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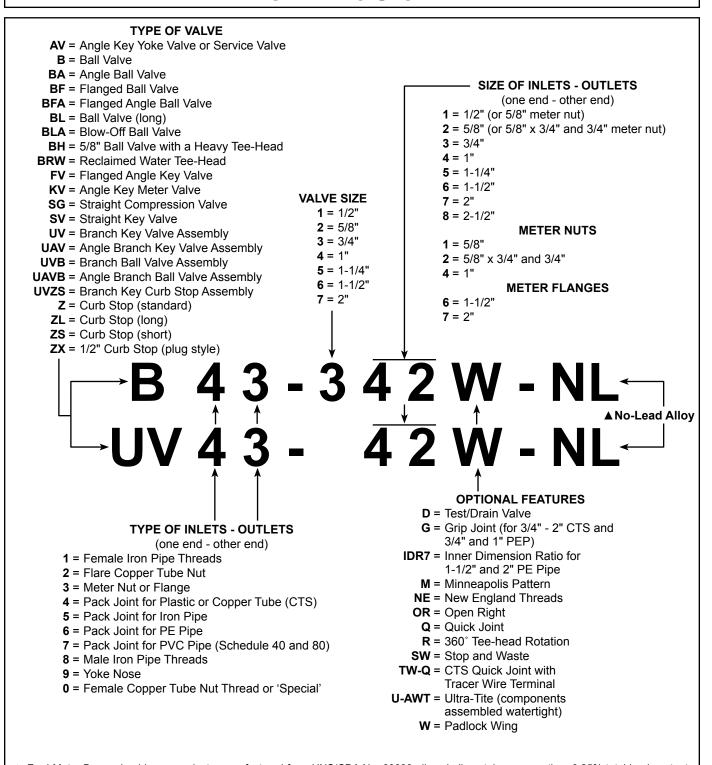
Ford offers many products that are classified to ANSI/NSF Standard 61. To verify if a product is classified to ANSI/NSF Standard 61, contact the Ford Meter Box Customer Service Department at 260-563-3171 or visit fordmeterbox. com. Ford Meter Box meets your need for ANSI/NSF Standard 61 approved items 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. United States federal and state laws allow the use of products manufactured from UNS C83600 85-5-5-5 brass alloy for only non-potable water systems within the United States.

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

## CATALOG SECTION G Numbering System



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

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

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

### Please Note:

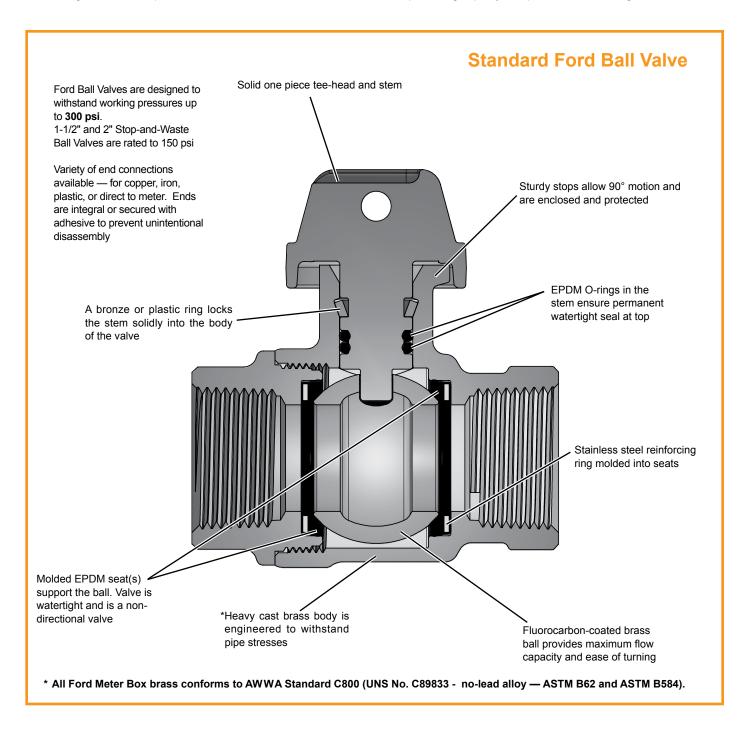
Consult the Ford Meter Box Company, Inc. website (www.fordmeterbox.com) for the most recent catalog information. The Ford Meter Box Company considers the information in this catalog to be correct at the time of publication. Items and option availability, including specifications, are subject to change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

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# Information

### Features of the Ford Ball Valve

Ford Ball Valve Curb Stops are ideal for use in water service lines. Watertight in either direction at pressures up to 300 psi, easy turning, nonbinding, and minimum pressure loss — these characteristics are added to superb design, quality, and precise manufacturing.



### PRESSURE REQUIREMENTS

The AWWA Standard C800 specifies normal pressure service line valves shall be suitable for use with water at 100 psi for 1" and smaller sizes, and 80 Psi for 1-1/4" through 2" sizes. Ford Key Style Valves are designed for normal service line pressure conditions. Use Ford Ball Valves for higher pressure requirements.

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

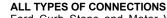
# Information

### Features of the Ford Ball Valve

### **COMPRESSION OPTIONS**

### **Options Available**

# Pack Joint Nut Grip Joint Nut Quick Joint Nut



Ford Curb Stops and Meter Valves are available with a wide variety of connections. Make your selection from compression, flare, female or male style fittings for copper, iron, polyethylene, PVC and lead.

- Pack Joint is the standard offering for all compression fittings. Other options may be available. See below for details
- Grip Joint instead of Pack Joint for CTS (for all sizes) or PEP (3/4" or 1") can be ordered by adding "-G" to the catalog number. Example: B41-333-G-NL
- Quick Joint is available for items indicated with a ◆. Add a "-Q" to the catalog number. Example: B41-333-Q-NL
- Ultra-Tite is available for items indicated with a ▶. Add "-U-AWT" to the catalog number. Example: B44-334-U-AWT-NL



Most valves are available with padlock wings (except for Minneapolis Valve or where noted). Add "W" to catalog number. Example: B11-333W-NL. "W" in a listed catalog number indicates that the valve is available with padlock wings only.

### 360° TEE-HEAD ROTATION

Standard tee-head stops on the body to permit 90° turn only. Full 360° tee-head rotation is available. Add "R" to catalog number. Example: B21-333R-NL.



A distinctive tee-head with "Reclaimed Water" lettering for easy identification is available on 3/4" through 2" Ball Valves. Insert "RW" into the catalog number. Example: BRW11-333W-NL. Tee-head sold only with padlock wings.



Lock caps are available for 5/8" through 2" Ball Valves and 3/4" Angle Key Valves. See page 38 to order.

### 2" GATE VALVE OPERATING NUT

Adapts tee-head on 1-1/4",1-1/2" and 2" Ball Valves (listed on pages 6 - 13) for operation with standard gate valve wrenches. See page 38 to order.

### MINNEAPOLIS PATTERN VALVE

Threads are available around the valve body in order to attach Minneapolis style curb boxes. 3/4" and 1" valves have 1-1/2" threads; 1-1/4", 1-1/2" and 2" valves have 2" threads. If an additional size is required other than the sizes listed, please contact the factory for availability.

### STOP-AND-WASTE FEATURE

Stop-and-waste valves allow the downstream service line to drain when in the closed position. This feature is typically used to avoid damage to the service line caused by freezing. See catalog listing for details and availability.

### HANDLES FOR VALVES

Handles for valves are available. Ordering information and descriptions are found on pages 37 and 38.

### **DRAIN/TEST VALVE OPTION**

For Ford Ball Service Valves. See page 33.

### TRACER WIRE TERMINAL

Available on 3/4", 1", 1-1/4", 1-1/2" and 2" CTS Quick Joint Nuts, add "-TW-Q" to the catalog number.



Reclaimed Water Tee-head



Valve Lock Caps

Gate Valve Operating Nut



Stop and Waste Feature

Minneapolis Pattern Valve





Drain/Test Valve Option



**Tracer Wire Terminal** 

**Ball Valves with Iron Pipe Threads** 





CATALOG	VALVE	INLET	OUTLET	APPROX.
Number	SIZE	SIZE	SIZE	WT. LBS.
*B11-333-NL	3/4"	3/4"	3/4"	1.5
B11-343-NL	3/4"	1"	3/4"	1.6
B11-344-NL	3/4"	1"	1"	1.7
BL11-344-4-5-NL	3/4"	1"	1"	2.2
*B11-444-NL	1"	1"	1"	2.0
B11-454-NL	1"	1-1/4"	1"	2.0
B11-455-NL	1"	1-1/4"	1-1/4"	2.1
B11-555-NL	1-1/4"	1-1/4"	1-1/4"	4.0
B11-566-NL	1-1/4"	1-1/2"	1-1/2"	4.3
**B11-666-NL	1-1/2"	1-1/2"	1-1/2"	4.7
**B11-676-NL	1-1/2"	2"	1-1/2"	5.0
**B11-677-NL	1-1/2"	2"	2"	5.3
**B11-777-NL	2"	2"	2"	7.1
B11-788-NL	2"	2-1/2"	2-1/2"	8.3



### Female Iron Pipe Threads Both Ends Minneapolis Pattern Valve

CATALOG	VALVE	INLET	OUTLET	APPROX.	
Number	SIZE	SIZE	SIZE	Wt. Lbs.	
*B11-333M-NL	3/4"	3/4"	3/4"	1.8	
B11-343M-NL	3/4"	1"	3/4"	2.0	
*B11-444M-NL	1"	1"	1"	2.4	
B11-455M-NL	1"	1-1/4"	1-1/4"	2.5	
B11-555M-NL	1-1/4"	1-1/4"	1-1/4"	4.4	
** B11-666M-NL	1-1/2"	1-1/2"	1-1/2"	5.7	
B11-676M-NL	1-1/2"	2"	1-1/2"	6.2	
B11-677M-NL	1-1/2"	2"	2"	6.5	
** B11-777M-NL	2"	2"	2"	8.6	
B11-788M-NL	2"	2-1/2"	2-1/2"	10.0	



# Male Iron Pipe Thread by Female Iron Pipe Thread

CATALOG	VALVE	MIP	FIP	APPROX.
Number	SIZE	END	END	WT. LBS.
B81-333-NL	3/4"	3/4"	3/4"	1.6
B81-343-NL	3/4"	1"	3/4"	1.9
B81-444-NL	1"	1"	1"	2.6
B81-455-NL	1"	1-1/4"	1-1/4"	3.0
**B81-666-NL	1-1/2"	1-1/2"	1-1/2"	5.0
B81-676-NL	1-1/2"	2"	1-1/2"	5.3
B81-677-NL	1-1/2"	2"	2"	7.6
**B81-777-NL	2"	2"	2"	9.2



### **Male Iron Pipe Thread Both Ends**

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CATALOG	VALVE	INLET	OUTLET	APPROX.	
Number	SIZE	SIZE	SIZE	WT. LBS.	
B88-333-NL	3/4"	3/4"	3/4"	2.0	
B88-344-NL	3/4"	1"	1"	2.1	
B88-444-NL	1"	1"	1"	3.1	
B88-454W-NL	1"	1-1/4"	1"	2.2	
B88-455W-NL	1"	1-1/4"	1-1/4"	2.3	
B88-666W-NL	1-1/2"	1-1/2"	1-1/2"	5.7	
B88-777-NL	2"	2"	2"	8.1	

Options available - See bottom of page 7.

### **Ball Valves with Iron Pipe and Flared Copper Ends**



### Flare Copper by Female Iron Pipe Threads

CATALOG	VALVE	FLARE	FIP	APPROX.
Number	SIZE	END	END	Wt. Lbs.
*B21-333-NL	3/4"	3/4"	3/4"	2.2
BL21-333-4-5-NL	3/4"	3/4"	3/4"	2.7
B21-343-NL	3/4"	1"	3/4"	2.6
B21-334-NL	3/4"	3/4"	1"	2.5
B21-344-NL	3/4"	1"	1"	2.8
BL21-344-5-187-NL	3/4"	1"	1"	3.2
*B21-444-NL	1"	1"	1"	3.3
B21-445-NL	1"	1"	1-1/4"	4.5
B21-455-NL	1"	1-1/4"	1-1/4"	4.7
B21-555-NL	1-1/4"	1-1/4"	1-1/4"	5.9
B21-566-NL	1-1/4"	1-1/2"	1-1/2"	6.9
**B21-666-NL	1-1/2"	1-1/2"	1-1/2"	7.8
B21-667-NL	1-1/2"	1-1/2"	2"	8.2
B21-676-NL	1-1/2"	2"	1-1/2"	10.9
B21-677-NL	1-1/2"	2"	2"	11.6
**B21-777-NL	2"	2"	2"	12.4



# Flare Copper by Female Iron Pipe Threads Minneapolis Pattern Valve

CATALOG	VALVE	FLARE	FIP	APPROX.
Number	Size	END	END	WT. LBS.
*B21-333M-NL	3/4"	3/4"	3/4"	2.8
*B21-444M-NL	1"	1"	1"	3.6
B21-455M-NL	1"	1-1/4"	1-1/4"	5.0
B21-555M-NL	1-1/4"	1-1/4"	1-1/4"	6.2
**B21-666M-NL	1-1/2"	1-1/2"	1-1/2"	9.2
**B21-676M-NL	1-1/2"	2"	1-1/2"	11.5
**B21-777M-NL	2"	2"	2"	13.4



### Male Iron Pipe Thread by Flare Copper

CATALOG	VALVE	MIP	FLARE	APPROX.
Number	Size	END	END	WT. LBS.
B82-333-NL	3/4"	3/4"	3/4"	2.0
B82-444-NL	1"	1"	1"	3.1
B82-555-NL	1-1/4"	1-1/4"	1-1/4"	6.0
B82-666-NL	1-1/2"	1-1/2"	1-1/2"	9.0
B82-777-NL	2"	2"	2"	13.6

### Options Available

- \* For **Stop-and-Waste** feature on these 3/4" and 1" ball valves, change "B" to "BC" and add "SW" to the catalog number. Example: <u>BC</u>21-333<u>SW</u>-NL.
- \*\* Stop-and-Waste feature is available for 1-1/2" and 2" ball valves. Add "SW" to the catalog number. Examples: B21-666SWM-NL.

Reclaimed Water Tee-head is available. Insert "RW" into the catalog number. Example: BRW21-333W-NL. Tee-head sold only with padlock wing.

Padlock Wings - All valves are available with padlock wings (except for Minneapolis pattern valve). Add "W" to catalog number.

Standard tee-head stops on the body to permit 90° turn *only*. **Full 360° tee-head rotation** is available. Add "R" to catalog number. Example: B21-333R-NL.

Curb Box Base - Catalog number CB-7 for 1-1/4", 1-1/2" and 2" ball valve curb stops is listed in catalog section GA.

2" Gate Valve Operating Nut is available for 1-1/4", 1-1/2" and 2" ball valves and can be ordered from page 38.

Lock Caps are available for 5/8" through 2" ball valves and can be ordered from page 38.

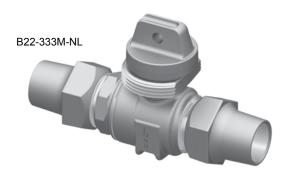
Handles are available for ball valves; see page 37.

### **Ball Valves with Flared Copper**



### Flare Copper Both Ends

CATALOG	VALVE	INLET	OUTLET	APPROX.
Number	SIZE	SIZE	Size	Wt. Lbs.
*B22-333-NL	3/4"	3/4"	3/4"	2.5
B22-343-NL	3/4"	1"	3/4"	2.8
B22-344-NL	3/4"	1"	1"	3.8
*B22-444-NL	1"	1"	1"	3.8
B22-454-NL	1"	1-1/4"	1"	4.2
B22-455-NL	1"	1-1/4"	1-1/4"	5.5
B22-555-NL	1-1/4"	1-1/4"	1-1/4"	7.0
B22-566-NL	1-1/4"	1-1/2"	1-1/2"	8.5
**B22-666-NL	1-1/2"	1-1/2"	1-1/2"	10.5
B22-676-NL	1-1/2"	2"	1-1/2"	12.9
B22-677-NL	1-1/2"	2"	2"	15.1
**B22-777-NL	2"	2"	2"	16.9



### Flare Copper Both Ends Minneapolis Pattern Valve

CATALOG	VALVE	INLET	OUTLET	APPROX.
Number	SIZE	Size	Size	WT. LBS.
*B22-333M-NL	3/4"	3/4"	3/4"	2.9
B22-343M-NL	3/4"	1"	3/4"	3.1
B22-344M-NL	3/4"	1"	1"	4.1
*B22-444M-NL	1"	1"	1"	4.2
B22-454M-NL	1"	1-1/4"	1"	4.7
B22-455M-NL	1"	1-1/4"	1-1/4"	5.6
B22-555M-NL	1-1/4"	1-1/4"	1-1/4"	4.2
B22-566M-NL	1-1/4"	1-1/2"	1-1/2"	8.2
**B22-666M-NL	1-1/2"	1-1/2"	1-1/2"	11.0
**B22-777M-NL	2"	2"	2"	17.4

### Options Available

- \* For **Stop-and-Waste** feature on these 3/4" and 1" ball valves, change "B" to "BC" and add "SW" to the catalog number. Example: <u>BC</u>22-333<u>SW</u>-NL.
- \*\* Stop-and-Waste feature is available for 1-1/2" and 2" ball valves. Add "SW" to the catalog number. Example: B22-666<u>SW</u>M-NL.

 $\textbf{Reclaimed Water Tee-head} \ \text{is available. Insert "RW" into the catalog number. Example: } \ B\underline{RW} 22-333W-NL. \ \text{Tee-head sold only with padlock wing.}$ 

Padlock Wings - All valves are available with padlock wings (except for Minneapolis pattern valve). Add "W" to catalog number.

**Standard tee-head** stops on the body to permit 90° turn *only*. **Full 360° tee-head rotation** is available. Add "R" to catalog number. Example: B22-333R-NL.

Curb Box Base - Catalog number CB-7 for 1-1/4", 1-1/2" and 2" ball valve curb stops is listed in catalog section GA.

2" Gate Valve Operating Nut is available for 1-1/4", 1-1/2" and 2" ball valves and can be ordered from page 38.

Lock Caps are available for 5/8" through 2" ball valves and can be ordered from page 38.

Handles are available for ball valves; see page 37.

### **Ball Valves with Pack Joints**

### TYPES OF PIPE AND TUBING - EXPLANATION OF ABBREVIATIONS AND CODES FOR COMPRESSION COUPLINGS

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

**Plastic Tubing** - CTS - flexible water service tubing in what is referred to as "copper tube size". Plastic tube refers to *any* plastic with the same outside diameter as corresponding sizes of copper tube such as PET - polyethylene tubing. (Pack Joint coded **CTS.**)

**Plastic Pipe** - PEP - flexible water service pipe in what is referred to as "pipe size". Plastic pipe refers to *any* pipe having the same inside diameter as corresponding sizes of standard iron pipe such as PEP - polyethylene pipe. (Pack Joint coded **PEP**.)

**PVC Pipe** - PVC - polyvinyl chloride rigid plastic pipe. PVC pipe refers to polyvinyl chloride rigid plastic pipe having the same outside diameter as corresponding sizes of standard iron pipe. (Pack Joint coded **PVC.**)

NOTE: Ford Pack Joints for PVC are only recommended for Schedule 40 and Schedule 80 PVC. Abbreviations, dimensions and insert stiffeners for plastic tubing are listed on page 39.

Consult pipe or tubing manufacturer for specific installation requirements.



# Pack Joint for Copper or Plastic Tubing (CTS) by Female Iron Pipe Thread

CATALOG	VALVE	CTS	FIP	APPROX.
Number	SIZE	END	END	Wt. Lbs.
• ♦ * B41-333-NL	3/4"	3/4"	3/4"	2.0
▶♦ B41-334-NL	3/4"	3/4"	1"	2.1
▶♦ B41-343-NL	3/4"	1"	3/4"	2.2
▶♦ B41-344-NL	3/4"	1"	1"	2.4
♦ BL41-344-4-875-NL	3/4"	1"	1"	3.1
▶♦ * B41-444-NL	1"	1"	1"	2.8
♦ B41-454-NL	1"	1-1/4"	1"	3.2
♦ B41-455-NL	1"	1-1/4"	1-1/4"	3.7
♦ B41-555-NL	1-1/4"	1-1/4"	1-1/4"	5.6
♦ **B41-666-NL	1-1/2"	1-1/2"	1-1/2"	7.0
B41-677-NL	1-1/2"	2"	2"	9.6
◆ **B41-777-NL	2"	2"	2"	11.1



Shown with Grip Joint option

### Pack Joint for Copper or Plastic Tubing (CTS) by Female Iron Pipe Thread Minneapolis Pattern Valve

CATALOG	VALVE	CTS	FIP	APPROX.
Number	Size	END	END	Wt. Lbs.
► ♦ * B41-333M-NL	3/4"	3/4"	3/4"	2.3
B41-334M-NL	3/4"	3/4"	1"	2.4
► B41-343M-NL	3/4"	1"	3/4"	2.7
► B41-344M-NL	3/4"	1"	1"	2.8
► ♦ * B41-444M-NL	1"	1"	1"	3.4
♦ B41-454M-NL	1"	1-1/4"	1"	3.5
B41-455M-NL	1"	1-1/4"	1-1/4"	4.6
B41-555M-NL	1-1/4"	1-1/4"	1-1/4"	5.5
♦ **B41-666M-NL	1-1/2"	1-1/2"	1-1/2"	8.4
B41-677M-NL	1-1/2"	1-1/2"	2"	9.8
♦ **B41-777M-NL	2"	2"	2"	12.3

### Options Available

Grip Joint for CTS (3/4" - 2") and PEP (3/4" and 1") is available. Add "-G" to the catalog number. Example: B41-333-G-NL.

- \* For **Stop-and-Waste** feature on these 3/4" and 1" ball valves, change "B" to "BC" and add "SW" to the catalog number. Example: <u>BC</u>41-333<u>SW</u>.-NL
- \*\*Stop-and-Waste feature is available for 1-1/2" and 2" ball valves. Add "SW" to the catalog number. Example: B41-666SWM-NL.
- ◆ Quick Joint is available by adding a "-Q" to the catalog number.
- ▶ Ultra-Tite is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)
- Ultra-Tite is available. Add "-U" to the catalog number.

Tracer Wire Terminal available on 3/4", 1", 1-1/4", 1-1/2" and 2" CTS Quick Joint Nuts, add "-TW-Q" to the catalog number.

Reclaimed Water Tee-head is available. Insert "RW" into the catalog number. Example: BRW41-333W-NL. Tee-head sold only with padlock wing.

Padlock Wings - All valves are available with padlock wings (except for Minneapolis pattern valve). Add "W" to catalog number.

Standard tee-head stops on the body to permit 90° turn *only*. **Full 360° tee-head rotation** is available. Add "R" to catalog number. Example: B41-333R-NL.

2" Gate Valve Operating Nut is available for 1-1/4", 1-1/2" and 2" ball valves and can be ordered from page 38.

Lock Caps are available for 5/8" through 2" ball valves and can be ordered from page 38.

Handles are available for ball valves; see page 37.

### **Ball Valves with Pack Joints - Continued**







Shown with Quick Joint option





### Pack Joint for Iron Pipe by Female Iron Pipe Thread

CATALOG	VALVE	IP	FIP	APPROX.
Number	Size	END	END	Wt. Lbs.
B51-333-NL	3/4"	3/4"	3/4"	2.2
B51-343-NL	3/4"	1"	3/4"	2.5
B51-344-NL	3/4"	1"	1"	2.7
B51-444-NL	1"	1"	1"	3.3
** B51-666-NL	1-1/2"	1-1/2"	1-1/2"	7.2
** B51-777-NL	2"	2"	2"	11.1

# Pack Joint for Iron Pipe by Female Iron Pipe Thread Minneapolis Pattern Valve

CATALOG	VALVE	IP	FIP	APPROX.
Number	Size	END	END	Wt. LBs.
B51-333M-NL	3/4"	3/4"	3/4"	2.3
B51-344M-NL	3/4"	1"	1"	3.1
** B51-666M-NL	1-1/2"	1-1/2"	1-1/2"	7.0

# Pack Joint for Plastic Pipe (PEP) by Female Iron Pipe Thread

	CATALOG	VALVE	PEP	FIP	APPROX.		
	Number	Size	END	End	Wt. Lbs.		
• •	B61-333-NL	3/4"	3/4"	3/4"	2.3		
<b></b>	B61-343-NL	3/4"	1"	3/4"	2.7		
<b>•</b>	B61-344-NL	3/4"	1"	1"	2.9		
▶ ♦	B61-444-NL	1"	1"	1"	3.5		
	B61-555-NL	1-1/4"	1-1/4"	1-1/4"	8.7		
*	* B61-666-IDR7-NL	1-1/2"	1-1/2"	1-1/2"	9.2		
*	* B61-777-IDR7-NL	2"	2"	2"	10.5		

# Pack Joint for Plastic Pipe (PEP) by Female Iron Pipe Thread Minneapolis Pattern Valve

	CATALOG	VALVE	PEP	FIP	APPROX.		
	Number	Size	END	END	Wt. Lbs.		
<b></b>	B61-333M-NL	3/4"	3/4"	3/4"	3.0		
<b></b>	B61-344M-NL	3/4"	1"	1"	3.8		
<b>&gt;</b> +	B61-444M-NL	1"	1"	1"	4.4		
	B61-555M-NL	1-1/4"	1-1/4"	1-1/4"	6.6		
**	* B61-666M-IDR7-NL	1-1/2"	1-1/2"	1-1/2"	9.2		
**	* B61-777M-IDR7	2"	2"	2"	13.3		

### Pack Joint for PVC Pipe\*\*\* by Female Iron Pipe Thread

CATALOG	VALVE	PVC	FIP	APPROX.
Number	SIZE	END	END	WT. LBS.
B71-333-NL	3/4"	3/4"	3/4"	2.1
B71-343-NL	3/4"	1"	3/4"	2.5
B71-344-NL	3/4"	1"	1"	2.6
B71-444-NL	1"	1"	1"	2.9
B71-555-NL	1-1/4"	1-1/4"	1-1/4"	5.5
† ** B71-666-NL	1-1/2"	1-1/2"	1-1/2"	6.3
** B71-777-NL	2"	2"	2"	10.5

<sup>\*\*\*</sup> Ford Pack Joints for PVC are only recommended for Schedule 40 and Schedule 80 pipe.

# Pack Joint for PVC Pipe\*\*\* by Female Iron Pipe Thread Minneapolis Pattern Valve

1411	willineapons rattern valve						
CATALOG	VALVE	PVC	FIP	APPROX.			
Number	Size	END	END	Wt. Lbs.			
B71-333M-NL	3/4"	3/4"	3/4"	2.4			
B71-343M-NL	3/4"	1"	3/4"	2.8			
B71-444M-NL	1"	1"	1"	3.5			
B71-555M-NL	1-1/4"	1-1/4"	1-1/4"	5.8			
† ** B71-666M-NL	1-1/2"	1-1/2"	1-1/2"	7.3			
** B71-777M-NL	2"	2"	2"	12.0			

<sup>\*\*\*</sup> Ford Pack Joints for PVC are only recommended for Schedule 40 and Schedule 80 pipe.

### **Ball Valves with Pack Joints - Continued**



Shown with Quick Joint option

### Pack Joint for Copper or Plastic Tubing (CTS) Both Ends

	CATALOG		DESCRIPTION		APPROX.
	SECTION	VALVE SIZE	INLET SIZE	OUTLET SIZE	WT. LBS.
• • *	B44-333-NL	3/4"	3/4"	3/4"	2.4
<b>&gt;</b> +	B44-343-NL	3/4"	1"	3/4"	2.5
▶+	B44-344-NL	3/4"	1"	1"	3.1
▶ ♦ *	B44-444-NL	1"	1"	1"	3.1
	B44-445-Q-NL	1"	1"	1-1/4"	3.7
	B44-455-NL	1"	1-1/4"	1-1/4"	5.0
<b>*</b>	B44-555-NL	1-1/4"	1-1/4"	1-1/4"	6.0
<b>♦</b> **	B44-666-NL	1-1/2"	1-1/2"	1-1/2"	9.0
	B44-677-NL	1-1/2"	2"	2"	11.1
<b>♦</b> **	B44-777-NL	2"	2"	2"	13.8



### Pack Joint for Copper or Plastic Tubing (CTS) Both Ends Minneapolis Pattern Valve

	CATALOG		Approx.		
	Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	WT. LBS.
▶ ♦ *	B44-333M-NL	3/4"	3/4"	3/4"	2.6
▶ ♦	B44-343M-NL	3/4"	1"	3/4"	2.6
▶ ♦	B44-344M-NL	3/4"	1"	1"	3.2
▶ ♦ *	B44-444M-NL	1"	1"	1"	3.4
<b>*</b>	B44-455M-NL	1"	1-1/4"	1-1/4"	5.2
<b>*</b> *	B44-555M-NL	1-1/4"	1-1/4"	1-1/4"	6.9
<b>♦</b> **	B44-666M-NL	1-1/2"	1-1/2"	1-1/2"	9.4
<b>♦</b> **	B44-777M-NL	2"	2"	2"	14.1



### Pack Joint for Iron Pipe Both Ends

CATALOG		DESCRIPTION			
Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	WT. LBS.	
B55-333-NL	3/4"	3/4"	3/4"	2.4	
B55-444-NL	1"	1"	1"	3.6	
** B55-666-NL	1-1/2"	1-1/2"	1-1/2"	7.0	
** B55-777-NL	2"	2"	2"	12.3	

### Options Available

Grip Joint for CTS (3/4" - 2") and PEP (3/4" and 1") is available. Add "-G" to the catalog number. Example: B44-333-G-NL.

- \* For Stop-and-Waste feature on these 3/4" and 1" ball valves, change "B" to "BC" and add "SW" to the catalog number. Example: BC44-333SW-NL.
- \*\*Stop-and-Waste feature is available for 1-1/2" and 2" ball valves. Add "SW" to the catalog number. Example: B44-666SW-NL.
- ◆ Quick Joint is available by adding a "-Q" to the catalog number.
- ▶ Ultra-Tite is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)
- Ultra-Tite is available. Add "-U" to the catalog number.

Tracer Wire Terminal available on 3/4", 1", 1-1/4", 1-1/2" and 2" CTS Quick Joint Nuts, add "-TW-Q" to the catalog number.

† Uses Ballcorp style Pack Joint nut.

Reclaimed Water Tee-head is available. Insert "RW" into the catalog number. Example: BRW44-333W-NL. Tee-head sold only with padlock wing.

Padlock Wings - All valves are available with padlock wings (except for Minneapolis pattern valve). Add "W" to catalog number.

Standard tee-head stops on the body to permit 90° turn only. Full 360° tee-head rotation is available. Add "R" to catalog number. Example: B44-333R-NL.

Curb Box Base - Catalog number CB-7 for 1-1/4",1-1/2" and 2" ball valve curb stops is listed in catalog section GA.

2" Gate Valve Operating Nut is available for 1-1/4", 1-1/2" and 2" ball valves and can be ordered from page 38.

Lock Caps are available for 5/8" through 2" ball valves and can be ordered from page 38.

Handles are available for ball valves; see page 37.

### **Ball Valves with Pack Joints - Continued**



### Pack Joint for Plastic Pipe (SIDR7 PEP) Both Ends

	CATALOG	DESCRIPTION			APPROX.
Number		VALVE SIZE	INLET SIZE	OUTLET SIZE	WT. LBS.
<b>&gt;</b> +	B66-333-NL	3/4"	3/4"	3/4"	3.2
<b>&gt;</b>	B66-344-NL	3/4"	1"	1"	4.0
▶+	B66-444-NL	1"	1"	1"	5.0
	B66-555-NL	1-1/4"	1-1/4"	1-1/4"	8.0
	B66-666-IDR7-NL	1-1/2"	1-1/2"	1-1/2"	13.6
	B66-777-IDR7-NL	2"	2"	2"	15.4



### Pack Joint for Plastic Pipe (SIDR7 PEP) Both Ends Minneapolis Pattern Valve

	CATALOG	DESCRIPTION			APPROX.
Number		VALVE SIZE	INLET SIZE	OUTLET SIZE	WT. LBS.
• •	B66-333M-NL	3/4"	3/4"	3/4"	3.4
<b>&gt;</b> +	B66-444M-NL	1"	1"	1"	5.3
	B66-666M-IDR7-NL	1-1/2"	1-1/2"	1-1/2"	12.6
	B66-777M-IDR7-NL	2"	2"	2"	15.9



### Pack Joint for PVC Pipe\*\*\* Both Ends

	CATALOG		APPROX.		
	Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	Wt. Lbs.
	B77-333-NL	3/4"	3/4"	3/4"	3.2
	B77-344-NL	3/4"	1"	1"	4.0
	B77-444-NL	1"	1"	1"	5.2
	B77-555-NL	1-1/4"	1-1/4"	1-1/4"	6.7
t	**B77-666-NL	1-1/2"	1-1/2"	1-1/2"	8.0
	**B77-777-NL	2"	2"	2"	14.3

<sup>\*\*\*</sup> Ford Pack Joints for PVC are only recommended for Schedule 40 and Schedule 80 pipe.



### Pack Joint for PVC Pipe\*\*\* Both Ends Minneapolis Pattern Valve

	CATALOG	CATALOG DESCRIPTION			APPROX.
	Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	Wt. Lbs.
	B77-333M-NL	3/4"	3/4"	3/4"	3.4
	B77-444M-NL	1"	1"	1"	5.3
Ŧ	**B77-666M-NL	1-1/2"	1-1/2"	1-1/2"	10.6
	** R77-777M-NI	2"	2"	2"	16.1

<sup>\*\*\*</sup> Ford Pack Joints for PVC are only recommended for Schedule 40 and Schedule 80 pipe.



# Pack Joint for Copper or Plastic Tubing (CTS) by Pack Joint for Plastic Pipe (SIDR7 PEP)

CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE	CTS END	PEP END	WT. LBS.
▶♦ B46-333-NL	3/4"	3/4"	3/4"	2.3
▶♦ B46-444-NL	1"	1"	1"	3.2
**B46-666-IDR7-NL	1-1/2"	1-1/2"	1-1/2"	8.1
**B46-777-IDR7-NL	2"	2"	2"	12.8



# Pack Joint for Copper or Plastic Tubing (CTS) by Pack Joint for PVC Pipe\*\*\*

CATALOG		DESCRIPTION			
Number	VALVE SIZE	CTS END	PEP END	WT. LBS.	
▶♦ B47-333-NL	3/4"	3/4"	3/4"	2.6	
▶ ♦♦ B47-444-NL	1"	1"	1"	3.8	

<sup>\*\*\*</sup> Ford Pack Joints for PVC are only recommended for Schedule 40 and Schedule 80 pipe.

<sup>♦◆</sup> Quick Joint for CTS is only available with padlock wing option. Add "W-Q" to the catalog number.

### **Ball Valves with Pack Joints - Continued**



# Male Iron Pipe Thread by Pack Joint for Copper or Plastic Tubing (CTS)

	CATALOG		DESCRIPTION		
	Number	VALVE SIZE	MIP END	CTS END	WT. LBS.
• •	B84-333-NL	3/4"	3/4"	3/4"	1.8
▶ ♦	B84-444-NL	1"	1"	1"	2.3
	B84-455-NL	1"	1-1/4"	1-1/4"	3.4
•	B84-666-NL	1-1/2"	1-1/2"	1-1/2"	6.4
•	B84-777-NL	2"	2"	2"	9.7
	B84-788-NL	2"	2-1/2"	2-1/2"	14.3
					. 1.0



### Male Iron Pipe Thread by Pack Joint for PVC Pipe\*\*\*

CATALOG		APPROX.		
Number	VALVE SIZE	MIP END	PVC END	WT. LBS.
B87-333-NL	3/4"	3/4"	3/4"	2.3
B87-334-NL	3/4"	3/4"	1"	2.7
B87-444-NL	1"	1"	1"	3.2
** B87-777-NL	2"	2"	2"	11.2

<sup>\*\*\*</sup> Ford Pack Joints for PVC are only recommended for Schedule 40 and Schedule 80 pipe.



### Pack Joint for Plastic Pipe (PEP) by Flare Copper

CATALOG		DESCRIPTION			APPROX.
	Number	VALVE SIZE	PEP END	FLARE END	WT. LBS.
▶+	B62-333-NL	3/4"	3/4"	3/4"	2.6
<b>&gt;</b> +	B62-444-NL	1"	1"	1"	3.4
*	* B62-666-IDR7-NL	1-1/2"	1-1/2"	1-1/2"	8.5
*	* B62-777-IDR7-NL	2"	2"	2"	12.5



# Flare Copper by Pack Joint for Copper or Plastic Tubing (CTS)

	CATALOG	DESCRIPTION			APPROX.
	Number	VALVE SIZE	FLARE END	CTS END	WT. LBS.
<b></b>	B24-334-NL	3/4"	3/4"	1"	2.3
▶ ♦	B24-444-NL	1"	1"	1"	3.0

### Options Available

Grip Joint for CTS (3/4" - 2") and PEP (3/4" and 1") is available. Add "-G" to the catalog number. Example: B84-333-G-NL.

- \*\* Stop-and-Waste feature is available for 1-1/2" and 2" ball valves. Add "SW" to the catalog number. Example: B62-666<u>SW</u>-IDR7-NL. (Stop and Waste available on flare side only.)
- Quick Joint is available by adding a "-Q" to the catalog number.
- ▶ Ultra-Tite is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)
- Ultra-Tite compression is available. Add "-U" into the catalog number. Example: B84-333-U-NL.
- † Uses Ballcorp style Pack Joint Nut.

Tracer Wire Terminal available on 3/4", 1", 1-1/4", 1-1/2" and 2" CTS Quick Joint Nuts, add "-TW-Q" to the catalog number.

Reclaimed Water Tee-head is available. Insert "RW" into the catalog number. Example: BRW84-333W-NL. Tee-head sold only with padlock wing.

Padlock Wings - All valves are available with padlock wings (except for Minneapolis pattern valve). Add "W" to catalog number.

Standard tee-head stops on the body to permit 90° turn *only*. **Full 360° tee-head rotation** is available. Add "R" to catalog number. Example: B84-333R-NL.

Curb Box Base - Catalog number CB-7 for 1-1/4", 1-1/2" and 2" ball valve curb stops is listed in catalog section GA.

2" Gate Valve Operating Nut is available for 1-1/4", 1-1/2" and 2" ball valves and can be ordered from page 38.

Lock Caps are available for 5/8" through 2" ball valves and can be ordered from page 38.

Handles are available for ball valves; see page 37.

# Ford "BH" Ball Valves

BH Ball Valves have a full 5/8" round water passage with excellent flow characteristics. Designed for use as a curb stop, the BH valve is strong and rugged, offering a fine replacement for inverted key and plug style valves.













### **Female Iron Pipe Thread Both Ends**

CATALOG		APPROX.		
Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	WT. LBS.
BH11-211-NL	5/8"	1/2"	1/2"	1.4
BH11-231-NL	5/8"	3/4"	1/2"	1.4
BH11-233-NL	5/8"	3/4"	3/4"	1.3

### Flare Copper by Female Iron Pipe Thread

CATALOG		APPROX.		
Number	VALVE SIZE	FLARE END	FIP END	WT. LBS.
BH21-231-NL	5/8"	3/4"	1/2"	1.7
BH21-233-NL	5/8"	3/4"	3/4"	1.7
BH21-233M-NL	5/8"	3/4"	3/4"	2.0

**NOTE:** Length of valve for flare copper is measured *less* the copper tube nut.

### Flare Copper Both Ends

CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	WT. LBS.
BH22-233-NL	5/8"	3/4"	3/4"	2.3
BH22-233M-NL	5/8"	3/4"	3/4"	2.5

NOTE: Length of valve for flare copper is measured less the copper tube nut.

# Pack Joint for Copper or Plastic Tubing (CTS) by Female Iron Pipe Thread

	-			
CATALOG	G DESCRIPTION			
Number	VALVE SIZE	CTS END	FIP END	Wt. Lbs.
► BH41-231-NL	5/8"	3/4"	1/2"	1.6
▶♦ BH41-233-NL	5/8"	3/4"	3/4"	1.7
► BH41-233M-NL	5/8"	3/4"	3/4"	1.9

### Pack Joint for Copper or Plastic Tubing (CTS) Both Ends

CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	Wt. Lbs.
▶♦ BH44-233-NL	5/8"	3/4"	3/4"	2.1
► BH44-233M-NL	5/8"	3/4"	3/4"	2.3

# Pack Joint for Plastic Pipe (PEP) by Pack Joint for Copper or Plastic Tubing (CTS)

	CATALOG	DESCRIPTION			APPROX.
	Number	VALVE SIZE	PEP END	CTS END	Wt. Lbs.
▶	BH64-233-NL	5/8"	3/4"	3/4"	2.2

NOTE: Padlock wing option is not available on BH style ball valves.

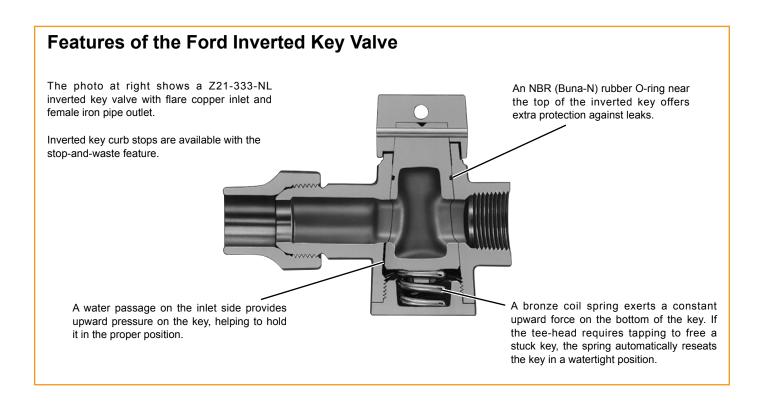
### Options Available

Grip Joint for CTS (3/4" - 2") and PEP (3/4" and 1") is available. Add "-G" to the catalog number. Example: BH44-233-G-NL.

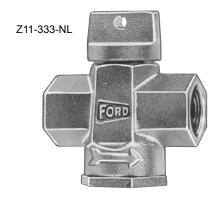
- ◆ Quick Joint is available by adding a "-Q" to the catalog number.
  - Tracer Wire Terminal available on 3/4", 1", 1-1/4", 1-1/2" and 2" CTS Quick Joint Nuts, add "-TW-Q" to the catalog number.
- ▶ Ultra-Tite is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)
- Standard tee-head stops on the body to permit 90° turn *only*. **Full 360° tee-head rotation** is available. Add "R" to catalog number. Example: BH44-233R-NL.

Lock Caps are available for 5/8" through 3/4" ball valves and can be ordered from page 38.

Handles are available for ball valves; see page 37.



### **Curb Stops with Female Iron Pipe Threads and Flare Copper Ends**



### 1/2" Solid Tee Head Plug Valve Curb Stops

CATALOG		APPROX.		
Number	VALVE SIZE	INLET SIZE AND TYPE	OUTLET SIZE AND TYPE	WT. LBS.
ZX11-111-NL	1/2"	1/2" FIP	1/2" FIP	0.7

**NOTE**: ZX style valves are plug-style rather than inverted key style.

### Female Iron Pipe Thread Both Ends

		•		
CATALOG		APPROX.		
Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	Wt. Lbs.
** Z11-333-NL	3/4"	3/4"	3/4"	2.1
** ZS11-333-NL	3/4"	3/4"	3/4"	2.0
** ZL11-333-NL	3/4"	3/4"	3/4"	2.3
** Z11-444-NL	1"	1"	1"	3.6

### Options Available

Standard tee-head stops on the body to permit 90° turn *only*. **Full 360° tee-head rotation** is available. Add "R" to catalog number. Example: Z11-333R-NL.

<sup>\*\*</sup> **Stop-and-Waste feature** is available. Add "SW" to the catalog number. Example: Z11-333<u>SW</u>-NL. (Note: Stop-and-waste feature drains the outlet side of the valve.)

**Curb Stops with Female Iron Pipe Threads** and Flare Copper Ends - Continued



### Flare Copper by Female Iron Pipe Thread

CATALOG		APPROX.		
Number	VALVE SIZE	FLARE SIZE	FIP SIZE	WT. LBS.
** Z21-333-NL	3/4"	3/4"	3/4"	2.5
** Z21-444-NL	1"	1"	1"	4.2

NOTE: Stop-and-Waste feature drains the FIP side of valve.



# Flare Copper by Female Iron Pipe Thread Minneapolis Pattern Valve

CATALOG		APPROX.		
Number	VALVE SIZE	FLARE SIZE	FIP SIZE	Wt. LBS.
Z21-333M-NL	3/4"	3/4"	3/4"	2.5
Z21-444M-NL	1"	1"	1"	4.3

**NOTE**: Minneapolis pattern curb box threads for inverted key curb stops are 1-1/2" for 3/4" valves and 2" for 1" valves.



### Flare Copper Both Ends

CATALOG	CATALOG DESCRIPTION			
Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	WT. LBS.
** Z22-111-NL	1/2"	1/2"	1/2"	1.5
** Z22-322-NL	3/4"	5/8"	5/8"	2.7
** Z22-333-NL	3/4"	3/4"	3/4"	2.9
** Z22-444-NL	1"	1"	1"	4.6



### Flare Copper Both Ends Minneapolis Pattern Valve

CATALOG		APPROX.		
Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	WT. LBS.
** Z22-333M-NL	3/4"	3/4"	3/4"	2.9
** Z22-444M-NL	1"	1"	1"	4.8

**NOTE**: Minneapolis pattern curb box threads for inverted key curb stops are 1-1/2" for 3/4" valves and 2" for 1" valves.

### Options Available

Standard tee-head stops on the body to permit 90° turn *only*. **Full 360° tee-head rotation** is available. Add "R" to catalog number. Example: Z21-333R-NL.

<sup>\*\*</sup> **Stop-and-Waste feature** is available. Add "SW" to the catalog number. Examples: Z22-333<u>SW</u>-NL and Z22-444<u>SW</u>M-NL. (Note: Stop-and-waste feature drains the outlet side of the valve.)

**Curb Stops with Pack Joints** 

### TYPES OF PIPE AND TUBING - EXPLANATION OF ABBREVIATIONS AND CODES FOR COMPRESSION COUPLINGS

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

**Plastic Tubing** - CTS - flexible water service tubing in what is referred to as "copper tube size". Plastic tube refers to *any* plastic with the same outside diameter as corresponding sizes of copper tube such as PET - polyethylene tubing. (Pack Joint coded **CTS**.)

**Plastic Pipe** - PEP - flexible water service pipe in what is referred to as "pipe size". Plastic pipe refers to *any* pipe having the same inside diameter as corresponding sizes of standard iron pipe such as PEP - polyethylene pipe. (Pack Joint coded **PEP**.)

**PVC Pipe** - PVC - polyvinyl chloride rigid plastic pipe. PVC pipe refers to polyvinyl chloride rigid plastic pipe having the same outside diameter as corresponding sizes of standard iron pipe. (Pack Joint coded **PVC**.)

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

Abbreviations, dimensions and insert stiffeners for plastic tubing are listed on page 39.

Consult pipe or tubing manufacturer for specific installation requirements.



# Z41-333M-NL



# Pack Joint for Copper or Plastic Tubing (CTS) by Female Iron Pipe Thread

CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE	CTS SIZE	FIP SIZE	Wt. Lbs.
►** Z41-333-NL	3/4"	3/4"	3/4"	2.4
►** Z41-444-NL	1"	1"	1"	3.9

# Pack Joint for Copper or Plastic Tubing (CTS) by Female Iron Pipe Thread Minneapolis Pattern Valve

CATALOG		DESCRIPTION			APPROX.
	Number	VALVE SIZE	CTS SIZE	FIP SIZE	WT. LBS.
<b></b>	Z41-333M-NL	3/4"	3/4"	3/4"	2.5
<b></b>	Z41-444M-NL	1"	1"	1"	4.2

**NOTE**: Minneapolis pattern curb box threads for inverted key curb stops are 1-1/2" for 3/4" valves and 2" for 1" valves.

# Pack Joint for Plastic Pipe (PEP) by Female Iron Pipe Thread

CATALOG		DESCRIPTION			APPROX.
	Number	VALVE SIZE	PEP SIZE	FIP SIZE	WT. LBS.
<b>&gt;</b>	Z61-333-NL	3/4"	3/4"	3/4"	2.5
<b>&gt;</b> +	Z61-444-NL	1"	1"	1"	4.3

### Pack Joint for Plastic Pipe (PEP) by Female Iron Pipe Thread Stop and Waste Feature

CATALOG DESCRIPTION			APPROX.		
	Number	VALVE SIZE	PEP SIZE	FIP SIZE	Wt. Lbs.
ightharpoons	Z61-333SW-NL	3/4"	3/4"	3/4"	2.5
<b>•</b>	Z61-444SW-NL	1"	1"	1"	4.3

**NOTE**: Stop-and-waste feature drains the FIP side of valve.

### Options Available

- \*\* Stop-and-Waste feature is available. Add "SW" to the catalog number. Example: Z41-333<u>SW</u>-NL. (Note: Stop-and-waste feature drains the outlet side of the valve.)
  - Grip Joint for CTS (3/4" 2") and PEP (3/4" and 1") is available. Add "-G" to the catalog number. Example: Z61-333-G-NL.
- ◆ Quick Joint is available by adding a "-Q" to the catalog number.
- ▶ Ultra-Tite is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)

Tracer Wire Terminal available on 1" CTS Quick Joint Nuts, add "-TW-Q" to the catalog number.

Standard tee-head stops on the body to permit 90° turn *only*. **Full 360° tee-head rotation** is available. Add "R" to catalog number. Example: Z41-333R-NL.

### **Curb Stops with Pack Joints - Continued**



# Pack Joint for Copper or Plastic Tubing (CTS) Both Ends

CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	Wt. Lbs.
♦** Z44-111-NL	1/2"	1/2"	1/2"	1.6
♦** Z44-322-NL	3/4"	5/8"	5/8"	2.9
► ♦ ** Z44-333-NL	3/4"	3/4"	3/4"	2.8
► ♦ ** Z44-444-NL	1"	1"	1"	4.0



# Pack Joint for Copper or Plastic Tubing (CTS) Both Ends

Minneapolis Pattern Valve

	CATALOG	-	APPROX.		
	Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	Wt. Lbs.
<b></b>	**Z44-333M-NL	3/4"	3/4"	3/4"	2.8
▶	** Z44-444M-NL	1"	1"	1"	4.7

**NOTE**: Minneapolis pattern curb box threads for inverted key curb stops are 1-1/2" for 3/4" valves and 2" for 1" valves.



### Pack Joint for Plastic Pipe (PEP) Both Ends

	CATALOG		APPROX.		
Number		VALVE SIZE	INLET SIZE	OUTLET SIZE	Wt. Lbs.
▶	**Z66-333-NL	3/4"	3/4"	3/4"	3.0
▶	**Z66-444-NL	1"	1"	1"	5.1



### Pack Joint for PVC Pipe\*\*\* Both Ends

CATALOG		APPROX.		
Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	Wt. Lbs.
**Z77-333-NL	3/4"	3/4"	3/4"	2.9
**Z77-444-NL	1"	1"	1"	5.1

<sup>\*\*\*</sup> Ford Pack Joints for PVC are only recommended for Schedule 40 and Schedule 80 pipe.

### Options Available

- \*\* Stop-and-Waste feature is available. Add "SW" to the catalog number. Example: Z44-333<u>SW</u>-NL and Z44-444<u>SW</u>M-NL. (Note: Stop-and-waste feature drains the outlet side of the valve.)
  - Grip Joint for CTS (3/4" 2") and PEP (3/4" and 1") is available. Add "-G" to the catalog number. Example: Z44-333-G-NL.
- ◆ Quick Joint is available by adding a "-Q" to the catalog number.
- ▶ Ultra-Tite is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)

Tracer Wire Terminal available on 1" CTS Quick Joint Nuts, add "-TW-Q" to the catalog number.

Standard tee-head stops on the body to permit 90° turn *only*. **Full 360° tee-head rotation** is available. Add "R" to catalog number. Example: Z44-333R-NL.

Minneapolis Pattern Valves are available in a variety of sizes. For sizes other than those in the above table, please contact the factory.

See page 5 for specific details on above options.

### Straight Ball Meter Valves by FIP, MIP and Flared Copper

### TYPES OF PIPE AND TUBING - EXPLANATION OF ABBREVIATIONS AND CODES FOR COMPRESSION COUPLINGS

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

**Plastic Tubing** - CTS - flexible water service tubing in what is referred to as "copper tube size". Plastic tube refers to *any* plastic with the same outside diameter as corresponding sizes of copper tube such as PET - polyethylene tubing. (Pack Joint coded **CTS**.)

**Plastic Pipe** - PEP - flexible water service pipe in what is referred to as "pipe size". Plastic pipe refers to any pipe having the same inside diameter as corresponding sizes of standard iron pipe such as PEP - polyethylene pipe. (Pack Joint coded **PEP**.)

**PVC Pipe** - PVC - polyvinyl chloride rigid plastic pipe. PVC pipe refers to polyvinyl chloride rigid plastic pipe having the same outside diameter as corresponding sizes of standard iron pipe. (Pack Joint coded **PVC**.)

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

Abbreviations, dimensions and insert stiffeners for plastic tubing are listed on page 39.

Consult pipe or tubing manufacturer for specific installation requirements.



### Female Iron Pipe Thread by Meter Swivel Nut

CATALOG		DESCRIPTION				
Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	Wt. Lbs.		
B13-211W-NL	5/8"	1/2"	5/8"	1.2		
B13-212W-NL	5/8"	1/2"	5/8"x3/4" & 3/4"	1.2		
B13-231W-NL	5/8"	3/4"	5/8"	1.2		
B13-232W-NL	5/8"	3/4"	5/8"x3/4" & 3/4"	1.3		
▼ B13-232WW-NL	5/8"	3/4"	5/8"x3/4" & 3/4"	1.3		
B13-331W-NL	3/4"	3/4"	5/8"	1.9		
B13-332W-NL	3/4"	3/4"	5/8"x3/4" & 3/4"	2.0		
B13-341W-NL	3/4"	1"	5/8"	2.1		
B13-342W-NL	3/4"	1"	5/8"x3/4" & 3/4"	2.2		
B13-344W-NL	3/4"	1"	1"	2.4		
B13-444W-NL	1"	1"	1"	2.8		
B13-454W-NL	1"	1-1/4"	1"	3.1		



### Male Iron Pipe Thread by Meter Swivel Nut

CATALOG		DESCRIPTION				
Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	Wt. Lbs.		
B83-231W-NL	5/8"	3/4"	5/8"	1.2		
B83-232W-NL	5/8"	3/4"	5/8"x3/4" & 3/4"	1.3		
B83-242W-NL	5/8"	1"	5/8"x3/4" & 3/4"	1.4		
B83-332W-NL	3/4"	3/4"	5/8"x3/4" & 3/4"	1.9		
B83-444W-NL	1"	1"	1"	2.8		



### Flare Copper by Meter Swivel Nut

CATALOG		DESCRIPTION			
Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	Wt. Lbs.	
B23-231W-NL	5/8"	3/4"	5/8"	1.7	
B23-232W-NL	5/8"	3/4"	5/8"x3/4" & 3/4"	1.8	
B23-331W-NL	3/4"	3/4"	5/8"	2.2	
B23-332W-NL	3/4"	3/4"	5/8"x3/4" & 3/4"	2.8	
B23-341W-NL	3/4"	1"	5/8"	3.2	
B23-342W-NL	3/4"	1"	5/8"x3/4" & 3/4"	2.8	
B23-344W-NL	3/4"	1"	1"	3.3	
B23-444W-NL	1"	1"	1"	3.5	
B23-454W-NL	1"	1-1/4"	1"	5.4	

### **Options Available**

**Reclaimed Water Tee-head** is available on 3/4" and 1" ball valves, insert "RW" into the catalog number. Example: BRW 13-332W-NL. Tee-head sold only with padlock wing.

Standard tee-head stops on the body to permit 90° turn only. **Full 360**° **tee-head rotation** is available. Add "R" to the catalog number. Example: B13-332WR-NL.

Lock Caps are available for 5/8" through 1" ball valves and can be ordered from page 38.

Handles are available for ball valves; see page 37.

▼ "WW" indicates double padlock wings for locking in either on or off position.

### **Straight Ball Meter Valves with Pack Joints**



# Pack Joint for Copper or Plastic Tubing (CTS) Inlet by Meter Swivel Nut

CATALOG		APPROX.		
Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	Wt. LBs.
B43-211W-NL	5/8"	1/2"	5/8"	1.4
B43-212W-NL	5/8"	1/2"	5/8"x3/4" & 3/4"	1.5
▶ ♦ B43-231W-NL	5/8"	3/4"	5/8"	1.6
• ♦ B43-232W-NL	5/8"	3/4"	5/8"x3/4" & 3/4"	1.7
► B43-331W-NL	3/4"	3/4"	5/8"	2.1
• ♦ B43-332W-NL	3/4"	3/4"	5/8"x3/4" & 3/4"	2.4
▶ ♦ B43-334W-NL	3/4"	3/4"	1"	2.3
► B43-341W-NL	3/4"	1"	5/8"	2.7
▶ ♦ B43-342W-NL	3/4"	1"	5/8"x3/4" & 3/4"	2.4
► ♦ B43-344W-NL	3/4"	1"	1"	2.7
► ♦ B43-444W-NL	1"	1"	1"	3.2
B43-454W-NL	1"	1-1/4"	1"	3.4



### Pack Joint for Iron Pipe by Meter Swivel Nut

CATALOG		APPROX.		
Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	Wt. Lbs.
B53-212W-NL	5/8"	1/2"	5/8"x3/4" & 3/4"	1.6
B53-232W-NL	5/8"	3/4"	5/8"x3/4" & 3/4"	1.7
B53-332W-NL	3/4"	3/4"	5/8"x3/4" & 3/4"	2.4



### Pack Joint for Plastic Pipe (PEP) by Meter Swivel Nut

CATALOG	CATALOG DESCRIPTION				
Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	Wt. Lbs.	
► B63-231W-NL	5/8"	3/4"	5/8"	1.8	
▶ ♦ B63-232W-NL	5/8"	3/4"	5/8"x3/4" & 3/4"	1.8	
► B63-331W-NL	3/4"	3/4"	5/8"	2.3	
▶ ♦ B63-332W-NL	3/4"	3/4"	5/8"x3/4" & 3/4"	2.5	
► B63-342W-NL	3/4"	1"	5/8"x3/4" & 3/4"	3.0	
► B63-344W-NL	3/4"	1"	1"	3.4	
▶ ♦ B63-444W-NL	1"	1"	1"	3.8	



### Pack Joint for PVC Pipe\*\*\* by Meter Swivel

CATALOG		DESCRIPTION				
Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	Wt. Lbs.		
B73-231W-NL	5/8"	3/4"	5/8"	1.8		
B73-232W-NL	5/8"	3/4"	5/8"x3/4" & 3/4"	1.8		
B73-331W-NL	3/4"	3/4"	5/8"	2.1		
B73-332W-NL	3/4"	3/4"	5/8"x3/4" & 3/4"	2.6		
B73-342W-NL	3/4"	1"	5/8"x3/4" & 3/4"	2.9		
B73-344W-NL	3/4"	1"	1"	3.4		
B73-444W-NL	1"	1"	1"	3.8		

<sup>\*\*\*</sup> Ford Pack Joints for PVC are only recommended for Schedule 40 and Schedule 80 pipe.

NOTE: "W" indicates valve is standard with padlock wings only.

### Options Available

Grip Joint for CTS (3/4" - 2") and PEP (3/4" and 1") is available. Add "-G" to the catalog number. Example: B63-332W-G-NL.

- ♦ Quick Joint is available by adding a "-Q" to the catalog number.
- ▶ Ultra-Tite is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)
- Ultra-Tite is available. Add "-U" to the catalog number.

**Reclaimed Water Tee-head** is available on 3/4" and 1" ball valves, insert "RW" into the catalog number. Example: BRW63-332W-NL. Tee-head sold only with padlock wing.

Standard tee-head stops on the body to permit 90° turn *only*. **Full 360° tee-head rotation** is available. Add "R" to the catalog number. Example: B63-332WR-NL.

Lock Caps are available for 5/8" through 2" ball valves and can be ordered from page 38.

Handles are available for ball valves; see page 37.

Straight Ball Flanged Meter Valves
- for 1-1/2" and 2" Meters



### Female Iron Pipe Thread by Meter Flange

CATALOG		DESCRIPTION			
Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	Wt. Lbs.	
BF13-666W-NL	1-1/2"	1-1/2"	1-1/2"	7.8	
BF13-676W-NL	1-1/2"	2"	1-1/2"	8.3	
BF13-777W-NL	2"	2"	1-1/2" or 2"	10.3	
BF13-787W-NL	2"	2-1/2"	1-1/2" or 2"	10.6	



### Male Iron Pipe Thread by Meter Flange

CATALOG		DESCRIPTION			
Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	Wt. Lbs.	
BF83-666W-NL	1-1/2"	1-1/2"	1-1/2"	8.1	
BF83-777W-NL	2"	2"	1-1/2" or 2"	10.6	



### Flare Copper by Meter Flange

CATALOG		APPROX.		
Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	Wt. Lbs.
BF23-666W-NL	1-1/2"	1-1/2"	1-1/2"	9.7
BF23-676W-NL	1-1/2"	2"	1-1/2"	11.8
BF23-777W-NL	2"	2"	1-1/2" or 2"	13.6



# Pack Joint for Copper or Plastic Tubing (CTS) by Meter Flange

	CATALOG		DESCRIPTION			
	Number	VALVE SIZE	VALVE SIZE   SERV. LINE SIZE   METER SIZE			
<b>*</b>	BF43-666W-NL	1-1/2"	1-1/2"	1-1/2"	8.9	
	BF43-676W-NL	1-1/2"	2"	1-1/2"	9.8	
•	BF43-777W-NL	2"	2"	1-1/2" or 2"	12.2	
	BF43-787W-NL	2"	2-1/2"	1-1/2" or 2"	12.8	

**Standard features include:** Flat drop-in gaskets for 1-1/2" and 2" flanged valves. Slotted holes are standard on 2" flanged valves, adapting them for connection to either 1-1/2" or 2" flanged meters.

NOTE: "W" indicates valve is standard with padlock wings only.

### Options Available

Grip Joint for CTS (3/4" - 2") and PEP (3/4" and 1") is available. Add "-G" to the catalog number. Example: BF43-666W-G-NL.

◆ Quick Joint is available by adding a "-Q" to the catalog number.

**Reclaimed Water Tee-head** is available. Insert "RW" into the catalog number. Example: BF<u>RW</u>43-666W-NL. Tee-head sold only with padlock wing. Standard tee-head stops on the body to permit 90° turn *only*. **Full 360° tee-head rotation** is available. Add "R" to catalog number. Example: BF13-666WR-NL.

Steel Bolts and Nuts (5/8"x2-1/2", zinc plated) for attaching 1-1/2" and 2" valves to meters are available, but must be ordered separately. Steel bolt catalog number: PSB

2" Gate Valve Operating Nut is available for 1-1/4" through 2" ball valves and can be ordered from page 38.

Lock Caps are available for 5/8" through 2" ball valves and can be ordered from page 38.

Handles are available for ball valves; see page 37.

**Meter Support Brackets** to support the meter during installation are available on flanged valves at additional cost. Add "MSB" to the catalog number. Example: BF13-666W-MSB-NL.

### Straight Ball Flanged Meter Valves - for 1-1/2" and 2" Meters - Continued



### Pack Joint for Iron Pipe by Meter Flange

CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	Wt. Lbs.
BF53-666W-NL	1-1/2"	1-1/2"	1-1/2"	9.1
BF53-777W-NL	2"	2"	1-1/2" or 2"	12.3



### Pack Joint for Plastic Pipe (PEP) by Meter Flange

CATALOG		APPROX.		
Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	Wt. Lbs.
BF63-666W-IDR7-NL	1-1/2"	1-1/2"	1-1/2"	11.4
BF63-777W-IDR7-NL	2"	2"	1-1/2" or 2"	12.9



### Pack Joint for PVC Pipe\*\*\* by Meter Flange

CATALOG		APPROX.		
Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	Wt. Lbs.
† BF73-666W-NL	1-1/2"	1-1/2"	1-1/2"	9.5
BF73-777W-NL	2"	2"	1-1/2" or 2"	13.3

<sup>\*\*\*</sup> Ford Pack Joints for PVC are only recommended for Schedule 40 and Schedule 80 pipe.

Standard features include: Flat drop-in gaskets for 1-1/2" and 2" flanged valves. Slotted holes are standard on 2" flanged valves, adapting them for connection to either 1-1/2" or 2" flanged meters.

NOTE: "W" indicates valve is standard with padlock wings only.

† Uses Ballcorp style Pack Joint Nut.

### Options Available

For Reclaimed Water Tee-head for Ball Valves, insert "RW" into the catalog number. Example: BFARW43-666W-NL. Tee-head sold only with padlock wing. Example: BFA13-777WR-NL.

Reclaimed Water 2" Gate Valve Operating Nut is available for 1-1/4" through 2" ball valves and can be ordered from page 38.

Lock Caps are available for 5/8" through 2" ball valves and can be ordered from page 38.

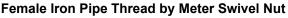
Handles are available for ball valves; see page 37.

**Meter Support Brackets** to support the meter during installation are available on flanged valves at additional cost. Add "MSB" to the catalog number. Example: BFA43-777W-MSB-NL.

Steel Bolts and Nuts (5/8"x2-1/2", zinc plated) for attaching 1-1/2" and 2" valves to meters are available, but must be ordered separately. Steel bolt catalog number: PSB

See page 5 for specific details on above options.

# **Straight Compression Globe Meter Valves**





CATALOG		DESCRIPTION			
Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	WT. LBS.	
SG13-331-NL	3/4"	3/4"	5/8"	1.6	
SG13-332-NL	3/4"	3/4"	5/8"x3/4" & 3/4"	1.6	
SG13-444-NL	1"	1"	1"	2.4	

### Flare Copper by Meter Swivel Nut

CATALOG		APPROX.		
Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	WT. LBS.
SG23-331-NL	3/4"	3/4"	5/8"	1.9
SG23-332-NL	3/4"	3/4"	5/8"x3/4" & 3/4"	1.9

### Pack Joint for Copper or Plastic Tubing (CTS) by Meter Swivel Nut

	CATALOG		APPROX.		
	Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	Wt. Lbs.
<b></b>	SG43-332-NL	3/4"	3/4"	5/8"	1.9

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

► Ultra-Tite is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)

# Ford Angle Ball Meter Valves

### Female Iron Pipe Thread Inlet by Meter Swivel Nut Outlet

CATALOG		DESCRIPTION		APPROX.
Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	WT. LBS.
BA13-231W-NL	5/8"	3/4"	5/8"	1.2
BA13-232W-NL	5/8"	3/4"	5/8"x3/4" & 3/4"	1.3
▼ BA13-232WW-NL	5/8"	3/4"	5/8"x3/4" & 3/4"	1.4
BA13-331W-NL	3/4"	3/4"	5/8"	1.9
BA13-332W-NL	3/4"	3/4"	5/8"x3/4" & 3/4"	2.0
▼ BA13-332WW-NL	3/4"	3/4"	5/8"x3/4" & 3/4"	2.1
BA13-334W-NL	3/4"	3/4"	1"	2.1
BA13-341W-NL	3/4"	1"	5/8"	2.3
BA13-342W-NL	3/4"	1"	5/8"x3/4" & 3/4"	2.3
BA13-344W-NL	3/4"	1"	1"	2.4
BA13-444W-NL	1"	1'"	1"	3.1
▼ BA13-444WW-NL	1"	1"	1"	3.2

▼ Double padlock wings for locking in either "on" or "off" position.

### Flare Copper Inlet by Meter Swivel Nut Outlet

CATALOG		APPROX.		
Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	Wt. Lbs.
BA23-231W-NL	5/8"	3/4"	5/8"	1.6
BA23-232W-NL	5/8"	3/4"	5/8"x3/4" & 3/4"	1.7
BA23-241W-NL	5/8"	1"	5/8"	2.0
BA23-242W-NL	5/8"	1"	5/8"x3/4" & 3/4"	2.0
BA23-331W-NL	3/4"	3/4"	5/8"	2.2
BA23-332W-NL	3/4"	3/4"	5/8"x3/4" & 3/4"	2.3
BA23-334W-NL	3/4"	3/4"	1"	2.7
BA23-341W-NL	3/4"	1"	5/8"	2.6
BA23-342W-NL	3/4"	1"	5/8"x3/4" & 3/4"	2.7
BA23-344W-NL	3/4"	1"	1"	2.8
BA23-444W-NL	1"	1"	1"	3.8

# Pack Joint for Copper or Plastic Tubing (CTS) Inlet by Meter Swivel Nut Outlet

CATALOG		DESCRIPTION				
Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	Wt. Lbs.		
► ♦ BA43-231W-NL	5/8"	3/4"	5/8"	1.5		
► ♦ BA43-232W-NL	5/8"	3/4"	5/8"x3/4" & 3/4"	1.6		
► BA43-241W-NL	5/8"	1"	5/8"	1.6		
► BA43-242W-NL	5/8"	1"	5/8"x3/4" & 3/4"	1.7		
► ♦ BA43-331W-NL	3/4"	3/4"	5/8"	2.1		
• ♦ BA43-332W-NL	3/4"	3/4"	5/8"x3/4" & 3/4"	2.2		
► ♦ BA43-334W-NL	3/4"	3/4"	1"	2.2		
► ♦ BA43-341W-NL	3/4"	1"	5/8"	2.2		
► ♦ BA43-342W-NL	3/4"	1"	5/8"x3/4" & 3/4"	2.3		
► ♦ BA43-344W-NL	3/4"	1"	1"	2.4		
▶ ♦ BA43-444W-NL	1"	1'"	1"	2.9		

### Pack Joint for Plastic Pipe (PEP) Inlet by Meter Swivel Nut Outlet

CATALOG		DESCRIPTION					
Number	VALVE SIZE	VALVE SIZE SERV. LINE SIZE METER SIZE					
► BA63-231W-NL	5/8"	3/4"	5/8"	1.6			
► BA63-232W-NL	5/8"	3/4"	5/8"x3/4" & 3/4"	1.7			
► ♦ BA63-332W-NL	3/4"	3/4"	5/8"x3/4" & 3/4"	2.5			
▶ ♦ BA63-342W-NL	3/4"	1"	5/8"x3/4" & 3/4"	2.8			
▶ ♦ BA63-444W-NL	1"	1'"	1"	4.0			

### Pack Joint for PVC Pipe \*\*\* Inlet by Meter Swivel Nut Outlet

CATALOG		APPROX.		
Number	VALVE SIZE	Wt. Lbs.		
BA73-232W-NL	5/8"	3/4"	5/8"x3/4" & 3/4"	1.8

<sup>\*\*\*</sup> Ford Pack Joints for PVC are only recommended for Schedule 40 and Schedule 80 pipe.

**Note**: The 5/8" Port Angle Ball Valve is a one-directional valve designed for the inlet side of the meter and should not be used as a customer shut-off on the customer side of the meter.



### Padlock Wings on Angle Meter Valves

Inverted key meter valves and ball meter valves include padlock wings for locking the valve in a closed position. The "W" at the end of the catalog number indicates the valve is standard with padlock wings.

Top view of the valve in the open position. Padlock holes are normally 7/16"

### Options Available

Grip Joint for CTS (3/4" - 2") and PEP (3/4" and 1") is available. Add "-G" to the catalog number. Example: BA63-332W-G-NL.

- Quick Joint is available by adding a "-Q" to the catalog number.
- ▶ Ultra-Tite is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)
- **Ultra-Tite** is available. Add "-U" to the catalog number.

Handles are available for ball valves; see page 37.

Standard tee-head stops on the body to permit 90° turn *only*. **Full 360° tee-head rotation** is available. Add "R" to catalog number. Example: -332WR-NL.

**Reclaimed Water Tee-head** is available on 3/4" and 1" ball valves. Insert "RW" into the catalog number. Example: BARW63-332W-NL. Tee-head sold only with padlock wing.

# Ford Angle Ball Flanged Meter Valves

### For 1-1/2" and 2" Meters



### Female Iron Pipe Thread by Meter Flange

ı	CATALOG		DESCRIPTION				
	Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	Wt. Lbs.		
	BFA13-666W-NL	1-1/2"	1-1/2"	1-1/2"	7.0		
	BFA13-677W-NL	1-1/2"	2"	1-1/2" and 2"	7.6		
	BFA13-777W-NL	2"	2"	1-1/2" and 2"	9.1		

### Flare Copper by Meter Flange

CATALOG		DESCRIPTION			
Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	Wt. Lbs.	
BFA23-666W-NL	1-1/2"	1-1/2"	1-1/2"	8.0	
BFA23-777W-NL	2"	2"	1-1/2" and 2"	12.2	

# Pack Joint for Copper or Plastic Tubing (CTS) by Meter Flange

CATALOG		APPROX.		
Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	Wt. Lbs.
♦ BFA43-666W-NL	1-1/2"	1-1/2"	1-1/2"	7.8
♦ BFA43-777W-NL	2"	2"	1-1/2" and 2"	10.7

1-1/2" and 2" angle ball meter valves are suitable for a customer side shut off (outlet side of meter) up to 300 psi.

Standard features include: Flat drop-in gaskets for 1-1/2" and 2" flanged valves. Slotted holes are standard on 2" flanged angle valves, adapting them for connection to either 1-1/2" or 2" flanged meters.

### Options Available

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

◆ Quick Joint is available by adding a "-Q" to the catalog number.

Handles are available for Ball Valves; see page 37.

For Reclaimed Water Tee-head for Ball Valves, insert "RW" into the catalog number. Example: BFARW43-666W-NL. Tee-head sold only with padlock wing.

**Meter Support Brackets** to support the meter during installation are available on flanged valves at additional cost. Add "MSB" to the catalog number. Example: BFA43-777W-MSB-NL.

Standard tee-head stops on the body to permit 90° turn *only*. **Full 360° tee-head rotation** is available. Add "R" to catalog number. Example: BFA13-777WR-NL.

Steel Bolts and Nuts (5/8"x2-1/2", zinc plated) for attaching 1-1/2" and 2" valves to meters are available, but must be ordered separately. Steel bolt catalog number: PSB

2" Gate Valve Operating Nut is available for 1-1/4" through 2" ball valves and can be ordered from page 38.

Lock Caps are available for 5/8" through 2" ball valves and can be ordered from page 38.

See page 5 for specific details on above options.

# Ford Blow-Off Ball Valves

Typically installed at the end of a water pipeline, blow-off valves provide a simple solution for line flushing.



### Female Iron Pipe Thread by Male Iron Pipe Thread

CATALOG	VALVE	INLET	OUTLET	APPROX.
Number	Size	SIZE	SIZE	Wt. Lbs.
BLA18-677-TA-NL	1-1/2"	2"	2"	5.6
BLA18-777-TA-NL	2"	2"	2"	9.3

### Flare Copper by Male Iron Pipe Thread

CATALOG	VALVE	INLET	OUTLET	APPROX.
Number	Size	SIZE	Size	Wt. Lbs.
BLA28-443-TA-NL	1"	1"	3/4"	2.7
† BLA28-677-TA-AWT-NL	1-1/2"	2"	2"	10.6

† This product is manufactured from components assembled watertight.

# **Angle Compression Globe Meter Valves**



### Female Iron Pipe Thread by Meter Swivel Nut

CATALOG		APPROX.		
Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	Wt. LBS.
GA13-331-NL	3/4"	3/4"	5/8"	1.4
GA13-332-NL	3/4"	3/4"	5/8"x3/4" & 3/4"	1.5
GA13-444-NL	1"	1"	1"	2.1

### Flare Copper by Meter Swivel Nut

CATALOG		APPROX.		
Number	VALVE SIZE	SERV. LINE SIZE	METER SIZE	Wt. Lbs.
GA23-331-NL	3/4"	3/4"	5/8"	1.7
GA23-332-NL	3/4"	3/4"	5/8"x3/4" & 3/4"	1.8

# Pack Joint for Copper or Plastic Tubing (CTS) by Meter Swivel Nut

	CATALOG		APPROX.		
	Number	VALVE SIZE   SERV. LINE SIZE   METER SIZE			Wt. Lbs.
ightharpoons	GA43-331-NL	3/4"	3/4"	5/8"	1.8
▶	GA43-332-NL	3/4"	3/4"	5/8"x3/4" & 3/4"	1.8

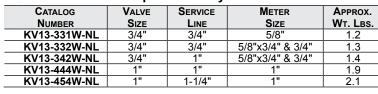
▶ Ultra-Tite is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)

**Grip Joint for CTS** (3/4" - 2") is available. Add "-G" to the catalog number. Example: GA43-332-G-NL

# **Angle Inverted Key Meter Valves**

### Female Iron Pipe Thread by Meter Swivel Nut





### Flare Copper by Meter Swivel Nut

CATALOG	VALVE	SERVICE	METER	APPROX.
Number	Size	LINE	Size	Wt. Lbs.
KV23-331W-NL	3/4"	3/4"	5/8"	1.6
KV23-341W-NL	3/4"	1"	5/8"	1.7
KV23-332W-NL	3/4"	3/4"	5/8"x3/4" & 3/4"	1.6
KV23-342W-NL	3/4"	1"	5/8"x3/4" & 3/4"	1.9
KV23-444W-NL	1"	1"	1"	2.4
KV23-454W-NL	1"	1-1/4"	1"	2.9

# Pack Joint for Copper or Plastic Tubing (CTS) by Meter Swivel Nut

CATALOG	VALVE	SERVICE	METER	APPROX.
Number	Size	LINE	Size	Wt. Lbs.
► KV43-331W-NL	3/4"	3/4"	5/8"	1.4
► KV43-341W-NL	3/4"	1"	5/8"	1.4
▶ ♦ KV43-332W-NL	3/4"	3/4"	5/8"x3/4" & 3/4"	1.5
► ♦ KV43-342W-NL	3/4"	1"	5/8"x3/4" & 3/4"	1.7
► ♦ KV43-444W-NL	1"	1"	1"	2.1
KV43-454W-NL	1"	1-1/4"	1"	2.7

Pack Joint for Plastic Pipe (PEP) by Meter Swivel Nut

CATALOG	VALVE	SERVICE	METER	APPROX.
Number	Size	LINE	Size	Wt. Lbs.
► KV63-331W-NL	3/4"	3/4"	5/8"	1.5
► ♦ KV63-332W-NL	3/4"	3/4"	5/8"x3/4" & 3/4"	1.6
▶ ♦ KV63-342W-NL	3/4"	1"	5/8"x3/4" & 3/4"	2.2
► KV63-444W-NL	1"	1"	1"	2.7

NOTE: "W" indicates valve is standard with padlock wings only.

### **Options Available**

KV23-332W-NL

Grip Joint for CTS (all sizes) and PEP (3/4" and 1") is available. Add "-G" to the catalog number. Example: KV63-332W-G-NL.

◆ Quick Joint is available by adding a "-Q" to the catalog number.

KV43-444W-NL

▶ Ultra-Tite is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)

Lock Caps are available for "old style" non-padlock wing 5/8", 5/8"x3/4", and 3/4" angle meter valves. Order by catalog number AV-LOCKCAP-23.

Handles are available for key valves; see page 38.

# **Ford Angle Meter Valves**

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



FV43-777W-NL

### Female Iron Pipe Thread by Meter Flange

CATALOG		DESCRIPTION			
Number	VALVE SIZE	VALVE SIZE   SERV. LINE SIZE   METER SIZE			
FV13-666W-NL	1-1/2"	1-1/2"	1-1/2"	6.8	
FV13-676W-NL	1-1/2"	2"	1-1/2"	6.2	
FV13-777W-NL	2"	2"	1-1/2" or 2"	7.5	



### Flare Copper by Meter Flange

CATALOG		DESCRIPTION		
Number	VALVE SIZE	VALVE SIZE   SERV. LINE SIZE   METER SIZE		
FV23-666W-NL	1-1/2"	1-1/2"	1-1/2"	7.6
FV23-777W-NL	2"	2"	1-1/2" or 2"	10.9

# Pack Joint for Copper or Plastic Tubing (CTS) by Meter Flange

CATALOG		DESCRIPTION		
Number	VALVE SIZE   SERV. LINE SIZE   METER SIZE			Wt. Lbs.
FV43-666W-NL	1-1/2"	1-1/2"	1-1/2"	7.1
FV43-777W-NL	2"	2"	1-1/2" or 2"	9.8



### Pack Joint for Iron Pipe by Meter Flange

CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE	VALVE SIZE   SERV. LINE SIZE   METER SIZE		
FV53-666W-NL	1-1/2"	1-1/2"	1-1/2"	6.4
FV53-777W-NL	2"	2"	1-1/2" or 2"	8.2

### Pack Joint for Plastic Pipe (SIDR7 PEP) by Meter Flange

	-	•	•	
CATALOG		APPROX.		
Number	VALVE SIZE	VALVE SIZE   SERV. LINE SIZE   METER SIZE		
FV63-666W-IDR7-NL	1-1/2"	1-1/2"	1-1/2"	7.2
FV63-777W-IDR7-NL	2"	2"	1-1/2" or 2"	9.5



FV13-777W-MSB-NL Valve showing optional Meter Support Brackets

### Pack Joint for PVC Pipe\*\*\* by Meter Flange

CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE	VALVE SIZE   SERV. LINE SIZE   METER SIZE		
† FV73-666W-NL	1-1/2"	1-1/2"	1-1/2"	6.7
FV73-777W-NL	2"	2"	1-1/2" or 2"	9.1

<sup>\*\*\*</sup> Ford Pack Joints for PVC are only recommended for Schedule 40 and Schedule 80 pipe.

**Standard features include:** Flat drop-in gaskets for 1-1/2" and 2" flanged valves. Slotted holes are standard on 2" flanged angle valves, adapting them for connection to either 1-1/2" or 2" flanged meters.

NOTE: Flange Inverted Key Angle Valves should <u>not</u> be used as customer shut-off on the customer side of the meter.

NOTE: "W" indicates valve is standard with padlock wings only.

### Options Available

Grip Joint for CTS (3/4" - 2") and PEP (3/4" and 1") is available. Add "-G" to the catalog number. Example: FV43-666W-G-NL.

Steel Bolts and Nuts (5/8"x2-1/2", zinc plated) for attaching 1-1/2" and 2" valves to meters are available, but must be ordered separately. Steel bolt catalog number: PSB

**Meter Support Brackets** to support the meter during installation are available on flanged valves at additional cost. Add "MSB" to the catalog number. Example: FV13-777W-<u>MSB</u>-NL.

<sup>†</sup> Uses Ballcorp style Pack Joint Nut.

# **Key Valve Branch Assemblies**

7-1/2" Spacing Between Centers of Angle Key Meter Valves



# Female Iron Pipe Thread Inlet by Two Meter Swivel Nut Outlets

CATALOG	DESC	APPROX.	
Number	SERV. LINE SIZE	METER SIZE	Wt. Lbs.
UV13-31W-NL	3/4"	5/8"	4.3
UV13-32W-NL	3/4"	5/8"x3/4" or 3/4"	4.3
UV13-41W-NL	1"	5/8"	4.3
UV13-42W-NL	1"	5/8"x3/4" or 3/4"	4.4



# Male Iron Pipe Thread Inlet by Two Meter Swivel Nut Outlets

CATALOG	DES	DESCRIPTION		
Number	SERV. LINE SIZE	WT. LBS.		
UV83-31W-NL	3/4"	5/8"	4.1	
UV83-32W-NL	3/4"	5/8"x3/4" or 3/4"	4.3	
UV83-41W-NL	1"	5/8"	4.0	
UV83-42W-NL	1"	5/8"x3/4" or 3/4"	4.2	



# Flare Copper Inlet by Two Meter Swivel Nut Outlets

CATALOG	DES	DESCRIPTION		
Number	SERV. LINE SIZE	Wt. Lbs.		
UV23-31W-NL	3/4"	5/8"	4.4	
UV23-32W-NL	3/4"	5/8"x3/4" or 3/4"	4.6	
UV23-41W-NL	1"	5/8"	4.7	
UV23-42W-NL	1"	5/8"x3/4" or 3/4"	4.8	



# Pack Joint for Plastic or Copper Tubing (CTS) Inlet by Two Meter Swivel Nut Outlets

CATALOG	DES	DESCRIPTION		
Number	SERV. LINE SIZE	METER SIZE	WT. LBS.	
► UV43-31W-NL	3/4"	5/8"	4.4	
► UV43-32W-NL	3/4"	5/8"x3/4" or 3/4"	4.6	
► ♦ UV43-41W-NL	1"	5/8"	4.4	
▶ ♦ UV43-42W-NL	1"	5/8"x3/4" or 3/4"	4.6	
UV43-62W-NL	1-1/2"	5/8"x3/4" or 3/4"	5.7	



### Pack Joint for Plastic Pipe (PEP) Inlet by Two Meter Swivel Nut Outlets

	CATALOG	Desc	DESCRIPTION		
	Number	SERV. LINE SIZE	METER SIZE	Wt. Lbs.	
▶	UV63-31W-NL	3/4"	5/8"	4.4	
▶	UV63-32W-NL	3/4"	5/8"x3/4" or 3/4"	4.7	
▶	UV63-41W-NL	1"	5/8"	5.0	
▶	UV63-42W-NL	1"	5/8"x3/4" or 3/4"	5.1	
	UV63-51W-NL	1-1/4"	5/8"	5.3	
	UV63-52W-NL	1-1/4"	5/8"x3/4" or 3/4"	5.4	

### **Options Available**

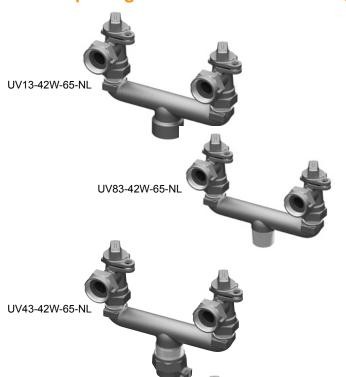
Grip Joint for CTS (3/4" - 2") and PEP (3/4" and 1") is available. Add "-G" to the catalog number. Example: UV63-32W-G-NL.

- Quick Joint is available by adding a "-Q" to the catalog number.
- ▶ Ultra-Tite is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)

  Handles for key meter valves are shown on page G-38.

# **Key Valve Branch Assemblies**- Continued

6-1/2" Spacing Between Centers of Angle Key Meter Valves



# Female Iron Pipe Thread Inlet by Two Meter Swivel Nut Outlets

CATALOG	DES	APPROX.	
Number	SERV. LINE SIZE	WT. LBS.	
UV13-41W-65-NL	1"	5/8"	4.3
UV13-42W-65-NL	1"	5/8"x3/4" or 3/4"	4.5

# Male Iron Pipe Thread Inlet by Two Meter Swivel Nut Outlets

CATALOG	DESCRIPTION		APPROX.
Number	SERV. LINE SIZE	METER SIZE	Wt. Lbs.
UV83-31W-65-NL	3/4"	5/8"	3.8
UV83-32W-65-NL	3/4"	5/8"x3/4" & 3/4"	4.2
UV83-41W-65-NL	1"	5/8"	4.2
UV83-42W-65-NL	1"	5/8"x3/4" & 3/4"	4.2

# Pack Joint for Copper or Plastic Tubing (CTS) Inlet by Two Meter Swivel Nut Outlets

	CATALOG	OG DESCRIPTION		APPROX.
	Number	SERV. LINE SIZE	METER SIZE	Wt. Lbs.
<b></b>	UV43-31W-65-NL	3/4"	5/8"	4.3
<b></b>	UV43-32W-65-NL	3/4"	5/8"x3/4" & 3/4"	4.4
▶	UV43-41W-65-NL	1"	5/8"	4.3
$\overline{}$	UV43-42W-65-NL	1"	5/8"x3/4" & 3/4"	4.5

# Pack Joint for Plastic Pipe (PEP) Inlet by Two Meter Swivel Nut Outlets

	CATALOG	DESCRIPTION		APPROX.
	Number Serv. Line Size Meter Size		Wt. Lbs.	
$\overline{}$	UV63-41W-65-NL	1"	5/8"	4.8
▶	UV63-42W-65-NL	1"	5/8"x3/4" or 3/4"	4.9

### Options Available

Grip Joint for CTS (3/4" - 2") and PEP (3/4" and 1") is available. Add "-G" to the catalog number. Example: UV43-32W-65-G-NL.

▶ Ultra-Tite is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)

Handles for key meter valves are shown on page G-38.

See page 5 for specific details on above options.

# **Angle Key Valve Branch Assemblies**

6-1/2" Spacing Between Centers of Angle Key Meter Valves



UV63-42W-65-NL

Pack Joint for Copper or Plastic Tubing (CTS)
Inlet by Two Meter Swivel Nut Outlets

CATALOG	DESCRIPTION		APPROX.
Number	SERV. LINE SIZE	METER SIZE	Wt. Lbs.
UAV43-41W-65-NL	1"	5/8"	4.6
UAV43-42W-65-NL	1"	5/8"x3/4" or 3/4"	4.8

Options Available

**Grip Joint** for CTS (3/4" - 2") and PEP (3/4" and 1") is available. Add "-G" to the catalog number. Example: UV43-32W-65-<u>G</u>-NL. **Handles** for key meter valves are shown on page G-38.

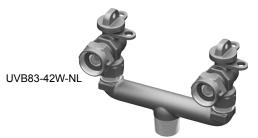
# **Ball Valve Branch Assemblies**

7-1/2" Spacing Between Centers of Angle Ball Meter Valves



# Female Iron Pipe Thread Inlet by Two Meter Swivel Nut Outlets

CATALOG	DESCRIPTION		APPROX.
Number	SERV. LINE SIZE	METER SIZE	WT. LBS.
UVB13-31W-NL	3/4"	5/8"	4.4
UVB13-32W-NL	3/4"	5/8"x3/4" or 3/4"	4.6
UVB13-41W-NL	1"	5/8"	4.4
UVB13-42W-NL	1"	5/8"x3/4" or 3/4"	4.5



# Male Iron Pipe Thread Inlet by Two Meter Swivel Nut Outlets

CATALOG	DES	APPROX.	
Number	SERV. LINE SIZE	METER SIZE	WT. LBS.
UVB83-31W-NL	3/4"	5/8"	4.3
UVB83-32W-NL	3/4"	5/8"x3/4" or 3/4"	4.4
UVB83-41W-NL	1"	5/8"	4.0
UVB83-42W-NL	1"	5/8"x3/4" or 3/4"	4.3



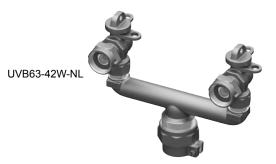
# Flare Copper Inlet by Two Meter Swivel Nut Outlets

CATALOG	DESCRIPTION		APPROX.
Number	SERV. LINE SIZE	METER SIZE	Wt. Lbs.
UVB23-31W-NL	3/4"	5/8"	4.7
UVB23-32W-NL	3/4"	5/8"x3/4" or 3/4"	4.8
UVB23-41W-NL	1"	5/8"	4.9
UVB23-42W-NL	1"	5/8"x3/4" or 3/4"	5.0



# Pack Joint for Plastic or Copper Tubing (CTS) Inlet by Two Meter Swivel Nut Outlets

CATALOG	DESC	APPROX.	
Number	SERV. LINE SIZE	METER SIZE	Wt. Lbs.
► UVB43-31W-NL	3/4"	5/8"	4.3
▶ UVB43-32W-NL	3/4"	5/8"x3/4" or 3/4"	4.8
▶ UVB43-41W-NL	1"	5/8"	4.5
► ♦ UVB43-42W-NL	1"	5/8"x3/4" or 3/4"	4.7
UVB43-62W-NL	1-1/2"	5/8"x3/4" or 3/4"	5.8



### Pack Joint for Plastic Pipe (PEP) Inlet by Two Meter Swivel Nut Outlets

	CATALOG	Desc	DESCRIPTION		
	Number	SERV. LINE SIZE	METER SIZE	Wt. Lbs.	
▶	UVB63-31W-NL	3/4"	5/8"	4.4	
•	UVB63-32W-NL	3/4"	5/8"x3/4" or 3/4"	4.6	
ightharpoonup	UVB63-41W-NL	1"	5/8"	4.7	
ightharpoons	UVB63-42W-NL	1"	5/8"x3/4" or 3/4"	5.3	
	UVB63-51W-NL	1-1/4"	5/8"	5.0	
	UVB63-52W-NL	1-1/4"	5/8"x3/4" or 3/4"	5.2	

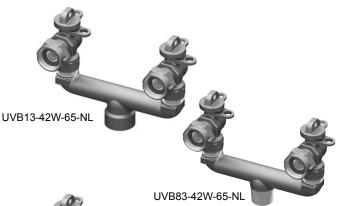
### Options Available

Grip Joint for CTS (3/4" - 2") and PEP (3/4" and 1") is available. Add "-G" to the catalog number. Example: UV43-32W-65-G-NL.

- ▶ Ultra-Tite is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)
- Quick Joint is available by adding a "-Q" to the catalog number.
   Handles for key meter valves are shown on page G-38.

# **Ball Valve Branch Assemblies - Continued**

6-1/2" Spacing Between Centers of Angle Ball Meter Valves



# Female Iron Pipe Thread Inlet by Two Meter Swivel Nut Outlets

CATALOG	DESCRIPTION		APPROX.
Number	SERV. LINE SIZE	METER SIZE	Wt. Lbs.
UVB13-41W-65-NL	1"	5/8"	4.5
UVB13-42W-65-NL	1"	5/8"x3/4" or 3/4"	4.6

# Male Iron Pipe Thread Inlet by Two Meter Swivel Nut Outlets

CATALOG	DESCRIPTION		APPROX.
Number	SERV. LINE SIZE	METER SIZE	Wt. Lbs.
UVB83-31W-65-NL	3/4"	5/8"	4.2
UVB83-32W-65-NL	3/4"	5/8"x3/4" & 3/4"	4.4
UVB83-41W-65-NL	1"	5/8"	4.4
UVB83-42W-65-NL	1"	5/8"x3/4" & 3/4"	4.5

# Pack Joint for Copper or Plastic Tubing (CTS) Inlet by Two Meter Swivel Nut Outlets

CATALOG	DESCRIPTION		APPROX.
Number	SERV. LINE SIZE	METER SIZE	Wt. Lbs.
► UVB43-31W-65-NL	3/4"	5/8"	4.4
► UVB43-32W-65-NL	3/4"	5/8"x3/4" & 3/4"	4.6
► UVB43-41W-65-NL	1"	5/8"	4.8
► UVB43-42W-65-NL	1"	5/8"x3/4" & 3/4"	4.7

# Pack Joint for Plastic Pipe (PEP) Inlet by Two Meter Swivel Nut Outlets

CATALOG	Desc	APPROX.	
Number	SERV. LINE SIZE METER SIZE		Wt. Lbs.
► UVB63-41W-65-NL	1"	5/8"	5.0
► UVB63-42W-65-NL	1"	5/8"x3/4" or 3/4"	5.0

# **Ball Valve Angle Branch Assemblies**

6-1/2" Spacing Between Centers of Angle Ball Meter Valves



UVB63-42W-65-NL

# Female Iron Pipe Thread Inlet by Two Meter Swivel Nut Outlets

CATALOG	Desc	APPROX.				
Number	SERV. LINE SIZE	METER SIZE	Wt. Lbs.			
UAVB13-42W-65-NL	1"	5/8"x3/4" or 3/4"	4.8			
Pack Joint for Copper or Plastic Tubing (CTS)						
Inlet by Tv	Inlet by Two Meter Swivel Nut Outlets					
UAVB43-41W-65-NL	1"	5/8"	4.7			
► UAVB43-42W-65-NL	1"	5/8"x3/4" or 3/4"	5.0			

# **Ball Valve Straight Branch Assemblies**

7-1/2" Spacing Between Centers of Straight Ball Meter Valves



# Female Iron Pipe Thread Inlet by Two Meter Swivel Nut Outlets

,				
CATALOG	DESC	APPROX.		
Number	SERV. LINE SIZE	METER SIZE	Wt. Lbs.	
UVBS13-42W-NL	1"	5/8"x3/4" or 3/4"	4.5	

# Pack Joint for Copper or Plastic Tubing (CTS) Inlet by Two Meter Swivel Nut Outlets

CATALOG	Desc	APPROX.	
Number	SERV. LINE SIZE	METER SIZE	Wt. Lbs.
UVBS43-31W-NL	3/4"	5/8"	4.6
▶♦ UVBS43-42W-NL	1"	5/8"x3/4" or 3/4"	4.8

### **Options Available**

UVB43-42W-65-NL

Grip Joint for CTS (3/4" - 2") and PEP (3/4" and 1") is available. Add "-G" to the catalog number. Example: UVBS43-42W-G-NL.

- ▶ Ultra-Tite is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)
- ◆ Quick Joint is available by adding a "-Q" to the catalog number.

# Ford Ball Service Valves

5/8" Ball Valves

When used in a 3/4" service line, this compact, well-designed valve offers the many advantages of Ford Ball Valves at a lower cost. The smooth, tapered water passages result in excellent flow characteristics. Construction features are shown on page 4. Some styles are available in special,

longer lengths.



Padlock wings as shown above are available on most 5/8" ball valves.



CATALOG	DESCRIPTION			APPROX.
Number	Valve Size	INLET SIZE	OUTLET SIZE	Wt. Lbs.
B11-211-NL	5/8"	1/2"	1/2"	1.0
B11-231-NL	5/8"	3/4"	1/2"	1.1
B11-233-NL	5/8"	3/4"	3/4"	1.1
▼ B11-233WW-NL	5/8"	3/4"	3/4"	1.2
BL11-233-NL	5/8"	3/4"	3/4"	1.3
BL11-233-3-5-NL	5/8"	3/4"	3/4"	1.2

▼ "WW" indicates double padlock wings for locking in either on or off position.











### Flare Copper Inlet by Female Iron Pipe Thread Outlet

CATALOG		APPROX.		
Number	VALVE SIZE	FLARE COPPER SIZE	FIP SIZE	WT. LBS.
B21-231-NL	5/8"	3/4"	1/2"	1.5
B21-233-NL	5/8"	3/4"	3/4"	1.5
BL21-233-4-375-NL	5/8"	3/4"	3/4"	1.7

### Flare Copper Both Ends

CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE INLET SIZE OUTLET SIZE			WT. LBS.
B22-233-NL	5/8"	3/4"	3/4"	2.5

# Pack Joint for Copper or Plastic Tubing (CTS) by Female Iron Pipe Thread Outlets

CATALOG	DESCRIPTION			APPROX.	
Number	VALVE SIZE				
B41-211-NL	5/8"	1/2"	1/2"	1.2	
► B41-231-NL	5/8"	3/4"	1/2"	1.4	
▶ ♦ B41-233-NL	5/8"	3/4"	3/4"	1.4	
♦ BL41-233-NL	5/8"	3/4"	3/4"	1.6	

### Pack Joint for Iron Pipe Inlet by Female Iron Pipe Outlet

CATALOG		DESCRIPTION		
Number	VALVE SIZE	PJ/IP SIZE	FIP SIZE	Wt. Lbs.
B51-211-NL	5/8"	1/2"	1/2"	1.3
B51-233-NL	5/8"	3/4"	3/4"	1.4

# Pack Joint for Plastic Pipe (PEP) Inlet by Female Iron Pipe Outlet

	CATALOG	DESCRIPTION			APPROX.
	Number	VALVE SIZE	PEP SIZE	FIP SIZE	Wt. Lbs.
<b></b>	B61-231-NL	5/8"	3/4"	1/2"	1.5
<b></b>	B61-233-NL	5/8"	3/4"	3/4"	1.5

### Pack Joint for PVC Pipe\*\*\* Inlet by Female Iron Pipe Outlet

	-	-	-	
CATALOG		DESCRIPTION		APPROX.
Number	VALVE SIZE	PVC SIZE	FIP SIZE	WT. LBS.
B71-233-NL	5/8"	3/4"	3/4"	1.6

<sup>\*\*\*</sup> Ford Pack Joints for PVC are only recommended for Schedule 40 and Schedule 80 pipe.

Note: Length of valve is measured less the flare nut or pack joint nut.

### **Options Available**

Grip Joint for CTS (3/4" and 1") and PEP (3/4" and 1") is available. Add "-G" to the catalog number. Example: B61-233-G-NL.

- ◆ Quick Joint is available on this valve with the padlock wing feature. Add "W-Q" to the catalog number. Example: B41-233<u>W-Q</u>-NL.
- ▶ Ultra-Tite is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)

# Ford Ball Service Valves - Continued

### 5/8" Ball Valves













### Male Iron Pipe Thread by Female Iron Pipe Outlet

CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE	MIP SIZE	FIP SIZE	Wt. Lbs.
B81-231W-NL	5/8"	3/4"	1/2"	1.1
B81-233-NL	5/8"	3/4"	3/4"	1.0

# Male Iron Pipe Thread by Pack Joint for Copper or Plastic Tubing (CTS)

CATALOG		DESCRIPTION		
Number	VALVE SIZE	MIP SIZE	CTS SIZE	Wt. Lbs.
▶ ♦ B84-233-NL	5/8"	3/4"	3/4"	1.4

### Pack Joint for Copper or Plastic Tubing (CTS) Both Ends

CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	Wt. Lbs.
B44-211-NL	5/8"	1/2"	1/2"	1.5
♦ B44-233-NL	5/8"	3/4"	3/4"	1.8

### Pack Joint for Plastic Pipe (PEP) Both Ends

CATALOG		DESCRIPTION			APPROX.
Number		VALVE SIZE	INLET SIZE	OUTLET SIZE	Wt. Lbs.
► B66-233-N	L	5/8"	3/4"	3/4"	2.0

### Pack Joint for PVC Pipe\*\*\* Both Ends

CATALOG		DESCRIPTION	DESCRIPTION		
Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	Wt. Lbs.	
B77-233-NL	5/8"	3/4"	3/4"	2.2	

<sup>\*\*\*</sup> Ford Pack Joints for PVC are only recommended for Schedule 40 and Schedule 80 pipe.

### Male Iron Pipe Thread by Pack Joint for PVC Pipe\*\*\*

CATALOG		DESCRIPTION		APPROX.
Number	VALVE SIZE	MIP SIZE	PVC SIZE	WT. LBS.
B87-233-NL	5/8"	3/4"	3/4"	1.6

<sup>\*\*\*</sup> Ford Pack Joints for PVC are only recommended for Schedule 40 and Schedule 80 pipe.

# Pack Joint for Copper or Plastic Tubing (CTS) by Flare Copper Outlet

	CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE	CTS SIZE	FL. COP. SIZE	WT. LBS.	
▶	B42-233-NL	5/8"	3/4"	3/4"	2.0

### Options Available

Grip Joint for CTS (3/4" - 2") and PEP (3/4" and 1") is available. Add "-G" to the catalog number. Example: B66-233-G-NL.

- ◆ Quick Joint is available on this valve with the padlock wing feature. Add "W-Q" to the catalog number.
- ▶ Ultra-Tite is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)

Tracer Wire Terminal available on 3/4" CTS Quick Joint Nuts, add "-TW-Q" to the catalog number.

Padlock Wings - All valves are available with padlock wings. Add "W" to catalog number.

Standard tee-head stops on the body to permit 90° turn *only*. **Full 360° tee-head rotation** is available. Add "R" to catalog number. Example: B84-233R-NL.

Lock Caps are available for 5/8" through 2" ball valves and can be ordered from page 38.

Handles are available for ball valves; see page 37.

# Ford Ball Service Valves - Continued

5/8" Ball Valves with Drain/Test Valve on Outlet Side of Valves



### Female Iron Pipe Thread Both Ends

CATALOG	VALVE SIZE   INLET SIZE   OUTLET SIZE			APPROX.
Number				Wt. Lbs.
B11-211D-NL	5/8"	1/2"	1/2"	1.2
B11-231D-NL	5/8"	3/4"	1/2"	1.1
B11-233D-NL	5/8"	3/4"	3/4"	1.1



### Flare Copper Inlet by Female Iron Pipe Outlet

CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE	FLARE SIZE	FIP SIZE	Wt. Lbs.
B21-231D-NL	5/8"	3/4"	1/2"	1.8
B21-233D-NL	5/8"	3/4"	3/4"	1.8



# Pack Joint for Copper or Plastic Tubing (CTS) Inlet by Female Iron Pipe Thread Outlet

CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE	CTS SIZE	FIP SIZE	Wt. LBs.
▶ B41-233D-NL	5/8"	3/4"	3/4"	1.6

### Options Available

Grip Joint for CTS is available. Add "-G" to the catalog number. Example: B41-233D-G-NL.

▶ Ultra-Tite is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)

Padlock Wings - All valves are available with padlock wings. Add "W" to catalog number.

Standard tee-head stops within the body to permit 90° turn *only*. **Full 360° tee-head rotation** is available. Add "R" to catalog number. Example: B41-233DR-NL.

**Lock Caps** are available for 5/8" through 2" ball valves and can be ordered from page 38.

Handles are available for ball valves; see page 37.

# Ford 3/4" Straight Female Iron Pipe Compression Service Valves



### Female Iron Pipe Thread Both Ends

CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	Wt. Lbs.
G11-333-NL	3/4"	3/4"	3/4"	1.5

# Ford 3/4" Straight Pack Joint Compression Service Valves

**Cut-in Type with Detachable Pack Joint Assemblies** 





	CATALOG		DESCRIPTION		
	Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	Wt. Lbs.
	G44-311-NL	3/4"	1/2"	1/2"	2.5
<b>•</b>	G44-333-NL	3/4"	3/4"	3/4"	2.6
▶	G44-344-NL	3/4"	1"	1"	2.7

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

### Pack Joint for Iron Pipe Both Ends

CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	Wt. Lbs.
G55-311-NL	3/4"	1/2"	1/2"	2.3
G55-333-NL	3/4"	3/4"	3/4"	2.4
G55-344-NL	3/4"	1"	1"	3.5

### Less Pack Joint Assemblies \*\*

CATALOG		APPROX.	
Number	VALVE SIZE	INLET SIZE AND OUTLET SIZE	Wt. Lbs.
G00-300-NL	3/4"	3/4" Male Kornerhorn Threads	1.4

<sup>\*\*</sup> To purchase pack joint assemblies for PET, PEP, PVC and iron pipe, refer to section B under pack joint asemblies for KH-1, KH-2 and KH-3 style Kornerhorn.

# Ford Angle Compression Globe Service Valves



### Flare Copper Inlet by Female Iron Pipe Thread Outlet

CATALOG	DESCRIPTION			APPROX.	STD. PKG.
Number	VALVE SIZE	FLARE SIZE	FIP SIZE	Wt. Lbs.	QTY.
GA21-333-NL	3/4"	3/4"	3/4"	1.7	6

# Female Iron Pipe Thread Inlet by Female Iron Pipe Thread Outlet

CATALOG	DESCRIPTION			APPROX.	STD. PKG.
Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	Wt. Lbs.	QTY.
GA11-444-NL	1"	1"	1"	1.9	8

<sup>►</sup> Ultra-Tite is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)

# Ford Angle Inverted Key Service Valves

With Female Iron Pipe Outlet Thread



# Female Iron Pipe Thread Inlet by Female Iron Pipe Thread Outlet

CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	Wt. Lbs.
AV11-333W-NL	3/4"	3/4"	3/4"	1.2
AV11-444W-NL	1"	1"	1"	1.7



CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE	FLARE SIZE	FIP SIZE	Wt. Lbs.
AV21-333W-NL	3/4"	3/4"	3/4"	1.5
■ AV21-444-NL	1"	1"	1"	2.1



### Flare Copper Inlet by Male Iron Pipe Thread Outlet

CATALOG	Di	APPROX.		
Number	VALVE SIZE	FLARE SIZE	MIP SIZE	WT. LBS.
AV28-333W-NL	3/4"	3/4"	3/4"	1.3
AV28-444W-NL	1"	1"	1"	1.9
▼ AV28-444WW-NL	1" Dbl. Locking	1"	1"	2.0



# Pack Joint for Copper or Plastic Tubing (CTS) Inlet by Female Iron Pipe Thread Outlet

CATALOG	DESCRIPTION			APPROX.
Number	VALVE SIZE	CTS SIZE	FIP SIZE	Wt. Lbs.
► AV41-333W-NL	3/4"	3/4"	3/4"	1.4
► ■ AV41-444-NL	1"	1"	1"	1.8

# Pack Joint for Polyethylene Pipe (PEP) Inlet by Male Iron Pipe Thread Outlet

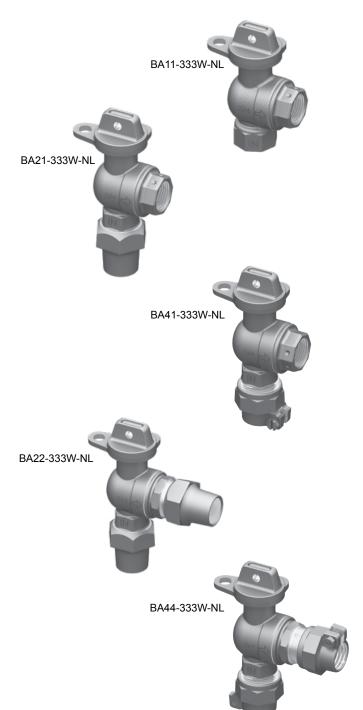
	CATALOG		DESCRIPTION			
	Number	VALVE SIZE	PEP SIZE	MIP SIZE	Wt. Lbs.	
<b></b>	AV68-333W-NL	3/4"	3/4"	3/4"	1.4	

NOTE: "W" indicates valve is standard with padlock wings only.

- ▼ "WW" indicates double padlock wings for locking in either "on" or "off" position.
- Indicates valve is <u>not</u> available with padlock wings.
- ▶ Ultra-Tite is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)

Options Available

# Ford Angle Ball Service Valves



### **Female Iron Pipe Thread Inlet and Outlet**

CATALOG		DESCRIPTION			
Number	VALVE SIZE	INLET SIZE	OUTLET SIZE	Wt. Lbs.	
BA11-233W-NL	5/8"	3/4"	3/4"	1.0	
BA11-333W-NL	3/4"	3/4"	3/4"	1.5	
BA11-343W-NL	3/4"	1"	3/4"	1.6	
BA11-344W-NL	3/4"	1"	1"	1.8	
BA11-444W-NL	1"	1"	1"	2.0	
BA11-666W-NL	1-1/2"	1-1/2"	1-1/2"	5.3	
BA11-777W-NL	2"	2"	2"	7.6	

# Flare Copper Inlet by Female Iron Pipe Thread Outlet

CATALOG		APPROX.		
Number	VALVE SIZE	FLARE SIZE	FIP SIZE	Wt. Lbs.
BA21-333W-NL	3/4"	3/4"	3/4"	1.8
BA21-344W-NL	3/4"	1"	1"	2.3
BA21-444W-NL	1"	1"	1"	2.6

# Pack Joint for Copper or Plastic Tubing (CTS) Inlet by Female Iron Pipe Thread Outlet

CATALOG		APPROX.		
Number	VALVE SIZE	Wt. Lbs.		
▶ ♦ BA41-233W-NL	5/8"	3/4"	3/4"	1.4
• ♦ BA41-333W-NL	3/4"	3/4"	3/4"	2.0
▶ ♦ BA41-444W-NL	1"	1"	1"	3.1

### Female Iron Pipe Thread Inlet by Flare Copper Outlet

CATALOG		APPROX.		
Number	VALVE SIZE FIP SIZE FLARE SIZE			Wt. Lbs.
BA12-333W-NL	3/4"	3/4"	3/4"	2.3
BA12-343W-NL	3/4"	1"	3/4"	2.9
BA12-344W-NL	3/4"	1"	1"	2.8

### Flare Copper Inlet and Outlet

CATALOG		APPROX.		
Number	VALVE SIZE	WT. LBS.		
BA22-333W-NL	3/4"	3/4"	3/4"	2.6
BA22-444W-NL	1"	1"	1"	4.1

# Pack Joint for Copper or Plastic Tubing (CTS) Inlet and Outlet

CATALOG	APPROX.								
Number	VALVE SIZE	VALVE SIZE   INLET SIZE   OUTLET SIZE							
► BA44-333W-NL	3/4"	3/4"	3/4"	2.4					
► BA44-344W-NL	3/4"	1"	1"	2.6					
► ♦ BA44-444W-NL	1'	1"	1"	3.5					

NOTE: "W" indicates valve is standard with padlock wings only.

NOTE: Angle ball service valves are designed for flow from inlet (bottom) to outlet as indicated above.

### Options Available

Grip Joint for CTS (3/4" - 2") and PEP (3/4" and 1") is available. Add "-G" to the catalog number. Example: BA41-233W-G-NL.

- Quick Joint is available by adding a "-Q" to the catalog number.
- ▶ Ultra-Tite is available. Add "-U-AWT" to the catalog number. (Consists of components assembled watertight.)
- **Ultra-Tite** is available. Insert "-U" into the catalog number. Example: BA41-333W-<u>U</u>-NL

**Reclaimed Water Tee-head** is available on 3/4" and 1" Ball Valves. Insert "RW" into the catalog number. Example: BARW11-333W-NL. Tee-head sold only with padlock wing.

Handles are available for ball valves; see page 37.

See page 5 for specific details on above options.

# **Ford Valve Handles**

# Handles Available for the Complete Line of Ford Ball Valves

All handles are cast from waterworks brass (AWWA Standard C800, ASTM B62 UNS/CDA No. C83600 85-5-5-5). Ball valve handles and the RHT-3/RHT-4 angle key valve handle may be attached by the customer using bolt holes already in the tee head of the valve. Other handles are factory-assembled with the valve. **All handles** may be ordered factory-assembled on valves if specified.

### **Handles for Ball Valves**

CATALOG Number	DESCRIPTION AND USAGE OF HANDLE	Approx. Wt. Lbs.
HB-2	Straight Lever Handle (3-3/8" long) for 5/8" Straight and Angle Ball Valves	0.2
HB-34	Straight Lever Handle (4-3/8" long) for 3/4" and 1" Straight and Angle Ball Valves	0.3
HB-34-RW	"Reclaimed Water" Straight Lever Handle (4-1/4" long) for 3/4" and 1" Straight and Angle Ball Valves	0.3
HB-34S	Straight Lever Handle (3-3/8" long) for 3/4" and 1" Straight and Angle Ball Valves	0.2
HH-34	High Lever Handle for 3/4" and 1" Straight and Angle Ball Valves	0.4
HB-67	Straight Lever Handle (9-1/2" long) for ALL 1-1/4", 1-1/2" and 2" Straight and Angle Ball Valves	1.2
HB-67S	Straight Lever Handle (4-7/8" long) for ALL 1-1/4", 1-1/2" and 2" Straight and Angle Ball Valves	1.2
HH-67	High Lever Handle (8-7/8" long) for ALL 1-1/4", 1-1/2" and 2" Straight and Angle Ball Valves	1.2
HP-4	Special Angled Lever Handle for 3/4" and 1" Ball Valves for Pitometer Service	0.3
HS-4	High Lever Handle for 1-1/4", 1-1/2" and 2" Straight and Angle Ball Valves	8.0
HT-2	Combination Tee-head Cap and Lever Handle for 5/8" Ball Valves. Padlock Wing not available with HT-2 Handle. (factory assembled only)	0.4
HT-34	Combination Tee Head Cap and High Lever Handle for 3/4" and 1" Ball Valves. Padlock Wing not available with HT-34 Handle. (factory assembled only)	2.0
HT-67S	High Lever Handle for 1-1/2" and 2" Straight Ball Valves - (factory assembled only)	0.8



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



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



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



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



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



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



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



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



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

# **Ford Valve Handles**

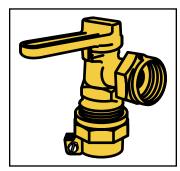
# Handles Available for the Complete Line of Ford Inverted Key Valves

### **Handles for Inverted Key Valves**

CATALOG Number	DESCRIPTION AND USAGE OF HANDLE					
HS-4	High Lever Handle for 1" "SV" type Straight Key Valve - (factory assembled only)	0.8				
HT-3	Combination Tee Head and Lever Handle for 3/4" "KV" Angle Key Meter Valves and 3/4" "AV" Angle Key Service Valves - (factory assembled only)	0.6				
HT-4	Combination Tee Head and Lever Handle for 1" "KV" Angle Key Meter Valves and 1" "AV" Angle Key Service Valves - (factory assembled only)	0.5				
RHT-3	Straight Lever Handle for attachment to Tee Head of ALL 3/4" Angle Key Valves	0.2				
RHT-4	Straight Lever Handle for attachment to Tee Head of ALL 1" Angle Key Valves	0.2				



RHT-3 for 3/4" and RHT-4 for 1"
Angle Key Valve



HT-3 and HT-4 for KV
Meter Valves and AV Service Valves
(factory assembled only)

# Ford Valve Lock Caps

### Lock Caps Available for the Complete Line of Ford Valves



### **Ball Valve Lock Caps**

CATALOG Number	DESCRIPTION	APPROX. Wt. Lbs.
BV-LOCKCAP-2	Lock Cap and Pin for 5/8" Ball Valve	0.6
BV-LOCKCAP-2-PIN	Pin only for BV-LOCKCAP-2	0.1
BV-LOCKCAP-34	Lock Cap and Pin for 5/8" BH, 3/4" and 1" Ball Valves	1.0
<b>BV-LOCKCAP-34-PIN</b>	Pin only for BV-LOCKCAP-34	0.1
BV-LOCKCAP-567	Lock Cap and Pin for 1-1/4", 1-1/2" and 2" Ball Valves	1.4
BV-LOCKCAP-567-PIN	Pin only for BV-LOCKCAP-567	0.1



### **Key Valve Lock Caps**

CATALOG Number	DESCRIPTION	APPROX. Wt. Lbs.
AV-LOCKCAP-23 Lock Cap and Pin for 5/8" and 5/8"x3/4" ar		0.7
AV-LOCKCAP-PIN-23	Pin only for AV-LOCKCAP-23	0.1
KV-LOCKCAP-3	Split Body Lock Cap and Pin for 3/4" Key Valve with Meter Nut	1.0

### **Gate Valve Operating Nut**

CATALOG Number	DESCRIPTION	APPROX. WT. LBS.
QT67	2" Gate Valve Operating Nut for	1.0
Q107	1-1/4", 1-1/2" and 2" Ball Valves	1.0

### Seal Wire Hole In Padlock Wings

To order seal wire hole, add "-SEAL" to catalog number. Example: KV13-332W-SEAL-NL.

# **Ford Insert Stiffeners**

### TYPES OF PIPE AND TUBING - EXPLANATION OF ABBREVIATIONS AND CODES FOR COMPRESSION COUPLINGS

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

**Plastic Tubing** - CTS - flexible water service tubing in what is referred to as "copper tube size". Plastic tube refers to *any* plastic with the same outside diameter as corresponding sizes of copper tube such as PET - polyethylene tubing. (Pack Joint coded **CTS**.)

**Plastic Pipe** - PEP - flexible water service pipe in what is referred to as "pipe size". Plastic pipe refers to *any* pipe having the same inside diameter as corresponding sizes of standard iron pipe such as PEP - polyethylene pipe. (Pack Joint coded **PEP**.)

**PVC Pipe** - PVC - polyvinyl chloride rigid plastic pipe. PVC pipe refers to polyvinyl chloride rigid plastic pipe having the same outside diameter as corresponding sizes of standard iron pipe. (Pack Joint coded **PVC**.)

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

Consult pipe or tubing manufacturer for specific installation requirements.



Ford Pack Joint

### **PACK JOINT CODING**

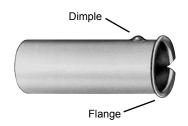
Type of service line coded on Ford Pack Joint Nut.

CTS = copper, polyethylene (PET) tubing

PEP = polyethylene (PEP) pipe

**PVC** = polyvinyl chloride (PVC) pipe (Schedule 40 and 80)

### **Insert Stiffeners**



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

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

Note: Consult pipe or tubing manufacturer for specific installation requirements.

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

### 50 Series For Polyethylene <u>Tubing</u> (PET)

	, ,			,
CATALOG	Nominal	PET	APPROX.	STD.
Number	Size	ID	WT. LBS.*	PKG. QTY.
INSERT-51	3/4"	0.681	4.8	200
INSERT-52	1"	0.875	4.2	100
** INSERT-53-72	1-1/4"	1.069	2.9	50
*** INSERT-53-72-Q	1-1/4"	1.069	2.9	50
INSERT-54	1-1/2"	1.263	3.1	25
INSERT-55	2"	1.653	6.0	40
♦INSERT-54-Q	1-1/2"	1.263	2.6	30
♦INSERT-55-Q	2"	1 653	5.8	50

### 70 Series For Polyethylene Pipe (PEP)

CATALOG	Nominal	PEP	APPROX.	STD.	
Number	Size	ID	WT. LBS.*	PKG. QTY.	
INSERT-71	3/4"	0.824	4.4	100	
** INSERT-53-72	1"	1.049	2.9	50	
****INSERT-53-72-Q	1"	1.049	2.9	50	
INSERT-73	1-1/4"	1.380	5.8	75	
INSERT-74	1-1/2"	1.610	5.5	45	
INSERT-75	2"	2.067	9.7	50	

# Inserts For OD Controlled DR11 High Density Polyethylene (HDPE) Pipe with PVC O.D.

CATALOG	NOMINAL SIZE	DR	HDPE	Nominal	
Number	AND PIPE TYPE	DK	OD	ID	
** INSERT-53-72	1" IPS	11	1.315	1.06	
INSERT-73-DR11	1-1/4" IPS	11	1.660	1.34	
INSERT-74-DR11	1-1/2" IPS	11	1.900	1.53	
INSERT-75-DR11	2" IPS	11	2.375	1.92	

- \* Weights for insert stiffeners are for standard package quantities.
- \*\* INSERT-53-72 fits 1-1/4" plastic tubing (1.069 I.D.), 1" plastic pipe (1.049 I.D.) and 1" IPS HDPE (1.055 I.D.).
- \*\*\* INSERT-53-72-Q fits 1-1/4" plastic tubing (1.069 I.D.) and 1" plastic pipe (1.049 I.D.).
- ♦ These inserts are specially designed and required for quick joint fittings. They **are not** interchangeable with other compression fittings.

### DIMENSION COMPARISON TABLE FOR PLASTIC, COPPER AND GALVANIZED IRON

PIPE AN	D TUBING	Dei	SDR CONTROL		O.D.						1.1	<b>D</b> .				
TY	PE	Psı		CONTROL	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Copper	_	_	_	OD	0.625	0.875	1.125	1.375	1.625	2.125	_	_	_	_	_	_
PET	PE3408	200	SDR9	OD	0.625	0.875	1.125	1.375	1.625	2.125		0.681	0.875	1.069	1.263	1.653
PEI	PE4710	250	SDK9	OD	0.025	0.675	1.125	1.373	1.025	2.125	_	0.001	0.675	1.009	1.203	1.055
PEP	PE3408	200	SIDR7	ID		1.060	1.349	1 774	2.070	2.657		0.824	1.049	1.380	1.610	2.067
PEP	PE4710	250	SIDKI	טו	_	1.000	1.549	1.774	2.070	2.007	_	0.024	1.049	1.360	1.010	2.007
PVC	_	_	_	OD	0.840	1.050	1.315	1.660	1.900	2.375	_	_	_	_	_	_
Galv IP	_	_	_	OD	0.840	1.050	1.315	1.660	1.900	2.375	_	_	_	_	_	_

# Section **G**

# Ford Curb Stops and Meter 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 that your product information is current.



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