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Ford offers many products that are classified to ANSI/NSF Standard 61. To verify if a product is classified to ANSI/NSF Standard 61, contact the Ford Meter Box Customer Service Department at 260-563-3171 or visit fordmeterbox.com. Ford Meter Box meets your need for ANSI/NSF Standard 61 approved items with products that are proven and reliable.

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

Ford Meter Box no-lead brass products manufactured from UNS/CDA No. 89833 alloy shall contain no more than 0.25% total lead content by weight. Ford, Ford Meter Box and Uni-Flange are trademarks of The Ford Meter Box Company, Inc. registered in the U.S.

Ford Check Valve Numbering System

TYPES OF *CHECK VALVES HA = Angle Check Valve **SIZE OF INLETS - OUTLETS** HHA = Angle Cascading Dual Check Valve (one end - other end) **HHCA** = Angle Cartridge Style Dual Check Valve = 1/2" HHCACR = Angle Cartridge Style Dual Check Valve (enhanced 2 = 5/8" chlorine/chloramine resistance) 3 = 3/4" **HS** = Straight Check Valve 4 = 1" HHS = Straight Cascading Dual Check Valve 5 = 1-1/4" HHC = Straight Cartridge Style Dual Check Valve (not in-line accessible) 6 = 1-1/2" HHCCR = Straight Cartridge Style Dual Check Valve (enhanced 7 = 2" chlorine/chloramine resistance) **METER CONNECTION SIZE HHCH** = Straight Cartridge Style Dual Check Valve (in-line accessible) 1 = 5/8" **HHCHCR** = Straight Cartridge Style Dual Check Valve (in-line accessible) 2 = 5/8"x3/4" & 3/4" (enhanced chlorine/chloramine resistance) 4 = 1" **HFA** = Flanged Angle Check Valve 6 = 1-1/2" HHFA = Flanged Angle Dual Check Valve **HFS** = Flanged Straight Check Valve *Note: All Ford Check Valves are accessible for in-line **▲ NO-LEAD ALLOY** maintenance unless otherwise indicated. HHCA 3 4 - 3 2 3 - G -**TYPES OF INLETS - OUTLETS VALVE SIZE OPTIONAL FEATURES** (one end - other end) 3 = 3/4" **D** = Test/Drain Valve 1 = Female Iron Pipe Threads 4 = 1" G = Grip Joint 2 = Flare Copper Tube Nut 6 = 1-1/2" 3TV = Test/Drain Valve on Top 3 = Meter Nut or Flange 7 = 2" of Cartridge Dual 4 = Pack Joint for Plastic or Copper Tube (CTS) Check Valve Access Cap **5** = Pack Joint for Iron Pipe Q = Quick Joint 6 = Pack Joint for PE Pipe TW-Q = CTS Quick Joint with 7 = Pack Joint for PVC Pipe (Schedule 40 and 80) Tracer Wire Terminal 8 = Male Iron Pipe Threads **U-AWT** = Ultra-Tite (components assembled watertight) 9 = Yoke Nose

▲ Ford Meter Box no-lead brass products manufactured from UNS/CDA No. 89833 alloy shall contain no more than 0.25% total lead content by weight.

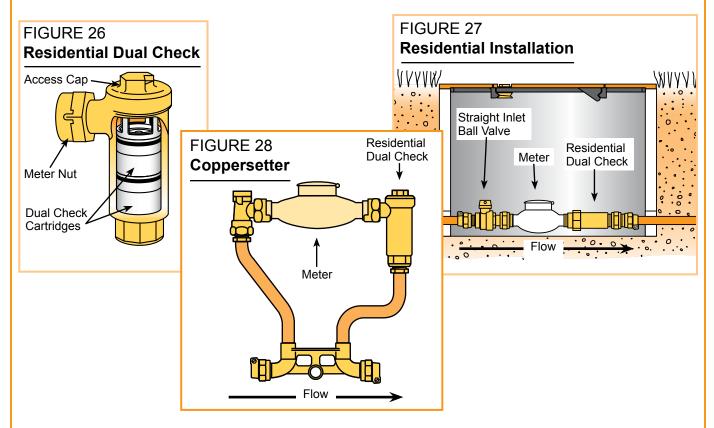
Parties responsible for monitoring and maintaining proper water system design must exercise full responsibility in understanding and upholding the full intent and scope of applicable lead laws.

Why Provide Residential Backflow Prevention?

From EPA Cross-Connection Control Manual

The need to furnish reliable and inexpensive back-siphonage and backpressure protection for individual residences resulted in the debut of the residential dual check. Protection of the main potable supply from household hazards such as home photography chemicals, toxic insect and garden sprays, termite control pesticides used by exterminators, etc., reinforced a true need for such a device. Figure 26 shows a cutaway of the device.

It is sized for 3/4 and 1-inch service lines and is installed immediately downstream of the water meter. The use of plastic check modules and elimination of test cocks and gate valves keeps the cost reasonable while providing good, dependable protection. Typical installations are shown in Figures 27 and 28.



Sample Dual Check Ordinance

Effective the date of acceptance of this Cross-Connection Control Program for the Town of (), all new residential buildings will be required to install a residential dual check device immediately downstream of the water meter. Installation of this residential dual check device on a retrofit basis on existing service lines will be instituted at a time and at a potential cost to the homeowner as deemed necessary by the department.

The owner must be aware that installation of a residential dual check valve results in a potential closed plumbing system within the residence. As such, provisions may have to be made by the owner to provide for thermal expansion within this closed loop system; for example, the installation of thermal expansion devices and/or pressure relief valves.

Ford Dual Check Valves are intended for service use as stipulated within the scope of ASSE 1024.

Delivering top quality water to the point of use is the responsibility of every utility.

Ford Dual Check Valves can help you meet that responsibility.

A lot has changed since the "good old days" when a utility's responsibility for water quality ended at the outlet of the water meter. The *Safe Drinking Water Act*, and a host of state and local regulations, now define the utility as responsible for delivery of quality water to the faucet inside the customer's home or business. The entry of objectionable or hazardous material into the customer's plumbing may expose your utility, and you personally, to expensive and time-consuming legal action.

Many state health agencies now require dual check valves be installed on all new domestic services. A number of concerned utilities are putting dual checks on existing services as well. All of these programs for dual check installation, whether mandated or not, are for the purpose of reducing utility liability and for protecting the end user. Ford Dual Check Valves are designed to make **your** program of domestic backflow protection simple and cost effective. See Catalog Sections C, E, F and FA for additional dual check valve service line installations.

Ford Dual Check Valves are intended for service use as stipulated within the scope of ASSE 1024.

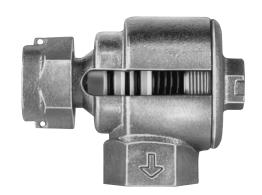


Ford Dual Check Valves are designed for installation at the water meter for maximum convenience.

Formerly, dual check valves were available only with threaded end connections, since they were designed for installation by the plumber. The working parts of these valves could not be inspected or replaced without removing the valve from the line, a time-consuming and costly job. Ford Dual Check Valves were designed from the start to be installed at the outlet of the water meter. Available in straight and angle styles, most come with swivel meter nuts on the inlet side; they can be used by themselves at the outlet of the meter or can be located on the outlet side of a Ford Coppersetter, Resetter or a Long Yokebox. Dual checks are also available with inlet yoke threads for direct attachment to a Ford Yoke Bar. See Catalog Sections C, E, F and FA for additional dual check valve service line installations.

Ford Dual Check Valves were designed for ease of maintenance. Removable "O" ring sealed access caps allow for quick and easy inspection and replacement of the internal working parts, without removing the valve from the line. Since the valve is located at the outlet of the meter, your meter repair crews can assist with maintenance by looking for water flow out of the check when replacing the water meter. No water flow means that positive backflow protection is being provided by the dual check.

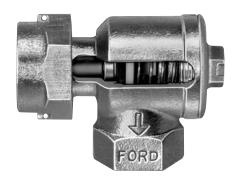
Ford Dual Check Valves are intended for service use as stipulated within the scope of ASSE 1024.



Ford Single Check Valves provide deterrence for minimum requirements.

On services where an approved backflow preventer is not desired or required, a Ford Single Check Valve may be installed. A single check valve deters hot water backflow from a water heater, which could damage the working parts of a water meter. They also keep water within the house plumbing from flowing into a meter pit or onto a basement floor when a meter is removed from service.

Ford Single Check Valves are available in in-line accessible angle and straight styles and in sizes from 3/4" through 2". They can be an integral part of a Ford Coppersetter, Pit Setter or Iron Yoke. See Catalog Sections E, F and FA for additional dual check valve service line installations.



Ford is THE choice of Check Valves for Water Utilities

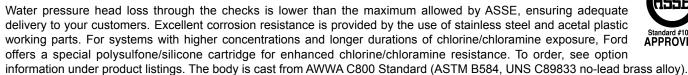


In planning your domestic service backflow protection program, remember that only Ford offers these important advantages:

- 1. The only full line of ASSE approved dual checks designed for use at the water meter.
- 2. The only full line of ASSE approved dual checks with removable access caps (in-line accessible) for easy maintenance. Repair kits are listed within this catalog.
- **3.** ASSE approved dual checks available as integral parts of Ford Coppersetters, Resetters, Iron Yoke Settings and Yokeboxes. See Catalog Sections C, E, F and FA.
- 4. Check valves that offer the lowest water pressure head loss figures in the industry.

Cartridge Style Dual Check Valves

Ford Cartridge Style Dual Check Valves are approved by the American Society of Sanitary Engineering and meet, or exceed, all requirements of ASSE Standard #1024.

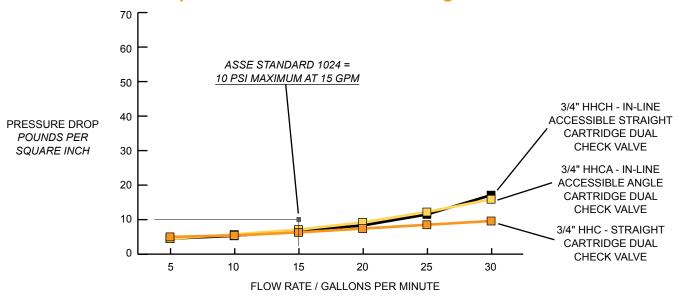




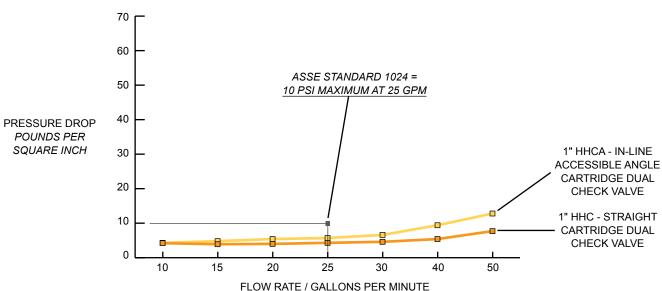
The unique angle design of the Ford Angle Cartridge Dual Check Valve features a removable "O" ring sealed cap at the top of the valve. This allows easy in-line access to the dual check assemblies for maintenance, inspection or replacement. As an added measure of protection, the Ford Angle Cartridge design will deter backflow even if one of the cartridge assemblies is removed from the valve body.

Ford Cartridge Dual Check Valves are available in in-line accessible angle and straight styles. They can be an integral part of a Ford Coppersetter, Pit Setter, Iron Yoke Settings and Yokeboxes. See Catalog Sections C, E, F and FA. Note: Ford Dual Check Valves are intended for service use as stipulated by ASSE 1024.

Pressure Drop - 5/8" x 3/4" and 3/4" Cartridge Dual Check Valves



Pressure Drop - 1" Cartridge Dual Check Valves



Cartridge Style Dual Check Valves

Angle Cartridge Style Dual Check Valves (in-line accessible)



HHCA31-323-NL

HHCA34-323-NL



HHCA92-323-NL



HHCA94-323-NL

METER SWIVEL NUT INLET BY FEMALE IRON PIPE THREAD OUTLET

	CATALOG		Approx.		
	Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE	Wt. Lbs.
	HHCA31-313-NL	3/4"	5/8"	3/4"	1.7
ε	HHCA31-323-NL	3/4"	5/8"x3/4" and 3/4"	3/4"	1.8
	HHCA31-344-NL	3/4"	1"	1"	2.0
ε	HHCA31-444-NL	1"	1"	1"	3.1

METER SWIVEL NUT INLET BY FLARE COPPER OUTLET

_					
	CATALOG		APPROX.		
	Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE	Wt. Lbs.
	HHCA32-323-NL	3/4"	5/8"x3/4" and 3/4"	3/4"	2.3
	HHCA32-444-NL	1"	1"	1"	3.9

METER SWIVEL NUT INLET BY PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS)* OUTLET

	· · · · · · · · · · · · · · · · · · ·					
	APPROX.					
	Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE	Wt. Lbs.	
▶ ♦	HHCA34-323-NL	3/4"	5/8"x3/4" and 3/4"	3/4"	2.2	
<u>▶</u>	HHCA34-444-NL	1"	1"	1"	3.5	

METER YOKE INLET BY FEMALE IRON PIPE THREAD OUTLET

_		_		
CATALOG		DESCRIPTION		
Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE	Wt. Lbs.
HHCA91-313-NL	3/4"	5/8"	3/4"	1.7
HHCA91-323-NL	3/4"	5/8"x3/4" and 3/4"	3/4"	1.7
HHCA91-344-NL	3/4"	1"	1"	2.1
HHCA91-444-NL	1"	1"	1"	3.0

METER YOKE INLET BY FLARE COPPER OUTLET

CATALOG		DESCRIPTION			
Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE	Wt. Lbs.	
HHCA92-313-NL	3/4"	5/8"	3/4"	2.2	
HHCA92-323-NL	3/4"	5/8"x3/4" and 3/4"	3/4"	2.1	
HHCA92-424-NL	1"	5/8"x3/4" and 3/4"	1"	3.6	
HHCA92-444-NL	1"	1"	1"	3.9	

METER YOKE INLET BY PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS)* OUTLET

	00.1 = 1.01.1 = 101.10 (0.0, 00.1==)						
CATALOG		DESCRIPTION					
Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE	WT. LBS.			
► ♦ HHCA94-313-NL	3/4"	5/8"	3/4"	2.1			
► ♦ HHCA94-323-NL	3/4"	5/8"x3/4" and 3/4"	3/4"	2.1			
► HHCA94-324-NL	3/4"	5/8"x3/4" and 3/4"	1"	2.1			
► ♦ HHCA94-414-NL	1"	5/8"	1"	3.0			
► ♦ HHCA94-424-NL	1"	5/8"x3/4" and 3/4"	1"	3.4			
► ♦ HHCA94-444-NL	1"	1"	1"	3.8			

Options Available

- * Grip Joint for CTS can be ordered by adding "-G" to the catalog number. Example: HHCA34-444-G-NL
- Quick Joint is available. Add "-Q" to this catalog number.
- ► Ultra-Tite compression is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)
 - **Drain/Test valve on top of the Access Cap** (drains Inlet) is available for all cartridge dual check valves with access caps. Add "D" to the catalog number. Example: HHCA31-323D-NL
- ε A three-port bleeder valve configuration is available for the HHCA31-323-NL and HHCA31-444-NL valve (catalog numbers HHCA31-323-3TV-NL and HHCA31-444-3TV-NL). Contact the factory for availability.
 - Cartridges are available with **enhanced chlorine/chloramine resistance**. Add "CR" to the end of the alpha code. Example: HHCA<u>CR</u>31-323-NL.

Cartridge Style Dual Check Valves (continued)

Straight Cartridge Style Dual Check Valves (in-line accessible)





HHCH31-323-NL

- DESCRIPTION APPROX. **OUTLET SIZE** Number VALVE SIZE METER SIZE INLET Wt. Lbs. HHCH31-323-NL 3/4" 5/8"x3/4" and 3/4" 3/4" 2.0 HHCH31-344-NL 3/4 2.4 METER YOKE INLET BY FEMALE IRON PIPE THREAD OUTLET HHCH91-313-NL 3/4" 5/8" 3/4" 2.0 ♦ HHCH91-323-NL 3/4 5/8"x3/4" and 3/4" 3/4 2.0
- Indicates drain/test valve (drains inlet) on the access cap (not on the side of the check valve). Add "D" to the catalog number. Example: HHCH31-323D-NL.
- An HHCH13-332-NL is available which attaches to the inlet of the meter. It is similar in size and features to the HHCH31-323-NL except the water flow is reversed.

Straight Cartridge Style Dual Check Valves (not in-line accessible)

HHC31-323-NL

METER SWIVEL NUT INLET BY FEMALE IRON PIPE THREAD OUTLET

CATALOG		Description				
Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE	Wt. Lbs.		
HHC31-313-NL	3/4"	5/8"	3/4"	1.6		
HHC31-323-NL	3/4"	5/8"x3/4" and 3/4"	3/4"	1.7		
HHC31-444-NL	1"	1"	1"	2.8		

METER SWIVEL NUT INLET BY PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS)* OUTLET

•	HHC34-323-NL	3/4"	5/8"x3/4" and 3/4"	3/4"	2.0
METER SWIVEL NUT INLET BY MALE IRON PIPE THREAD OUTLET					OUTLET
	HHC38-313-NL	3/4"	5/8"	3/4"	1.5
	HHC38-323-NL	3/4"	5/8"x3/4" and 3/4"	3/4"	1.7

FEMALE METER THREAD INLET BY MALE METER THREAD



HHCI33-311-NL

CATALOG		APPROX.		
Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE	Wt. Lbs.
HHCl33-311-NL	3/4"	5/8"	5/8"	1.4
HHCl33-322-NL	3/4"	5/8"x3/4" and 3/4"	5/8"x3/4" and 3/4"	1.4
HHC33-342-NL	3/4"	1"	5/8"x3/4" and 3/4"	1.8

INTEGRAL FEMALE METER THREAD UNION INLET BY MALE IRON PIPE THREAD OUTLET

CATALOG		DESCRIPTION				
Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE	Wt. Lbs.		
HHCI38-313-NL	3/4"	5/8"	3/4"	1.4		
HHCl38-323-NL	3/4"	5/8"x3/4" and 3/4"	3/4"	1.3		



HHC33-342-NL

METER SWIVEL NUT INLET BY KORNERHORN THREAD OUTLET

CATALOG		DESCRIPTION			
Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE	Wt. Lbs.	
HHC30-320-NL	3/4"	5/8"x3/4" and 3/4"	No. 1 Male Kornerhorn Thread for Pack Joint Assemblies (See Section B)	1.6	
MALE IRON PIPE THREAD INLET BY KORNERHORN THREAD OUTLET					

No. 1 Male Kornerhorn Thread for Pack HHC80-330-NL 3/4" 3/4" 1.6 Joint Assemblies (See Section B)



HHC11-333-NL

FEMALE IRON PIPE THREAD INLET BY FEMALE IRON PIPE THREAD OUTLET CATALOG DESCRIPTION APPROX. Number VALVE SIZE METER SIZE INLET OUTLET SIZE Wt. Lbs. HHC11-333-NL 3/4" 3/4" 3/4" 1.5 3/4" HHC11-344-NL 1.4



HHC81-333-NL

MALE IRON PIPE THREAD INLET BY FEMALE IRON PIPE THREAD OUTLET

CATALOG		DESCRIPTION				
Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE	Wt. Lbs.		
HHC81-333-NL	3/4"	3/4"	3/4"	1.6		
HHC81-344-NL	3/4"	1"	1"	1.6		
HHC81-444-NL	1"	1"	1"	2.5		

Options Available

Straight cartridge check valves for Kornerhorns are found on page 15.

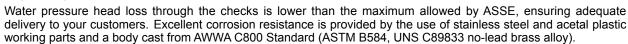
- * Grip Joint for CTS can be ordered by adding "-G" to the catalog number. Example: HHC34-323-G-NL
- ▶ Ultra-Tite compression is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)

HHC11-444-NL

Cartridges are available with enhanced chlorine/chloramine resistance. Add "CR" to the end of the alpha code. Example: HHCHCR31-323-NL.

Cascading Dual Check Valves

Ford Dual Check Valves with a cascading check design are approved by the American Society of Sanitary Engineering and meet or exceed all the requirements of ASSE Standard #1024.



CATALOG



APPROX.

The low head loss characteristics and compact size of these dual check valves is made possible by the unique "cascading" check design. Each check assembly is sealed by means of an "O" ring, and guide pins on the face of the plunger ensure positive centering of the "O" ring on the seat. This means a positive water tight seal against backpressure and back-siphonage.

Ford Cascading Dual Check Valves are available in in-line accessible angle and straight styles. They can be an integral part of a Ford Coppersetter, Pit Setter or Iron Yoke. See Catalog Sections E, F and FA.

Note: Ford Dual Check Valves are intended for service use as stipulated by ASSE 1024.

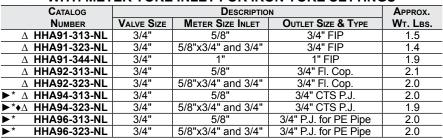


HHA31-313-NL



DESCRIPTION

Angle Cascading Dual Check Valves (in-line accessible) WITH METER SWIVEL NUT INLET





HHA91-323-NL

Straight Cascading Dual Check Valves (in-line accessible

CATALOG		DESCRIPTION			APPROX.	
Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE	LENGTH	Wt. Lbs.	
HHS11-333-NL	3/4"	3/4"	3/4"	4-1/16"	1.5	

FEMALE IRON PIPE THREAD BOTH ENDS





WITH METER SWIVEL NOT INLET					
CATALOG		DESCRIPTION			
Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE & TYPE	Wt. Lbs.	
HHS31-313-NL	3/4"	5/8"	3/4" FIP	1.7	
HHS31-323-NL	3/4"	5/8"x3/4" and 3/4"	3/4" FIP	1.8	
HHS31-324-NL	3/4"	5/8"x3/4" and 3/4"	1" FIP	2.0	
HHS31-344-NL	3/4"	1"	1" FIP	2.1	
HHS38-323-NL	3/4"	5/8"x3/4" and 3/4"	3/4" MIP	1.7	
			No.1 Male Kornerhorn Thread		
HHS30-320-NL	3/4"	5/8"x3/4" and 3/4"	for Pack Joint Assemblies	1.8	

			(See Catalog Section B)			
WITH METER YOKE INLET FOR IRON YOKE SETTINGS						
CATALOG		DESCRIPTION				
Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE & TYPE	Wt. Lbs.		
HHS91-313-NL	3/4"	5/8"	3/4" FIP	1.7		
HHS91-323-NL	3/4"	5/8"x3/4" and 3/4"	3/4" FIP	1.7		
HHS91-344-NL	3/4"	1"	1" FIP	2.2		

Straight Dual Check Valves (in-line accessible)

FEMALE IRON PIPE THREAD BOTH ENDS

CATALOG		DESCRIPTION		1	APPROX.
Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE	LENGTH	WT. LBS.
HHS11-777-NL	2"	2"	2"	7-3/8"	8.0

Options Available

- Grip Joint for CTS and PEP can be ordered by adding "-G to the catalog number. Example: HHA34-323-G-NL.
- Quick Joint is available. Add "-Q" to the catalog number.
- ▶ Ultra-Tite compression is available. Add "-U-AWT" to the end of the catalog number. (Consists of components assembled watertight.)
- Δ Indicates drain/test valve available. Add "D" to catalog number. Example: HHA31-323D-NL

Ford Single Check Valves

On services where an approved backflow preventer is not desired or required, a Ford Single Check Valve may be installed. A single check valve deters hot water backflow from a water heater, which could damage the working parts of a water meter. They also keep water from the house plumbing from flowing into a meter pit or onto a basement floor when a meter is removed from service.

Ford Single Check Valves are available in in-line accessible angle and straight styles and in sizes from 3/4" through 2". They can be an integral part of a Ford Coppersetter, Customsetter or Iron Yoke. See Catalog Sections E, F and FA.

Angle Check Valves (in-line accessible)



HA81-333-NL



HA31-323-NL



HA34-323-NL



HA91-323-NL

MALE IRON PIPE THREAD INLET BY FEMALE IRON PIPE THREAD OUTLET

CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	Wt. Lbs.
HA81-333-NL	3/4"	3/4"	3/4"	1.1

METER SWIVEL NUT INLET BY FEMALE IRON PIPE THREAD OUTLET

CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE	Wt. Lbs.
△ HA31-313-NL	3/4"	5/8"	3/4"	1.3
△ HA31-323-NL	3/4"	5/8"x3/4" & 3/4"	3/4"	1.4
△ HA31-444-NL	1"	1"	1"	1.7

METER SWIVEL NUT INLET BY FLARE COPPER OUTLET

CATALOG		DESCRIPTION		
Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE	Wt. Lbs.
HA32-313-NL	3/4"	5/8"	3/4"	1.7
HA32-323-NL	3/4"	5/8"x3/4" & 3/4"	3/4"	1.8
HA32-444-NL	1"	1"	1"	2.3

METER SWIVEL NUT INLET BY PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS)* OUTLET

	CATALOG		DESCRIPTION			
	Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE	Wt. Lbs.	
	HA34-313-NL	3/4"	5/8"	3/4"	1.6	
▶+	HA34-323-NL	3/4"	5/8"x3/4" & 3/4"	3/4"	1.8	
	HA34-324-Q-NL	3/4"	5/8"x3/4" & 3/4"	1" Q.J./CTS	1.8	
▶+	HA34-444-NL	1"	1"	1"	2.0	

METER YOKE INLET BY IRON YOKE SETTINGS

CATALOG		Approx.		
Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE & TYPE	Wt. Lbs.
∆ HA91-313-NL	3/4"	5/8"	3/4" FIP	1.4
∆ HA91-323-NL	3/4"	5/8"x3/4" & 3/4"	3/4" FIP	1.2
∆ HA91-444-NL	1"	1"	1" FIP	1.7
∆ HA92-313-NL	3/4"	5/8"	3/4" Fl. Cop.	1.7
∆ HA92-323-NL	3/4"	5/8"x3/4" & 3/4"	3/4" Fl. Cop.	1.6
►* ♦∆ HA94-313-NL	3/4"	5/8"	3/4" P.J./CTS	1.6
►* ♦∆ HA94-323-NL	3/4"	5/8"x3/4" & 3/4"	3/4" P.J./CTS	1.9
HA94-324-NL	3/4"	5/8"x3/4" & 3/4"	1" P.J./PEP	1.6
▶* HA96-313-NL	3/4"	5/8"	3/4" P.J./PEP	1.7
►* HA96-323-NL	3/4"	5/8"x3/4" & 3/4"	3/4" P.J./PEP	1.6

Options Available

- * Grip Joint for CTS or PEP can be ordered by adding "-G" to the catalog number. Example: HA34-323-G-NL
- Quick Joint is available. Add "-Q" to the catalog number.
- ▶ Ultra-Tite compression is available. Add "-U-AWT" to the end of the catalog number. (Consists of components assembled watertight.)
- Δ Indicates drain/test valve available. Add "D" to catalog number. Example: HA31-323D-NL

Single Check Valves (continued)

Straight Check Valves (in-line accessible)



METER SWIVEL NUT INLET BY FEMALE IRON PIPE THREAD OUTLET

CATALOG		DESCRIPTION			
Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE	Wt. Lbs.	
HS31-313-NL	3/4"	5/8"	3/4"	1.2	
△ HS31-323-NL	3/4"	5/8"x3/4" & 3/4"	3/4"	1.4	
△ HS31-444-NL	1"	1"	1"	1.7	



METER SWIVEL NUT INLET BY MALE IRON PIPE THREAD OUTLET

CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE	WT. LBS.
△ HS38-323-NL	3/4"	5/8"x3/4" & 3/4"	3/4"	1.3
HS38-444-NL	1"	1"	1"	1.6

METER SWIVEL NUT INLET BY FLARE COPPER OUTLET

CATALOG		Approx.		
Number	VALVE SIZE	Wt. Lbs.		
HS32-323-NL	3/4"	5/8"x3/4" & 3/4"	3/4"	1.8



METER SWIVEL NUT INLET BY PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS)* OUTLET

	CATALOG		DESCRIPTION			
	Number	VALVE SIZE	Wt. Lbs.			
	HS34-323-NL	3/4"	5/8"x3/4" & 3/4"	3/4"	1.6	



HS11-333-NL

FEMALE IRON PIPE THREAD INLET BY FEMALE IRON PIPE THREAD OUTLET

CATALOG		DESCRIPTION				
Number	VALVE SIZE	VALVE SIZE INLET SIZE OUTLET SIZE				
HS11-333-NL	3/4"	3/4"	3/4"	1.2		
HS11-444-NL	1"	1"	1"	1.4		
HS11-666-NL	1-1/2"	1-1/2"	1-1/2"	5.7		
HS11-777-NL	2"	2"	2"	8.2		

Options Available

- * Grip Joint for CTS or PEP can be ordered by adding "-G" to the catalog number. Example: HS34-323-G-NL
- ▶ Ultra-Tite compression is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)

 Δ Indicates Drain/Test Valve available. Add "D" to catalog number. Example: HS31-323D-NL

Single Check Valves (continued)

Straight Check Valves (in-line accessible)



MALE IRON PIPE THREAD INLET BY FEMALE IRON PIPE THREAD OUTLET

CATALOG		Approx.		
Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	WT. LBS.
HS81-333-NL	3/4"	3/4"	3/4"	1.2
HS81-444-NL	1"	1"	1"	1.4

MALE IRON PIPE THREAD INLET BY PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS)* OUTLET

	CATALOG	DESCRIPTION			APPROX.
	Number	VALVE SIZE	Wt. LBs.		
•	HS84-333-NL	3/4"	3/4"	3/4"	1.2



HS88-333-NL

MALE IRON PIPE THREAD BOTH ENDS

CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE INLET SIZE OUTLET SIZE & TYPE			Wt. Lbs.
HS88-333-NL	3/4"	3/4"	3/4"	1.1

PACK JOINT FOR COPPER OR PLASTIC TUBING (CTS)* BOTH ENDS

	CATALOG	DESCRIPTION			APPROX.
	Number	VALVE SIZE	Wt. Lbs.		
	HS44-333-NL	3/4"	3/4"	3/4"	1.8



METER YOKE INLET BY FEMALE IRON PIPE OUTLET

CATALOG		APPROX.		
Number	VALVE SIZE METER INLET SIZE OUTLET SIZE & TYPE		Wt. Lbs.	
HS91-313-NL	3/4"	5/8"	3/4" FIP	1.3
HS91-323-NL	3/4"	5/8"x3/4" & 3/4"	3/4" FIP	1.3
HS91-344-NL	3/4"	1"	1" FIP	1.5
HS91-444-NL	1"	1"	1" FIP	1.7

Options Available

- * Grip Joint for CTS or PEP can be ordered by adding "-G" to the catalog number. Example: HS34-323-G-NL
- ▶ Ultra-Tite compression is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)

Ford Check Valves and Dual Check Valves

With Flanged Inlet for 1-1/2" and 2" Meters



Angle Dual Check Valves (in-line accessible) ASSE Approved

METER FLANGE INLET BY FEMALE IRON PIPE THREAD OUTLET

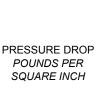
CATALOG	DESCRIPTION			Approx.
Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE	Wt. Lbs.
HHFA31-777-NL	2"	1-1/2" and 2"	2"	8.4

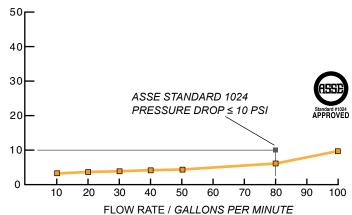
A three-port bleeder valve configuration is available for the HHFA31-777-NL valve (catalog number HHFA31-777-3TV-NL). Contact the factory for availability.

METER FLANGE INLET BY FEMALE IRON PIPE THREAD OUTLET WITH INTEGRAL 1-1/2" FIP TEST PLUG

CATALOG		APPROX.		
Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE	Wt. Lbs.
HHFA31-777-TP6-NL	2"	2"	2"	8.6

Pressure Drop Test - 2" HHFA Dual Check Valves







Angle Check Valves (in-line accessible)

METER FLANGE INLET BY FEMALE IRON PIPE THREAD

	_		-		
CATALOG		DESCRIPTION			
Number	Valve Size	METER SIZE INLET	OUTLET SIZE	Wt. Lbs.	
HFA31-666-NL	1-1/2"	1-1/2"	1-1/2"	6.6	
HFA31-777-NL	2"	1-1/2" and 2"	2"	8.2	



Straight Check Valves (in-line accessible)

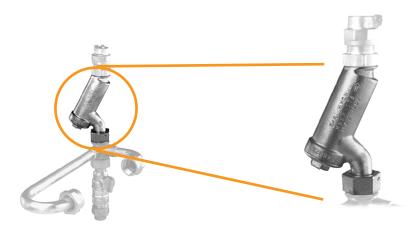
METER FLANGE INLET BY FEMALE IRON PIPE THREAD OUTLET

CATALOG		DESCRIPTION	1	APPROX.	
Number	VALVE SIZE	METER SIZE INLET	OUTLET SIZE	LENGTH	Wt. Lbs.
HFS31-666-NL	1-1/2"	1-1/2"	1-1/2"	5-1/8"	6.9
HFS31-777-NL	2"	1-1/2" and 2"	2"	5-7/8"	8.4

Options Available

Meter Support Brackets to support meter during installation are available on 1-1/2" and 2" flanged valves at additional cost. Add "-MSB" to the catalog number. Example: HFA31-666-MSB-NL.

Check Valves for Kornerhorn Applications



Straight Cartridge Style Dual Check Valve for Kornerhorn (in-line accessible)

FEMALE KORNERHORN THREAD SWIVEL NUT INLET BY MALE KORNERHORN THREAD OUTLET

CATALOG		APPROX.		
Number	VALVE SIZE	SIZE INLET & TYPE	OUTLET SIZE & TYPE	Wt. Lbs.
* KH-HHCH-1-NL	3/4"	No. 1 Female Kornerhorn	No. 1 Male Kornerhorn	2.0
** KH-HHCH-1-D-NL	3/4"	No. 1 Female Kornerhorn	No. 1 Male Kornerhorn	2.1

^{*} For pack joint assemblies for PET, PEP, PVC and iron pipe, refer to Catalog Section B.

Cartridges are available with **enhanced chlorine/chloramine resistance**. Add "CR" to the end of the alpha code. Example: KH-HHCH \underline{CR} -1-NL

Straight Cascading Dual Check Valve for Kornerhorn (in-line accessible)



FEMALE KORNERHORN THREAD SWIVEL NUT INLET BY KORNERHORN THREAD OUTLET

CATALOG		DESCRIPTION			
Number	VALVE SIZE	SIZE INLET & TYPE	OUTLET SIZE & TYPE	WT. LBS.	
* KHHCV-1-NL	3/4"	No. 1 Female Kornerhorn	No. 1 Male Kornerhorn	1.9	

^{*} For pack joint assemblies for PET, PEP, PVC and iron pipe, refer to Catalog Section B.

Straight Single Check Valve for Kornerhorn (in-line accessible)



FEMALE KORNERHORN THREAD INLET BY MALE KORNERHORN THREAD OUTLET

CATALOG		DESCRIPTION		APPROX.
Number	VALVE SIZE	SIZE INLET & TYPE	OUTLET SIZE & TYPE	Wt. Lbs.
* KHCV-1-NL	3/4"	No. 1 Female Kornerhorn	No. 1 Male Kornerhorn	1.3

^{*} For pack joint assemblies for PET, PEP, PVC and iron pipe, refer to Catalog Section B.

^{**} D indicates test/drain valve on top of access cap.

Check Valves for Special Applications

Straight Cartridge Style Dual Check Valve (not in-line accessible)



METER SWIVEL NUT INLET BY MALE KORNERHORN THREAD OUTLET

CATALOG		DESCRIPTION			
Number	VALVE SIZE	SIZE INLET & TYPE	OUTLET SIZE & TYPE	Wt. Lbs.	
* HHC30-320-NL	3/4"	5/8"x3/4" and 3/4"	No. 1 Male Kornerhorn	1.6	

* For pack joint assemblies for PET, PEP, PVC and iron pipe, refer to Catalog Section B. Cartridges are available with **enhanced chlorine/chloramine resistance**. Add "CR" to the end of the alpha code. Example: HHC<u>CR</u>30-320-NL.



MALE IRON PIPE THREAD INLET BY MALE KORNERHORN THREAD OUTLET

CATALOG		DESCRIPTION			
Number	VALVE SIZE	SIZE INLET & TYPE	OUTLET SIZE & TYPE	Wt. Lbs.	
* HHC80-330-NL	3/4"	3/4" Male Iron Pipe	No.1 Male Kornerhorn	1.6	

* For pack joint assemblies for PET, PEP, PVC and iron oipe, refer to Catalog Section B. Cartridges are available with **enhanced chlorine/chloramine resistance**. Add "CR" to the end of the alpha code. Example: HHC<u>CR</u>80-320-NL.

Straight Cut-In Check Valves — Single and Dual Checks (in-line accessible)



*HS00-300-NL Single Check Valve Two removable PJA4-13-NL Pack Joint assemblies ordered separately

SINGLE CHECK VALVE FOR REMOVABLE PACK JOINT ASSEMBLIES

	CATALOG		DESCRIPTION			
	Number	VALVE SIZE	SIZE INLET & TYPE	OUTLET SIZE & TYPE	WT. LBS.	
*	HS00-300-NL	3/4"	No. 1 Male Kornerhorn	No. 1 Male Kornerhorn	1.2	

^{*} For pack joint assemblies for PET, PEP, PVC and iron pipe, refer to Catalog Section B.



*HHS00-300-NL Dual Check Valve Two removable PJA4-13-NL Pack Joint assemblies ordered separately

CASCADING DUAL CHECK VALVE FOR REMOVABLE PACK JOINT ASSEMBLIES

CATALOG		DESCRIPTION			
Number	VALVE SIZE	Wt. Lbs.			
* HHS00-300-NL	3/4"	No.1 Male Kornerhorn	No. 1 Male Kornerhorn	1.7	

^{*} For pack joint assemblies for PET, PEP, PVC and iron pipe, refer to Catalog Section B.

Check Valve Repair Kits

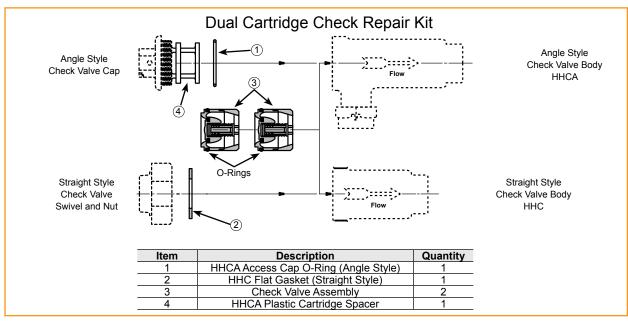
Internal Working Parts and Gaskets

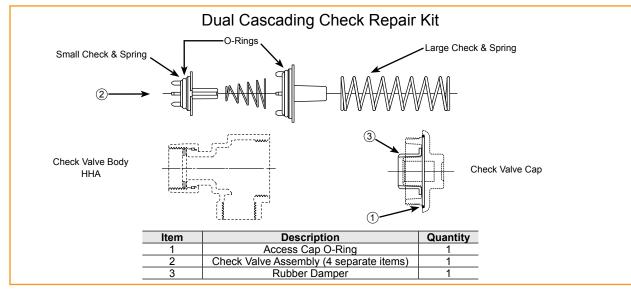
Check valves are mechanical devices subject to fouling, wear and mineral deposits. Proper inspection and maintenance are critical for continued operation.

CATALOG	D					
Number	DESCRIPTION					
	FOR SINGLE CHECKS					
HRK-3	3/4" and 1" HA, HS and 3/4" Kornerhorn Check Valve Repair Kit					
HRK-6	1-1/2" HS, HFA and HFS Repair Kit for check valves with brass internal assemblies					
*HRKP-67	1-1/2" and 2" HS, HFA and HFS Repair Kit for check valves with plastic internal assemblies					
HRK-7	2" HS, HFA and HFS Repair Kit for check valves with brass internal assemblies					
	For Dual Checks					
HHARK-1	5/8" HHA31-313-NL Dual Check Valve Repair Kit					
HHRK-3	3/4" and 3/4"x1" HHA and HHS Dual Check Valve Repair Kit					
HHCRK-3	3/4" HHCA and HHC Cartridge Style Dual Check Valve Repair Kit					
HHCCRRK-3	3/4" HHCA and HHC Cartridge Style Dual Check Valve Enhanced Chlorine/Chloramine Resistant Repair Kit					
HHCRK-4	1" HHCA and HHC Cartridge Style Dual Check Valve Repair Kit					
HHCCRRK-4	1" HHCA and HHC Cartridge Style Dual Check Valve Enhanced Chlorine/Chloramine Resistant Repair Kit					
HHRK-7	2" HHFA and HHS Dual Check Valve Repair Kit					

* For valves manufactured after May 2018

Ford Check Valves have the type of valve imprinted on the valve body. Example: "HA", "HS", "HFA", "HFS", "HHA", "HHS", "HHC" or "HHCA"



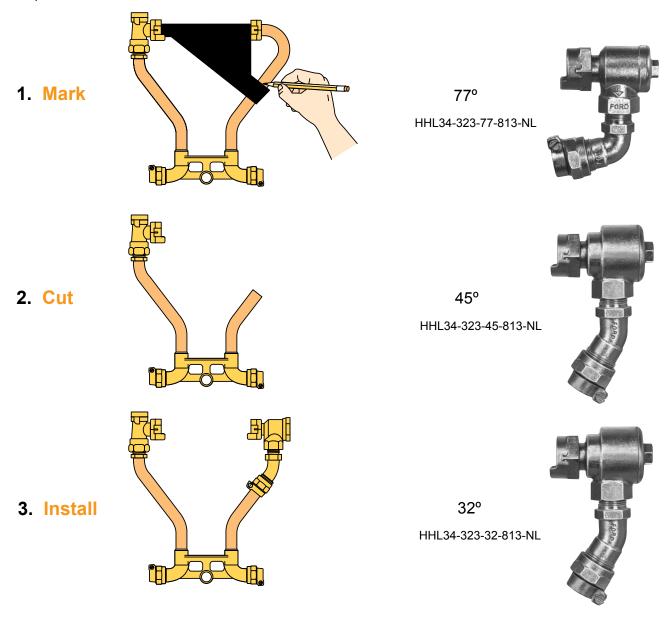


Ford Cut-in Check Valve Assemblies

For Retrofitting Angle Check Valve into Existing Ford Coppersetters and Resetters

Ford Check Valves can be retrofitted on existing Ford setters without soldering, flaring or threading. By using one of three Pack Joint cut-in ells, practically every size and type of 5/8", 5/8"x3/4", and full 3/4" Ford Coppersetter or Resetter, can be retrofitted with a check valve. The ell and check valve come as an assembled unit, ready to install on the setter.

To simplify installation, template drawings are available upon request to indicate the proper outlet leg cutting location for the check valve installation. The pictures below illustrate the proper cut-in procedure. A cut-in can be accomplished in just a few minutes with simple hand tools.



Ordering information for Cut-in Check Valve Assemblies

To insure proper fit, specify the size, style and height of the Ford setter you want to retrofit. For example, the 77 degree ell (HHL34-323-77-813-NL) is supplied for all 7" high setters. The 45 degree ell (HHL34-323-45-813-NL) fits all 9" high setters except in the 90 series, where it fits all heights. The 32 degree ell (HHL34-323-32-813-NL) is for all setters 12" or higher (except 90 series).

Note: Retrofit assemblies are available for single check valves and cascading dual check valves only. Cartridge dual checks are not available as a cut-in assembly.

Ford Cut-in Check Valve Assemblies

Cut-In Check Valve Assemblies for Ford Coppersetters and Resetters (With "HA" Style Check Valves)



HL34-323-77-813-NL

CATALOG	Meter	SETTER	
Number	Size	H EIGHT	
HL34-313-77-813-NL	5/8"	7"	
HL34-313-45-813-NL	5/8"	9" & ALL 90 Series	
HL34-313-32-813-NL	5/8"	12" and Higher	
HL34-323-77-813-NL	5/8"x3/4"	7"	
HL34-323-45-813-NL	5/8"x3/4"	9" & ALL 90 Series	
HL34-323-32-813-NL	5/8"x3/4"	12" and Higher	
HL34-444-68-NL	1"	90 Series only	

Cut-In Dual Check Valve Assemblies for Ford Coppersetters and Resetters (With "HHA" Style Dual Check Valves)



HHL34-323-32-813-NL

CATALOG	METER	SETTER
Number	Size	Неіднт
HHL34-313-77-813-NL	5/8"	7"
HHL34-313-45-813-NL	5/8"	9" & ALL 90 Series
HHL34-313-32-813-NL	5/8"	12" and Higher
HHL34-323-77-813-NL	5/8"x3/4"	7"
HHL34-323-45-813-NL	5/8"x3/4"	9" & ALL 90 Series
HHL34-323-32-813-NL	5/8"x3/4"	12" and Higher
HHL34-344-68-NL	1"	90 Series only

Ford Retrosetters

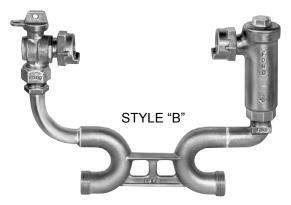
The Convenient Way to Install Single or Dual Check Valves in Existing Meter Services!

Installing single or dual check valves in existing services can be inconvenient, involving plumbing work and expensive labor. In some situations, installation may be impossible due to existing meter setting space constraints. Ford Retrosetters eliminate most of these problems at a very reasonable cost.

Each style of Retrosetter is designed for a specific application and one of them should solve your particular check valve installation problem.

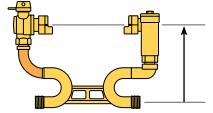
The Ford Resetter, available in Catalog Section F, is available with check valves. The Ford Resetter provides another method of installing check valves into existing meter services.

Style "B" Retrosetter - Designed for most retrosetting applications, the Style "B" Retrosetter positions the meter directly above the centerline of the service.



Approximate Height the Meter will be raised for style "B" Retrosetter

representation and motor time and tallocal for only in a contract of the contr				
OUTLET VALVE TYPE	METER SIZE	METER RAISED APPROXIMATELY THIS AMOUNT		
Single & Cascading Style	5/8", 5/8" x 3/4" & 3/4"	6"		
Single & Cascading Style	1"	8-3/8"		
Cartridge Style	5/8", 5/8" x 3/4" & 3/4"	7-1/4"		
Cartridge Style	1"	8-3/8"		
Cartridge Style	1" with 3/4"x1" check	8-1/8"		
Single & Cascading Style Single & Cascading Style Cartridge Style Cartridge Style	5/8", 5/8" x 3/4" & 3/4" 1" 5/8", 5/8" x 3/4" & 3/4" 1"	6" 8-3/8" 7-1/4" 8-3/8"		



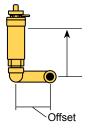
Style "C" Retrosetter - The Style "C" Retrosetter is designed for setting where space is very tight or where it is desirable to keep the height of the meter after resetting as shallow as possible. The Style "C" **Retrosetter** offsets the meter from the service line.



Approximate Height the Meter will be raised for style "C" Retrosetter

OUTLET VALVE TYPE	METER SIZE	METER RAISED APPROXIMATELY THIS AMOUNT	OFFSET
Single & Cascading Style	5/8", 5/8" x 3/4" & 3/4"	3-1/2"	2-1/2"
Single & Cascading Style	1"	5"	3-3/8"
Cartridge Style	5/8", 5/8" x 3/4" & 3/4"	4-3/4"	2-1/2"
Cartridge Style	1"	5"	3-3/8"
Cartridge Style	1" with 3/4"x1" check	4-7/8"	3-5/8"

NOTE: Style "C" is available with a 60 degree offset, add "-60" to the catalog number

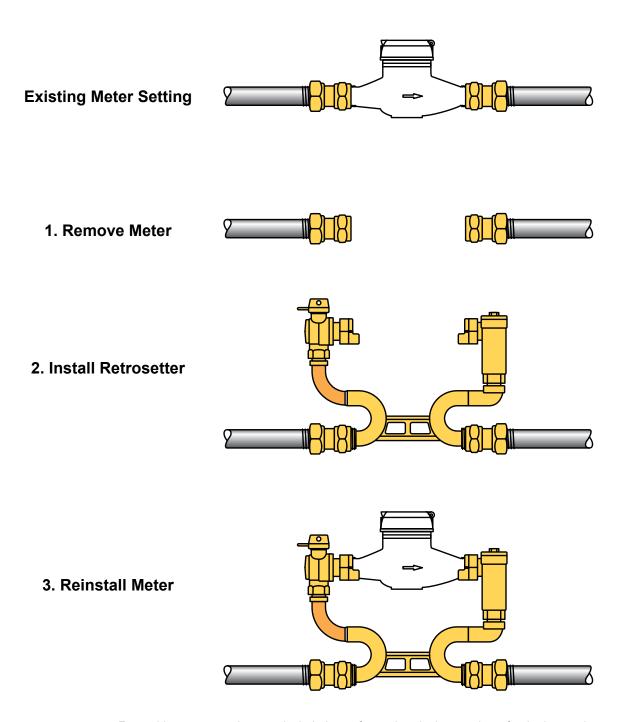


Ford "Z" Retrosetters are available for meter settings with greater space limitations. See page 25.

Ford Retrosetters

Quick and Easy Installation

All **Retrosetters** consist of a bottom bar, with inlet and outlet meter threads, which fits exactly into the space occupied by the meter. The meter is re-installed on top of copper arms with an attached swivel meter nut (or an angle ball valve or angle key valve with a meter nut) on the inlet and a single or dual check with a meter nut at the outlet. The entire installation takes only a few minutes (three steps) to complete.



Four rubber meter gaskets are included, one for each swivel nut and two for the bottom bar.

Ford Retrosetters

Retrosetters have either an inlet key valve, inlet ball valve or no inlet valve. Outlet valve options include single check, dual check or cartridge dual check valve.

Retrosetter without Valves







RETROSETTERS WITHOUT VALVES

CATALOG	METER	STYLE	APPROX.
Number	Size	SIYLE	Wt. Lbs.
RETRO-1B-NL	5/8"	В	2.9
RETRO-1C-NL	5/8"	С	2.9
RETRO-2B-NL	5/8"x3/4"	В	3.2
RETRO-2C-NL	5/8"x3/4"	С	3.2
RETRO-3B-NL	3/4"	В	4.3
RETRO-3C-NL	3/4"	С	4.3
RETRO-4B-NL	1"	В	5.9
RETRO-4C-NL	1"	С	5.9

Retrosetter with No Inlet Valve







ANGLE SINGLE CHECK VALVE ON OUTLET

ANGLE GINGLE GILLON VALVE ON GOTLET					
CATALOG	METER	STYLE	APPROX.		
Number	Size	SIYLE	Wt. Lbs.		
RETRO-1BH-NL	5/8"	В	3.9		
RETRO-1CH-NL	5/8"	С	3.9		
RETRO-2BH-NL	5/8"x3/4"	В	4.1		
RETRO-2CH-NL	5/8"x3/4"	С	4.1		
RETRO-3BH-NL	3/4"	В	5.0		
RETRO-3CH-NL	3/4"	С	5.0		
RETRO-4BH-NL	1"	В	7.1		
PETPO-4CH-NI	1"	C	7 1		

ANGLE DUAL CHECK VALVE ON OUTLET

CATALOG Number	Meter Size	STYLE	APPROX. Wt. Lbs.
RETRO-1BHH-NL	5/8"	В	4.1
RETRO-1CHH-NL	5/8"	С	4.1
RETRO-2BHH-NL	5/8"x3/4"	В	4.4
RETRO-2CHH-NL	5/8"x3/4"	С	4.4
RETRO-3BHH-NL	3/4"	В	4.5
RETRO-3CHH-NL	3/4"	С	4.5
RETRO-4B3HH-NL	1"	В	7.4
RETRO-4C3HH-NL	1"	С	7.4

ANGLE CARTRIDGE DUAL CHECK VALVE ON OUTLET

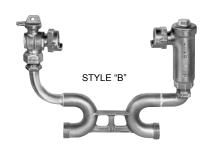
Catalog Number	Meter Size	STYLE	APPROX. Wt. Lbs.
RETRO-1BHC-NL	5/8"	В	4.6
RETRO-1CHC-NL	5/8"	С	4.6
RETRO-2BHC-NL	5/8"x3/4"	В	4.8
RETRO-2CHC-NL	5/8"x3/4"	С	4.8
RETRO-3BHC-NL	3/4"	В	5.1
RETRO-3CHC-NL	3/4"	С	5.1
RETRO-4BHC-NL	1"	В	9.8
RETRO-4CHC-NL	1"	С	9.8

Cartridges are available with **enhanced chlorine/chloramine resistance**. Add "CR" to the end of the alpha code.

Example: RETRO-1BHCCR-NL

Ford Retrosetters (Continued)

Retrosetter with Angle Ball Valve on Inlet







ANGLE BALL VALVE ON INLET AND ANGLE SINGLE CHECK VALVE ON OUTLET

CATALOG Number	METER Size	STYLE	Approx. Wt. Lbs.
RETRO-1BVBH-NL	5/8"	В	4.8
RETRO-1CVBH-NL	5/8"	С	4.8
RETRO-2BVBH-NL	5/8"x3/4"	В	5.1
RETRO-2CVBH-NL	5/8"x3/4"	С	5.1
RETRO-3BVBH-NL	3/4"	В	6.1
RETRO-3CVBH-NL	3/4"	С	6.1
RETRO-4BVBH-NL	1"	В	9.1
RETRO-4CVBH-NL	1"	С	9.1

ANGLE BALL VALVE ON INLET AND ANGLE DUAL CHECK VALVE ON OUTLET

Catalog Number	Meter Size	STYLE	APPROX. Wt. Lbs.
RETRO-1BVBHH-NL	5/8"	В	5.1
RETRO-1CVBHH-NL	5/8"	С	5.1
RETRO-2BVBHH-NL	5/8"x3/4"	В	5.4
RETRO-2CVBHH-NL	5/8"x3/4"	С	5.4
RETRO-3BVBHH-NL	3/4"	В	5.4
RETRO-3CVBHH-NL	3/4"	С	5.4
RETRO-4BVB3HH-NL	1"	В	9.3
RETRO-4CVB3HH-NL	1"	С	9.3

ANGLE BALL VALVE INLET AND ANGLE CARTRIDGE DUAL CHECK VALVE OUTLET

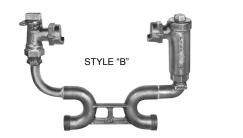
CATALOG	METER	STYLE	APPROX.
Number	Size	SIYLE	Wt. Lbs.
RETRO-1BVBHC-NL	5/8"	В	5.7
RETRO-1CVBHC-NL	5/8"	С	5.7
RETRO-2BVBHC-NL	5/8"x3/4"	В	5.9
RETRO-2CVBHC-NL	5/8"x3/4"	С	5.9
RETRO-3BVBHC-NL	3/4"	В	6.1
RETRO-3CVBHC-NL	3/4"	С	6.1
RETRO-4BVBHC-NL	1"	В	11.5
RETRO-4CVBHC-NL	1"	С	11.5

Cartridges are available with **enhanced chlorine/chloramine resistance**. Add "CR" to the end of the alpha code.

Example: RETRO-1BVBHCCR-NL

Ford Retrosetters (Continued)

Retrosetter with Angle Key Valve on Inlet







ANGLE KEY VALVE ON INLET AND ANGLE SINGLE CHECK VALVE ON OUTLET

CATALOG	METER	STYLE	APPROX.
Number	SIZE	STYLE	Wt. Lbs.
RETRO-1BVH-NL	5/8"	В	4.7
RETRO-1CVH-NL	5/8"	С	4.7
RETRO-2BVH-NL	5/8"x3/4"	В	5.0
RETRO-2CVH-NL	5/8"x3/4"	С	5.0
RETRO-3BVH-NL	3/4"	В	5.4
RETRO-3CVH-NL	3/4"	С	5.4
RETRO-4BVH-NL	1"	В	8.6
RETRO-4CVH-NL	1"	С	8.6

ANGLE KEY VALVE ON INLET AND ANGLE DUAL CHECK VALVE ON OUTLET

Catalog Number	Meter Size	STYLE	APPROX. Wt. Lbs.
RETRO-1BVHH-NL	5/8"	В	5.0
RETRO-1CVHH-NL	5/8"	С	5.0
RETRO-2BVHH-NL	5/8"x3/4"	В	5.3
RETRO-2CVHH-NL	5/8"x3/4"	С	5.3
RETRO-3BVHH-NL	3/4"	В	5.5
RETRO-3CVHH-NL	3/4"	С	5.5
RETRO-4BV3HH-NL	1"	В	8.8
RETRO-4CV3HH-NL	1"	С	8.8

ANGLE KEY VALVE ON INLET AND ANGLE CARTRIDGE DUAL CHECK VALVE ON OUTLET

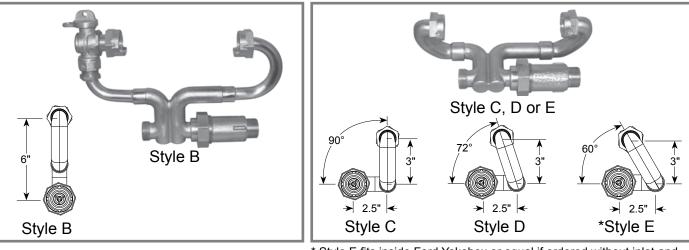
,				
CATALOG	METER	STYLE	APPROX.	
Number	Size	SITLE	Wt. Lbs.	
RETRO-1BVHC-NL	5/8"	В	5.6	
RETRO-1CVHC-NL	5/8"	С	5.6	
RETRO-2BVHC-NL	5/8"x3/4"	В	5.8	
RETRO-2CVHC-NL	5/8"x3/4"	С	5.8	
RETRO-3BVHC-NL	3/4"	В	6.0	
RETRO-3CVHC-NL	3/4"	С	6.0	
RETRO-4BVHC-NL	1"	В	11.0	
RETRO-4CVHC-NL	1"	С	11.0	

Cartridges are available with **enhanced chlorine/chloramine resistance**. Add "CR" to the end of the alpha code.

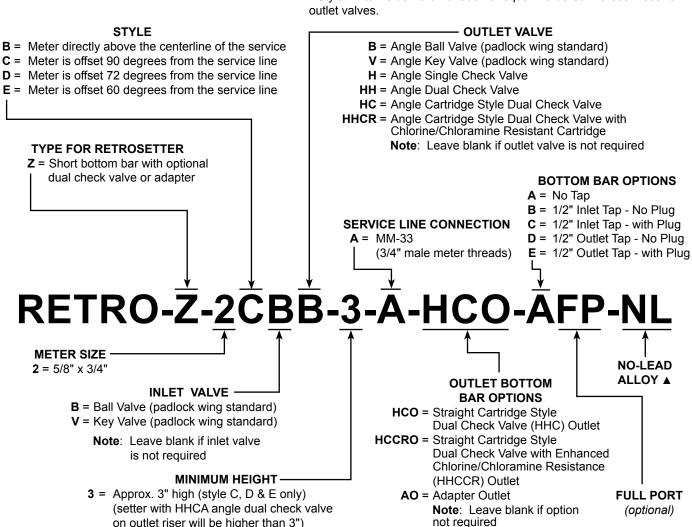
Example: RETRO-1BVHCCR-NL

Ford "Z" Retrosetters

For Existing Meter Settings with Limited Spacing



* Style E fits inside Ford Yokebox or equal if ordered without inlet and



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

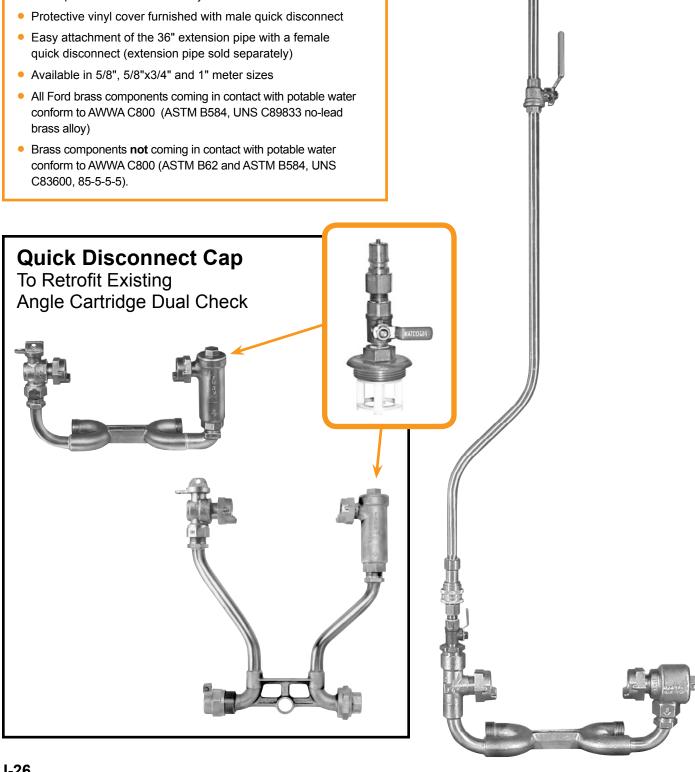
6 = Approx. 6" high (style B only)

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

Ford Retrosetter Sampling Station

Features

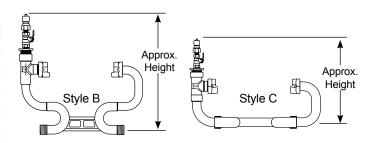
- Converts an existing meter setting into a sampling station
 - Remove meter
 - Connect Retrosetter to existing meter nuts
 - Reinstall meter into Retrosetter
 - Ready for sampling
- Male quick disconnect assembly can be located on inlet or outlet



Ford Retrosetter Sampling Station

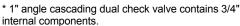
INLET - QUICK DISCONNECT OUTLET - METER NUT

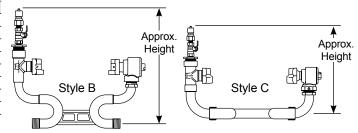
CATALOG NUMBER	METER SIZE	STYLE	APPROX. HT.
RETRO-SS-1B-95190-051-NL	5/8"	В	12"
RETRO-SS-1C-95356-015-NL	5/8"	С	10-3/4"
RETRO-SS-2B-95356-016-NL	5/8" x 3/4"	В	11-1/2"
RETRO-SS-2C-95190-044-NL	5/8" x 3/4"	С	9-1/4"
•	3/4"	В	-
•	3/4"	С	_
•	1"	В	-
RETRO-SS-4C-95190-046-NL	1"	С	10-7/8"



INLET - QUICK DISCONNECT OUTLET - ANGLE CASCADING DUAL CHECK VALVE

CATALOG NUMBER	METER SIZE	STYLE	APPROX. HT.
RETRO-SS-1B-95190-052-NL	5/8"	В	12"
RETRO-SS-1C-95190-060-NL	5/8"	C	9-1/2"
RETRO-SS-2B-95190-045-NL	5/8" x 3/4"	В	12-1/8"
RETRO-SS-2C-95190-031-NL	5/8" x 3/4"	С	9-3/8"
•	3/4"	В	-
*	3/4"	С	-
•	1"	В	-
*RETRO-SS-4C-95190-038-NL	1"	С	10-7/8"





INLET - METER NUT OUTLET - ANGLE CARTRIDGE DUAL CHECK VALVE WITH QUICK DISCONNECT

CATALOG NUMBER	METER SIZE	STYLE	APPROX. HT.
RETRO-SS-1BHC-NL	5/8"	В	12-11/16"
RETRO-SS-1CHC-NL	5/8"	C	9-15/16"
RETRO-SS-2BHC-NL	5/8" x 3/4"	В	12-7/8"
RETRO-SS-2CHC-NL	5/8" x 3/4"	С	10-1/8"
RETRO-SS-3BHC-NL	3/4"	В	12-11/16"
RETRO-SS-3CHC-NL	3/4"	С	9-15/16"
RETRO-SS-4BHC-NL	1"	В	13-3/4"
RETRO-SS-4CHC-NL	1"	С	10-3/8"
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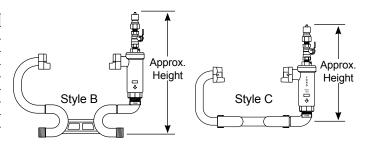
◆ Contact factory for part number

Note: Brass extension pipe sold separately

Cartridges are available with enhanced chlorine/chloramine

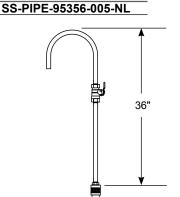
resistance. Add "CR" to the end of the alpha code.

Example: RETRO-SS-1CHCCR-NL



36" BRASS EXTENSION PIPES (SOLD SEPARATELY):

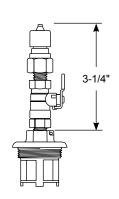
	CATALOG NUMBER		
SS-PIPE-95356-014-NL			
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CATALOG NUMBER

QUICK DISCONNECT CAP ONLY FOR HHCA STYLE DUAL CHECK VALVE

CATALOG NUMBER	Size
SS-CAP-3-NL	3/4"
SS-CAP-4-NL	1"



Section I

Ford[®] Check Valves, Retrosetters and Cut-In Check Valves

Warranty

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

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

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

Please Note:

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