0	V77-12-44-77	32.0
15"	FIP	FIP	V76-15-11-66	31.0	V77-15-11-77	33.0
	CTS*	FIP	V76-15-41-66	31.0	V77-15-41-77	33.0
	CTS*	CTS*	V76-15-44-66	31.0	V77-15-44-77	33.0
18"	FIP	FIP	V76-18-11-66	32.0	V77-18-11-77	34.0
	CTS*	FIP	V76-18-41-66	32.0	V77-18-41-77	34.0
	CTS*	CTS*	V76-18-44-66	32.0	V77-18-44-77	34.0
21"	FIP	FIP	V76-21-11-66	32.0	V77-21-11-77	34.0
	CTS*	FIP	V76-21-41-66	32.0	V77-21-41-77	34.0
	CTS*	CTS*	V76-21-44-66	32.0	V77-21-44-77	34.0
24"	FIP	FIP	V76-24-11-66	33.0	V77-24-11-77	35.0
	CTS*	FIP	V76-24-41-66	33.0	V77-24-41-77	35.0
	CTS*	CTS*	V76-24-44-66	33.0	V77-24-44-77	35.0
27"	FIP	FIP	V76-27-11-66	33.0	V77-27-11-77	35.0
	CTS*	FIP	V76-27-41-66	33.0	V77-27-41-77	35.0
	CTS*	CTS*	V76-27-44-66	33.0	V77-27-44-77	35.0



Note: 1-1/2" & 2" Coppersetter with a meter Ell on the outlet is standard **without** a by-pass.

\* **Grip Joint** for Copper or Plastic tube (CTS) is available. Add "-G" to the catalog number.

### BALL VALVE INLET AND METER ELL OUTLET

HEIGHT	SERVICE LINE CONNECTION		FOR 1-1/2" METER CATALOG NUMBER	APPROX. Wt. LBS.	FOR 2" METER CATALOG NUMBER	APPROX. Wt. LBS.
	INLET	OUTLET				
12"	FIP	FIP	VB76-12-11-66	30.0	VB77-12-11-77	32.0
	CTS*	FIP	VB76-12-41-66	30.0	VB77-12-41-77	32.0
	CTS*	CTS*	VB76-12-44-66	30.0	VB77-12-44-77	32.0
15"	FIP	FIP	VB76-15-11-66	31.0	VB77-15-11-77	33.0
	CTS*	FIP	VB76-15-41-66	31.0	VB77-15-41-77	33.0
	CTS*	CTS*	VB76-15-44-66	31.0	VB77-15-44-77	33.0
18"	FIP	FIP	VB76-18-11-66	32.0	VB77-18-11-77	34.0
	CTS*	FIP	VB76-18-41-66	32.0	VB77-18-41-77	34.0
	CTS*	CTS*	VB76-18-44-66	32.0	VB77-18-44-77	34.0
21"	FIP	FIP	VB76-21-11-66	32.0	VB77-21-11-77	34.0
	CTS*	FIP	VB76-21-41-66	32.0	VB77-21-41-77	34.0
	CTS*	CTS*	VB76-21-44-66	32.0	VB77-21-44-77	34.0
24"	FIP	FIP	VB76-24-11-66	33.0	VB77-24-11-77	35.0
	CTS*	FIP	VB76-24-41-66	33.0	VB77-24-41-77	35.0
	CTS*	CTS*	VB76-24-44-66	33.0	VB77-24-44-77	35.0
27"	FIP	FIP	VB76-27-11-66	33.0	VB77-27-11-77	35.0
	CTS*	FIP	VB76-27-41-66	33.0	VB77-27-41-77	35.0
	CTS*	CTS*	VB76-27-44-66	33.0	VB77-27-44-77	35.0



Note: 1-1/2" & 2" Coppersetter with a meter Ell on the outlet is standard **without** a by-pass.

\* **Grip Joint** for Copper or Plastic tube (CTS) is available. Add "-G" to the catalog number.

**OPTIONS:** Options for 1-1/2" and 2" Coppersetters include couplings for adapting FIP to various types of service line material.  
Options found on pages 42 and 43.

# 70 Series Copper setters for 1-1/2" & 2" Flanged Meters

Horizontal inlet and outlet

UNLESS OTHERWISE SPECIFIED - STANDARD METER SPACING FOR: 1-1/2" COPPERSETTERS = 13"  
2" COPPERSETTERS = 17"

## KEY VALVE INLET AND OUTLET

HEIGHT	SERVICE LINE CONNECTION		FOR 1-1/2" METER CATALOG NUMBER	APPROX. Wt. LBS.	FOR 2" METER CATALOG NUMBER	APPROX. Wt. LBS.
	INLET	OUTLET				
12"	FIP	FIP	VV76-12B-11-66	30.0	VV77-12B-11-77	32.0
	CTS*	FIP	VV76-12B-41-66	30.0	VV77-12B-41-77	32.0
	CTS*	CTS*	VV76-12B-44-66	30.0	VV77-12B-44-77	32.0
15"	FIP	FIP	VV76-15B-11-66	31.0	VV77-15B-11-77	33.0
	CTS*	FIP	VV76-15B-41-66	31.0	VV77-15B-41-77	33.0
	CTS*	CTS*	VV76-15B-44-66	31.0	VV77-15B-44-77	33.0
18"	FIP	FIP	VV76-18B-11-66	32.0	VV77-18B-11-77	34.0
	CTS*	FIP	VV76-18B-41-66	32.0	VV77-18B-41-77	34.0
	CTS*	CTS*	VV76-18B-44-66	32.0	VV77-18B-44-77	34.0
21"	FIP	FIP	VV76-21B-11-66	32.0	VV77-21B-11-77	34.0
	CTS*	FIP	VV76-21B-41-66	32.0	VV77-21B-41-77	34.0
	CTS*	CTS*	VV76-21B-44-66	32.0	VV77-21B-44-77	34.0
24"	FIP	FIP	VV76-24B-11-66	33.0	VV77-24B-11-77	35.0
	CTS*	FIP	VV76-24B-41-66	33.0	VV77-24B-41-77	35.0
	CTS*	CTS*	VV76-24B-44-66	33.0	VV77-24B-44-77	35.0
27"	FIP	FIP	VV76-27B-11-66	33.0	VV77-27B-11-77	35.0
	CTS*	FIP	VV76-27B-41-66	33.0	VV77-27B-41-77	35.0
	CTS*	CTS*	VV76-27B-44-66	33.0	VV77-27B-44-77	35.0



**Note:** 1-1/2" & 2" Copper setters with a valve on the outlet are standard **with** a by-pass. The by-pass feature can be deleted by omitting the "B" from the middle of the catalog number. Example: VV76-12-11-66

\* **Grip Joint** for Copper or Plastic tube (CTS) is available. Add "-G" to the catalog number.

## BALL VALVE INLET AND OUTLET

HEIGHT	SERVICE LINE CONNECTION		FOR 1-1/2" METER CATALOG NUMBER	APPROX. Wt. LBS.	FOR 2" METER CATALOG NUMBER	APPROX. Wt. LBS.
	INLET	OUTLET				
12"	FIP	FIP	VBB76-12B-11-66	30.0	VBB77-12B-11-77	32.0
	CTS*	FIP	VBB76-12B-41-66	30.0	VBB77-12B-41-77	32.0
	CTS*	CTS*	VBB76-12B-44-66	30.0	VBB77-12B-44-77	32.0
15"	FIP	FIP	VBB76-15B-11-66	31.0	VBB77-15B-11-77	33.0
	CTS*	FIP	VBB76-15B-41-66	31.0	VBB77-15B-41-77	33.0
	CTS*	CTS*	VBB76-15B-44-66	31.0	VBB77-15B-44-77	33.0
18"	FIP	FIP	VBB76-18B-11-66	32.0	VBB77-18B-11-77	34.0
	CTS*	FIP	VBB76-18B-41-66	32.0	VBB77-18B-41-77	34.0
	CTS*	CTS*	VBB76-18B-44-66	32.0	VBB77-18B-44-77	34.0
21"	FIP	FIP	VBB76-21B-11-66	32.0	VBB77-21B-11-77	34.0
	CTS*	FIP	VBB76-21B-41-66	32.0	VBB77-21B-41-77	34.0
	CTS*	CTS*	VBB76-21B-44-66	32.0	VBB77-21B-44-77	34.0
24"	FIP	FIP	VBB76-24B-11-66	33.0	VBB77-24B-11-77	35.0
	CTS*	FIP	VBB76-24B-41-66	33.0	VBB77-24B-41-77	35.0
	CTS*	CTS*	VBB76-24B-44-66	33.0	VBB77-24B-44-77	35.0
27"	FIP	FIP	VBB76-27B-11-66	33.0	VBB77-27B-11-77	35.0
	CTS*	FIP	VBB76-27B-41-66	33.0	VBB77-27B-41-77	35.0
	CTS*	CTS*	VBB76-27B-44-66	33.0	VBB77-27B-44-77	35.0



**Note:** 1-1/2" & 2" Copper setters with a valve on the outlet are standard **with** a by-pass. The by-pass feature can be deleted by omitting the "B" from the middle of the catalog number. Example: VBB76-12-11-66

\* **Grip Joint** for Copper or Plastic tube (CTS) is available. Add "-G" to the catalog number.

**OPTIONS:** Options for 1-1/2" and 2" Copper setters include couplings for adapting FIP to various types of service line material. Optional hi by-pass for use when standard by-pass is difficult to reach. Options found on pages 42 and 43.

# 70 Series Copper setters for 1-1/2" & 2" Flanged Meters

## Horizontal inlet and outlet

UNLESS OTHERWISE SPECIFIED - STANDARD METER SPACING FOR: 1-1/2" COPPERSETTERS = 13"  
2" COPPERSETTERS = 17"

### KEY VALVE INLET AND ANGLE CHECK VALVE OUTLET

HEIGHT	SERVICE LINE CONNECTION		FOR 1-1/2" METER CATALOG NUMBER	APPROX. Wt. LBS.	FOR 2" METER CATALOG NUMBER	APPROX. Wt. LBS.
	INLET	OUTLET				
12"	FIP	FIP	VH76-12B-11-66	30.0	VH77-12B-11-77	32.0
	CTS*	FIP	VH76-12B-41-66	30.0	VH77-12B-41-77	32.0
	CTS*	CTS*	VH76-12B-44-66	30.0	VH77-12B-44-77	32.0
15"	FIP	FIP	VH76-15B-11-66	31.0	VH77-15B-11-77	33.0
	CTS*	FIP	VH76-15B-41-66	31.0	VH77-15B-41-77	33.0
	CTS*	CTS*	VH76-15B-44-66	31.0	VH77-15B-44-77	33.0
18"	FIP	FIP	VH76-18B-11-66	32.0	VH77-18B-11-77	34.0
	CTS*	FIP	VH76-18B-41-66	32.0	VH77-18B-41-77	34.0
	CTS*	CTS*	VH76-18B-44-66	32.0	VH77-18B-44-77	34.0
21"	FIP	FIP	VH76-21B-11-66	32.0	VH77-21B-11-77	34.0
	CTS*	FIP	VH76-21B-41-66	32.0	VH77-21B-41-77	34.0
	CTS*	CTS*	VH76-21B-44-66	32.0	VH77-21B-44-77	34.0
24"	FIP	FIP	VH76-24B-11-66	33.0	VH77-24B-11-77	35.0
	CTS*	FIP	VH76-24B-41-66	33.0	VH77-24B-41-77	35.0
	CTS*	CTS*	VH76-24B-44-66	33.0	VH77-24B-44-77	35.0
27"	FIP	FIP	VH76-27B-11-66	33.0	VH77-27B-11-77	35.0
	CTS*	FIP	VH76-27B-41-66	33.0	VH77-27B-41-77	35.0
	CTS*	CTS*	VH76-27B-44-66	33.0	VH77-27B-44-77	35.0



**Note:** 1-1/2" & 2" Copper setters with a valve on the outlet are standard **with** a by-pass. The by-pass feature can be deleted by omitting the "B" from the middle of the catalog number. Example: VH76-12-11-66.

\* **Grip Joint** for Copper or Plastic tube (CTS) is available. Add "-G" to the catalog number.

### BALL VALVE INLET AND ANGLE CHECK VALVE OUTLET

HEIGHT	SERVICE LINE CONNECTION		FOR 1-1/2" METER CATALOG NUMBER	APPROX. Wt. LBS.	FOR 2" METER CATALOG NUMBER	APPROX. Wt. LBS.
	INLET	OUTLET				
12"	FIP	FIP	VBH76-12B-11-66	30.0	VBH77-12B-11-77	32.0
	CTS*	FIP	VBH76-12B-41-66	30.0	VBH77-12B-41-77	32.0
	CTS*	CTS*	VBH76-12B-44-66	30.0	VBH77-12B-44-77	32.0
15"	FIP	FIP	VBH76-15B-11-66	31.0	VBH77-15B-11-77	33.0
	CTS*	FIP	VBH76-15B-41-66	31.0	VBH77-15B-41-77	33.0
	CTS*	CTS*	VBH76-15B-44-66	31.0	VBH77-15B-44-77	33.0
18"	FIP	FIP	VBH76-18B-11-66	32.0	VBH77-18B-11-77	34.0
	CTS*	FIP	VBH76-18B-41-66	32.0	VBH77-18B-41-77	34.0
	CTS*	CTS*	VBH76-18B-44-66	32.0	VBH77-18B-44-77	34.0
21"	FIP	FIP	VBH76-21B-11-66	32.0	VBH77-21B-11-77	34.0
	CTS*	FIP	VBH76-21B-41-66	32.0	VBH77-21B-41-77	34.0
	CTS*	CTS*	VBH76-21B-44-66	32.0	VBH77-21B-44-77	34.0
24"	FIP	FIP	VBH76-24B-11-66	33.0	VBH77-24B-11-77	35.0
	CTS*	FIP	VBH76-24B-41-66	33.0	VBH77-24B-41-77	35.0
	CTS*	CTS*	VBH76-24B-44-66	33.0	VBH77-24B-44-77	35.0
27"	FIP	FIP	VBH76-27B-11-66	33.0	VBH77-27B-11-77	35.0
	CTS*	FIP	VBH76-27B-41-66	33.0	VBH77-27B-41-77	35.0
	CTS*	CTS*	VBH76-27B-44-66	33.0	VBH77-27B-44-77	35.0



**Note:** 1-1/2" & 2" Copper setters with a valve on the outlet are standard **with** a by-pass. The by-pass feature can be deleted by omitting the "B" from the middle of the catalog number. Example: VBH76-12-11-66

\* **Grip Joint** for Copper or Plastic tube (CTS) is available. Add "-G" to the catalog number.

**OPTIONS:** Options for 1-1/2" and 2" Copper setters include couplings for adapting FIP to various types of service line material.  
Optional hi by-pass for use when standard by-pass is difficult to reach.  
Options found on pages 42 and 43.

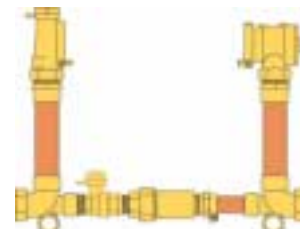
# 70 Series Copper setters for 1-1/2" & 2" Flanged Meters

Horizontal inlet and outlet

UNLESS OTHERWISE SPECIFIED - STANDARD METER SPACING FOR: 1-1/2" COPPERSETTERS = 13"  
2" COPPERSETTERS = 17"

## KEY VALVE INLET AND ASSE APPROVED ANGLE DUAL CHECK VALVE OUTLET

HEIGHT	SERVICE LINE CONNECTION		FOR 1-1/2" METER CATALOG NUMBER	APPROX. Wt. LBS.	FOR 2" METER CATALOG NUMBER	APPROX. Wt. LBS.
	INLET	OUTLET				
12"	FIP	FIP	VHH76-12B-11-66	30.0	VHH77-12B-11-77	32.0
	CTS*	FIP	VHH76-12B-41-66	30.0	VHH77-12B-41-77	32.0
	CTS*	CTS*	VHH76-12B-44-66	30.0	VHH77-12B-44-77	32.0
15"	FIP	FIP	VHH76-15B-11-66	31.0	VHH77-15B-11-77	33.0
	CTS*	FIP	VHH76-15B-41-66	31.0	VHH77-15B-41-77	33.0
	CTS*	CTS*	VHH76-15B-44-66	31.0	VHH77-15B-44-77	33.0
18"	FIP	FIP	VHH76-18B-11-66	32.0	VHH77-18B-11-77	34.0
	CTS*	FIP	VHH76-18B-41-66	32.0	VHH77-18B-41-77	34.0
	CTS*	CTS*	VHH76-18B-44-66	32.0	VHH77-18B-44-77	34.0
21"	FIP	FIP	VHH76-21B-11-66	32.0	VHH77-21B-11-77	34.0
	CTS*	FIP	VHH76-21B-41-66	32.0	VHH77-21B-41-77	34.0
	CTS*	CTS*	VHH76-21B-44-66	32.0	VHH77-21B-44-77	34.0
24"	FIP	FIP	VHH76-24B-11-66	33.0	VHH77-24B-11-77	35.0
	CTS*	FIP	VHH76-24B-41-66	33.0	VHH77-24B-41-77	35.0
	CTS*	CTS*	VHH76-24B-44-66	33.0	VHH77-24B-44-77	35.0
27"	FIP	FIP	VHH76-27B-11-66	33.0	VHH77-27B-11-77	35.0
	CTS*	FIP	VHH76-27B-41-66	33.0	VHH77-27B-41-77	35.0
	CTS*	CTS*	VHH76-27B-44-66	33.0	VHH77-27B-44-77	35.0



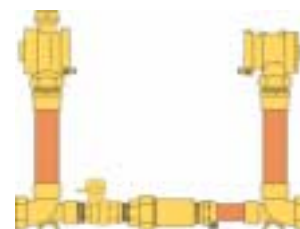
Shown with Cartridge Style Dual Check Valve in By-Pass. See information below to order this feature.

**Note:** 1-1/2" & 2" Copper setters with a valve on the outlet are standard **with** a by-pass. The by-pass feature can be deleted by omitting the "B" from the middle of the catalog number. Example: VHH76-12-11-66. For By-Pass with 1" Cartridge Style Dual Check Valve, insert "HC" after the "B." Example: VHH77-12BHC-11-77.

\* **Grip Joint** for Copper or Plastic tube (CTS) is available. Add "-G" to the catalog number.

## BALL VALVE INLET AND ASSE APPROVED ANGLE DUAL CHECK VALVE OUTLET

HEIGHT	SERVICE LINE CONNECTION		FOR 1-1/2" METER CATALOG NUMBER	APPROX. Wt. LBS.	FOR 2" METER CATALOG NUMBER	APPROX. Wt. LBS.
	INLET	OUTLET				
12"	FIP	FIP	VBHH76-12B-11-66	30.0	VBHH77-12B-11-77	32.0
	CTS*	FIP	VBHH76-12B-41-66	30.0	VBHH77-12B-41-77	32.0
	CTS*	CTS*	VBHH76-12B-44-66	30.0	VBHH77-12B-44-77	32.0
15"	FIP	FIP	VBHH76-15B-11-66	31.0	VBHH77-15B-11-77	33.0
	CTS*	FIP	VBHH76-15B-41-66	31.0	VBHH77-15B-41-77	33.0
	CTS*	CTS*	VBHH76-15B-44-66	31.0	VBHH77-15B-44-77	33.0
18"	FIP	FIP	VBHH76-18B-11-66	32.0	VBHH77-18B-11-77	34.0
	CTS*	FIP	VBHH76-18B-41-66	32.0	VBHH77-18B-41-77	34.0
	CTS*	CTS*	VBHH76-18B-44-66	32.0	VBHH77-18B-44-77	34.0
21"	FIP	FIP	VBHH76-21B-11-66	32.0	VBHH77-21B-11-77	34.0
	CTS*	FIP	VBHH76-21B-41-66	32.0	VBHH77-21B-41-77	34.0
	CTS*	CTS*	VBHH76-21B-44-66	32.0	VBHH77-21B-44-77	34.0
24"	FIP	FIP	VBHH76-24B-11-66	33.0	VBHH77-24B-11-77	35.0
	CTS*	FIP	VBHH76-24B-41-66	33.0	VBHH77-24B-41-77	35.0
	CTS*	CTS*	VBHH76-24B-44-66	33.0	VBHH77-24B-44-77	35.0
27"	FIP	FIP	VBHH76-27B-11-66	33.0	VBHH77-27B-11-77	35.0
	CTS*	FIP	VBHH76-27B-41-66	33.0	VBHH77-27B-41-77	35.0
	CTS*	CTS*	VBHH76-27B-44-66	33.0	VBHH77-27B-44-77	35.0



Shown with Cartridge Style Dual Check Valve in By-Pass. See information below to order this feature.

**Note:** 1-1/2" & 2" Copper setters with a valve on the outlet are standard **with** a by-pass. The by-pass feature can be deleted by omitting the "B" from the middle of the catalog number. Example: VBHH76-12-11-66. For By-Pass with 1" Cartridge Style Dual Check Valve, insert "HC" after the "B." Example: VBHH77-12BHC-11-77.

\* **Grip Joint** for Copper or Plastic tube (CTS) is available. Add "-G" to the catalog number.

**OPTIONS:** Options for 1-1/2" and 2" Copper setters include couplings for adapting FIP to various types of service line material.  
Optional hi by-pass for use when standard by-pass is difficult to reach.  
Options found on pages 42 and 43.

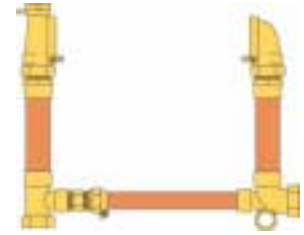
# 70-80 Series Copper setters for 1-1/2" & 2" Flanged Meters

## Vertical inlet and Horizontal outlet

UNLESS OTHERWISE SPECIFIED - STANDARD METER SPACING FOR: 1-1/2" COPPERSETTERS = 13"  
2" COPPERSETTERS = 17"

### KEY VALVE INLET AND METER ELL OUTLET

FOR 1-1/2" METER			FOR 2" METER	
HEIGHT	CATALOG NUMBER	APPROX. WT. LBS.	CATALOG NUMBER	APPROX. WT. LBS.
12"	V76-86-12-11-66	30.0	V77-87-12-11-77	32.0
15"	V76-86-15-11-66	31.0	V77-87-15-11-77	33.0
18"	V76-86-18-11-66	32.0	V77-87-18-11-77	34.0
21"	V76-86-21-11-66	32.0	V77-87-21-11-77	34.0
24"	V76-86-24-11-66	33.0	V77-87-24-11-77	35.0
27"	V76-86-27-11-66	33.0	V77-87-27-11-77	35.0



**Note:** 1-1/2" & 2" Copper setter with a Meter Ell on the outlet is standard *without* a by-pass.

### BALL VALVE INLET AND METER ELL OUTLET

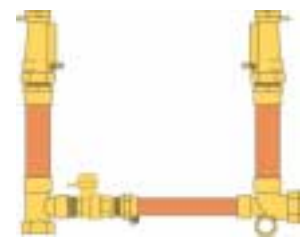
FOR 1-1/2" METER			FOR 2" METER	
HEIGHT	CATALOG NUMBER	APPROX. WT. LBS.	CATALOG NUMBER	APPROX. WT. LBS.
12"	VB76-86-12-11-66	30.0	VB77-87-12-11-77	32.0
15"	VB76-86-15-11-66	31.0	VB77-87-15-11-77	33.0
18"	VB76-86-18-11-66	32.0	VB77-87-18-11-77	34.0
21"	VB76-86-21-11-66	32.0	VB77-87-21-11-77	34.0
24"	VB76-86-24-11-66	33.0	VB77-87-24-11-77	35.0
27"	VB76-86-27-11-66	33.0	VB77-87-27-11-77	35.0



**Note:** 1-1/2" & 2" Copper setter with a Meter Ell on the outlet is standard *without* a by-pass.

### KEY VALVE INLET AND OUTLET

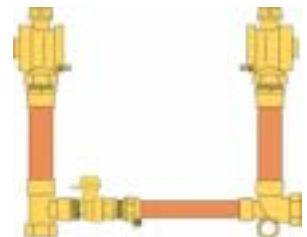
FOR 1-1/2" METER			FOR 2" METER	
HEIGHT	CATALOG NUMBER	APPROX. WT. LBS.	CATALOG NUMBER	APPROX. WT. LBS.
12"	VV76-86-12B-11-66	32.0	VV77-87-12B-11-77	36.0
15"	VV76-86-15B-11-66	33.0	VV77-87-15B-11-77	37.0
18"	VV76-86-18B-11-66	34.0	VV77-87-18B-11-77	38.0
21"	VV76-86-21B-11-66	34.0	VV77-87-21B-11-77	40.0
24"	VV76-86-24B-11-66	35.0	VV77-87-24B-11-77	40.0
27"	VV76-86-27B-11-66	35.0	VV77-87-27B-11-77	41.0



**Note:** 1-1/2" & 2" Copper setters with a valve on the outlet are standard *with* a by-pass. The by-pass feature can be deleted by omitting the "B" from the middle of the catalog number. Example: VV76-86-15-11-66

### BALL VALVE INLET AND OUTLET

FOR 1-1/2" METER			FOR 2" METER	
HEIGHT	CATALOG NUMBER	APPROX. WT. LBS.	CATALOG NUMBER	APPROX. WT. LBS.
12"	VBB76-86-12B-11-66	32.0	VBB77-87-12B-11-77	37.0
15"	VBB76-86-15B-11-66	33.0	VBB77-87-15B-11-77	38.0
18"	VBB76-86-18B-11-66	34.0	VBB77-87-18B-11-77	39.0
21"	VBB76-86-21B-11-66	36.0	VBB77-87-21B-11-77	41.0
24"	VBB76-86-24B-11-66	37.0	VBB77-87-24B-11-77	42.0
27"	VBB76-86-27B-11-66	39.0	VBB77-87-27B-11-77	43.0



**Note:** 1-1/2" & 2" Copper setters with a valve on the outlet are standard *with* a by-pass. The by-pass feature can be deleted by omitting the "B" from the middle of the catalog number. Example: VBB76-86-15B-11-66.

**OPTIONS:** Options for 1-1/2" and 2" Copper setters include couplings for adapting FIP to various types of service line material. Optional hi by-pass for use when standard by-pass is difficult to reach. Options found on pages 42 and 43.

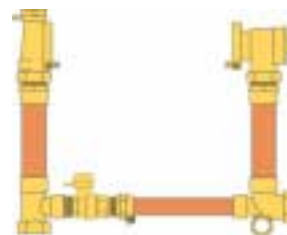
# 70-80 Series Copper setters for 1-1/2" & 2" Flanged Meters

Vertical inlet and Horizontal outlet

UNLESS OTHERWISE SPECIFIED - STANDARD METER SPACING FOR: 1-1/2" COPPERSETTERS = 13"  
2" COPPERSETTERS = 17"

## KEY VALVE INLET AND ANGLE CHECK VALVE OUTLET

FOR 1-1/2" METER			FOR 2" METER	
HEIGHT	CATALOG NUMBER	APPROX. WT. LBS.	CATALOG NUMBER	APPROX. WT. LBS.
12"	VH76-86-12B-11-66	27.0	VH77-87-12B-11-77	37.0
15"	VH76-86-15B-11-66	28.0	VH77-87-15B-11-77	38.0
18"	VH76-86-18B-11-66	29.0	VH77-87-18B-11-77	39.0
21"	VH76-86-21B-11-66	30.0	VH77-87-21B-11-77	41.0
24"	VH76-86-24B-11-66	31.0	VH77-87-24B-11-77	42.0
27"	VH76-86-27B-11-66	32.0	VH77-87-27B-11-77	43.0



**Note:** 1-1/2" & 2" Copper setters with a valve on the outlet are standard **with** a by-pass. The by-pass feature can be deleted by omitting the "B" from the middle of the catalog number. Example: VH76-86-12B-11-66.

## BALL VALVE INLET AND ANGLE CHECK VALVE OUTLET

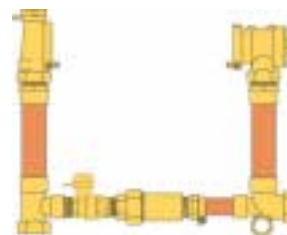
FOR 1-1/2" METER			FOR 2" METER	
HEIGHT	CATALOG NUMBER	APPROX. WT. LBS.	CATALOG NUMBER	APPROX. WT. LBS.
12"	VBH76-86-12B-11-66	33.0	VBH77-87-12B-11-77	41.0
15"	VBH76-86-15B-11-66	34.0	VBH77-87-15B-11-77	42.0
18"	VBH76-86-18B-11-66	35.0	VBH77-87-18B-11-77	43.0
21"	VBH76-86-21B-11-66	36.0	VBH77-87-21B-11-77	44.0
24"	VBH76-86-24B-11-66	36.0	VBH77-87-24B-11-77	44.0
27"	VBH76-86-27B-11-66	37.0	VBH77-87-27B-11-77	45.0



**Note:** 1-1/2" & 2" Copper setters with a valve on the outlet are standard **with** a by-pass. The by-pass feature can be deleted by omitting the "B" from the middle of the catalog number. Example: VBH76-86-12B-11-66.

## KEY VALVE INLET AND ASSE APPROVED ANGLE DUAL CHECK VALVE OUTLET

FOR 1-1/2" METER			FOR 2" METER	
HEIGHT	CATALOG NUMBER	APPROX. WT. LBS.	CATALOG NUMBER	APPROX. WT. LBS.
12"	VHH76-86-12B-11-66	27.0	VHH77-87-12B-11-77	37.0
15"	VHH76-86-15B-11-66	28.0	VHH77-87-15B-11-77	38.0
18"	VHH76-86-18B-11-66	29.0	VHH77-87-18B-11-77	39.0
21"	VHH76-86-21B-11-66	30.0	VHH77-87-21B-11-77	41.0
24"	VHH76-86-24B-11-66	31.0	VHH77-87-24B-11-77	42.0
27"	VHH76-86-27B-11-66	32.0	VHH77-87-27B-11-77	43.0



**Note:** 1-1/2" & 2" Copper setters with a valve on the outlet are standard **with** a by-pass. The by-pass feature can be deleted by omitting the "B" from the middle of the catalog number. Example: VHH76-86-12B-11-66. For By-Pass with 1" Cartridge Style Dual Check Valve, insert "HC" after the "B." Example: VHH76-86-12BHC1166.

Shown with Cartridge Style Dual Check Valve in By-Pass. See information at left to order this feature.

## BALL VALVE INLET AND ASSE APPROVED ANGLE DUAL CHECK VALVE OUTLET

FOR 1-1/2" METER			FOR 2" METER	
HEIGHT	CATALOG NUMBER	APPROX. WT. LBS.	CATALOG NUMBER	APPROX. WT. LBS.
12"	VBHH76-86-12B-1166	33.0	VBHH77-87-12B-1177	41.0
15"	VBHH76-86-15B-1166	34.0	VBHH77-87-15B-1177	42.0
18"	VBHH76-86-18B-1166	35.0	VBHH77-87-18B-1177	43.0
21"	VBHH76-86-21B-1166	36.0	VBHH77-87-21B-1177	44.0
24"	VBHH76-86-24B-1166	36.0	VBHH77-87-24B-1177	44.0
27"	VBHH76-86-27B-1166	37.0	VBHH77-87-27B-1177	45.0



**Note:** 1-1/2" & 2" Copper setters with a valve on the outlet are standard **with** a by-pass. The by-pass feature can be deleted by omitting the "B" from the middle of the catalog number. Example: VBHH76-86-12B-1166. For By-Pass with 1" Cartridge Style Dual Check Valve, insert "HC" after the "B." Example: VBHH76-86-12BHC1166.

Shown with Cartridge Style Dual Check Valve in By-Pass. See information at left to order this feature.

**OPTIONS:** Options for 1-1/2" and 2" Copper setters include couplings for adapting FIP to various types of service line material. Optional hi by-pass for use when standard by-pass is difficult to reach. Options found on pages 42 and 43.

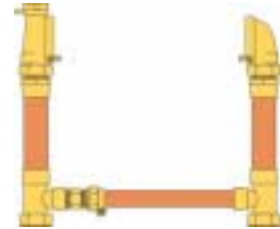
# 80 Series Copper setters for 1-1/2" & 2" Flanged Meters

## Vertical inlet and Vertical outlet

UNLESS OTHERWISE SPECIFIED - STANDARD METER SPACING FOR: 1-1/2" COPPERSETTERS = 13"  
2" COPPERSETTERS = 17"

### KEY VALVE INLET AND METER ELL OUTLET

FOR 1-1/2" METER			FOR 2" METER	
HEIGHT	CATALOG NUMBER	APPROX. WT. LBS.	CATALOG NUMBER	APPROX. WT. LBS.
12"	V86-12-11-66	30.0	V87-12-11-77	32.0
15"	V86-15-11-66	31.0	V87-15-11-77	33.0
18"	V86-18-11-66	32.0	V87-18-11-77	34.0
21"	V86-21-11-66	32.0	V87-21-11-77	34.0
24"	V86-24-11-66	33.0	V87-24-11-77	35.0
27"	V86-27-11-66	33.0	V87-27-11-77	35.0



**Note:** 1-1/2" & 2" Copper setter with a Meter Ell on the outlet is standard *without* a by-pass.

### BALL VALVE INLET AND METER ELL OUTLET

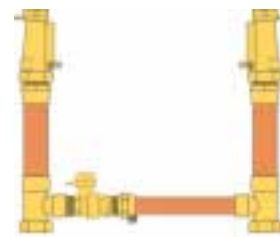
FOR 1-1/2" METER			FOR 2" METER	
HEIGHT	CATALOG NUMBER	APPROX. WT. LBS.	CATALOG NUMBER	APPROX. WT. LBS.
12"	VB86-12-11-66	30.0	VB87-12-11-77	32.0
15"	VB86-15-11-66	31.0	VB87-15-11-77	33.0
18"	VB86-18-11-66	32.0	VB87-18-11-77	34.0
21"	VB86-21-11-66	32.0	VB87-21-11-77	34.0
24"	VB86-24-11-66	33.0	VB87-24-11-77	35.0
27"	VB86-27-11-66	33.0	VB87-27-11-77	35.0



**Note:** 1-1/2" & 2" Copper setter with a Meter Ell on the outlet is standard *without* a by-pass.

### KEY VALVE INLET AND OUTLET

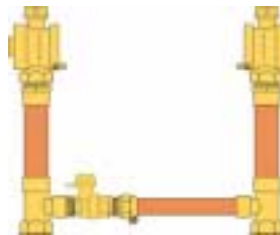
FOR 1-1/2" METER			FOR 2" METER	
HEIGHT	CATALOG NUMBER	APPROX. WT. LBS.	CATALOG NUMBER	APPROX. WT. LBS.
12"	VV86-12B-11-66	32.0	VV87-12B-11-77	36.0
15"	VV86-15B-11-66	33.0	VV87-15B-11-77	37.0
18"	VV86-18B-11-66	34.0	VV87-18B-11-77	38.0
21"	VV86-21B-11-66	34.0	VV87-21B-11-77	40.0
24"	VV86-24B-11-66	35.0	VV87-24B-11-77	40.0
27"	VV86-27B-11-66	35.0	VV87-27B-11-77	41.0



**Note:** 1-1/2" & 2" Copper setters with a valve on the outlet are standard *with* a by-pass. The by-pass feature can be deleted by omitting the "B" from the middle of the catalog number. Example: VV86-12-11-66

### BALL VALVE INLET AND OUTLET

FOR 1-1/2" METER			FOR 2" METER	
HEIGHT	CATALOG NUMBER	APPROX. WT. LBS.	CATALOG NUMBER	APPROX. WT. LBS.
12"	VBB86-12B-11-66	32.0	VBB87-12B-11-77	37.0
15"	VBB86-15B-11-66	33.0	VBB87-15B-11-77	38.0
18"	VBB86-18B-11-66	34.0	VBB87-18B-11-77	39.0
21"	VBB86-21B-11-66	36.0	VBB87-21B-11-77	41.0
24"	VBB86-24B-11-66	37.0	VBB87-24B-11-77	42.0
27"	VBB86-27B-11-66	39.0	VBB87-27B-11-77	43.0



**Note:** 1-1/2" & 2" Copper setters with a valve on the outlet are standard *with* a by-pass. The by-pass feature can be deleted by omitting the "B" from the middle of the catalog number. Example: VBB86-12B-11-66.

**OPTIONS:** Options for 1-1/2" and 2" Copper setters include couplings for adapting FIP to various types of service line material.  
Optional hi by-pass for use when standard by-pass is difficult to reach.  
Options found on pages 42 and 43.

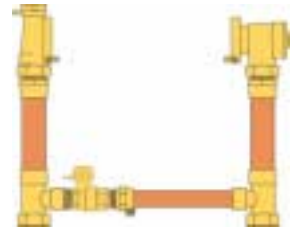
# 80 Series Coppersettlers for 1-1/2" & 2" Flanged Meters

Vertical inlet and Vertical outlet

UNLESS OTHERWISE SPECIFIED - STANDARD METER SPACING FOR: 1-1/2" COPPERSETTLERS = 13"  
2" COPPERSETTLERS = 17"

## KEY VALVE INLET AND ANGLE CHECK VALVE OUTLET

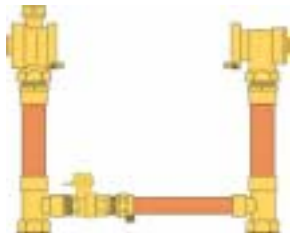
FOR 1-1/2" METER			FOR 2" METER	
HEIGHT	CATALOG NUMBER	APPROX. WT. LBS.	CATALOG NUMBER	APPROX. WT. LBS.
12"	VH86-12B-11-66	27.0	VH87-12B-11-77	37.0
15"	VH86-15B-11-66	28.0	VH87-15B-11-77	38.0
18"	VH86-18B-11-66	29.0	VH87-18B-11-77	39.0
21"	VH86-21B-11-66	30.0	VH87-21B-11-77	41.0
24"	VH86-24B-11-66	31.0	VH87-24B-11-77	42.0
27"	VH86-27B-11-66	32.0	VH87-27B-11-77	43.0



**Note:** 1-1/2" & 2" Coppersettlers with a valve on the outlet are standard **with** a by-pass. The by-pass feature can be deleted by omitting the "B" from the middle of the catalog number. Example: VH86-12B-11-66.

## BALL VALVE INLET AND ANGLE CHECK VALVE OUTLET

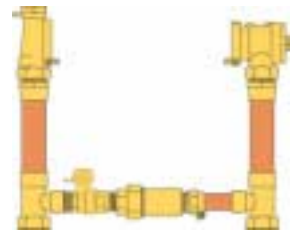
FOR 1-1/2" METER			FOR 2" METER	
HEIGHT	CATALOG NUMBER	APPROX. WT. LBS.	CATALOG NUMBER	APPROX. WT. LBS.
12"	VBH86-12B-11-66	33.0	VBH87-12B-11-77	41.0
15"	VBH86-15B-11-66	34.0	VBH87-15B-11-77	42.0
18"	VBH86-18B-11-66	35.0	VBH87-18B-11-77	43.0
21"	VBH86-21B-11-66	36.0	VBH87-21B-11-77	44.0
24"	VBH86-24B-11-66	36.0	VBH87-24B-11-77	44.0
27"	VBH86-27B-11-66	37.0	VBH87-27B-11-77	45.0



**Note:** 1-1/2" & 2" Coppersettlers with a valve on the outlet are standard **with** a by-pass. The by-pass feature can be deleted by omitting the "B" from the middle of the catalog number. Example: VBH86-12B-11-66.

## KEY VALVE INLET AND ASSE APPROVED ANGLE DUAL CHECK VALVE OUTLET

FOR 1-1/2" METER			FOR 2" METER	
HEIGHT	CATALOG NUMBER	APPROX. WT. LBS.	CATALOG NUMBER	APPROX. WT. LBS.
12"	VHH86-12B-11-66	27.0	VHH87-12B-11-77	37.0
15"	VHH86-15B-11-66	28.0	VHH87-15B-11-77	38.0
18"	VHH86-18B-11-66	29.0	VHH87-18B-11-77	39.0
21"	VHH86-21B-11-66	30.0	VHH87-21B-11-77	41.0
24"	VHH86-24B-11-66	31.0	VHH87-24B-11-77	42.0
27"	VHH86-27B-11-66	32.0	VHH87-27B-11-77	43.0



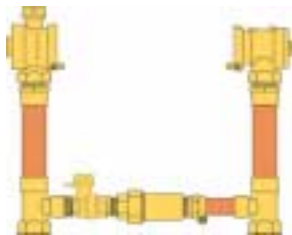
**Note:** 1-1/2" & 2" Coppersettlers with a valve on the outlet are standard **with** a by-pass. The by-pass feature can be deleted by omitting the "B" from the middle of the catalog number.

Example: VHH86-12B-11-66. For By-Pass with 1" Cartridge Style Dual Check Valve, insert "HC" after the "B." Example: VHH86-12BHC-11-66.

Shown with Cartridge Style Dual Check Valve in By-Pass. See information at left to order this feature.

## BALL VALVE INLET AND ASSE APPROVED ANGLE DUAL CHECK VALVE OUTLET

FOR 1-1/2" METER			FOR 2" METER	
HEIGHT	CATALOG NUMBER	APPROX. WT. LBS.	CATALOG NUMBER	APPROX. WT. LBS.
12"	VBHH86-12B-11-66	33.0	VBHH87-12B-11-77	41.0
15"	VBHH86-15B-11-66	34.0	VBHH87-15B-11-77	42.0
18"	VBHH86-18B-11-66	35.0	VBHH87-18B-11-77	43.0
21"	VBHH86-21B-11-66	36.0	VBHH87-21B-11-77	44.0
24"	VBHH86-24B-11-66	36.0	VBHH87-24B-11-77	44.0
27"	VBHH86-27B-11-66	37.0	VBHH87-27B-11-77	45.0



**Note:** 1-1/2" & 2" Coppersettlers with a valve on the outlet are standard **with** a by-pass. The by-pass feature can be deleted by omitting the "B" from the middle of the catalog number. Example: VBHH86-12B-11-66. For By-Pass with 1" Cartridge Style Dual Check Valve, insert "HC" after the "B."

Example: VBHH86-12BHC-11-66.

Shown with Cartridge Style Dual Check Valve in By-Pass. See information at left to order this feature.

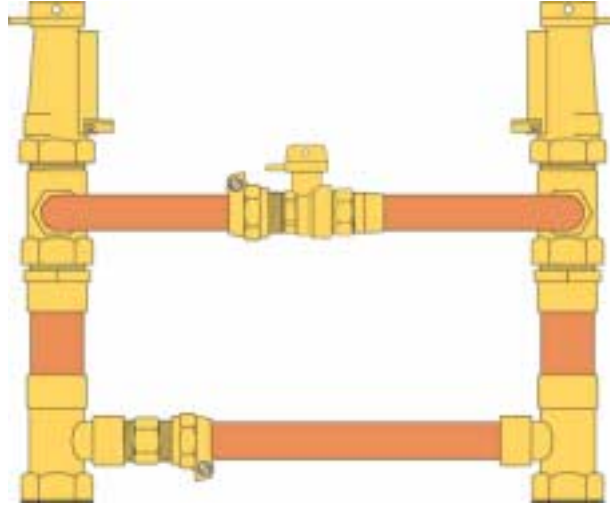
**OPTIONS:** Options for 1-1/2" and 2" Coppersettlers include couplings for adapting FIP to various types of service line material. Optional hi-by-pass for use when standard by-pass is difficult to reach. Options found on pages 42 and 43.



# Coppersettlers for 1-1/2" & 2" Flanged Meters

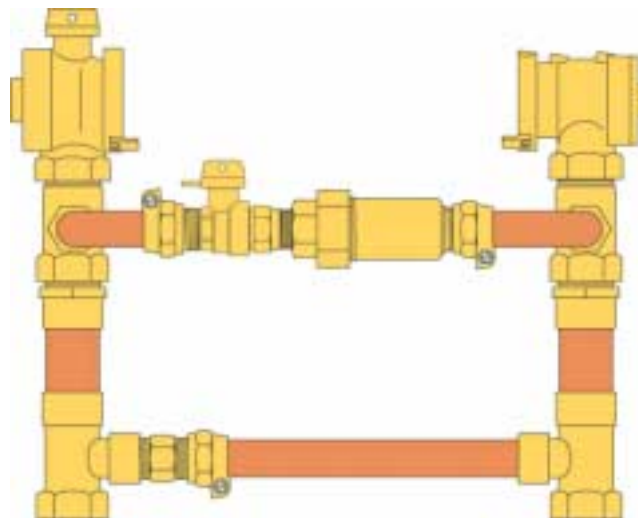
## Options

### High By-Pass Option



1-1/2" & 2" Coppersettlers (minimum 12" height) are available with an optional "high by-pass". This option is popular with taller Coppersettlers or when a standard by-pass is difficult to reach. To order add "HB" to catalog number. Example: VV86-12HB-11-66.

### By-Pass With Cartridge Style Dual Check Valve Option (Available with Standard or High By-Pass Options)



**To Order:** Place "HC" after the "B" By-Pass designator.

Examples: Standard By-Pass – VBHH87-12BHC-11-77

High By-Pass – VBHH87-18HBHC-1177

**Note:** Dual Check Valve option shown with Dual Check Valve in By-Pass.

# Coppersettters for 1-1/2" & 2" Flanged Meters

Options

## 1-1/2" & 2" 70 Series Coppersetter Tees

CATALOG NUMBER	DESCRIPTION
CSTEE-6-T	1-1/2" Horizontal Inlet Coppersetter Tee
CSTEE-7-T	2" Horizontal Inlet Coppersetter Tee
CSTEE-6B-T	1-1/2" Horizontal Inlet Coppersetter Tee for by-pass
CSTEE-7B-T	2" Horizontal Inlet Coppersetter Tee for by-pass
CSTEE-6-S	1-1/2" Horizontal Outlet Coppersetter Tee
CSTEE-7-S	2" Horizontal Outlet Coppersetter Tee
CSTEE-6B-S	1-1/2" Horizontal Outlet Coppersetter Tee for by-pass
CSTEE-7B-S	2" Horizontal Outlet Coppersetter Tee for by-pass

## 1-1/2" & 2" 80 Series Coppersetter Tees

CATALOG NUMBER	DESCRIPTION
T1S1-664	1-1/2" Vertical Inlet/Outlet Coppersetter tee for By-Pass
T1S1-774	2" Vertical Inlet/Outlet Coppersetter tee for By-Pass

## 1-1/2" & 2" Coppersetter Bushings and High By-Pass Tees

CATALOG NUMBER	DESCRIPTION
CSSB-6	1-1/2" Solder valve bushing for 1-1/2" copper
CSSB-7	2" Solder valve bushing for 2" copper
T184-664	High By-Pass tee for 1-1/2" Coppersetter
T184-774	High By-Pass tee for 2" Coppersetter

## Optional Couplings

1-1/2" & 2" Coppersettters with FIP only end connections can be connected to other types of service lines by use of the couplings listed below.  
(complete listing in Catalog Section J)

FOR CONNECTING TO:	1-1/2" COUPLING	2" COUPLING
Copper or Plastic Tube*	C84-66	C84-77
PVC Pipe	C87-66	C87-77
PE Pipe	C86-66-IDR7	C86-77-IDR7
Iron Pipe	C85-66	C85-77
Flared Copper	C28-66	C28-77

\* **Grip Joint** for Copper or Plastic tube (CTS\*) is available.  
Add "-G" to the catalog number.

# The Ford Resetter

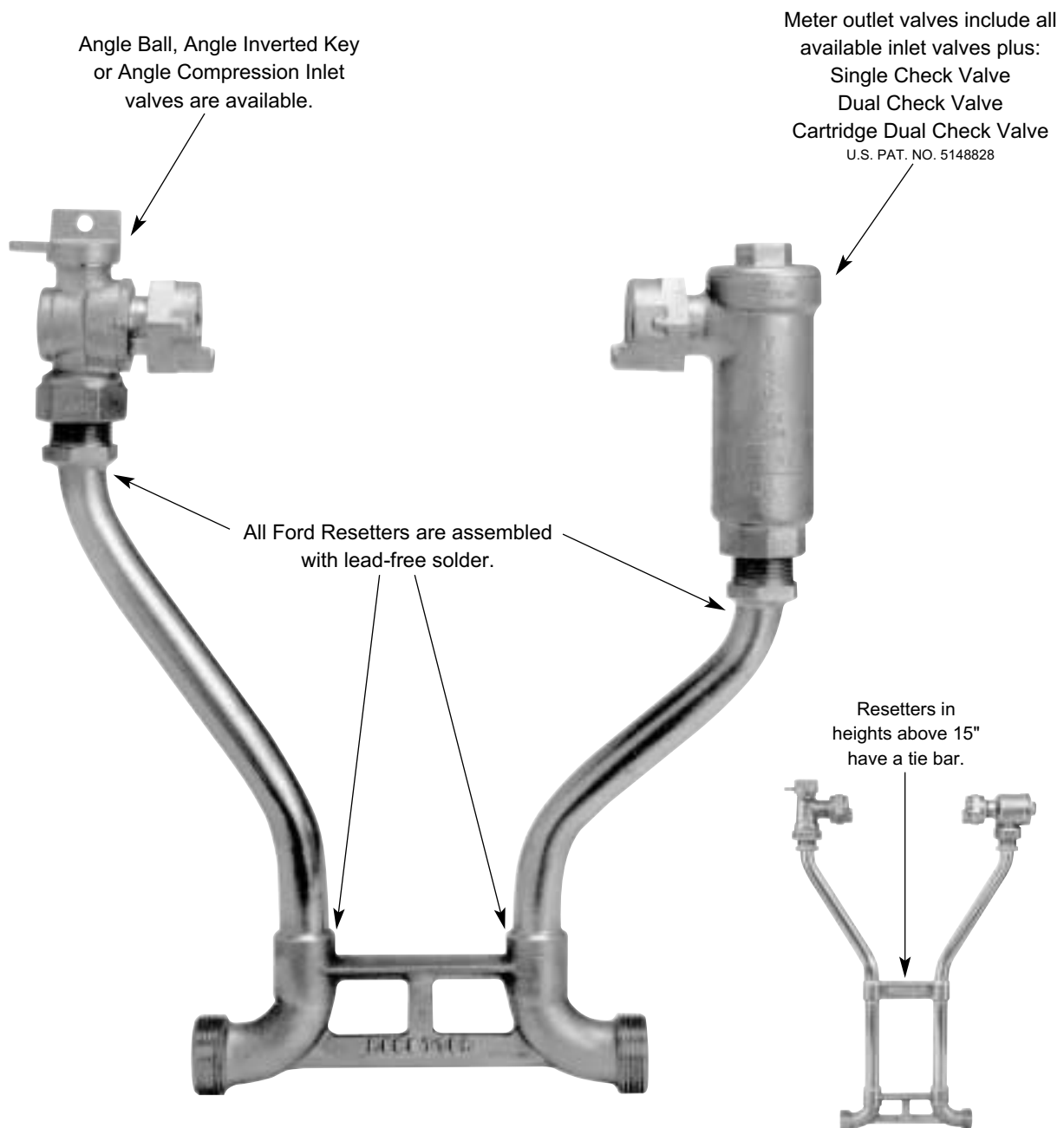
Correcting low settings with the Ford Resetter is quick and easy. The meter is removed, the Resetter bar connected in the position formerly occupied by the meter, and the meter reset in the raised position. No new pipe joints are necessary. The reset meter is cleaner, easier to read, and much simpler to change.

When the old service valve is in poor condition or poor location, the Resetter with one or two valves provides convenient control, putting the valve or valves at the most accessible location. An outlet valve prevents draining customer service when the meter is removed. Resetters, either plain or valve type, are inexpensive when compared to any other means of obtaining these results.

The brass bar of the Resetter is the same length and has the same threads as the meter to reset. Copper clad gaskets are furnished for connecting the bar between the old meter couplings. In heights above 15", all Resettlers have the tie bars as shown below.

**To order:** Select one Catalog Number component from each of two charts on page 47 to arrive at the complete Resetter Catalog Number. Selection order of components:

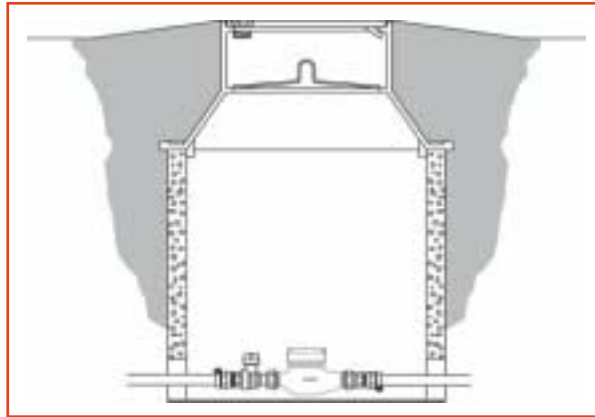
1. Meter size and valve type
2. Resetter height



# The Ford 40 Series Resetter

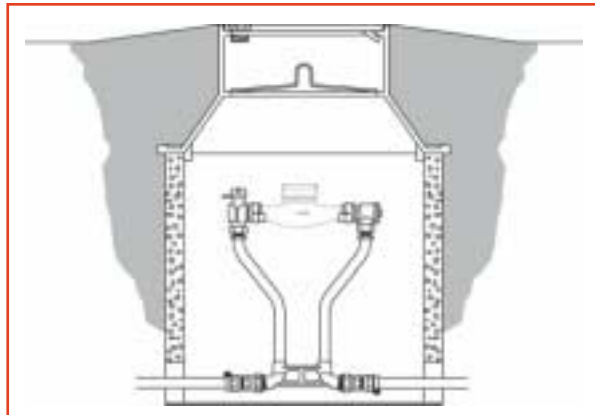
## Before

This drawing is typical of the position (but not the condition) of meters set too low. Such meters are frequently covered by mud or water, are difficult to read quickly and accurately and, being troublesome to change, tend to be left in place when needing repair.



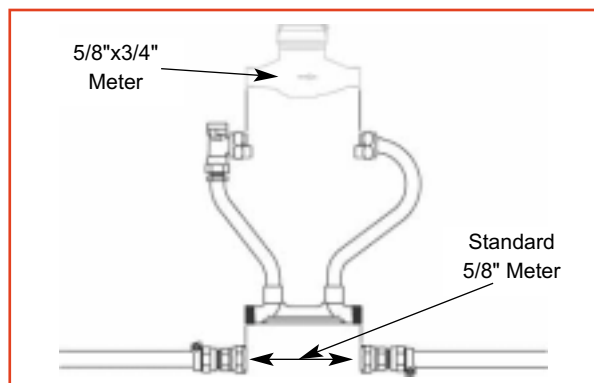
## After

The benefit of the Resetter is shown below. The meter stays cleaner, is easier to read and much easier to change. The valve, included on the Resetter in this case, is easily accessible. The economic return of resetting meters can be surprisingly substantial.



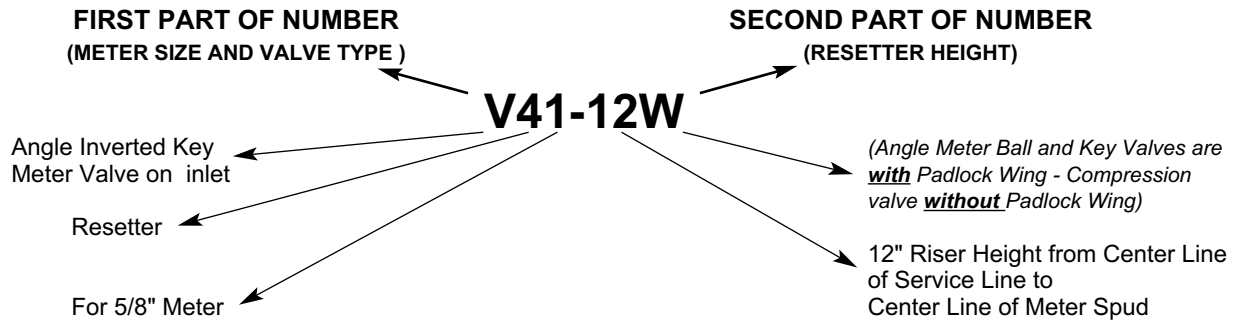
## Change-over Reseters

Many water utilities are changing domestic meter sizes from 5/8" to 5/8"x3/4". For raising a too-low meter and converting to the larger meter, the Resetter has a 5/8" bottom bar and 5/8"x3/4" coupling nuts. To order a Changeover Resetter place a "B" at the end of the catalog number. Example: V42-7W-B1 is a Change-over Resetter to replace a 5/8" meter with a 5/8"x3/4" meter. Special Reseters can also be made for reducing from 3/4" to 5/8"x3/4" or from 1" to 3/4". Solutions to many meter resetting problems are considered upon request.



# The Ford 40 Series Resetter

## Example of Catalog Number for a Resetter



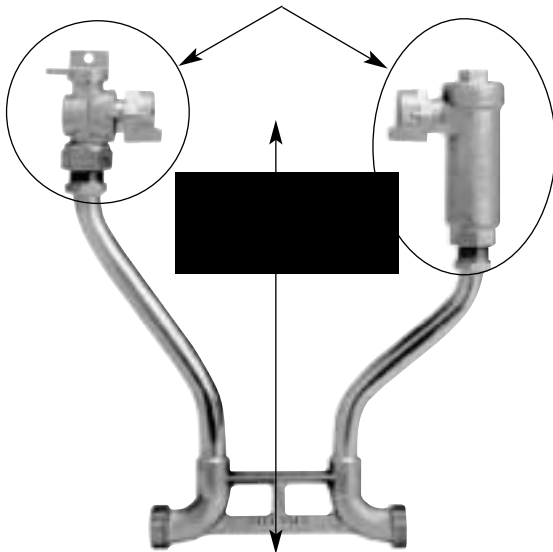
The description for the above catalog number reads: Resetter for 5/8" meter with an angle inverted key meter valve on the inlet, 12 inches high.

### NOTES:

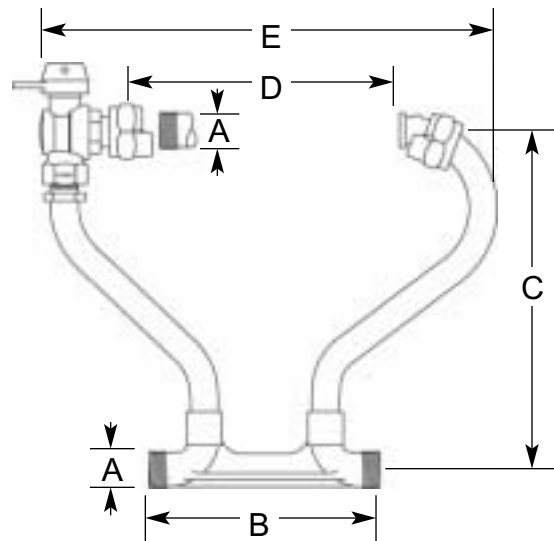
1. All valve type setters are standard with padlock wings.
2. All solder joints for Ford meter setters are made with lead-free solder.
3. All 40 series resetters are supplied with rubber meter gaskets and copper clad resetter gaskets.
4. Gaskets for Ford meter setters are listed on page 5.

## Catalog Numbering

### METER SIZE & VALVE TYPE 1ST PART OF CATALOG NUMBER



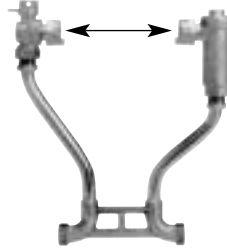
## Dimensions



DIMENSION	METER SIZE			
	5/8"	5/8"x3/4"	3/4"	1"
A	1-1/16"	1-5/16"	1-5/16"	1-5/8"
B	7-1/2"	7-1/2"	9"	10-3/4"
C	Heights are as ordered			
D	7-1/2"+3/8"	7-1/2"+3/8"	9"+3/8"	10-3/4"+3/8"
E	12"	12"	14-1/4"	17-1/4"

# The Ford 40 Series Resetter

## METER SIZE & VALVE TYPE - (FIRST PART OF CATALOG NUMBER)



CATALOG NUMBER (METER SIZE AND VALVE TYPE)				DESCRIPTION	
FOR 5/8"	FOR 5/8"x 3/4"	FOR 3/4"	FOR 1"	INLET VALVE	OUTLET VALVE
41	42	43	44	none	none
V41	V42	V43	V44	Key	none
VB41	VB42	VB43	VB44	Ball	none
VV41	VV42	VV43	VV44	Key	Key
VVG41*	VVG42*	VVG43*	VVG44*	Key	Compression
VH41	VH42	VH43	VH44	Key	Single check
VHH41	VHH42	VHH43	VHH44	Key	Dual check
VHC41	VHC42	VHC43	VHC44	Key	Cartridge dual check
VBH41	VBH42	VBH43	VBH44	Ball	Single check
VBHH41	VBHH42	VBHH43	VBHH44	Ball	Dual check
VBHC41	VBHC42	VBHC43	VBHC44	Ball	Cartridge dual check

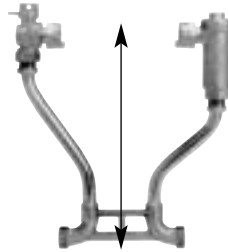
\* Compression valve does not have padlock wing

### METER VALVE OPTIONS FOR RESETTERS

Seal Wire Hole in Inlet Valve  
Seal Wire Hole in Check Valve

## HEIGHT - (SECOND PART OF CATALOG NUMBER)

NOTE: Height dimensions are approximate.



### For 5/8" and 5/8"x3/4" Meter

CATALOG NUMBER	HEIGHT IN INCHES
7W	7
9W	9
12W	12
15W	15
18W	18
21W	21
24W	24

### For 3/4" Meter

CATALOG NUMBER	HEIGHT IN INCHES
8W	8
12W	12
15W	15
18W	18
21W	21
24W	24

### For 1" Meter

CATALOG NUMBER	HEIGHT IN INCHES
10W	10
12W	12
15W	15
18W	18
21W	21
24W	24

Note: Resetter with Dual Cartridge Check Valve has a 9" minimum height for 5/8" & 5/8" x 3/4" meter, 12" minimum height for 3/4" meter Resetters and 15" minimum height for 1" meter.

### HEIGHT OPTION FOR RESETTERS

Coppersetters are available in heights over 24" in 3" increments; 27", 30", 33" etc. To order put desired height in catalog number.  
EXAMPLE: V42-30W is a 30" high Resetter.

# Ford 30 Series Flexible Resetter

Under some conditions the resetting and raising of a too-low meter can be accomplished most easily if the Resetter provides for flexibility in the spacing of the threaded ends which connect to the existing meter couplings. The Flexible Resetter is designed for easy installation in such settings and still maintains proper spacing and alignment for the meter in the raised position. Flexible Resetters are available with a variety of valve options.

**To order:** Select one Catalog Number component from each of two charts on page 49 to arrive at the complete Resetter Catalog Number. Selection order of components:

1. Meter size and valve type
2. Resetter height

## Example of Catalog Number for a 30 Series Flexible Resetter

**FIRST PART OF NUMBER  
(METER SIZE AND VALVE TYPE)**

**SECOND PART OF NUMBER  
(RESETTER HEIGHT)**

**V31-12W**

Angle Inverted Key  
Meter Valve on inlet

90 Series Flexible Resetter

For 5/8" Meter

(Angle Meter Ball and Key Valves are **with** Padlock Wing - Compression valve **without** Padlock Wing)

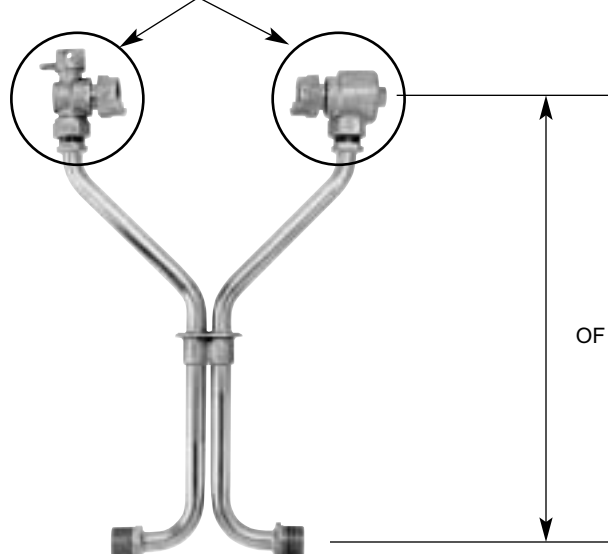
12" Riser Height from Center Line of Service Line to Center Line of Meter Spud

The description for the above catalog number reads: 30 Series Flexible Resetter for 5/8" meter with an angle inverted key meter valve on the inlet, 12 inches high.

### NOTES:

1. All valve type setters are standard with padlock wings.
2. All solder joints for Ford meter setters are made with lead-free solder.
3. All 30 Series Flexible Resetters are supplied with rubber meter gaskets and copper clad resetter gaskets.
4. Gaskets for Ford meter setters are listed on page 5.

**METER SIZE & VALVE TYPE**  
1ST PART OF CATALOG NUMBER



**HEIGHT**  
2ND PART  
OF CATALOG NUMBER

# The Ford 30 Series Flexible Resetter

## METER SIZE & VALVE TYPE - (FIRST PART OF CATALOG NUMBER)



CATALOG NUMBER (METER SIZE AND VALVE TYPE)				DESCRIPTION	
FOR 5/8"	FOR 5/8"x 3/4"	FOR 3/4"	FOR 1"	INLET VALVE	OUTLET VALVE
31	32	33	34	none	none
V31	V32	V33	V34	Key	none
VB31	VB32	VB33	VB34	Ball	none
VVG31*	VVG32*	VVG33*	VVG34*	Key	Compression
VV31	VV32	VV33	VV34	Key	Key
VH31	VH32	VH33	VH34	Key	Single check
VHH31	VHH32	VHH33	VHH34	Key	Dual check
VHC31	VHC32	VHC33	VHC34	Key	Cartridge dual check
VBH31	VBH32	VBH33	VBH34	Ball	Single check
VBHH31	VBHH32	VBHH33	VBHH34	Ball	Dual check
VBHC31	VBHC32	VBHC33	VBHC34	Ball	Cartridge dual check

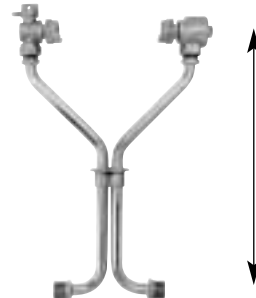
\* Compression valve does not have padlock wing

### METER VALVE OPTIONS FOR 30 SERIES FLEXIBLE RESETTERS

Seal Wire Hole in Inlet Valve  
Seal Wire Hole in Check Valve

## HEIGHT - (SECOND PART OF CATALOG NUMBER)

NOTE: Height dimensions are approximate.



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

CATALOG NUMBER	HEIGHT IN INCHES
12W	12
15W	15
18W	18
21W	21
24W	24

For 1" Meter

CATALOG NUMBER	HEIGHT IN INCHES
15W	15
18W	18
21W	21
24W	24

**Note:** 30 Series Flexible Resetters with cartridge dual check valve have a 15" minimum height for 5/8", 5/8" x 3/4" and 3/4" meters and 18" minimum height for 1" meters.

### HEIGHT OPTION FOR 90 SERIES COPPERSETTERS

Coppersettters are available in heights over 24" in 3" increments; 27", 30", 33" etc.

To order put desired height in catalog number.  
EXAMPLE: V32-33W-11-33 is a 33" high setter.



# The Ford Types A, B and C Tandem Resetters

Tandem Resetters can be used to install in series:

1. Two meters for comparing registration;
2. A meter and a recording meter;
3. A meter and a pressure or recording gauge;
4. A meter and a pressure regulator.

Each of the three types of Tandem Resetters has a bottom bar equal in length and thread size to a given size of water meter. This permits easy connection with existing meter couplings or meter holding devices.

When a meter is to be installed in series with some device other than a second meter, it may be necessary to use extensions or adapters on the device to achieve the correct length and thread size to fit the Tandem Resetter. If necessary, special Tandem Resetters can be produced to special dimensions.

## Type A Tandem Resetter

(Double End Connection is Included)



CATALOG NUMBER	METER SIZE
Resetter-1A	5/8"
Resetter-2A	5/8"x3/4"
Resetter-3A	3/4"
Resetter-4A	1"

The Type A Tandem Resetter places meters (or meter and second device) in a straight line. Special spacing of end connections can be produced on order. The double end connection used between the meters is included with the Resetter.

## Double End Connection Only

(for connecting meters)



CATALOG NUMBER	METER SIZE
DEC-1	5/8"
DEC-2	5/8"x3/4" & 3/4"
DEC-4	1"

## Type B Tandem Resetter

The Type B Tandem Resetter places meters (or meter and second device) in a parallel position. It is satisfactory for shallow pit installations or for basement installations.



CATALOG NUMBER	METER SIZE
Resetter-1B	5/8"
Resetter-2B	5/8"x3/4"
Resetter-3B	3/4"

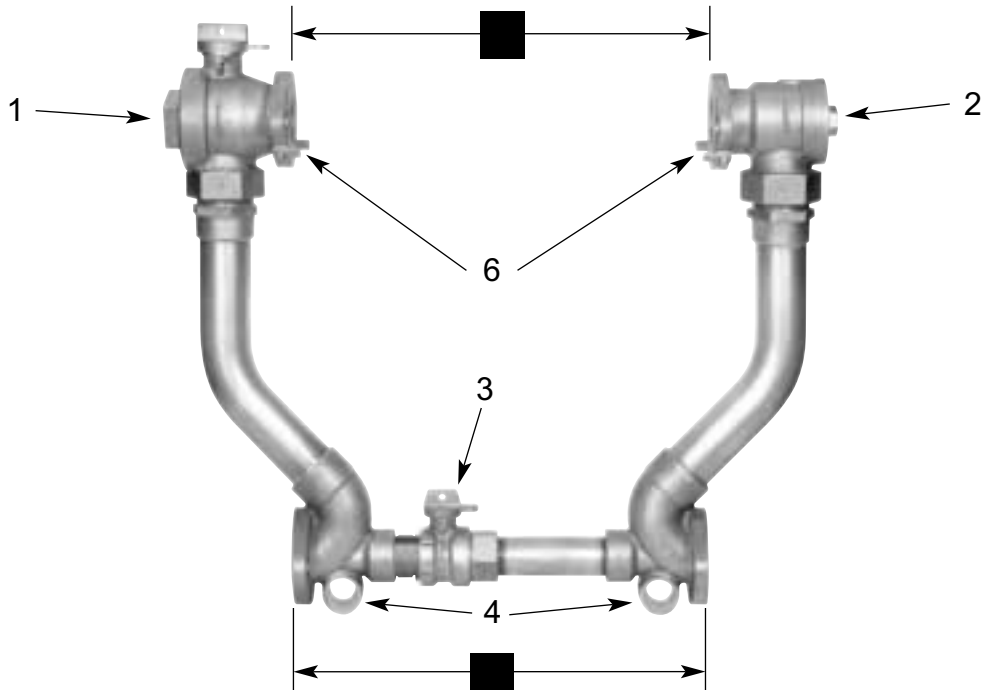
## For Type C Use T42-18



The Type C Tandem Resetter raises meters (or meter and second device) above the old position. **HOW TO ORDER:** Select the size of 40 Series Resetter desired. Add the letter "T" before the catalog number selected. Example: T42-18 = Tandem Resetter for 5/8"x3/4" meter, 18" high. Tandem Resetters include "S" tube and male iron pipe adapters for holding a pressure regulator. When ordering a 5/8", 5/8"x3/4" or 3/4" Resetter, adapters and "S" tube will be sized to hold a 3/4" regulator with an overall length between 4" and 5". When ordering a 1" Resetter, adapters and "S" tube will be sized to hold a 1" regulator with an overall length between 5" and 6". Unless specified otherwise, Tandem Resetters are designed to hold a water meter in series with a pressure regulator. **An "S" tube and male iron meter thread adapters for the regulator are included.** (Also see information on Tandem Coppersetters on page 26.)

# Reseters for 1-1/2" & 2" Flanged Meters

## Information for Ford All Brass and Copper Reseters



### Specifications:

Ford Reseters are constructed from 85-5-5 Brass (AWWA specification C-800) and copper tubing.

All 1-1/2" and 2" Ford Reseters are individually factory tested for water-tightness before shipment.

Individualized resetting requirements can be satisfied using special Ford Reseters. We welcome the opportunity to solve your 1-1/2" and 2" resetting problems.

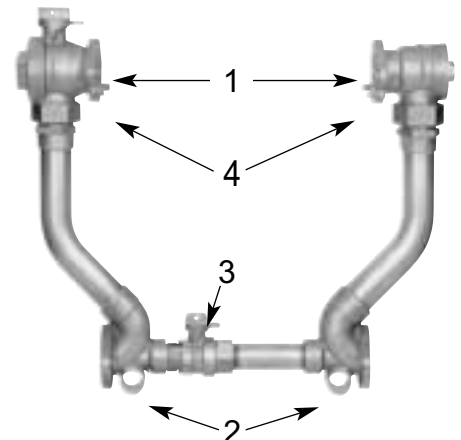
1. Inlet valve options are a flanged angle Inverted Key or flanged angle Ball Valve.
2. All inlet valve options available on outlet - Flanged Angle Check Valve or flanged Angle Dual Check Valve may be ordered.
3. Optional by-pass includes a Ford Ball Valve with padlock wings.
4. Brace pipe eyelets are standard - brace pipe not included.
5. Different bottom and top flange spacing may be specified.
6. All 1-1/2" and 2" Flange Valves on Copperseters have Meter Support Brackets.

\* **NOTE:** 1-1/2" and 2" outlet Ball Valves may be used as customer shut-offs (on the customer side of the meter) up to 150 psi.

The Flange Inverted Key Angle Valves should not be used as customer shut-off on the customer side of the meter.

### Installation Instructions

1. **COMPARE LAYING LENGTH OF METER WITH SETTER DIMENSION BETWEEN INLET AND OUTLET (#1).**
2. Cut two pieces of 1" pipe 18" long and install through the brace eye supports (#2).
3. Be sure that the Reseter is installed in the correct position in relation to the water flow and make sure the bypass valve (#3) is in the **OFF** position.
4. Special Ford drop-in gaskets are included with each setter for use when installing the water meter. Meter support brackets (#4) may need to be loosened or removed to accommodate variations in the shape of water meter flanges.



# Resetters for 1-1/2" & 2" Flanged Meters

## Without By-Pass

STANDARD METER SPACING FOR 1-1/2" AND 2" RESETTERS WILL BE 13" AND 17" RESPECTIVELY UNLESS OTHERWISE SPECIFIED.

### RESETTER WITHOUT BY-PASS FLANGED VALVE ON INLET AND FLANGED METER ELL ON OUTLET

HEIGHT	FOR 1-1/2" METER CATALOG NUMBER	APPROX. WT. LBS.	HEIGHT	FOR 2" METER CATALOG NUMBER	APPROX. WT. LBS.
13"	V46-13	29	12"	V47-12	36
15"	V46-15	30	14"	V47-14	37
18"	V46-18	31	18"	V47-18	38
24"	V46-24	33	24"	V47-24	41
27"	V46-27	34	27"	V47-27	42



### RESETTER WITHOUT BY-PASS FLANGED VALVE ON INLET AND OUTLET

HEIGHT	FOR 1-1/2" METER CATALOG NUMBER	APPROX. WT. LBS.	HEIGHT	FOR 2" METER CATALOG NUMBER	APPROX. WT. LBS.
13"	VV46-13	31	12"	VV47-12	38
15"	VV46-15	32	14"	VV47-14	40
18"	VV46-18	33	18"	VV47-18	41
24"	VV46-24	35	24"	VV47-24	44
27"	VV46-27	36	27"	VV47-27	45



### RESETTER WITHOUT BY-PASS FLANGED BALL VALVE ON INLET AND OUTLET

HEIGHT	FOR 1-1/2" METER CATALOG NUMBER	APPROX. WT. LBS.	HEIGHT	FOR 2" METER CATALOG NUMBER	APPROX. WT. LBS.
14"	VBB46-14	33	14"	VBB47-14	47
16"	VBB46-16	34	16"	VBB47-16	48
18"	VBB46-18	35	18"	VBB47-18	49
24"	VBB46-24	39	24"	VBB47-24	52
27"	VBB46-27	40	27"	VBB47-27	53



# Resetters for 1-1/2" & 2" Flanged Meters

Without By-Pass

STANDARD METER SPACING FOR 1-1/2" AND 2" RESETTERS WILL BE 13" AND 17" RESPECTIVELY UNLESS OTHERWISE SPECIFIED.

## RESETTER WITHOUT BY-PASS FLANGED VALVE ON INLET AND ANGLE CHECK VALVE ON OUTLET

HEIGHT	FOR 1-1/2" METER CATALOG NUMBER	APPROX. WT. LBS.	HEIGHT	FOR 2" METER CATALOG NUMBER	APPROX. WT. LBS.
13"	VH46-13	31	13"	VH47-13	39
15"	VH46-15	32	16"	VH47-16	41
18"	VH46-18	33	18"	VH47-18	42
24"	VH46-24	34	24"	VH47-24	45
27"	VH46-27	35	27"	VH47-27	46



## RESETTER WITHOUT BY-PASS FLANGED VALVE ON INLET AND ASSE APPROVED ANGLE DUAL CHECK VALVE ON OUTLET

HEIGHT	FOR 1-1/2" METER CATALOG NUMBER	APPROX. WT. LBS.	HEIGHT	FOR 2" METER CATALOG NUMBER	APPROX. WT. LBS.
13"	VHH46-13	31	13"	VHH47-13	39
15"	VHH46-15	32	16"	VHH47-16	41
18"	VHH46-18	33	18"	VHH47-18	42
24"	VHH46-24	34	24"	VHH47-24	45
27"	VHH46-27	35	27"	VHH47-27	46



## RESETTER WITHOUT BY-PASS FLANGED BALL VALVE ON INLET AND ANGLE CHECK VALVE OUTLET

HEIGHT	FOR 1-1/2" METER CATALOG NUMBER	APPROX. WT. LBS.	HEIGHT	FOR 2" METER CATALOG NUMBER	APPROX. WT. LBS.
14"	VBH46-14	34	14"	VBH47-14	44
16"	VBH46-16	35	16"	VBH47-16	45
18"	VBH46-18	36	18"	VBH47-18	46
24"	VBH46-24	37	24"	VBH47-24	48
27"	VBH46-27	38	27"	VBH47-27	49



## RESETTER WITHOUT BY-PASS FLANGED BALL VALVE ON INLET AND ASSE APPROVED ANGLE DUAL CHECK VALVE OUTLET

HEIGHT	FOR 1-1/2" METER CATALOG NUMBER	APPROX. WT. LBS.	HEIGHT	FOR 2" METER CATALOG NUMBER	APPROX. WT. LBS.
14"	VBHH46-14	34	14"	VBHH47-14	44
16"	VBHH46-16	35	16"	VBHH47-16	45
18"	VBHH46-18	36	18"	VBHH47-18	46
24"	VBHH46-24	37	24"	VBHH47-24	48
27"	VBHH46-27	38	27"	VBHH47-27	49



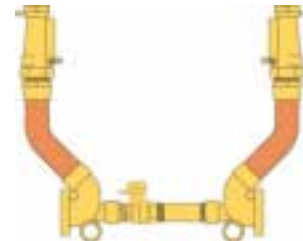
# Resetters for 1-1/2" & 2" Flanged Meters

## With By-Pass

STANDARD METER SPACING FOR 1-1/2" AND 2" RESETTERS WILL BE 13" AND 17" RESPECTIVELY UNLESS OTHERWISE SPECIFIED.

### RESETTER WITH BY-PASS FLANGED VALVE ON INLET AND OUTLET

HEIGHT	FOR 1-1/2" METER CATALOG NUMBER	APPROX. WT. LBS.	HEIGHT	FOR 2" METER CATALOG NUMBER	APPROX. WT. LBS.
13"	VV46-13B	34	12"	VV47-12B	40
15"	VV46-15B	34	14"	VV47-14B	42
18"	VV46-18B	35	18"	VV47-18B	43
24"	VV46-24B	37	24"	VV47-24B	46
27"	VV46-27B	38	27"	VV47-27B	47



### RESETTER WITH BY-PASS FLANGED BALL VALVE ON INLET AND OUTLET

HEIGHT	FOR 1-1/2" METER CATALOG NUMBER	APPROX. WT. LBS.	HEIGHT	FOR 2" METER CATALOG NUMBER	APPROX. WT. LBS.
14"	VBB46-14B	35	14"	VBB47-14B	49
16"	VBB46-16B	36	16"	VBB47-16B	51
18"	VBB46-18B	38	18"	VBB47-18B	52
24"	VBB46-24B	39	24"	VBB47-24B	55
27"	VBB46-27B	40	27"	VBB47-27B	56



### RESETTER WITH BY-PASS FLANGED VALVE ON INLET AND ANGLE CHECK VALVE ON OUTLET

HEIGHT	FOR 1-1/2" METER CATALOG NUMBER	APPROX. WT. LBS.	HEIGHT	FOR 2" METER CATALOG NUMBER	APPROX. WT. LBS.
13"	VH46-13B	34	13"	VH47-13B	42
15"	VH46-15B	34	16"	VH47-16B	43
18"	VH46-18B	35	18"	VH47-18B	44
24"	VH46-24B	37	24"	VH47-24B	46
27"	VH46-27B	38	27"	VH47-27B	48



### RESETTER WITH BY-PASS FLANGED VALVE ON INLET AND ASSE APPROVED ANGLE DUAL CHECK VALVE ON OUTLET

HEIGHT	FOR 1-1/2" METER CATALOG NUMBER	APPROX. WT. LBS.	HEIGHT	FOR 2" METER CATALOG NUMBER	APPROX. WT. LBS.
13"	VHH46-13B	34	13"	VHH47-13B	42
15"	VHH46-15B	34	16"	VHH47-16B	43
18"	VHH46-18B	35	18"	VHH47-18B	44
24"	VHH46-24B	37	24"	VHH47-24B	46
27"	VHH46-27B	38	27"	VHH47-27B	48



For By-Pass with 1" Cartridge Style Dual Check Valve, insert "HC" after the "B." Example: VHH46-13BHC.

# Resetters for 1-1/2" & 2" Flanged Meters

With By-Pass

STANDARD METER SPACING FOR 1-1/2" AND 2" RESETTERS WILL BE 13" AND 17" RESPECTIVELY UNLESS OTHERWISE SPECIFIED.

## RESETTER WITH BY-PASS

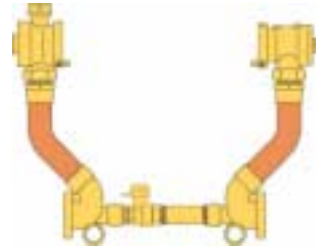
### FLANGED BALL VALVE ON INLET AND ANGLE CHECK VALVE OUTLET

HEIGHT	FOR 1-1/2" METER CATALOG NUMBER	APPROX. WT. LBS.	HEIGHT	FOR 2" METER CATALOG NUMBER	APPROX. WT. LBS.
14"	VBH46-14B	34	14"	VBH47-14B	46
16"	VBH46-16B	35	16"	VBH47-16B	47
18"	VBH46-18B	37	18"	VBH47-18B	48
24"	VBH46-24B	39	24"	VBH47-24B	51
27"	VBH46-27B	40	27"	VBH47-27B	52



### RESETTER WITH BY-PASS FLANGED BALL VALVE ON INLET AND ASSE APPROVED ANGLE DUAL CHECK VALVE OUTLET

HEIGHT	FOR 1-1/2" METER CATALOG NUMBER	APPROX. WT. LBS.	HEIGHT	FOR 2" METER CATALOG NUMBER	APPROX. WT. LBS.
14"	VBHH46-14B	34	14"	VBHH47-14B	46
16"	VBHH46-16B	35	16"	VBHH47-16B	47
18"	VBHH46-18B	37	18"	VBHH47-18B	48
24"	VBHH46-24B	39	24"	VBHH47-24B	51
27"	VBHH46-27B	40	27"	VBHH47-27B	52



For By-Pass with 1" Cartridge Style Dual Check Valve, insert "HC" after the "B." Example: VBHH46-14BHC.

# Section F

# Ford Coppersettters, Linesettters, and Resettters

## Warranty

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

### **Please Note:**

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.

