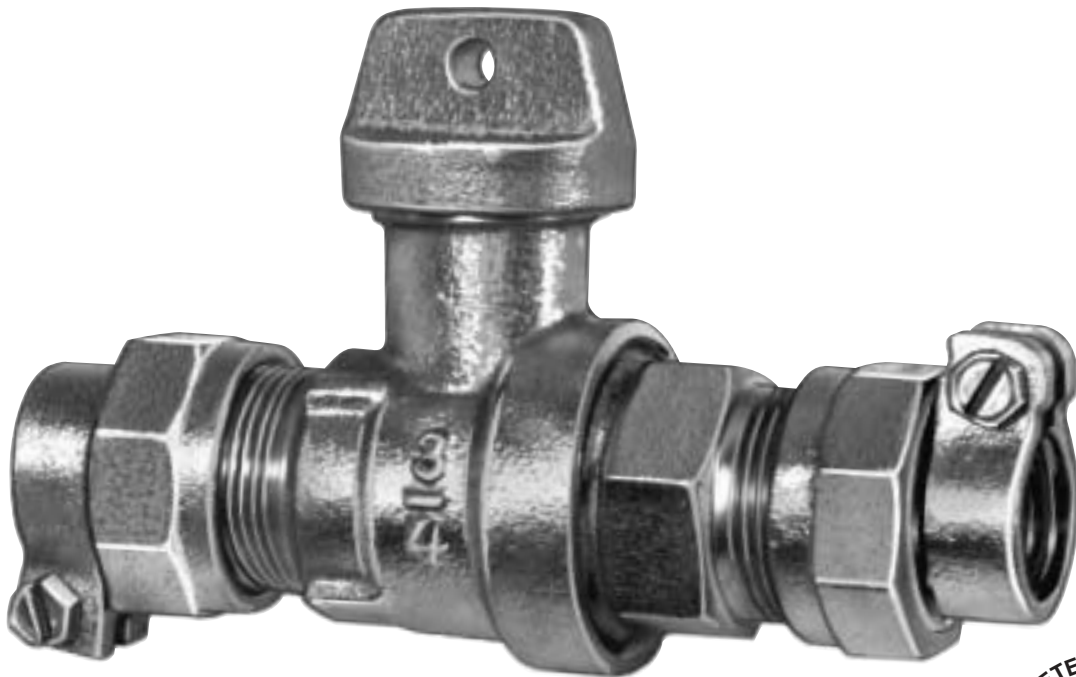


Section G

7/2001

Ford Curb Stops and Meter Valves



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Telephone: 219/563-3171 FAX: 1-800-826-3487 Overseas FAX: 219/563-0167 <http://www.fordmeterbox.com>

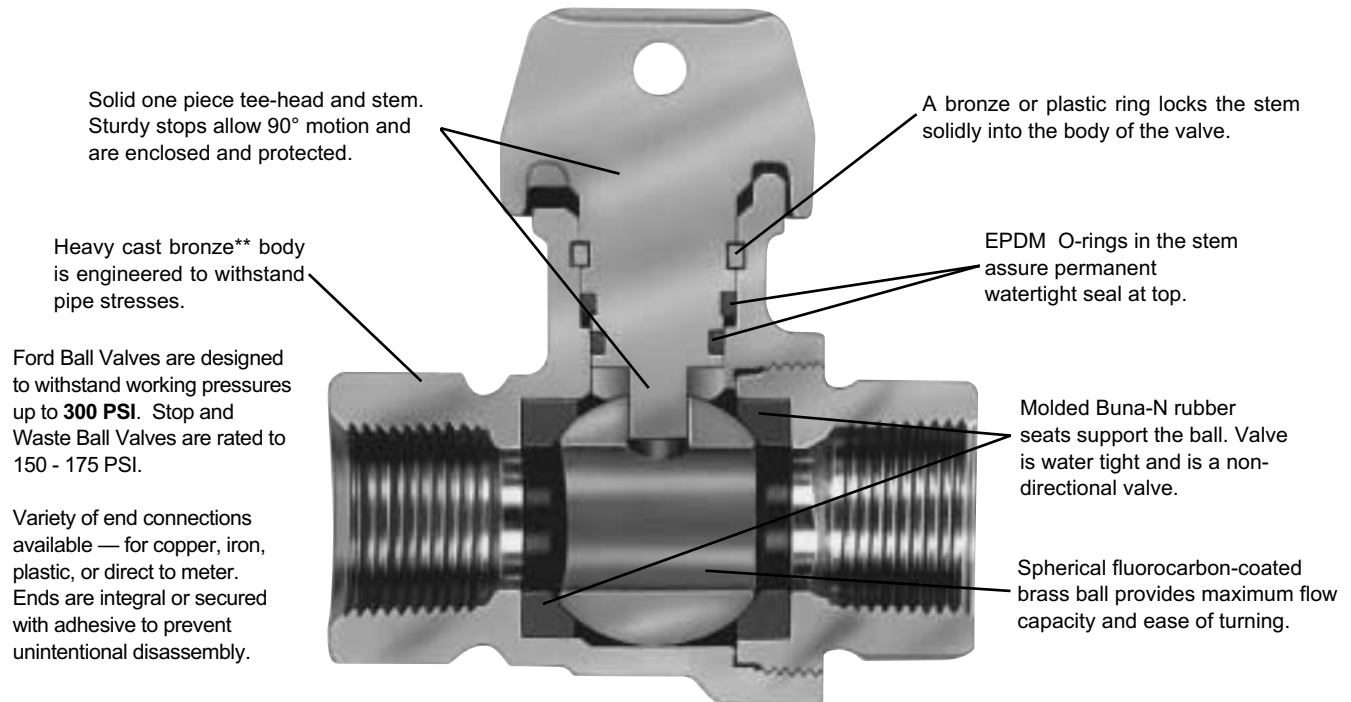
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Information

Features of the Ford Ball Valve

FORD BALL VALVE CURB STOPS are ideal for use in water service lines. Water tight in EITHER direction at all pressures, easy turning, nonbinding, and minimum pressure loss—these characteristics are added to good engineering design, quality, and precise manufacturing.



All Ford Meter Box brass conforms to AWWA Standard C800-89 (ASTM B-62 — UNS No. C83600 — 85-5-5-5).

Options Available

COUPLINGS FOR ALL TYPES OF CONNECTIONS

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. **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 end of Catalog Number. EXAMPLE: B41-333-G. **Quick Joint** is available for items indicated with a ♦. Add a "-Q" to the end of the catalog number.

360° TEE HEAD ROTATION

Standard Tee Head Stops in body permit 90° turn *only*. Full 360° tee head rotation is available. Add "R" to Catalog Number. Example: B21-333R.

VALVE LOCK CAPS

Lock Caps are available for 5/8" thru 2" Ball Valves and 3/4" Angle Key Valves. See page 37 to order.

HANDLES FOR VALVES

Handles for Valves are available. Ordering information and descriptions are found on pages 36 and 37.

2" GATE VALVE OPERATING NUT

Adapts Tee Head on 1-1/4", 1-1/2" and 2" Ball Valves (listed on pages 4 – 10) for operation with standard gate valve wrenches. See page 37 to order.

RECLAIMED WATER BALL VALVE TEE HEAD

A distinctive tee head with "Reclaimed Water" lettering for easy identification is available on 3/4" thru 2" Ball Valves. Insert "RW" into the Catalog Number. Example: BRW11-333W. Tee Head sold only with Padlock Wings.

PADLOCK WINGS

Most Valves are available with Padlock Wings (except for Minneapolis Valve or where noted). Add "W" to Catalog Number. Example: B11-333W. "W" in a listed Catalog Number indicates that the valve is available with padlock wings only.

MINNEAPOLIS PATTERN VALVE

Threads are available around the valve body in order to attach Minneapolis style curb box. 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.

"NEW ENGLAND" IRON PIPE THREADS

"New England" iron pipe threads under flare copper tube nut are available. This option can be found on page 34.

"OPEN RIGHT" FEATURE

Valves with the "open right" feature are manufactured so the valve opens by turning the handle to the RIGHT or clockwise. (NOTE: Standard Ford valves are typically manufactured so the valve opens by turning the valve handle to the left or counter clockwise.) This option can be found on page 35.

STOP AND WASTE FEATURE

Stop and waste valves allow the down stream service line to drain when in the closed position. This feature is typically used to avoid damage to the service line caused by freezing. Valves available with this option are indicated with a double asterisk (**). Add "SW" to the end of the catalog number. Example: B11-333SW

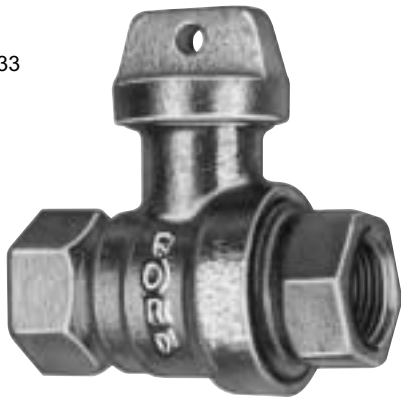
PRESSURE REQUIREMENTS

The AWWA Standard C800-89 specifies that 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.

Ford Ball Valve Curb Stops

Ball Valves with Female Iron Pipe Threads

B11-333



Female Iron Pipe Threads Both Ends

CATALOG NUMBER	VALVE SIZE	ONE END	OTHER END	APPROX. LENGTH	APPROX. WT. LBS.
** B11-333	3/4"	3/4"	3/4"	3-3/8"	1.9
B11-343	3/4"	1"	3/4"	3-9/16"	2.0
B11-344	3/4"	1"	1"	3-11/16"	2.1
BL11-344-4.5	3/4"	1"	1"	4-1/2"	2.3
** B11-444	1"	1"	1"	3-13/16"	2.5
B11-454	1"	1-1/4"	1"	4-3/16"	2.9
B11-455	1"	1-1/4"	1-1/4"	4-7/16"	3.1
B11-555	1-1/4"	1-1/4"	1-1/4"	4-1/4"	4.7
B11-566	1-1/4"	1-1/2"	1-1/2"	4-1/2"	5.3
B11-676	1-1/2"	2"	1-1/2"	5"	6.4
** B11-666	1-1/2"	1-1/2"	1-1/2"	4-3/4"	7.1
** B11-677	1-1/2"	2"	2"	5-1/4"	8.0
** B11-777	2"	2"	2"	5-3/8"	8.4
B11-788	2"	2-1/2"	2-1/2"	6-1/8"	11.1

B11-333M



Female Iron Pipe Threads Both Ends Minneapolis Pattern Valve

CATALOG NUMBER	VALVE SIZE	ONE END	OTHER END	APPROX. LENGTH	APPROX. WT. LBS.
B11-333M	3/4"	3/4"	3/4"	3-3/8"	2.3
B11-444M	1"	1"	1"	3-13/16"	3.4
B11-455M	1"	1-1/4"	1-1/4"	4-7/16"	4.0
B11-555M	1-1/4"	1-1/4"	1-1/4"	-	5.1
B11-666M	1-1/2"	1-1/2"	1-1/2"	4-3/4"	7.5
B11-676M	1-1/2"	2"	1-1/2"	-	7.9
B11-677M	1-1/2"	2"	2"	-	8.4
B11-777M	2"	2"	2"	5-3/8"	10.3
B11-788M	2"	2-1/2"	2-1/2"	-	11.2

Female Iron Pipe Threads Both Ends Stop and Waste Feature with Minneapolis Pattern Valve

CATALOG NUMBER	VALVE SIZE	ONE END	OTHER END	APPROX. LENGTH	APPROX. WT. LBS.
B11-333SWM	3/4"	3/4"	3/4"	-	-
B11-444SWM	1"	1"	1"	-	-
B11-666SWM	1-1/2"	1-1/2"	1-1/2"	4-3/4"	7.4
B11-777SWM	2"	2"	2"	5-3/8"	10.0

Options Available

** Indicates available with Stop and Waste Feature. Add "SW" to the end of the Catalog Number. Example: B11-333SW.

For Reclaimed Water Tee Head insert "RW" into the Catalog Number. Example: BRW11-333W. 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 in body permit 90° turn *only*. Full 360° tee head rotation is available. Add "R" to Catalog Number. Example: B11-333R.

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 37.

Lock Caps are available for 5/8" thru 2" Ball Valves and can be ordered from page 37.

Handles are available for Ball Valves; see page 36.

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

Ford Ball Valve Curb Stops

Ball Valves with Iron Pipe and Flared Copper Ends

Flare Copper by Female Iron Pipe Threads

CATALOG NUMBER	VALVE SIZE	FLARE END	FIP END	APPROX. LENGTH	APPROX. WT. LBS.
** B21-333	3/4"	3/4"	3/4"	4-3/16"	2.5
BL21-333-4.5	3/4"	3/4"	3/4"	4-1/2"	2.7
B21-343	3/4"	1"	3/4"	4-7/16"	2.6
B21-334	3/4"	3/4"	1"	3-11/16"	2.5
B21-344	3/4"	1"	1"	4-9/16"	2.9
BL21-344-5.187	3/4"	1"	1"	5-3/16"	3.3
** B21-444	1"	1"	1"	5"	3.5
B21-445	1"	1"	1-1/4"	5-3/16"	4.5
B21-455	1"	1-1/4"	1-1/4"	5-3/8"	4.7
B21-555	1-1/4"	1-1/4"	1-1/4"	5-7/16"	5.9
B21-566	1-1/4"	1-1/2"	1-1/2"	6-1/8"	6.9
** B21-666	1-1/2"	1-1/2"	1-1/2"	6-1/2"	7.8
B21-677	1-1/2"	2"	2"	7-1/4"	11.6
** B21-777	2"	2"	2"	7"	12.4

B21-333



Flare Copper by Female Iron Pipe Threads Minneapolis Pattern Valve

CATALOG NUMBER	VALVE SIZE	FLARE END	FIP END	APPROX. LENGTH	APPROX. WT. LBS.
B21-333M	3/4"	3/4"	3/4"	4-3/16"	2.8
B21-444M	1"	1"	1"	5"	3.6
B21-455M	1"	1-1/4"	1-1/4"	5-3/8"	5.0
B21-555M	1-1/4"	1-1/4"	1-1/4"	-	6.2
B21-666M	1-1/2"	1-1/2"	1-1/2"	6-1/2"	9.2
B21-777M	2"	2"	2"	7"	13.4

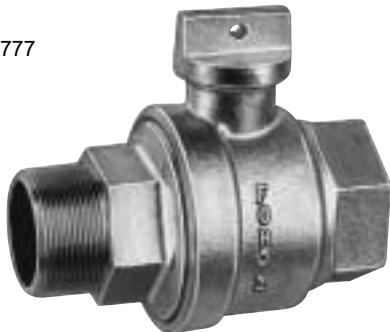
B21-333M



Flare Copper by Female Iron Pipe Threads Stop and Waste Feature with Minneapolis Pattern Valve

CATALOG NUMBER	VALVE SIZE	FLARE END	FIP END	APPROX. LENGTH	APPROX. WT. LBS.
B21-333SWM	3/4"	3/4"	3/4"	-	-
B21-666SWM	1-1/2"	1-1/2"	1-1/2"	-	8.9
B21-777SWM	2"	2"	2"	-	13.3

B81-777



Male Iron Pipe Thread by Female Iron Pipe Thread

CATALOG NUMBER	VALVE SIZE	MIP END	FIP END	APPROX. WT. LBS.
B81-333	3/4"	3/4"	3/4"	-
B81-444	1"	1"	1"	2.6
B81-455	1"	1-1/4"	1-1/4"	3.0
**B81-666	1-1/2"	1-1/2"	1-1/2"	6.2
B81-676	1-1/2"	2"	1-1/2"	-
B81-677	1-1/2"	2"	2"	-
**B81-777	2"	2"	2"	9.2

Options Available

** Indicates available with Stop and Waste Feature. Add "SW" to the end of the Catalog Number. Example: B21-333SW.

For Reclaimed Water Tee Head insert "RW" into the Catalog Number. Example: BRW21-333W. 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 in body permit 90° turn only. Full 360° tee head rotation is available. Add "R" to Catalog Number. Example: B21-333R.

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 37.

Lock Caps are available for 5/8" thru 2" Ball Valves and can be ordered from page 37.

Handles are available for Ball Valves; see page 36.

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

Ford Ball Valve Curb Stops

Ball Valves with Flared Copper

B22-333W



Flare Copper Both Ends

CATALOG NUMBER	VALVE SIZE	ONE END	OTHER END	APPROX. LENGTH	APPROX. WT. LBS.
** B22-333	3/4"	3/4"	3/4"	4-1/4"	2.6
B22-343	3/4"	1"	3/4"	4-7/16"	2.9
B22-344	3/4"	1"	1"	4-1/2"	3.8
** B22-444	1"	1"	1"	5-1/16"	4.0
B22-454	1"	1-1/4"	1"	4-7/8"	4.2
B22-455	1"	1-1/4"	1-1/4"	6-1/2"	5.6
B22-555	1-1/4"	1-1/4"	1-1/4"	7-1/8"	7.0
B22-566	1-1/4"	1-1/2"	1-1/2"	7-3/4"	8.5
** B22-666	1-1/2"	1-1/2"	1-1/2"	8-1/4"	10.6
B22-676	1-1/2"	2"	1-1/2"	8-3/4"	12.9
B22-677	1-1/2"	2"	2"	9-1/4"	15.1
** B22-777	2"	2"	2"	8-5/8"	16.7

B22-333M



Flare Copper Both Ends Minneapolis Pattern Valve

CATALOG NUMBER	VALVE SIZE	ONE END	OTHER END	APPROX. LENGTH	APPROX. WT. LBS.
B22-333M	3/4"	3/4"	3/4"	4-1/4"	2.9
B22-344M	3/4"	1"	1"	4-1/2"	4.1
B22-444M	1"	1"	1"	5-1/16"	4.2
B22-455M	1"	1-1/4"	1-1/4"	6-1/2"	5.6
B22-555M	1-1/4"	1-1/4"	1-1/4"	-	4.2
** B22-666M	1-1/2"	1-1/2"	1-1/2"	8-1/4"	11.0
** B22-777M	2"	2"	2"	8-5/8"	17.4

B88-333



Flare Copper Both Ends

Stop and Waste Feature with Minneapolis Pattern Valve

CATALOG NUMBER	VALVE SIZE	ONE END	OTHER END	APPROX. LENGTH	APPROX. WT. LBS.
B22-333SWM	3/4"	3/4"	3/4"	-	-
B22-444SWM	1"	1"	1"	-	4.4
B22-666SWM	1-1/2"	1-1/2"	1-1/2"	8-1/4"	10.9
B22-777SWM	2"	2"	2"	8-5/8"	17.3

B82-333



Male Iron Pipe Thread Both Ends

CATALOG NUMBER	VALVE SIZE	INLET SIZE	OUTLET SIZE	APPROX. LENGTH	APPROX. WT. LBS.
B88-333	3/4"	3/4"	3/4"	-	2.0
B88-344	3/4"	1"	1"	-	-
B88-444	1"	1"	1"	-	-
B88-777	2"	2"	2"	-	-

Flare Copper by Male Iron Pipe Thread

CATALOG NUMBER	VALVE SIZE	INLET SIZE	OUTLET SIZE	APPROX. LENGTH	APPROX. WT. LBS.
B82-333	3/4"	3/4"	3/4"	-	2.0
B82-444	1"	1"	1"	-	3.1
B82-555	1-1/4"	1-1/4"	1-1/4"	-	6.0
B82-666	1-1/2"	1-1/2"	1-1/2"	-	9.0
B82-777	2"	2"	2"	-	13.6

Options Available

**** Indicates available with Stop and Waste Feature.** Add "SW" to the end of the Catalog Number. Example: B22-333SW.

For Reclaimed Water Tee Head insert "RW" into the Catalog Number. Example: BRW22-333W. 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 in body permit 90° turn *only*. **Full 360° tee head rotation** is available. Add "R" to Catalog Number. Example: B22-333R.

2" Gate Valve Operating Nut is available for 1-1/4", 1-1/2" and 2" Ball Valves and can be ordered from page 37.

Lock Caps are available for 5/8" thru 2" Ball Valves and can be ordered from page 37.

Handles are available for Ball Valves; see page 36.

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

Ford Ball Valve Curb Stops

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 are recommended for use only with Schedule 40 and Schedule 80 PVC.

Abbreviations, Dimensions and Insert Stiffeners for plastic tubing are listed on page 38.

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

B41-333



CATALOG NUMBER	VALVE SIZE	CTS END	FIP END	APPROX. WT. LBS.
◆** B41-333	3/4"	3/4"	3/4"	2.0
B41-334	3/4"	3/4"	1"	2.2
◆ B41-343	3/4"	1"	3/4"	2.2
◆ B41-344	3/4"	1"	1"	2.4
◆ BL41-344-4.875	3/4"	1"	1"	3.1
◆ B41-444	1"	1"	1"	2.8
B41-455	1"	1-1/4"	1-1/4"	3.7
B41-555	1-1/4"	1-1/4"	1-1/4"	5.7
◆** B41-666	1-1/2"	1-1/2"	1-1/2"	7.0
B41-677	1-1/2"	2"	2"	9.6
◆** B41-777	2"	2"	2"	11.1

* **Grip Joint** for CTS is available. See options for ordering information.

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

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

B41-333M



CATALOG NUMBER	VALVE SIZE	CTS END	FIP END	APPROX. WT. LBS.
B41-333M	3/4"	3/4"	3/4"	2.3
◆ B41-444M	1"	1"	1"	3.4
B41-455M	1"	1-1/4"	1-1/4"	4.6
B41-666M	1-1/2"	1-1/2"	1-1/2"	8.4
B41-777M	2"	2"	2"	12.3

* **Grip Joint** for CTS is available. See options for ordering information.

Pack Joint for Copper or Plastic Tubing (CTS)* by Female Iron Pipe Thread Stop and Waste Feature with Minneapolis Pattern Valve

CATALOG NUMBER	VALVE SIZE	CTS END	FIP END	APPROX. WT. LBS.
B41-666SWM	1-1/2"	1-1/2"	1-1/2"	8.4
B41-777SWM	2"	2"	2"	12.4

* **Grip Joint** for CTS is available. See options for ordering information.

Options Available

** Indicates available with Stop and Waste Feature. Add "SW" to the end of the Catalog Number. Example: B41-333SW.

Grip Joint for CTS (all sizes) and PEP (3/4" & 1") can be ordered by adding "-G" to the end of Catalog Number. Example: B41-333-G.

For Reclaimed Water Tee Head insert "RW" into the Catalog Number. Example: BRW41-333W. 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 in body permit 90° turn *only*. **Full 360° tee head rotation** is available. Add "R" to Catalog Number. Example: B41-333R.

2" Gate Valve Operating Nut is available for 1-1/4", 1-1/2" and 2" Ball Valves and can be ordered from page 37.

Lock Caps are available for 5/8" thru 2" Ball Valves and can be ordered from page 37.

Handles are available for Ball Valves; see page 36.

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

Ford Ball Valve Curb Stops

Ball Valves with Pack Joints - Continued

B51-333



Pack Joint for Iron Pipe by Female Iron Pipe Thread

CATALOG NUMBER	VALVE SIZE	IP END	FIP END	APPROX. WT. LBS.
B51-333	3/4"	3/4"	3/4"	2.2
B51-343	3/4"	1"	3/4"	2.5
B51-344	3/4"	1"	1"	2.7
B51-444	1"	1"	1"	3.4
** B51-666	1-1/2"	1-1/2"	1-1/2"	7.2
B51-777	2"	2"	2"	11.1

B61-333



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

CATALOG NUMBER	VALVE SIZE	PEP END	FIP END	APPROX. WT. LBS.
◆ B61-333	3/4"	3/4"	3/4"	2.3
B61-343	3/4"	1"	3/4"	2.7
B61-344	3/4"	1"	1"	2.9
◆ B61-444	1"	1"	1"	3.5
B61-555	1-1/4"	1-1/4"	1-1/4"	8.7
B61-666-IDR7	1-1/2"	1-1/2"	1-1/2"	9.2
B61-777-IDR7	2"	2"	2"	10.5

**Grip Joint* for PEP is available. See options for ordering information.

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

B61-333M



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

CATALOG NUMBER	VALVE SIZE	PEP END	FIP END	APPROX. WT. LBS.
B61-333M	3/4"	3/4"	3/4"	3.0
B61-344M	3/4"	1"	1"	3.8
B61-444M	1"	1"	1"	4.4
B61-666M-IDR7	1-1/2"	1-1/2"	1-1/2"	9.2
B61-777M-IDR7	2"	2"	2"	13.3

**Grip Joint* for PEP is available. See options for ordering information.

B71-333



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

CATALOG NUMBER	VALVE SIZE	PVC END	FIP END	APPROX. WT. LBS.
B71-333	3/4"	3/4"	3/4"	2.3
B71-343	3/4"	1"	3/4"	2.7
B71-344	3/4"	1"	1"	2.9
B71-444	1"	1"	1"	3.6
B71-555	1-1/4"	1-1/4"	1-1/4"	-
** B71-666	1-1/2"	1-1/2"	1-1/2"	7.6
** B71-777	2"	2"	2"	11.8

B71-333M



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

CATALOG NUMBER	VALVE SIZE	PVC END	FIP END	APPROX. WT. LBS.
B71-333M	3/4"	3/4"	3/4"	2.9
B71-444M	1"	1"	1"	4.4
B71-555M	1-1/4"	1-1/4"	1-1/4"	6.9
B71-666M	1-1/2"	1-1/2"	1-1/2"	9.0
B71-777M	2"	2"	2"	13.3

Available Options are listed at bottom of the opposite page.

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

Ford Ball Valve Curb Stops

Ball Valves with Pack Joints - Continued

B44-333



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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	ONE END	OTHER END	
** B44-333	3/4"	3/4"	3/4"	2.4
◆ B44-343	3/4"	1"	3/4"	2.5
◆ B44-344	3/4"	1"	1"	3.1
** B44-444	1"	1"	1"	3.2
B44-455	1"	1-1/4"	1-1/4"	5.0
B44-555	1-1/4"	1-1/4"	1-1/4"	6.4
** B44-666	1-1/2"	1-1/2"	1-1/2"	9.1
B44-677	1-1/2"	2"	2"	11.1
** B44-777	2"	2"	2"	13.8

***Grip Joint** for CTS is available. See options for ordering information.

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

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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	ONE END	OTHER END	
◆ B44-333M	3/4"	3/4"	3/4"	2.6
◆ B44-344M	3/4"	1"	1"	3.2
◆ B44-444M	1"	1"	1"	3.4
B44-455M	1"	1-1/4"	1-1/4"	5.2
◆ B44-666M	1-1/2"	1-1/2"	1-1/2"	9.4
◆ B44-777M	2"	2"	2"	14.1

***Grip Joint** for CTS is available. See options for ordering information.

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

B44-333M



Pack Joint for Copper or Plastic Tubing (CTS)* Both Ends Stop and Waste Feature with Minneapolis Pattern Valve

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	ONE END	OTHER END	
◆ B44-333SWM	3/4"	3/4"	3/4"	-
B44-444SWM	1"	1"	1"	-
B44-666SWM	1-1/2"	1-1/2"	1-1/2"	9.5
B44-777SWM	2"	2"	2"	14.1

***Grip Joint** for CTS is available. See options for ordering information.

B55-333



Pack Joint for Iron Pipe Both Ends

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	ONE END	OTHER END	
B55-333	3/4"	3/4"	3/4"	2.9
B55-444	1"	1"	1"	-
** B55-666	1-1/2"	1-1/2"	1-1/2"	9.5
** B55-777	2"	2"	2"	14.3

Options Available

** Indicates available with Stop and Waste Feature. Add "SW" to the end of the Catalog Number. Example: B44-333SW.

Grip Joint for CTS (all sizes) and PEP (3/4" & 1") can be ordered by adding "-G" to the end of Catalog Number. Example: B44-333-G.

For Reclaimed Water Tee Head insert "RW" into the Catalog Number. Example: BRW44-333W. 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 in body permit 90° turn *only*. **Full 360° tee head rotation** is available. Add "R" to Catalog Number. Example: B44-333R.

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 37.

Lock Caps are available for 5/8" thru 2" Ball Valves and can be ordered from page 37.

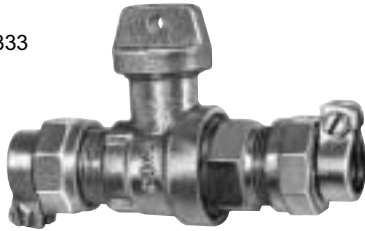
Handles are available for Ball Valves; see page 36.

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

Ford Ball Valve Curb Stops

Ball Valves with Pack Joints - Continued

B66-333



Pack Joint for Plastic Pipe (PEP)* Both Ends

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	ONE END	OTHER END	
◆ B66-333	3/4"	3/4"	3/4"	3.1
B66-344	3/4"	1"	1"	4.0
◆ B66-444	1"	1"	1"	5.1
B66-555	1-1/4"	1-1/4"	1-1/4"	8.0
B66-666-IDR7	1-1/2"	1-1/2"	1-1/2"	13.6
B66-777-IDR7	2"	2"	2"	15.4

***Grip Joint** for PEP is available. See options for ordering information.

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

B66-333M

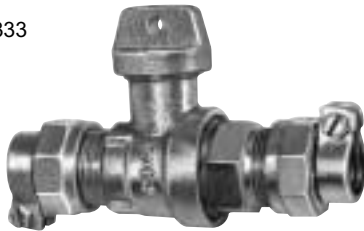


Pack Joint for Plastic Pipe (PEP)* Both Ends Minneapolis Pattern Valve

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	ONE END	OTHER END	
B66-333M	3/4"	3/4"	3/4"	3.4
B66-444M	1"	1"	1"	5.3
B66-666M-IDR7	1-1/2"	1-1/2"	1-1/2"	12.6
B66-777M-IDR7	2"	2"	2"	15.9

***Grip Joint** for PEP is available. See options for ordering information.

B77-333



Pack Joint for PVC Pipe Both Ends***

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	ONE END	OTHER END	
B77-333	3/4"	3/4"	3/4"	3.2
B77-344	3/4"	1"	1"	4.0
B77-444	1"	1"	1"	5.2
** B77-666	1-1/2"	1-1/2"	1-1/2"	10.3
** B77-777	2"	2"	2"	15.8

B77-333M



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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	ONE END	OTHER END	
B77-333M	3/4"	3/4"	3/4"	3.4
B77-444M	1"	1"	1"	5.3
B77-666M	1-1/2"	1-1/2"	1-1/2"	10.6
B77-777M	2"	2"	2"	16.1

B46-333



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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	CTS END	PEP END	
B46-333	3/4"	3/4"	3/4"	2.5
B46-444	1"	1"	1"	3.7
B46-666	1-1/2"	1-1/2"	1-1/2"	11.6
B46-777	2"	2"	2"	14.6

***Grip Joint** for CTS and PEP is available. See options for ordering information.

B47-333



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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	CTS END	PEP END	
B47-333	3/4"	3/4"	3/4"	2.6
B47-444	1"	1"	1"	3.8

***Grip Joint** for CTS is available. See options for ordering information.

Available Options are listed at bottom of the opposite page.

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

Ford Ball Valve Curb Stops

Ball Valves with Pack Joints - Continued

B84-333



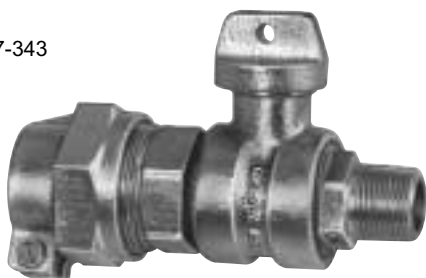
Male Iron Pipe Thread by Pack Joint for Copper or Plastic Tubing (CTS)*

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	MIP END	CTS END	
B84-333	3/4"	3/4"	3/4"	1.9
B84-444	1"	1"	1"	-
B84-455	1"	1-1/4"	1-1/4"	4.3
B84-777	2"	2"	2"	-
B84-788	2"	2-1/2"	2-1/2"	-

***Grip Joint** for CTS is available. See options for ordering information.

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

B87-343



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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	PVC END	MIP END	
B87-333	3/4"	3/4"	3/4"	-
B87-334	3/4"	3/4"	1"	3.0
B87-444	1"	1"	1"	4.2
B87-777	2"	2"	2"	-

B62-333



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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	PEP END	FLARE END	
B62-333	3/4"	3/4"	3/4"	2.6
B62-444	1"	1"	1"	4.0
B62-666-IDR7	1-1/2"	1-1/2"	1-1/2"	12.6
B62-777-IDR7	2"	2"	2"	16.0

***Grip Joint** for PEP is available. See options for ordering information.

B24-334



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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	FLARE END	CTS END	
B24-334	3/4"	3/4"	1"	2.5
B24-444	1"	1"	1"	3.5

***Grip Joint** for CTS is available. See options for ordering information.

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

Options Available

** Indicates available with **Stop and Waste Feature**. Add "SW" to the end of the Catalog Number. Example: B77-333SW.

Grip Joint for CTS (all sizes) and PEP (3/4" & 1") can be ordered by adding "-G" to the end of Catalog Number. Example: B84-333-G.

For Reclaimed Water Tee Head insert "RW" into the Catalog Number. Example: BRW84-333W. 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 in body permit 90° turn *only*. **Full 360° tee head rotation** is available. Add "R" to Catalog Number. Example: B84-333R.

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 37.

Lock Caps are available for 5/8" thru 2" Ball Valves and can be ordered from page 37.

Handles are available for Ball Valves; see page 36.

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 valve offering a fine replacement for inverted key and plug style valves.



BH11-233

Female Iron Pipe Thread Both Ends

CATALOG NUMBER	DESCRIPTION			APPROX. LENGTH	APPROX. WT. LBS.
	VALVE SIZE	ONE END	OTHER END		
BH11-211	5/8"	1/2"	1/2"	2-15/16"	1.4
BH11-231	5/8"	3/4"	1/2"	2-15/16"	1.4
BH11-233	5/8"	3/4"	3/4"	2-15/16"	1.3

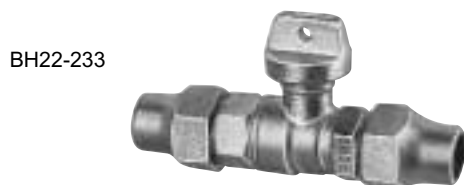


BH21-233

Flare Copper by Female Iron Pipe Thread

CATALOG NUMBER	DESCRIPTION			APPROX. LENGTH	APPROX. WT. LBS.
	VALVE SIZE	FLARE END	FIP END		
BH21-231	5/8"	3/4"	1/2"	3-9/16"	1.7
BH21-233	5/8"	3/4"	3/4"	3-9/16"	1.8
BH21-233M	5/8"	3/4"	3/4"	3-9/16"	2.0

NOTE: Length of valves for flare copper is measured *less* the copper tube nut(s).



BH22-233

Flare Copper Both Ends

CATALOG NUMBER	DESCRIPTION			APPROX. LENGTH	APPROX. WT. LBS.
	VALVE SIZE	ONE END	OTHER END		
BH22-233	5/8"	3/4"	3/4"	4-9/16"	2.3
BH22-233M	5/8"	3/4"	3/4"	4-9/16"	2.6

NOTE: Length of valves for flare copper is measured *less* the copper tube nut(s).



BH41-233

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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	CTS END	FIP END	
BH41-231	5/8"	3/4"	1/2"	1.7
BH41-233	5/8"	3/4"	3/4"	1.7
BH41-233M	5/8"	3/4"	3/4"	1.9

***Grip Joint** for CTS is available. See options for ordering information.



BH44-233

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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	ONE END	OTHER END	
◆ BH44-233	5/8"	3/4"	3/4"	2.1
BH44-233M	5/8"	3/4"	3/4"	2.3

***Grip Joint** for CTS is available. See options for ordering information.

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

NOTE: Padlock Wing option is **not** available on BH Style Ball Valves.

Options Available

Grip Joint for CTS (all sizes) and PEP (3/4" & 1") can be ordered by adding "-G" to the end of Catalog Number. Example: BH44-233-G.

Standard Tee Head Stops in body permit 90° turn *only*. **Full 360° tee head rotation** is available. Add "R" to Catalog Number. Example: BH44-233R.

Lock Caps are available for 5/8" thru 3/4" Ball Valves and can be ordered from page 37.

Handles are available for Ball Valves; see page 36.

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

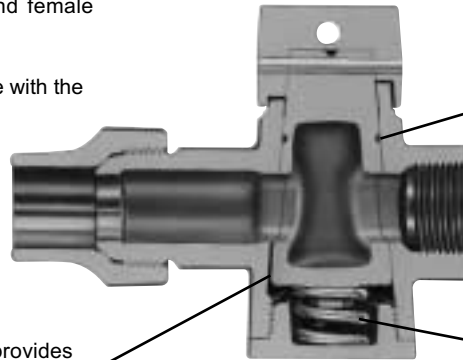
Ford Inverted Key Curb Stops

Features of the Ford Inverted Key Valve

The photo at right shows a Z21-333 Inverted Key Valve with flare copper inlet and female iron pipe outlet.

Inverted Key Curb Stops are available with the Stop-and-Waste feature.

A water passage on the inlet side provides upward pressure on the key, helping to hold it in the proper position.



An EPDM rubber O-ring near the top of the inverted key offers extra protection against leaks.

A bronze coil spring exerts a constant upward force on the bottom of the key. If the tee-head requires tapping to free a stuck key, the spring automatically re-seats the key in a watertight position.

Curb Stops with Female Iron Pipe Threads and Flare Copper Ends

1/2" Solid Tee Head Plug Valve Curb Stops

CATALOG NUMBER	DESCRIPTION			APPROX. LENGTH	APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE & TYPE	OUTLET SIZE & TYPE		
ZX11-111	1/2"	1/2" FIP	1/2" FIP	2-1/2"	.7
ZX22-111	1/2"	1/2" Flare Copper	1/2" Flare Copper	3-1/8"	1.0

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

Z11-333



Female Iron Pipe Thread Both Ends

CATALOG NUMBER	DESCRIPTION			APPROX. LENGTH	APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
Z11-333	3/4"	3/4"	3/4"	3-5/16"	2.1
ZS11-333	3/4"	3/4"	3/4"	2-7/8"	2.0
ZL11-333	3/4"	3/4"	3/4"	3-3/4"	2.3
Z11-444	1"	1"	1"	4-7/8"	3.7

Female Iron Pipe Thread Both Ends Stop and Waste Feature

CATALOG NUMBER	DESCRIPTION			APPROX. LENGTH	APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
Z11-333SW	3/4"	3/4"	3/4"	3-5/16"	2.1
ZS11-333SW	3/4"	3/4"	3/4"	2-7/8"	2.0
ZL11-333SW	3/4"	3/4"	3/4"	3-3/4"	2.3
Z11-444SW	1"	1"	1"	4-7/8"	3.7

NOTE: Stop and waste feature drains the outlet side of valve.

Options Available

Standard Tee Head Stops in body permit 90° turn *only*. **Full 360° tee head rotation** is available. Add "R" to Catalog Number.
Example: Z11-333R.

Ford Inverted Key Curb Stops

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

Z21-333



Flare Copper by Female Iron Pipe Thread

CATALOG NUMBER	DESCRIPTION			APPROX. LENGTH	APPROX. WT. LBS.
	VALVE SIZE	FLARE SIZE	FIP SIZE		
Z21-333	3/4"	3/4"	3/4"	4-1/16"	2.6
Z21-444	1"	1"	1"	5-3/4"	4.3

Flare Copper by Female Iron Pipe Thread

Minneapolis Pattern Valve

CATALOG NUMBER	DESCRIPTION			APPROX. LENGTH	APPROX. WT. LBS.
	VALVE SIZE	FLARE SIZE	FIP SIZE		
Z21-333M	3/4"	3/4"	3/4"	4-1/16"	2.7
Z21-444M	1"	1"	1"	5-3/4"	4.4

NOTE: Minneapolis Pattern Curb Box Threads for Inverted Key Curb Stops are 1-1/2" for 3/4" valves and 2" for 1" valves.

Z21-333M



Flare Copper by Female Iron Pipe Thread

Stop and Waste feature

CATALOG NUMBER	DESCRIPTION			APPROX. LENGTH	APPROX. WT. LBS.
	VALVE SIZE	FLARE SIZE	FIP SIZE		
Z21-333SW	3/4"	3/4"	3/4"	4-1/16"	2.6
Z21-444SW	1"	1"	1"	5-3/4"	4.3

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

NOTE: Length of valves for flare copper is measured less the copper tube nut(s).

Flare Copper Both Ends

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE	
Z22-111	1/2"	1/2"	1/2"	1.5
Z22-322	3/4"	5/8"	5/8"	2.7
Z22-333	3/4"	3/4"	3/4"	2.9
Z22-444	1"	1"	1"	4.7

Z22-333



Flare Copper Both Ends

Minneapolis Pattern Valve

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE	
Z22-333M	3/4"	3/4"	3/4"	2.9
Z22-444M	1"	1"	1"	4.9

NOTE: Minneapolis Pattern Curb Box Threads for Inverted Key Curb Stops are 1-1/2" for 3/4" valves and 2" for 1" valves.

Z22-333M



Flare Copper Both Ends

Stop and Waste feature

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE	
Z22-111SW	1/2"	1/2"	1/2"	1.5
Z22-322SW	3/4"	5/8"	5/8"	2.7
Z22-333SW	3/4"	3/4"	3/4"	3.0
Z22-333SWM	3/4"	3/4"	3/4"	3.0
Z22-444SW	1"	1"	1"	4.7
Z22-444SWM	1"	1"	1"	4.9

NOTE: Stop and waste feature drains the outlet side of valve.

NOTE: "M" at the end of the Catalog Number means valve is a Minneapolis Pattern Valve.

Options Available

Standard Tee Head Stops in body permit 90° turn *only*. **Full 360° tee head rotation** is available. Add "R" to Catalog Number.

Example: Z21-333R.

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

Ford Inverted Key Curb Stops

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 are recommended for use only with Schedule 40 and Schedule 80 PVC.

Abbreviations, Dimensions and Insert Stiffeners for plastic tubing are listed on page 38.

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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	CTS SIZE	FIP SIZE	
Z41-333	3/4"	3/4"	3/4"	2.4
Z41-444	1"	1"	1"	4.1

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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE & TYPE	CTS SIZE	FIP SIZE	
Z41-333M	3/4"	3/4"	3/4"	2.5
Z41-444M	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 Copper or Plastic Tubing (CTS)* by Female Iron Pipe Thread Stop and Waste feature

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE & TYPE	CTS SIZE	FIP SIZE	
Z41-333SW	3/4"	3/4"	3/4"	2.4
Z41-444SW	1"	1"	1"	4.2

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

***Grip Joint** for CTS is available. See options for ordering information

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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	PEP SIZE	FIP SIZE	
Z61-333	3/4"	3/4"	3/4"	2.6
◆ Z61-444	1"	1"	1"	4.3

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

Pack Joint for Plastic Pipe (PEP)* by Female Iron Pipe Thread Stop and Waste feature

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE & TYPE	PEP SIZE	FIP SIZE	
Z61-333SW	3/4"	3/4"	3/4"	2.6
Z61-444SW	1"	1"	1"	4.3

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

***Grip Joint** for PEP is available. See options for ordering information



Z41-333



Z41-333M



Z61-333

Options Available

Grip Joint for CTS (all sizes) and PEP (3/4" & 1") can be ordered by adding "-G" to the end of Catalog Number. Example: Z61-333-G.

Standard Tee Head Stops in body permit 90° turn *only*. **Full 360° tee head rotation** is available. Add "R" to Catalog Number. Example: Z41-333R.

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

Ford Inverted Key Curb Stops

Curb Stops with Pack Joints - Continued

Z44-333



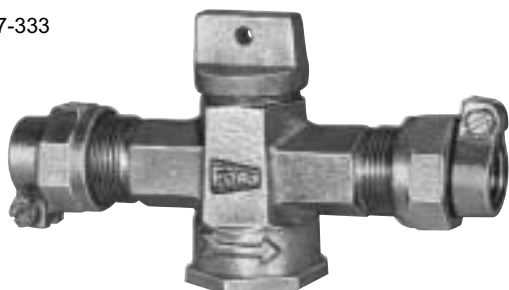
Z44-333M



Z66-333



Z77-333



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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE	
◆ Z44-111	1/2"	1/2"	1/2"	1.7
◆ Z44-322	3/4"	5/8"	5/8"	2.9
◆ Z44-333	3/4"	3/4"	3/4"	2.8
◆ Z44-444	1"	1"	1"	4.1

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

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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE	
Z44-333M	3/4"	3/4"	3/4"	2.8
Z44-444M	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 Copper or Plastic Tubing (CTS)* Both Ends Stop and Waste feature

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE	
Z44-111SW	1/2"	1/2"	1/2"	1.7
Z44-322SW	3/4"	5/8"	5/8"	2.9
◆ Z44-333SW	3/4"	3/4"	3/4"	2.8
◆ Z44-333SWM	3/4"	3/4"	3/4"	2.8
◆ Z44-444SW	1"	1"	1"	4.1
◆ Z44-444SWM	1"	1"	1"	4.7

***Grip Joint** for CTS is available. See options for ordering information.

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

NOTE: Stop and waste feature drains the outlet side of valve.

Pack Joint for Plastic Pipe (PEP)* Both Ends

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE	
Z66-333	3/4"	3/4"	3/4"	3.1
Z66-444	1"	1"	1"	5.1

Pack Joint for Plastic Pipe (PEP)* Both Ends Stop and Waste feature

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE	
Z66-333SW	3/4"	3/4"	3/4"	3.1
Z66-444SW	1"	1"	1"	5.1

***Grip Joint** for PEP is available. See options for ordering information.

NOTE: Stop and waste feature drains the outlet side of valve.

Pack Joint for PVC** Pipe Both Ends

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE	
Z77-333	3/4"	3/4"	3/4"	3.1
Z77-444	1"	1"	1"	5.1

Pack Joint for PVC** Pipe Both Ends Stop and Waste feature

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE	
Z77-333SW	3/4"	3/4"	3/4"	3.1
Z77-444SW	1"	1"	1"	5.1

NOTE: Stop and waste feature drains the outlet side of valve.

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

Options Available

Grip Joint for CTS (all sizes) and PEP (3/4" & 1") can be ordered by adding "-G" to the end of Catalog Number. Example: Z44-333-G.

Standard Tee Head Stops in body permit 90° turn only. **Full 360° tee head rotation** is available. Add "R" to Catalog Number.

Example: Z44-333R.

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

Ford Ball Meter Valves

Straight Ball Meter 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**).

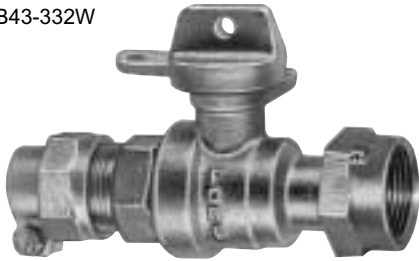
Plastic Pipe - PEP - Flexible water service pipe in what is referred to as "pipe size". Plastic Pipe refers to *any* pipe having the same inside diameter as corresponding sizes of standard iron pipe such as PEP – Polyethylene pipe. (Pack Joint coded **PEP**).

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 recommended for use only with Schedule 40 and Schedule 80 PVC.
Abbreviations, Dimensions and Insert Stiffeners for plastic tubing are listed on page 38.

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

B43-332W



CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
B43-211W	5/8"	1/2"	5/8"	1.4
B43-212W	5/8"	1/2"	5/8"x3/4" & 3/4"	1.5
◆ B43-231W	5/8"	3/4"	5/8"	1.6
◆ B43-232W	5/8"	3/4"	5/8"x3/4" & 3/4"	1.7
B43-331W	3/4"	3/4"	5/8"	2.1
◆ B43-332W	3/4"	3/4"	5/8"x3/4" & 3/4"	2.3
B43-341W	3/4"	1"	5/8"	2.7
◆ B43-342W	3/4"	1"	5/8"x3/4" & 3/4"	2.5
◆ B43-344W	3/4"	1"	1"	2.9
◆ B43-444W	1"	1"	1"	3.2
B43-454W	1"	1-1/4"	1"	3.4

***Grip Joint** for CTS is available. See options for ordering information.

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

B63-332W



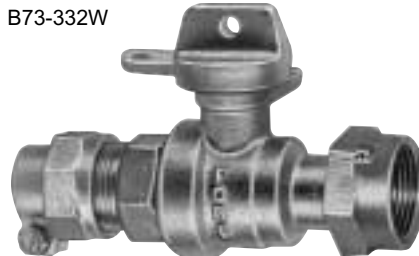
Pack Joint for Plastic Pipe (PEP)* by Meter Swivel Nut

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
B63-231W	5/8"	3/4"	5/8"	1.8
◆ B63-232W	5/8"	3/4"	5/8"x3/4" & 3/4"	1.8
B63-331W	3/4"	3/4"	5/8"	2.3
◆ B63-332W	3/4"	3/4"	5/8"x3/4" & 3/4"	2.5
B63-342W	3/4"	1"	5/8"x3/4" & 3/4"	3.0
B63-344W	3/4"	1"	1"	3.4
B63-444W	1"	1"	1"	3.8

***Grip Joint** for PEP is available. See options for ordering information.

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

B73-332W



Pack Joint for PVC** Pipe by Meter Swivel Nut

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
B73-231W	5/8"	3/4"	5/8"	1.8
B73-232W	5/8"	3/4"	5/8"x3/4" & 3/4"	1.9
B73-331W	3/4"	3/4"	5/8"	2.1
B73-332W	3/4"	3/4"	5/8"x3/4" & 3/4"	2.6
B73-342W	3/4"	1"	5/8"x3/4" & 3/4"	-
B73-344W	3/4"	1"	1"	3.4
B73-444W	1"	1"	1"	3.8

** **NOTE:** 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 (all sizes) and PEP (3/4" & 1") can be ordered by adding "-G" to the end of Catalog Number. Example: B63-332W-G.

For Reclaimed Water Tee Head on 3/4" and 1" Ball Valves, insert "RW" into the Catalog Number. Example: BRW63-332W. Tee Head sold only with Padlock Wing.

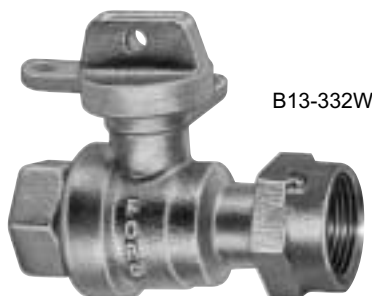
Standard Tee Head Stops in body permit 90° turn only. **Full 360° tee head rotation** is available. Add "R" to Catalog Number. Example: B63-332R.

Lock Caps are available for 5/8" thru 2" Ball Valves and can be ordered from page 37.

Handles are available for Ball Valves; see page 36.

Ford Ball Meter Valves

Straight Ball Meter Valves for Copper and Iron Pipe



B13-332W

Female Iron Pipe Thread by Meter Swivel Nut

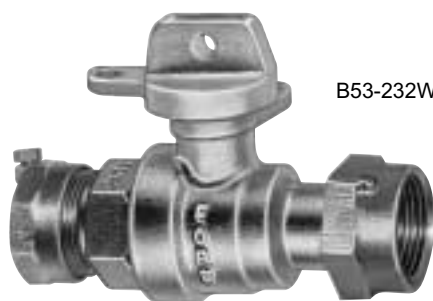
CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
B13-211W	5/8"	1/2"	5/8"	1.2
B13-212W	5/8"	1/2"	5/8"x3/4" & 3/4"	1.2
B13-231W	5/8"	3/4"	5/8"	1.2
B13-232W	5/8"	3/4"	5/8"x3/4" & 3/4"	1.3
B13-331W	3/4"	3/4"	5/8"	1.9
B13-332W	3/4"	3/4"	5/8"x3/4" & 3/4"	2.0
B13-341W	3/4"	1"	5/8"	2.1
B13-342W	3/4"	1"	5/8"x3/4" & 3/4"	2.2
B13-344W	3/4"	1"	1"	2.4
B13-444W	1"	1"	1"	2.9
B13-454W	1"	1-1/4"	1"	3.1



B23-332W

Flare Copper by Meter Swivel Nut

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
B23-231W	5/8"	3/4"	5/8"	1.7
B23-232W	5/8"	3/4"	5/8"x3/4" & 3/4"	1.8
B23-331W	3/4"	3/4"	5/8"	2.2
B23-332W	3/4"	3/4"	5/8"x3/4" & 3/4"	2.8
B23-341W	3/4"	1"	5/8"	3.2
B23-342W	3/4"	1"	5/8"x3/4" & 3/4"	2.8
B23-344W	3/4"	1"	1"	3.3
B23-444W	1"	1"	1"	3.6
B23-454W	1"	1-1/4"	1"	5.4



B53-232W

Pack Joint for Iron Pipe by Meter Swivel Nut

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
B53-212W	5/8"	1/2"	5/8"x3/4" & 3/4"	1.6
B53-232W	5/8"	3/4"	5/8"x3/4" & 3/4"	1.7
B53-332W	3/4"	3/4"	5/8"x3/4" & 3/4"	2.4

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

Options Available

For Reclaimed Water Tee Head on 3/4" and 1" Ball Valves, insert "RW" into the Catalog Number. Example: BRW13-332W. Tee Head sold only with Padlock Wing.

Standard Tee Head Stops in body permit 90° turn only. **Full 360° tee head rotation** is available. Add "R" to Catalog Number. Example: B13-332R.

Lock Caps are available for 5/8" thru 1" Ball Valves and can be ordered from page 37.

Handles are available for Ball Valves; see page 36.

Ford Ball Meter Valves

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

BF13-777W



Female Iron Pipe Thread by Meter Flange

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
BF13-666W	1-1/2"	1-1/2"	1-1/2"	7.8
BF13-676W	1-1/2"	2"	1-1/2"	8.3
BF13-777W	2"	2"	1-1/2" or 2"	10.1
BF13-787W	2"	2-1/2"	1-1/2" or 2"	10.7

BF83-777W



Male Iron Pipe Thread by Meter Flange

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
BF83-666W	1-1/2"	1-1/2"	1-1/2"	8.1
BF83-777W	2"	2"	1-1/2" or 2"	10.6

BF23-777W



Flare Copper by Meter Flange

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
BF23-666W	1-1/2"	1-1/2"	1-1/2"	9.7
BF23-676W	1-1/2"	2"	1-1/2"	11.9
BF23-777W	2"	2"	1-1/2" or 2"	13.6

BF43-777W



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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
BF43-666W	1-1/2"	1-1/2"	1-1/2"	8.9
BF43-676W	1-1/2"	2"	1-1/2"	9.8
BF43-777W	2"	2"	1-1/2" or 2"	12.2
BF43-787W	2"	2-1/2"	1-1/2" or 2"	12.8

***Grip Joint** for CTS is available. See options for ordering information

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

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

Options Available

Grip Joint for CTS (all sizes) and PEP (3/4" & 1") can be ordered by adding "-G" to the end of Catalog Number. Example: BF43-666W-G.

For Reclaimed Water Tee Head insert "RW" into the Catalog Number. Example: BFRW43-666W. Tee Head sold only with Padlock Wing.

Standard Tee Head Stops in body permit 90° turn only. **Full 360° tee head rotation** is available. Add "R" to Catalog Number. Example: BF13-666W-R.

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" thru 2" Ball Valves and can be ordered from page 37.

Lock Caps are available for 5/8" thru 2" Ball Valves and can be ordered from page 37.

Handles are available for Ball Valves; see page 36.

Meter Support Brackets to support meter during installation are available on flanged valves at additional cost. ADD "MSB" to the Catalog Number. Example: BF13-666W-MSB.

Ford Ball Meter Valves

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

BF53-777W



Pack Joint for Iron Pipe by Meter Flange

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
BF53-666W	1-1/2"	1-1/2"	1-1/2"	9.1
BF53-777W	2"	2"	1-1/2" or 2"	12.3

BF63-777W



Pack Joint for Plastic Pipe (PEP) by Meter Flange

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
BF63-666W-IDR7	1-1/2"	1-1/2"	1-1/2"	11.4
BF63-777W-IDR7	2"	2"	1-1/2" or 2"	12.9

BF73-777W



Pack Joint for PVC** Pipe by Meter Flange

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
BF73-666W	1-1/2"	1-1/2"	1-1/2"	9.5
BF73-777W	2"	2"	1-1/2" or 2"	13.3

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

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

Straight Compression Globe Meter Valves



SG13-332

Female Iron Pipe Thread by Meter Swivel Nut

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
SG13-331	3/4"	3/4"	5/8"	1.5
SG13-332	3/4"	3/4"	5/8"x3/4" & 3/4"	1.6
SG13-444	1"	1"	1"	2.4

Options Available

For Reclaimed Water Tee Head for Ball Valves, insert "RW" into the Catalog Number. Example: BFRW53-666W. Tee Head sold only with Padlock Wing.

Standard Tee Head Stops in body permit 90° turn only. **Full 360° tee head rotation** is available. Add "R" to Catalog Number. Example: BF53-666WR.

2" Gate Valve Operating Nut is available for 1-1/4" thru 2" Ball Valves and can be ordered from page 37.

Lock Caps are available for 5/8" thru 2" Ball Valves and can be ordered from page 37.

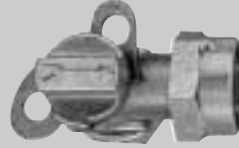
Handles are available for Ball Valves; see page 36.

Meter Support Brackets to support meter during installation are available on flanged valves at additional cost. ADD "MSB" to the Catalog Number. Example: BF53-777W-MSB.

Ford Angle Ball Meter Valves

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"

Female Iron Pipe Thread Inlet by Meter Swivel Nut Outlet



BA13-232W

CATALOG NUMBER	DESCRIPTION			APPROX. Wt. LBS.
	VALVE SIZE	SERV. LINE	METER SIZE OUTLET	
BA13-231W	5/8"	3/4"	5/8"	1.2
BA13-232W	5/8"	3/4"	5/8"x3/4" & 3/4"	1.4
BA13-331W	3/4"	3/4"	5/8"	1.9
BA13-332W	3/4"	3/4"	5/8"x3/4" & 3/4"	2.0
BA13-334W	3/4"	3/4"	1"	2.2
BA13-341W	3/4"	1"	5/8"	2.3
BA13-342W	3/4"	1"	5/8"x3/4" & 3/4"	2.3
BA13-344W	3/4"	1"	1"	2.4
BA13-444W	1"	1"	1"	3.1

Flare Copper Inlet by Meter Swivel Nut Outlet



BA23-332W

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

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



BA43-232W

CATALOG NUMBER	DESCRIPTION			APPROX. Wt. LBS.
	VALVE SIZE	SERV. LINE	METER SIZE OUTLET	
◆ BA43-231W	5/8"	3/4"	5/8"	1.7
◆ BA43-232W	5/8"	3/4"	5/8"x3/4" & 3/4"	1.7
◆ BA43-241W	5/8"	1"	5/8"	1.6
◆ BA43-242W	5/8"	1"	5/8"x3/4" & 3/4"	1.7
◆ BA43-331W	3/4"	3/4"	5/8"	2.1
◆ BA43-332W	3/4"	3/4"	5/8"x3/4" & 3/4"	2.2
◆ BA43-341W	3/4"	1"	5/8"	—
◆ BA43-342W	3/4"	1"	5/8"x3/4" & 3/4"	2.4
◆ BA43-334W	3/4"	3/4"	1"	2.4
◆ BA43-344W	3/4"	1"	1"	2.5
◆ BA43-444W	1"	1"	1"	3.5

*Grip Joint for CTS is available. See options for ordering information

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



BA63-232W

CATALOG NUMBER	DESCRIPTION			APPROX. Wt. LBS.
	VALVE SIZE	SERV. LINE	METER SIZE OUTLET	
BA63-231W	5/8"	3/4"	5/8"	1.6
BA63-232W	5/8"	3/4"	5/8"x3/4" & 3/4"	1.7
◆ BA63-332W	3/4"	3/4"	5/8"x3/4" & 3/4"	2.5
◆ BA63-444W	1"	1"	1"	4.0

*Grip Joint for PEP is available. See options for ordering information

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

Options Available

Grip Joint for CTS (all sizes) and PEP (3/4" & 1") can be ordered by adding "-G" to the end of Catalog Number. Example: BA63-332W-G.

Handles are available for Ball Valves; see page 36.

Standard Tee Head Stops in body permit 90° turn only. **Full 360° tee head rotation** is available. Add "R" to Catalog Number.

Example: BA13-332WR.

For Reclaimed Water Tee Head on 3/4" and 1" Ball Valves, insert "RW" into the Catalog Number. Example: BRW63-332W. Tee Head sold only with Padlock Wing.

Ford Angle Ball Meter Valves

For 1-1/2" and 2" Meters



Female Iron Pipe Thread by Meter Flange

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	METER SIZE OUTLET	
BFA13-666W	1-1/2"	1-1/2"	1-1/2"	8.3
BFA13-777W	2"	2"	1-1/2" and 2"	11.2

Flare Copper by Meter Flange

BFA23-666W	1-1/2"	1-1/2"	1-1/2"	9.5
BFA23-777W	2"	2"	1-1/2" and 2"	14.6

Pack Joint for Copper or Plastic Tube by Meter Flange

◆ BFA43-666W	1-1/2"	1-1/2"	1-1/2"	9.0
◆ BFA43-777W	2"	2"	1-1/2" and 2"	14.9

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

1-1/2" and 2" Angle Ball Meter Valves are suitable for a customer side shut off (outlet side of meter) up to 150 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.

Standard Tee Head Stops in body permit 90° turn only. **Full 360° tee head rotation** is available. Add "R" to Catalog Number.

Example: BFA13-777WR.

Angle Inverted Key Meter Valves



Female Iron Pipe Thread by Meter Swivel Nut

CATALOG NUMBER	VALVE SIZE	SERVICE LINE	METER SIZE	APPROX. WT. LBS.
KV13-331W	3/4"	3/4"	5/8"	1.2
KV13-332W	3/4"	3/4"	5/8"x3/4" & 3/4"	1.3
KV13-342W	3/4"	1"	5/8"x3/4" & 3/4"	1.4
KV13-444W	1"	1"	1"	1.9
KV13-454W	1"	1-1/4"	1"	2.1

Flare Copper by Meter Swivel Nut

CATALOG NUMBER	VALVE SIZE	SERVICE LINE	METER SIZE	APPROX. WT. LBS.
KV23-331W	3/4"	3/4"	5/8"	1.6
KV23-341W	3/4"	1"	5/8"	1.9
KV23-332W	3/4"	3/4"	5/8"x3/4" & 3/4"	1.7
KV23-342W	3/4"	1"	5/8"x3/4" & 3/4"	2.1
KV23-444W	1"	1"	1"	2.5
KV23-454W	1"	1-1/4"	1"	3.1

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

Options Available

Grip Joint for CTS (all sizes) and PEP (3/4" & 1") can be ordered by adding "-G" to the end of Catalog Number. Example: KV63-332W-G.

For Reclaimed Water Tee Head for Ball Valves, insert "RW" into the Catalog Number. Example: BFARW13-666W. Tee Head sold only with Padlock Wing.

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 AVLC-1.

Handles are available for Ball Valves; see page 36.

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 meter during installation are available on flanged meter valves at additional cost.

ADD "MSB" to the Catalog Number. Example: BFA13-777W-MSB.

Angle Inverted Key Meter Valves

Continued

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



CATALOG NUMBER	VALVE SIZE	SERVICE LINE	METER SIZE	APPROX. WT. LBS.
KV43-331W	3/4"	3/4"	5/8"	1.4
KV43-341W	3/4"	1"	5/8"	1.4
◆ KV43-332W	3/4"	3/4"	5/8"x3/4" & 3/4"	1.6
◆ KV43-342W	3/4"	1"	5/8"x3/4" & 3/4"	1.7
◆ KV43-444W	1"	1"	1"	2.3
KV43-454W	1"	1-1/4"	1"	2.7

***Grip Joint** for CTS is available. See options for ordering information.

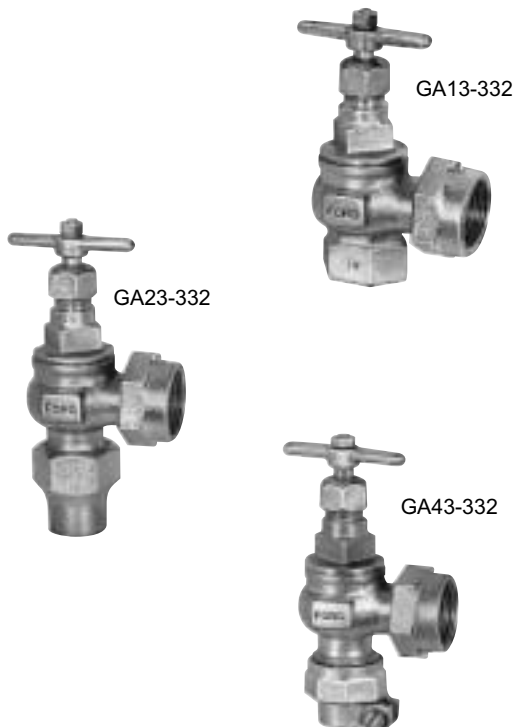
◆ **Quick Joint** is available by adding a "-Q" to the end of the catalog number.

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

CATALOG NUMBER	VALVE SIZE	SERVICE LINE	METER SIZE	APPROX. WT. LBS.
KV63-331W	3/4"	3/4"	5/8"	1.5
KV63-332W	3/4"	3/4"	5/8"x3/4" & 3/4"	1.7
KV63-342W	3/4"	1"	5/8"x3/4" & 3/4"	2.2
KV63-444W	1"	1"	1"	2.7

***Grip Joint** for PEP is available. See options for ordering information

Angle Compression Globe Meter Valves



Female Iron Pipe Thread by Meter Swivel Nut

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
GA13-331	3/4"	3/4"	5/8"	1.4
GA13-332	3/4"	3/4"	5/8"x3/4" & 3/4"	1.7
GA13-444	1"	1"	1"	2.1

Flare Copper by Meter Swivel Nut

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
GA23-331	3/4"	3/4"	5/8"	1.7
GA23-332	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 NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
GA43-331	3/4"	3/4"	5/8"	1.8
GA43-332	3/4"	3/4"	5/8"x3/4" & 3/4"	1.8

***Grip Joint** for CTS is available. See options for ordering information

Ford Angle Meter Valves

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



FV13-777W



FV23-666W



FV43-666W



FV63-666W



FV53-666W



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



FV73-666W

Female Iron Pipe Thread by Meter Flange

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
FV13-666W	1-1/2"	1-1/2"	1-1/2"	7.1
FV13-676W	1-1/2"	2"	1-1/2"	6.2
FV13-777W	2"	2"	1-1/2" or 2"	7.4

Flare Copper by Meter Flange

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
FV23-666W	1-1/2"	1-1/2"	1-1/2"	7.2
FV23-676W	1-1/2"	2"	1-1/2"	9.4
FV23-777W	2"	2"	1-1/2" or 2"	10.8

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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
FV43-666W	1-1/2"	1-1/2"	1-1/2"	6.5
FV43-777W	2"	2"	1-1/2" or 2"	9.4

***Grip Joint** for CTS is available. See options for ordering information

Pack Joint for Iron Pipe by Meter Flange

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
FV53-666W	1-1/2"	1-1/2"	1-1/2"	6.5
FV53-777W	2"	2"	1-1/2" or 2"	8.2

Pack Joint for Plastic Pipe (PEP) by Meter Flange

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
FV63-666W-IDR7	1-1/2"	1-1/2"	1-1/2"	6.9
FV63-777W-IDR7	2"	2"	1-1/2" or 2"	9.1

Pack Joint for PVC** Pipe by Meter Flange

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE SIZE	METER SIZE	
FV73-666W	1-1/2"	1-1/2"	1-1/2"	6.7
FV73-777W	2"	2"	1-1/2" or 2"	8.7

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

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

Options Available

Grip Joint for CTS (all sizes) and PEP (3/4" & 1") can be ordered by adding "-G" to the end of Catalog Number. Example: FV43-666W-G.

Steel Bolts and Nuts (5/8"x2-1/2", cadmium 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 meter during installation are available on flanged valves at additional cost. ADD "MSB" to the Catalog Number. Example: FV13-777W-MSB.

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 NUMBER	DESCRIPTION		APPROX. WT. LBS.
	SERV. LINE	METER SIZE	
UV13-31W	3/4"	5/8"	4.3
UV13-32W	3/4"	5/8"x3/4" or 3/4"	4.5
UV13-41W	1"	5/8"	4.2
UV13-42W	1"	5/8"x3/4" or 3/4"	4.4
UV13-44W	1"	1"	-



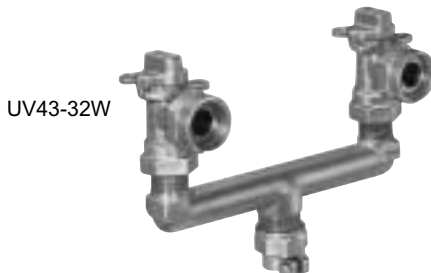
Male Iron Pipe Thread Inlet
by Two Meter Swivel Nut Outlets

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.
	SERV. LINE	METER SIZE	
UV83-31W	3/4"	5/8"	3.7
UV83-32W	3/4"	5/8"x3/4" or 3/4"	3.9
UV83-41W	1"	5/8"	3.8
UV83-42W	1"	5/8"x3/4" or 3/4"	4.0



Flare Copper Inlet
by Two Meter Swivel Nut Outlets

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.
	SERV. LINE	METER SIZE	
UV23-31W	3/4"	5/8"	4.7
UV23-32W	3/4"	5/8"x3/4" or 3/4"	4.8
UV23-41W	1"	5/8"	4.9
UV23-42W	1"	5/8"x3/4" or 3/4"	4.9



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

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.
	SERV. LINE	METER SIZE	
UV43-31W	3/4"	5/8"	4.1
UV43-32W	3/4"	5/8"x3/4" or 3/4"	4.3
UV43-41W	1"	5/8"	4.2
UV43-42W	1"	5/8"x3/4" or 3/4"	4.4
UV43-62W	1-1/2"	5/8"x3/4" or 3/4"	5.7

*Grip Joint for CTS is available. See options for ordering information.



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

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.
	SERV. LINE	METER SIZE	
UV63-31W	3/4"	5/8"	4.4
UV63-32W	3/4"	5/8"x3/4" or 3/4"	4.6
UV63-41W	1"	5/8"	4.7
UV63-42W	1"	5/8"x3/4" or 3/4"	4.9
UV63-51W	1-1/4"	5/8"	5.0
UV63-52W	1-1/4"	5/8"x3/4" or 3/4"	5.2

*Grip Joint for PEP is available. See options for ordering information

Options Available

Grip Joint for CTS (all sizes) and PEP (3/4" & 1") can be ordered by adding "-G" to the end of Catalog Number. Example: UV63-32W-G.

Handles for Key Meter Valves must be ordered separately from page 37 of this section.

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 NUMBER	DESCRIPTION		APPROX. WT. LBS.
	SERV. LINE	METER SIZE	
UV13-41W-65	1"	5/8"	-
UV13-42W-65	1"	5/8"x3/4" or 3/4"	-

Male Iron Pipe Thread Inlet
by Two Meter Swivel Nut Outlets

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.
	SERV. LINE	METER SIZE	
UV83-31W-65	3/4"	5/8"	-
UV83-32W-65	3/4"	5/8"x3/4" & 3/4"	-
UV83-41W-65	1"	5/8"	-
UV83-42W-65	1"	5/8"x3/4" & 3/4"	-

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

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.
	SERV. LINE	METER SIZE	
UV43-31W-65	3/4"	5/8"	4.1
UV43-32W-65	3/4"	5/8"x3/4" & 3/4"	4.3
UV43-41W-65	1"	5/8"	4.2
UV43-42W-65	1"	5/8"x3/4" & 3/4"	4.4

*Grip Joint for CTS is available. See options for ordering information

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

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.
	SERV. LINE	METER SIZE	
UV63-41W-65	1"	5/8"	-
UV63-42W-65	1"	5/8"x3/4" or 3/4"	-

*Grip Joint for PEP is available. See options for ordering information

Angle Key Valve Branch Assemblies

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



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

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.
	SERV. LINE	METER SIZE	
UAV43-41W-65	1"	5/8"	4.8
UAV43-42W-65	1"	5/8"x3/4" or 3/4"	5.0

*Grip Joint for CTS is available. See options for ordering information

Options Available

Grip Joint for CTS (all sizes) and PEP (3/4" & 1") can be ordered by adding "-G" to the end of Catalog Number. Example: UV43-32W-65-G.

Handles for Key Meter Valves must be ordered separately from page 37 of this section.

Ball Valve Branch Assemblies

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

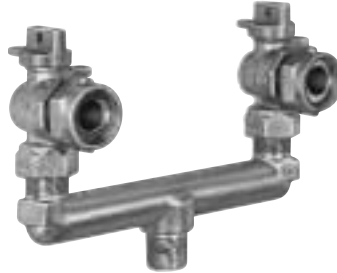
UVB13-42W



Female Iron Pipe Thread Inlet
by Two Meter Swivel Nut Outlets

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

UVB83-32W



Male Iron Pipe Thread Inlet
by Two Meter Swivel Nut Outlets

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.
	SERV. LINE	METER SIZE	
UVB83-31W	3/4"	5/8"	4.3
UVB83-32W	3/4"	5/8"x3/4" or 3/4"	4.4
UVB83-41W	1"	5/8"	3.8
UVB83-42W	1"	5/8"x3/4" or 3/4"	4.0

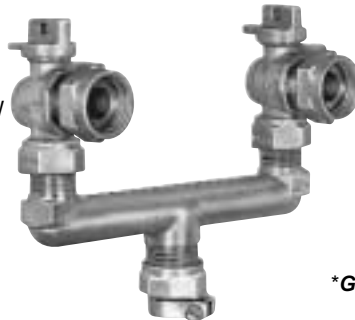
UVB23-32W



Flare Copper Inlet
by Two Meter Swivel Nut Outlets

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.
	SERV. LINE	METER SIZE	
UVB23-31W	3/4"	5/8"	4.7
UVB23-32W	3/4"	5/8"x3/4" or 3/4"	4.8
UVB23-41W	1"	5/8"	4.9
UVB23-42W	1"	5/8"x3/4" or 3/4"	4.9

UVB43-32W



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

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.
	SERV. LINE	METER SIZE	
UVB43-31W	3/4"	5/8"	4.3
UVB43-32W	3/4"	5/8"x3/4" or 3/4"	4.4
UVB43-41W	1"	5/8"	4.4
UVB43-42W	1"	5/8"x3/4" or 3/4"	4.4
UVB43-62W	1-1/2"	5/8"x3/4" or 3/4"	5.4

*Grip Joint for CTS is available. See options for ordering information

UVB63-32W



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

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.
	SERV. LINE	METER SIZE	
UVB63-31W	3/4"	5/8"	4.4
UVB63-32W	3/4"	5/8"x3/4" or 3/4"	4.6
UVB63-41W	1"	5/8"	4.7
UVB63-42W	1"	5/8"x3/4" or 3/4"	4.9
UVB63-51W	1-1/4"	5/8"	5.0
UVB63-52W	1-1/4"	5/8"x3/4" or 3/4"	5.2

*Grip Joint for PEP is available. See options for ordering information

Options Available

Grip Joint for CTS (all sizes) and PEP (3/4" & 1") can be ordered by adding "-G" to the end of Catalog Number. Example: UVB63-32W-G.

Handles are available for Ball Valves; see page 36.

Ball Valve Branch Assemblies - Continued

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



UVB13-42W-65



UVB83-32W-65



UVB43-32W-65



UVB63-42W-65

Female Iron Pipe Thread Inlet by Two Meter Swivel Nut Outlets

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.
	SERV. LINE	METER SIZE	
UVB13-41W-65	1"	5/8"	-
UVB13-42W-65	1"	5/8"x3/4" or 3/4"	-

Male Iron Pipe Thread Inlet by Two Meter Swivel Nut Outlets

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.
	SERV. LINE	METER SIZE	
UVB83-31W-65	3/4"	5/8"	-
UVB83-32W-65	3/4"	5/8"x3/4" & 3/4"	-
UVB83-41W-65	1"	5/8"	-
UVB83-42W-65	1"	5/8"x3/4" & 3/4"	-

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

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.
	SERV. LINE	METER SIZE	
UVB43-31W-65	3/4"	5/8"	-
UVB43-32W-65	3/4"	5/8"x3/4" & 3/4"	-
UVB43-41W-65	1"	5/8"	4.2
UVB43-42W-65	1"	5/8"x3/4" & 3/4"	-

**Grip Joint* for CTS is available. See options for ordering information

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

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.
	SERV. LINE	METER SIZE	
UVB63-41W-65	1"	5/8"	-
UVB63-42W-65	1"	5/8"x3/4" or 3/4"	-

**Grip Joint* for PEP is available. See options for ordering information

Ball Valve Angle Branch Assemblies

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



UAVB43-42W-65

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

CATALOG NUMBER	DESCRIPTION		APPROX. WT. LBS.
	SERV. LINE	METER SIZE	
UAVB43-41W-65	1"	5/8"	4.8
UAVB43-42W-65	1"	5/8"x3/4" or 3/4"	5.0

**Grip Joint* for CTS is available. See options for ordering information

Options Available

Grip Joint for CTS (all sizes) and PEP (3/4" & 1") can be ordered by adding "-G" to the end of Catalog Number. Example: UVB43-42W-65-G.

Handles are available for Ball Valves; see page 36.

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 3. Some styles are available in special, longer lengths.



B11-233



Padlock Wings as shown above are available on most 5/8" Ball Valves.

Female Iron Pipe Thread Both Ends

CATALOG NUMBER	DESCRIPTION			APPROX. LENGTH	APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
B11-211	5/8"	1/2"	1/2"	2-15/16"	1.0
B11-231	5/8"	3/4"	1/2"	2-15/16"	1.1
B11-233	5/8"	3/4"	3/4"	2-15/16"	1.2
** B11-233WW	5/8"	3/4"	3/4"	2-15/16"	1.2
BL11-233	5/8"	3/4"	3/4"	3-3/4"	1.3
BL11-233-3.5	5/8"	3/4"	3/4"	3-1/2"	1.3

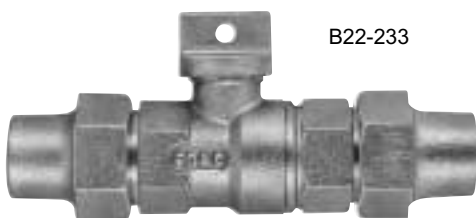
** "WW" indicates double padlock wings for locking in either on or off position.



B21-233

Flare Copper Inlet by Female Iron Pipe Thread Outlet

CATALOG NUMBER	DESCRIPTION			APPROX. LENGTH	APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
B21-231	5/8"	3/4"	1/2"	3-9/16"	1.5
B21-233	5/8"	3/4"	3/4"	3-9/16"	1.5
BL21-233-4.375	5/8"	3/4"	3/4"	4-3/8"	1.5



B22-233

Flare Copper Both Ends

CATALOG NUMBER	DESCRIPTION			APPROX. LENGTH	APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
B22-233	5/8"	3/4"	3/4"	4-9/16"	2.1



B41-233

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

CATALOG NUMBER	DESCRIPTION			APPROX. LENGTH	APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
B41-211	5/8"	1/2"	1/2"	-	1.2
B41-231	5/8"	3/4"	1/2"	-	1.4
◆ B41-233	5/8"	3/4"	3/4"	-	1.4
BL41-233	5/8"	3/4"	3/4"	4-1/8"	1.6

***Grip Joint** for CTS is available. See options for ordering information.

◆**Quick Joint** is available on this valve with the padlock wing feature. Add "W-Q" to the end of the catalog number.

Note: Length of valve for Flare Copper and Pack Joints for Copper are measured less the Flare Nut or Pack Joint Nut

Options Available

Grip Joint for CTS (all sizes) and PEP (3/4" & 1") can be ordered by adding "-G" to the end of Catalog Number. Example: B41-233-G.

Padlock wings - All Valves are available with Padlock Wings. Add "W" to Catalog Number.

Standard Tee Head Stops in body permit 90° turn only. **Full 360° tee head rotation** is available. Add "R" to Catalog Number. Example: B11-233R.

Lock Caps are available for 5/8" thru 2" Ball Valves and can be ordered from page 37.

Handles are available for Ball Valves; see page 36.

Ford Ball Service Valves - Continued

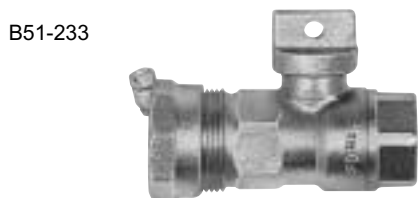
5/8" Ball Valves



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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	PEP SIZE	FIP SIZE	
B61-231	5/8"	3/4"	1/2"	1.5
B61-233	5/8"	3/4"	3/4"	1.5

***Grip Joint** for PEP is available. See options for ordering information



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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	PJ/IP Size	FIP SIZE	
B51-211	5/8"	1/2"	1/2"	1.3
B51-233	5/8"	3/4"	3/4"	1.4



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

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



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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	Inlet Size	OUTLET SIZE	
◆ B44-233	5/8"	3/4"	3/4"	1.8

***Grip Joint** for CTS is available. See options for ordering information.

◆**Quick Joint** is available on this valve with the padlock wing feature. Add "W-Q" to the end of the catalog number.

Note: Length of valve for Pack Joints for Copper are measured less the Pack Joint Nut.



Pack Joint for Plastic Pipe (PEP)* Both Ends

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	Inlet Size	OUTLET SIZE	
B66-233	5/8"	3/4"	3/4"	2.0

***Grip Joint** for PEP is available. See options for ordering information



Pack Joint for PVC Pipe Both Ends**

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	Inlet Size	OUTLET SIZE	
B77-233	5/8"	3/4"	3/4"	-

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

Options Available

Grip Joint for CTS (all sizes) and PEP (3/4" & 1") can be ordered by adding "-G" to the end of Catalog Number. Example: B61-233-G.

Padlock wings - All Valves are available with Padlock Wings. Add "W" to Catalog Number.

Standard Tee Head Stops in body permit 90° turn only. **Full 360° tee head rotation** is available. Add "R" to Catalog Number. Example: B61-233R.

Lock Caps are available for 5/8" thru 2" Ball Valves and can be ordered from page 37.

Handles are available for Ball Valves; see page 36.

Ford Ball Service Valves - Continued

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

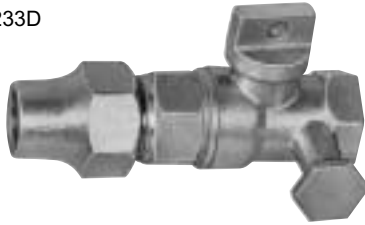
B11-233D



Female Iron Pipe Thread Both Ends

CATALOG NUMBER	DESCRIPTION			APPROX. LENGTH	APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
B11-211D	5/8"	1/2"	1/2"	2-15/16"	1.3
B11-231D	5/8"	3/4"	1/2"	2-15/16"	1.3
B11-233D	5/8"	3/4"	3/4"	2-15/16"	1.2

B21-233D



Flare Copper Inlet by Female Iron Pipe Outlet

CATALOG NUMBER	DESCRIPTION			APPROX. LENGTH	APPROX. WT. LBS.
	VALVE SIZE	FLARE SIZE	FIP SIZE		
B21-231D	5/8"	3/4"	1/2"	3-9/16"	1.8
B21-233D	5/8"	3/4"	3/4"	3-9/16"	1.8

B41-233D



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

CATALOG NUMBER	DESCRIPTION			APPROX. LENGTH	APPROX. WT. LBS.
	VALVE SIZE	CTS SIZE	FIP SIZE		
B41-233D	5/8"	3/4"	3/4"	3-15/16"	1.7

***Grip Joint** for CTS is available. See options for ordering information

Note: Length of valve for Flare Copper and Pack Joints for Copper are measured less the Flare Nut or Pack Joint Nut

Ford 3/4" Straight Compression Service Valves

G11-333



Female Iron Pipe Thread Both Ends

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE	
G11-333	3/4"	3/4"	3/4"	1.6

Options Available

Grip Joint for CTS (all sizes) and PEP (3/4" & 1") can be ordered by adding "-G" to the end of Catalog Number. Example: B41-233D-G.

Padlock wings - All Valves are available with Padlock Wings. Add "W" to Catalog Number.

Standard Tee Head Stops in body permit 90° turn only. **Full 360° tee head rotation** is available. Add "R" to Catalog Number. Example: B41-233DR.

Lock Caps are available for 5/8" thru 2" Ball Valves and can be ordered from page 37.

Handles are available for Ball Valves; see page 36.

Ford Angle Inverted Key Service Valves

With Female Iron Pipe Outlet Thread



AV11-333W

Female Iron Pipe Thread Inlet by Female Iron Pipe Thread Outlet

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE	OUTLET SIZE	
AV11-333W	3/4"	3/4"	3/4"	1.3
AV11-444W	1"	1"	1"	1.8



AV21-333W

Flare Copper Inlet by Female Iron Pipe Thread Outlet

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE	OUTLET SIZE	
AV21-333W	3/4"	3/4"	3/4"	1.6
■ AV21-444	1"	1"	1"	2.2

Flare Copper Inlet by Male Iron Pipe Thread Outlet

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE	OUTLET SIZE	
KV28-333W	3/4"	3/4"	3/4"	1.3
KV28-444W	1"	1"	1"	1.9
KV28-444WW	1" Dbl. Locking	1"	1"	-



AV41-333W

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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE	OUTLET SIZE	
AV41-333W	3/4"	3/4"	3/4"	1.4
■ AV41-444	1"	1"	1"	2.1

*Grip Joint for CTS is available. See options for ordering information

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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	SERV. LINE	OUTLET SIZE	
KV68-333W	3/4"	3/4"	3/4"	1.4

NOTE: "W" indicates valve is standard with Padlock Wings only; except ■ indicates valve is not available with Padlock Wings.
"WW" indicates Double Padlock Wings for locking in either on or off position.

Options Available

Grip Joint for CTS (all sizes) and PEP (3/4" & 1") can be ordered by adding "-G" to the end of Catalog Number. Example: AV41-333W-G.

Handles for Key Valves may be ordered separately from page 37.

Ford Angle Ball Service Valves



BA11-333W



BA21-333W



BA41-333W



BA12-333W



BA22-333W



BA44-333W

Female Iron Pipe Thread Inlet and Outlet

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE	
BA11-333W	3/4"	3/4"	3/4"	1.8
BA11-343W	3/4"	1"	3/4"	2.0
BA11-344W	3/4"	1"	1"	2.2
BA11-444W	1"	1"	1"	-
BA11-666W	1-1/2"	1-1/2"	1-1/2"	-
BA11-777W	2"	2"	2"	-

Flare Copper Inlet by Female Iron Pipe Thread Outlet

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	FLARE SIZE	FIP SIZE	
BA21-333W	3/4"	3/4"	3/4"	2.1
BA21-344W	3/4"	1"	1"	3.4

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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	CTS SIZE	FIP SIZE	
BA41-233W	5/8"	3/4"	3/4"	1.4
BA41-333W	3/4"	3/4"	3/4"	2.0
BA41-444W	1"	1"	1"	3.1

- ***Grip Joint** for CTS is available. See options for ordering information.
 ♦ **Quick Joint** is available by adding a "-Q" to the end of the catalog number.

Female Iron Pipe Thread Inlet by Flare Copper Outlet

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	FIP SIZE	FLARE SIZE	
BA12-333W	3/4"	3/4"	3/4"	2.3
BA12-343W	3/4"	1"	3/4"	2.9
BA12-344W	3/4"	1"	1"	2.8

Flare Copper Inlet and Outlet

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE	
BA22-333W	3/4"	3/4"	3/4"	2.6
BA22-444W	1"	1"	1"	4.1

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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE	
BA44-333W	3/4"	3/4"	3/4"	2.4
BA44-344W	3/4"	1"	1"	2.6
BA44-444W	1"	1"	1"	3.5

***Grip Joint** for CTS is available. See options for ordering information

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 (all sizes) and PEP (3/4" & 1") can be ordered by adding "-G" to the end of Catalog Number. Example: BA41-233W-G.

For Reclaimed Water Tee Head on 3/4" and 1" Ball Valves, insert "RW" into the Catalog Number. Example: BARW11-333W. Tee Head sold only with Padlock Wing.

Handles are available for Ball Valves; see page 36.

Ford Service Valves

SPECIAL “New England” Iron Pipe Threads under Tube Nut

New England iron pipe threads under the tube nut are available for other valves and curb stops. For sizes other than those in the below tables please contact the factory for availability.

Ball Valves with “New England” Iron Pipe Threads

B21-333



Flare Copper Inlet by Female Iron Pipe Thread Outlets

CATALOG NUMBER	DESCRIPTION			APPROX. LENGTH	APPROX. WT. LBS.
	VALVE SIZE	FLARE SIZE	FIP SIZE		
B21-231-NE	5/8"	3/4"	1/2"	3-9/16"	1.6
B21-233-NE	5/8"	3/4"	3/4"	3-9/16"	1.6
B21-233D-NE	5/8"	3/4"	3/4"	3-9/16"	1.7
B21-333-NE	3/4"	3/4"	3/4"	3-7/16"	2.2
B21-344-NE	3/4"	1"	1"	3-5/8"	2.8
B21-444-NE	1"	1"	1"	5-1/16"	4.0

B22-333



Flare Copper Both Ends

CATALOG NUMBER	DESCRIPTION			APPROX. LENGTH	APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
B22-333-NE	3/4"	3/4"	3/4"	4-9/16"	3.1
B22-344-NE	3/4"	1"	1"	-	3.9
B22-444-NE	1"	1"	1"	-	4.9

Inverted Key Valves with “New England” Iron Pipe Threads

Z22-333-NE



Flare Copper Both Ends

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS
	VALVE SIZE	INLET SIZE	OUTLET SIZE	
Z22-333-NE	3/4"	3/4"	3/4"	2.9
Z22-444-NE	1"	1"	1"	4.7

Flare Copper Both Ends

Stop and Waste Feature

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS
	VALVE SIZE	INLET SIZE	OUTLET SIZE	
Z22-333SW-NE	3/4"	3/4"	3/4"	3.0
Z22-444SW-NE	1"	1"	1"	4.8

Options Available

Grip Joint for CTS (all sizes) and PEP (3/4" & 1") can be ordered by adding "-G" to the end of Catalog Number. Example: B44-333-OR-G.

Lock Caps are available for 5/8" thru 2" Ball Valves and can be ordered from page 37.

Handles are available for Valves and can be ordered from page 36 and 37.

Ford Curb Stops

SPECIAL "Open Right" Valves

The valves shown below are manufactured so the valve opens by turning the handle to the RIGHT or clockwise. If a valve other than the valves shown on this page is needed with the open right option, please contact the factory for availability. (NOTE: Standard Ford valves are typically manufactured so the valve opens by turning the valve handle to the left or counter clockwise.)

Ball Valves with "Open Right" Feature

Both Ends Female Iron Pipe Threads

B11-333-OR



CATALOG NUMBER	DESCRIPTION			APPROX. LENGTH	APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE		
B11-333-OR	3/4"	3/4"	3/4"	3-3/8"	1.8
B11-444-OR	1"	1"	1"	3-13/16"	2.6
B11-455-OR	1"	1-1/4"	1-1/4"	4-7/16"	3.1
B11-666-OR	1-1/2"	1-1/2"	1-1/2"	4-3/4"	6.0
B11-666SW-OR	1-1/2"	1-1/2"	1-1/2"	4-3/4"	7.0

Flare Copper Both Ends

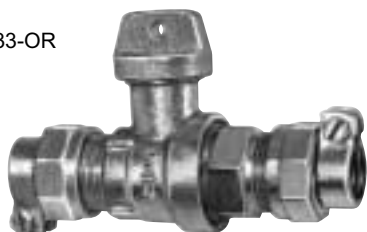
B22-333-NE-OR



CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE	
B22-333-NE-OR	3/4"	3/4"	3/4"	3.0
B22-444-NE-OR	1"	1"	1"	4.9
B22-455-OR	1"	1-1/4"	1-1/4"	5.6
B22-666-OR	1-1/2"	1-1/2"	1-1/2"	10.6
B22-666SW-OR	1-1/2"	1-1/2"	1-1/2"	10.6

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

B44-333-OR

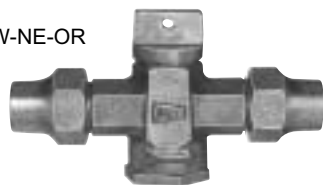


CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE	
B44-333-OR	3/4"	3/4"	3/4"	2.4
B44-444-OR	1"	1"	1"	3.2
B44-455-OR	1"	1-1/4"	1-1/4"	5.0
B44-666-OR	1-1/2"	1-1/2"	1-1/2"	9.2
B44-666SW-OR	1-1/2"	1-1/2"	1-1/2"	9.1
B44-677-OR	1-1/2"	2"	2"	11.0
B44-677SW-OR	1-1/2"	2"	2"	11.0

*Grip Joint for CTS is available. See options for ordering information

Inverted Key Valves with "Open Right" Feature

Z22-333SW-NE-OR



Flare Copper Both Ends

Z44-333SW-OR



CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE	
Z22-333SW-NE-OR	3/4"	3/4"	3/4"	3.0
Z22-444SW-NE-OR	1"	1"	1"	4.8

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

CATALOG NUMBER	DESCRIPTION			APPROX. WT. LBS.
	VALVE SIZE	INLET SIZE	OUTLET SIZE	
Z44-333SW-OR	3/4"	3/4"	3/4"	2.8
Z44-444SW-OR	1"	1"	1"	4.0

*Grip Joint for CTS is available. See options for ordering information

NOTE: "SW" in the Catalog Number means the valve is a stop and waste valve.

NOTE: "NE" in the Catalog Number means the valve has "New England" threads under the copper tube nut.

Available Options are listed at the bottom of the opposite page.

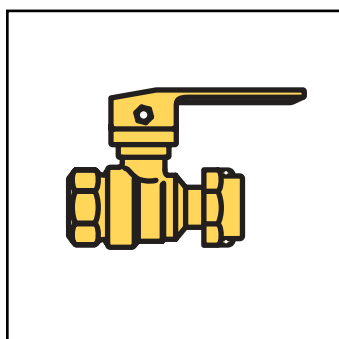
Ford Valve Handles

Handles Available for the Complete Line of Ford Ball Valves

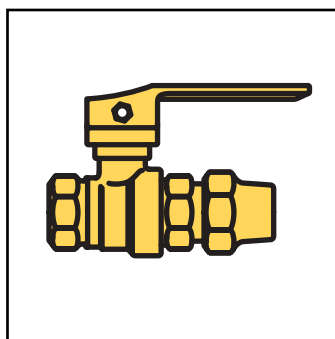
All handles are cast from waterworks brass (AWWA Standard C800-89 / ASTM — B-62 UNS No. C83600 — 85-5-5-5). Ball Valve handles, and the RHT-34 Angle Key Valve handle, may be attached by the customer using bolt holes already in the Tee Head of the valve. Other handles are factory-assembled with the valve. **All Handles** may be ordered factory assembled on valves if specified.

Handles for Ball Valves

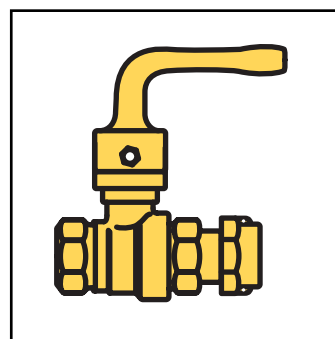
CATALOG NUMBER	DESCRIPTION AND USAGE OF HANDLE	APPROX. WT. LBS.
HB-2	Straight Lever Handle for 5/8" (3-7/16" long) Straight and Angle Ball Valves	.3
HB-34	Straight Lever Handle (4-1/4" long) for 3/4" and 1" Straight and Angle Ball Valves	.3
HB-34S	Straight Lever Handle (3-1/4" long) for 3/4" and 1" Straight and Angle Ball Valves	.3
HH-34	High Lever Handle for 3/4" and 1" Straight and Angle Ball Valves	.5
HB-67	Straight Lever Handle (9-1/2" long) for ALL 1-1/4", 1-1/2" and 2" Straight and Angle Ball Valves	1.1
HB-67S	Straight Lever Handle (4-7/8" long) for ALL 1-1/4", 1-1/2" and 2" Straight and Angle Ball Valves	1.1
HH-67	High Lever Handle (8-7/8" long) for ALL 1-1/2" and 2" Straight and Angle Ball Valves	.8
HP-4	Special Angled Lever Handle for 3/4" and 1" Ball Valves for Pitometer Service	.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!)	.5
HS-4	High Lever Handle for 1-1/4", 1-1/2" and 2" Straight and Angle Ball Valves	.8



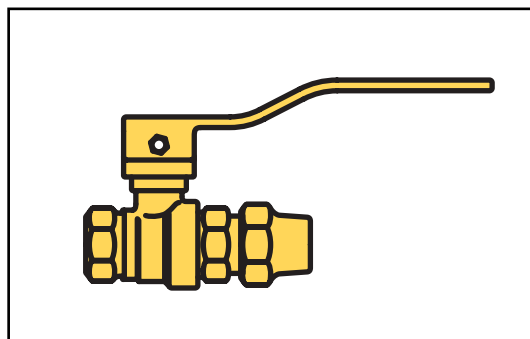
HB-2 for 5/8" Ball Valves
Straight and Angle



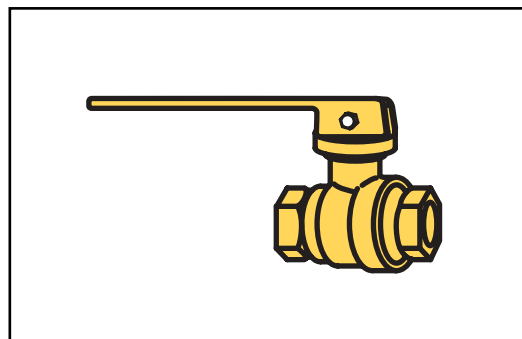
HB-34 (4-1/4" long) and
HB-34S (3-1/4" long) for
3/4" and 1" Ball Valves
Straight and Angle



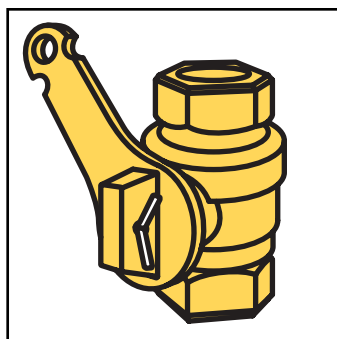
HH-34 for 3/4" and 1" Ball Valves
Straight and Angle



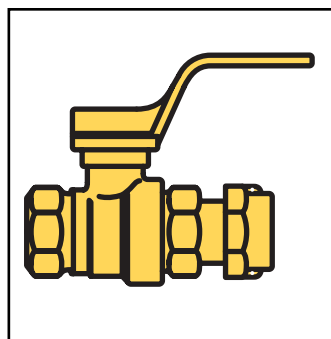
HH-67 for 1-1/4", 1-1/2" and 2" Ball Valves



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



HP-4 for use on Ball Valves
for Pitometer service



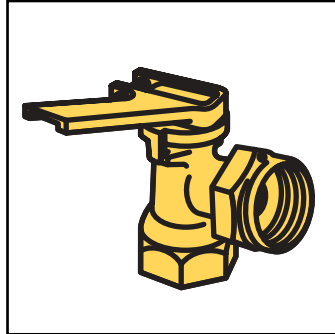
HT-34 for 3/4" and 1"
Angle Ball Valves and 3/4"
and 1" Straight Ball Valves.
**(Handle assembled on
the valve at the factory)**

Ford Valve Handles

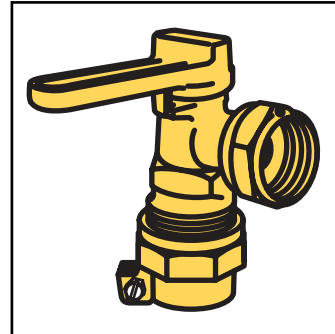
Handles Available for the Complete Line of Ford Inverted Key Valves

Handles for Inverted Key Valves

CATALOG NUMBER	DESCRIPTION AND USAGE OF HANDLE	APPROX. Wt. LBS.
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!)	.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!)	.5
RHT-34	Straight Lever Handle for attachment to Tee Head of ALL 3/4" and 1" Angle Key Valves	.2



RHT-34 for 3/4" and 1" Angle Key Valve



HT-3 and HT-4 for KV Meter Valves and AV Service Valves-
(Handles assembled on the valve at the factory)

Ford Valve Lock Caps

Lock Caps Available for the Complete Line of Ford Valves

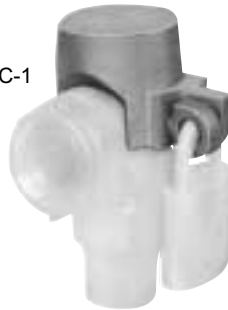
Ball Valve Lock Caps

CATALOG NUMBER	DESCRIPTION	APPROX. Wt. LBS.
BVLC-58	Lock Cap for 5/8" Ball Valve	.6
BVLC-1	Lock Cap and Pin for 5/8" BH, 3/4" and 1" Ball Valves	1.0
BVLC-2	Lock Cap and Pin for 1-1/4", 1-1/2" and 2" Ball Valves	1.5
BVLC-PIN-58	Pin only for BVLC-58	-
BVLC-PIN-1	Pin only for BVLC-1	-
BVLC-PIN-2	Pin only for BVLC-2	-



BVLC-1

AVLC-1



Key Valve Lock Caps

CATALOG NUMBER	DESCRIPTION	APPROX. Wt. LBS.
AVLC-1	Lock Cap and Pin for 5/8" and 5/8"x3/4" and 3/4" Angle Key Valves without Padlock Wings	1.7



QT67

Gate Valve Operating Nut

CATALOG NUMBER	DESCRIPTION	APPROX. Wt. LBS.
QT67	2" Gate Valve Operating Nut for 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.

Ford Insert Stiffeners

TYPES OF PIPE AND TUBING – EXPLANATION OF ABBREVIATIONS

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. (Pack Joint coded **CTS**).

PET – Polyethylene tubing.

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. (Pack Joint coded **PEP**).

PEP – Polyethylene pipe.

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**). Ford Pack Joints for PVC are recommended for use only with Schedule 40 and Schedule 80 PVC.



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)

DIMENSION COMPARISON TABLE FOR PLASTIC, COPPER AND GALVANIZED IRON

PIPE AND TUBING TYPE	SDR	PSI	CONTROL	O.D.						I.D.					
				1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Copper	–	–	–	OD	.625	.875	1.125	1.375	1.625	2.125	–	–	–	–	–
PET	PE3408	9	200	OD	.625	.875	1.125	1.375	1.625	2.125	–	.681	.875	1.069	1.263
PEP	PE3408	7	200	ID	–	1.060	1.349	1.774	2.070	2.657	–	.824	1.049	1.380	2.067
PVC	–	–	–	OD	.840	1.050	1.315	1.660	1.900	2.375	–	–	–	–	–
Galv IP	–	–	–	OD	.840	1.050	1.315	1.660	1.900	2.375	–	–	–	–	–

INSERT STIFFENERS



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

Ford insert stiffeners are solid tubular 304 stainless steel, flanged and dimpled to retain placement within the service line.

PLASTIC TUBING

50 SERIES FOR POLYETHYLENE TUBING

CATALOG NUMBER	NOMINAL SIZE	PET ID	APPROX. WT. LBS.*	STD. PKG. QTY.
Insert-51	3/4"	.681	4.8	150
Insert-52	1"	.875	4.2	75
** Insert-53	1-1/4"	1.069	2.4	50
Insert-54	1-1/2"	1.263	3.1	25
Insert-55	2"	1.653	4.6	40
◆ Insert-54-Q	1-1/2"	1.263	2.6	30
◆ Insert-55-Q	2"	1.653	5.8	50

◆ These inserts are specifically designed and required for Quick Joint fittings. They are not interchangeable for use with any other type of compression fittings.

* Weights for insert stiffeners are for standard packaging quantities.

**Insert-53 and Insert-72 fit both 1-1/4" Plastic Tubing (1.069 I.D.) and 1" Plastic Pipe (1.049 I.D.).

PLASTIC PIPE

70 SERIES FOR POLYETHYLENE PIPE

CATALOG NUMBER	NOMINAL SIZE	PEP ID	APPROX. WT. LBS.*	STD. PKG. QTY.
Insert-71	3/4"	.824	4.4	100
** Insert-72	1"	1.049	2.9	50
Insert-73	1-1/4"	1.380	5.8	60
Insert-74	1-1/2"	1.610	5.5	45
Insert-75	2"	2.067	9.7	50
◆ Insert-72-Q	1"	1.049	2.9	50

Section G

Ford Curb Stops and Meter Valves

Warranty

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

Please Note:

The Ford Meter Box Company considers the information in this catalog to be correct at the time of publication. Items and option availability, including specifications, are subject to change without notice. Please verify that your product information is current.



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