

OLIVEHURST PUBLIC UTILITY DISTRICT

Our mission is to provide high quality services to enhance our community's quality of life.



GENERAL MANAGER
John C. Tillotson

May 29, 2026

RFB – OPUD WATER MAIN & SERVICE LINE MATERIALS Addendum 1

To All Bidders,

The following Item for request on clarification, substitutes, and changes are being made to the OPUD WATER MAIN & SERVICE LINE MATERIAL Request for Bid:

Line item #1: QUESTION: for the requested item B-25028N Ball Corporation Stop Mueller, **I wanted to bid the FORD FB1100-4Q-NL, Submittal attached, is this acceptable?**

RESPONSE: This specification is acceptable

Line item #2: QUESTION: For the request item on the Angle Meter Valve 1" 110 CTS x Meter Nut Brass **I wanted to bid the FORD BA43-444-W-Q-NL, Submittal attached, is this acceptable?**

RESPONSE: This specification is acceptable

Line item #3: QUESTION: For the request item on the Bushing, 5/8 x 3/4 to 1" MNPT x Meter Nut Brass **I wanted to bid for the FORD A-24-NL, Submittal attached, is this acceptable?**

RESPONSE: This specification is acceptable

Line item # 14-16,18,33: QUESTION: For these line items, **I'm wanting to confirm are fittings to be cement lined Bit coated. Line 17 is epoxy lined and coated.**

RESPONSE: This specification can either be all epoxy line and coated or all cement lined and coated.

Line item# 21-24: QUESTION: This is for the Mechanical restraints. Do they have to be domestic or is Import acceptable, import submittal attached.

RESPONSE: This specification is NOT limited to domestic; import is acceptable.

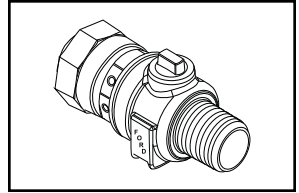
Regards,

Swarnjit Boyal

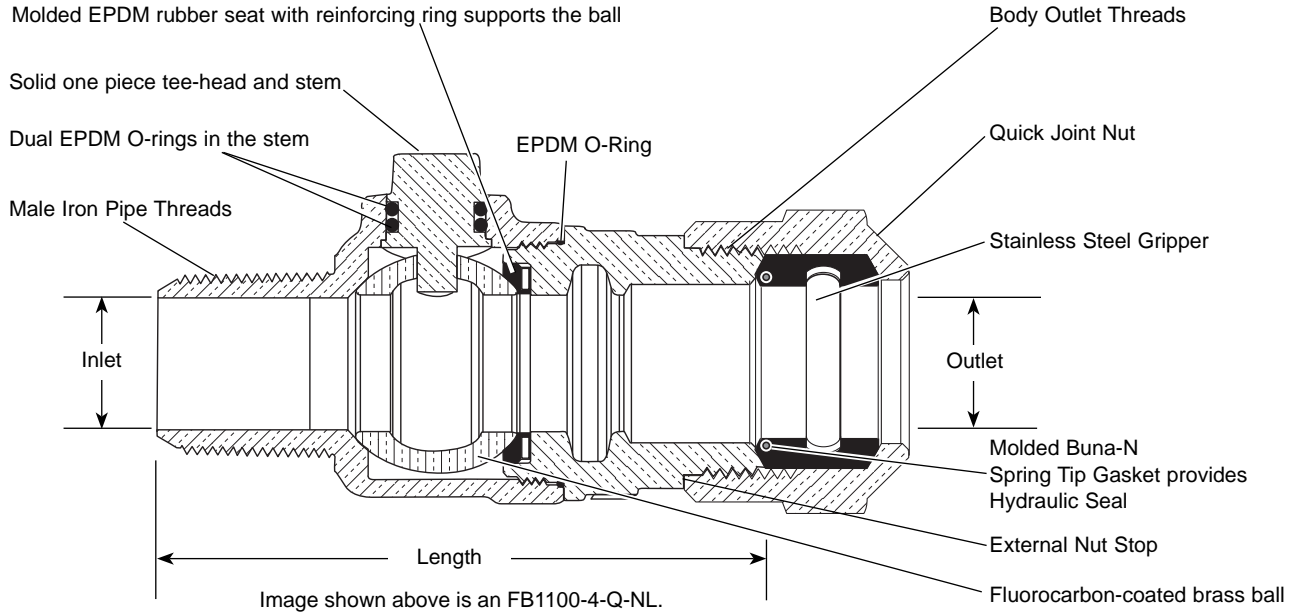
Swarnjit Boyal,
Public Works Manager

SUBMITTAL INFORMATION

Ballcorp Corporation Stops - (FB1100-xx-Q-NL style)



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



VALVE SIZE	INLET SIZE	OUTLET SIZE	VALVE LENGTH	BODY OUTLET THREADS	APPROX. WT. LBS	PART NUMBER	✓ SUBMITTED ITEM(S)
3/4"	3/4"	3/4"	4-19/64"	3/4" Flare Copper	1.8	FB1100-3-Q-NL	
1"	1"	1"	4-13/64"	1" Flare Copper	2.7	FB1100-4-Q-NL	
1-1/2"	1-1/2"	1-1/2"	5-11/16"	1-1/2" Special Thread	4.9	FB1100-6-Q-NL	
2"	2"	2"	7-1/32"	2" Special Thread	7.9	FB1100-7-Q-NL	

Note: Ford recommends using insert stiffeners with plastic pipe or tubing.

* 1-1/4" Quick Joint has EPDM spring tip gasket.

FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (ASTM B584, UNS C89833)
- The product has the letters "NL" cast into the main body for lead-free identification
- Certified to NSF/ANSI Standard 61 and NSF/ANSI Standard 372 where applicable
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B62 and ASTM B584, UNS C83600, 85-5-5-5)
- Ends are integral or secured with adhesive to prevent unintentional disassembly
- 300 PSI working pressure

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



The Ford Meter Box Company, Inc.

P.O. Box 443, Wabash, Indiana U.S.A. 46992-0443

Phone: 260-563-3171 / Fax: 800-826-3487

Overseas Fax: 260-563-0167

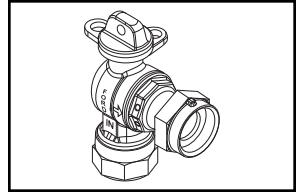
www.fordmeterbox.com

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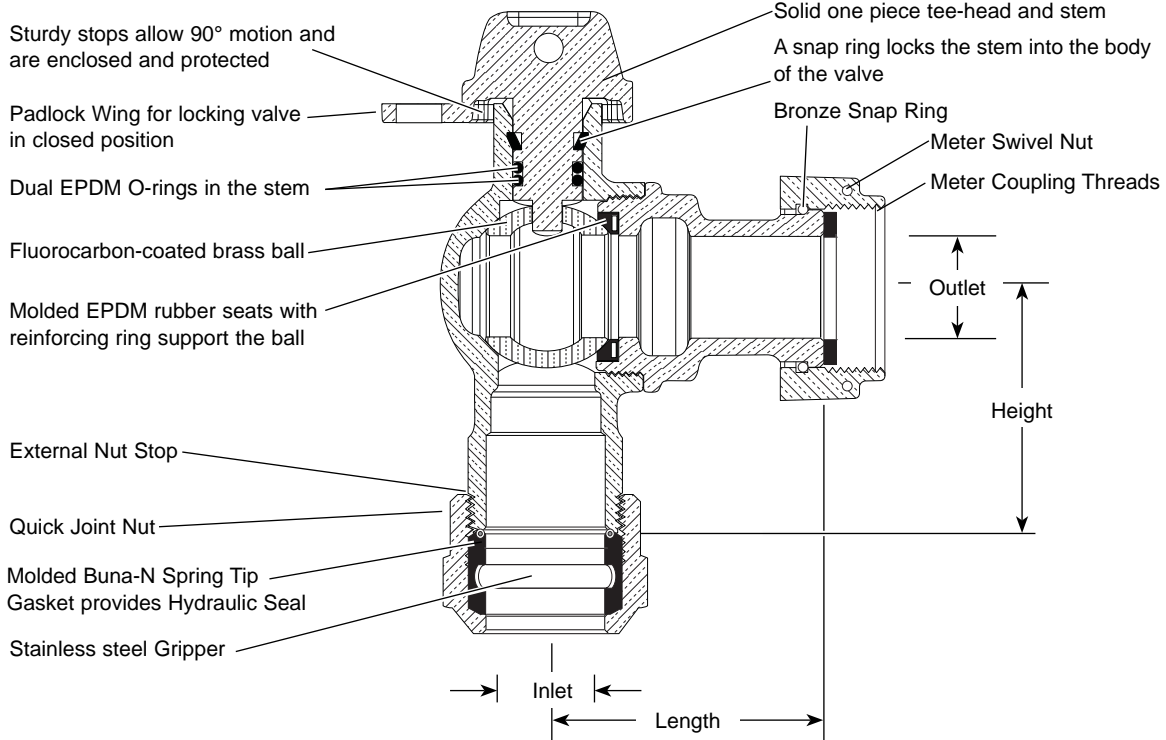
Submitted By:

SUBMITTAL INFORMATION

Angle Ball Meter Valves - (BA43-444W-Q-NL style)



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



VALVE SIZE	SERVICE LINE SIZE INLET	METER SIZE OUTLET	LENGTH	HEIGHT	APPROX. WT. LBS	PART NUMBER	✓ SUBMITTED ITEM(S)
1"	1"	1"	2-43/64"	2-29/64"	3.7	BA43-444W-Q-NL	

Note: Ford recommends using insert stiffeners with plastic pipe or tubing.

FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (ASTM B584, UNS C89833)
- The product has the letters "NL" cast into the main body for lead-free identification
- Certified to NSF/ANSI Standard 61 and NSF/ANSI Standard 372 where applicable
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B62 and ASTM B584, UNS C83600, 85-5-5-5)
- Ends are integral or secured with adhesive to prevent unintentional disassembly
- Hole for attaching handle is provided in tee-head
- 300 PSI working pressure
- Padlock Wing for locking valve in closed position
- Conforms to AWWA C700 for Meter threads
- Meter nut drilled for seal wire

Note: Recommended for inlet side shut-off.

Optional full 360° tee-head rotation. Add "R" to end of part number.

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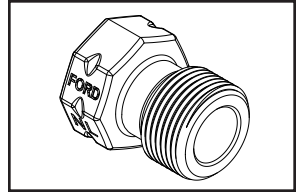
www.fordmeterbox.com

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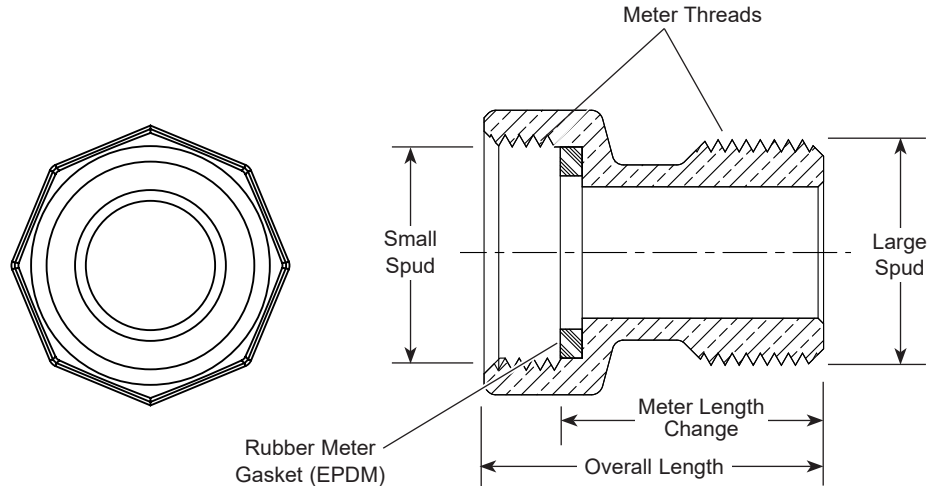
Submitted By:

SUBMITTAL INFORMATION

Meter Adapter - (Axx-NL Extended Body Style)



ADAPTERS TO CHANGE METER SPUD SIZE AND/OR LENGTH (5/8" THROUGH 1")



Due to design variations related to sizing, items may differ from images above.

DESCRIPTION		OVERALL LENGTH	METER LENGTH CHANGE	APPROX. WT. LBS.	PART NUMBER	✓ SUBMITTED ITEM(S)
SMALL SPUD SIZE	LARGE SPUD SIZE					
5/8"	3/4"	1-5/32"	3/4"	0.5	A13-NL	
5/8"	1"	2"	1-5/8"	0.7	A14-NL	
5/8"x3/4"	3/4"	1-15/16"	1-1/2"	0.6	*A23-NL	
5/8"x3/4"	1"	2-1/16"	1-5/8"	1.3	A24-NL	

* Adapter number A23-NL extends the meter length only and therefore only one per meter is required. All other adapters listed are furnished in pairs.

FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (ASTM B584, UNS C89833)
- The product has the letters "NL" cast into the main body for lead-free identification
- Certified to NSF/ANSI Standard 61 and NSF/ANSI Standard 372 where applicable
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B62 and ASTM B584, UNS C83600, 85-5-5-5)
- Meter adapters listed are furnished in pairs with the exception of A23-NL
- Body design provides wrench flats to facilitate installation
- Conforms to AWWA C700 for meter threads

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



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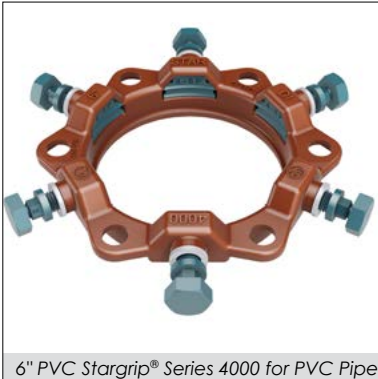
12/15/22

Submitted By:



PVC Stargrip® series 4000

Mechanical Joint Wedge Action Restraint
for Plastic Pressure Pipe



6" PVC Stargrip® Series 4000 for PVC Pipe

SUBMITTAL INFORMATION

PROJECT NAME:

ENGINEER:

CONTRACTOR:

SPEC. SECTION:



FEATURES & ADVANTAGES

- The design has been proven in the market since 1992.
- Can be used on AWWA C900, AWWA C905 PVC pipe, IPS PVC pipe, AWWA C909 PVCO pipe, and HDPE pipe. See pressure rating table for approved DRs and sizes. Plastic pressure pipes manufactured to an IPS diameter regimen will require a transition gasket. HDPE pipe requires use of stainless steel pipe stiffener.
- Gland is made from high strength Ductile Iron per ASTM A536 Grade 65-45-12 and is compatible with all Mechanical Joints conforming to ANSI/AWWA C111/A21.11.
- Eliminates the need for tie rods and thrust blocks
- Listed with Underwriters Laboratories and approved by Factory Mutual research in sizes 4"-12".
- Tested to and meets the requirements of ASTM F1674 through 14".
- The safety factor is twice (2:1) the standardized pressure rating listed on next page.
- Will fit any Mechanical Joint configuration, meaning compatibility with different types of installations.
- PVC Stargrip® offers 5° deflection through 12", 3° on 14"-24" and 2° on 30"-36".
- Larger ID allows easier installation on out-of-round pipe.
- Torque limiting bolts are designed to prevent over torquing.
- All sizes have curved wedges that do not flatten pipe.
- Standard gland color is Coral Red (RAL 3016).

MATERIAL SPECIFICATIONS:

- Gland: Ductile Iron per ASTM A536, Grade 65-45-12
- Wedges: Ductile Iron per ASTM A536, Grade 65-45-12
 - ♦ Wedge Finish: Thermally cured fluoropolymer epoxy coating

GLAND FINISH OPTIONS (Please check one):

- Standard: alkyd enamel coating
- Optional: Starbond™ TGIC polyester powder coating applied by an electrostatic spray process
- Optional: Other (specify) _____

COUNTRY OF ORIGIN OPTION (Please check one):

- Import
 - 100% Domestic¹
 - Domestic gland with import components¹
- ¹(Please see [Domestic Restraint Options Available](#) on our website.)

HARDWARE OPTIONS (Please check):

- Standard: T-bolts and nuts are high strength low alloy steel manufactured in accordance with ANSI/AWWA C111/A21.11
- Optional: T-bolts alloy SS 304 per ASTM F593; Nuts alloy SS 304 per ASTM F594 CW
- Optional: T-bolts SS 316 per ASTM F593; Nuts SS 316 per ASTM A194 Grade 8M
- Optional: T-bolts and nuts Fluoropolymer Star-Blue coated high strength low alloy steel manufactured in accordance with ANSI/AWWA C111/A21.11

STAR® PIPE PRODUCTS





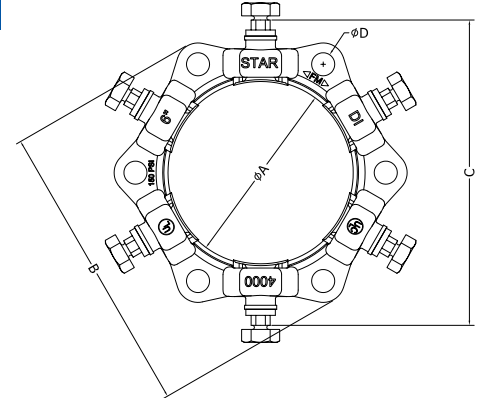
PVC Stargrip® series 4000

Mechanical Joint Wedge Action Restraint
for Plastic Pressure Pipe

TECHNICAL INFORMATION

Please check sizes:

PVC STARGRIP® 4000 SPECIFICATIONS*							
NOM. SIZE	ØA	B	C¹	ØD	T-BOLTS SIZE (QTY)	WEDGES (QTY)	APPROX WT. (LBS)
3	4.09	7.69	8.50	3/4	5/8 (4)	4	7
4	4.93	9.12	9.53	7/8	3/4 (4)	4	9
6	7.03	11.12	11.63	7/8	3/4 (6)	6	13
8	9.18	13.37	13.97	7/8	3/4 (6)	6	17
10	11.23	15.62	16.18	7/8	3/4 (8)	8	23
12	13.33	17.87	18.18	7/8	3/4 (8)	8	28
14	15.45	20.75	20.36	7/8	3/4 (10)	10	50
16	17.55	23.00	22.46	7/8	3/4 (12)	12	60
18	19.65	25.25	24.56	7/8	3/4 (12)	12	65
20	21.75	27.50	26.66	7/8	3/4 (14)	14	76
24	25.95	32.00	30.86	7/8	3/4 (16)	16	98
30	32.18	39.38	36.82	1-1/8	1 (20)	20	173
36	38.48	46.25	43.12	1-1/8	1 (24)	24	219



6" PVC Stargrip® Series 4000

*All dimensions in inches except where indicated.
1 - dimension after assembly on pipe

Table A. Maximum Working Pressure Rating with Occasional or Recurring Surges in PSI for Plastic Pipes Made to a CIOD Diameter Regimen

NOM. SIZE (IN)	Actual Plastic Pipe OD	AWWA C900 PVC			AWWA C905 PVC				AWWA C909 PVCO			AWWA C906 HDPE*					
		DR14	DR18	DR25	DR18	DR21	DR25	DR32.5	IPEX PVCO	JM EAGLE PVCO	PC165	DR 7.3	DR 9	DR 9.3	DR11	DR13.5	DR17
4	4.80	305	235	165					235			254	200	193	160	130	100
6	6.90	305	235	165					235	235		254	200	193	160	130	100
8	9.05	305	235	165					235	235		254	200	193	160	130	100
10	11.10	305	235	165					235	235		254	200	193	160	130	100
12	13.20	305	235	165					235	235		254	200	193	160	130	100
14	15.30				235	200	165	125	235				200	193	160		
16	17.40				235	200	165	125	235		165				160		
18	19.50				235	200	165	125	200						160		
20	21.60				235	200	165	125									
24	25.80				235	200	165	125									
30	32.00						165	125									
36	38.30						165	125									

* A stainless steel pipe stiffener (provided by others) is required for the Series 4000 to be installed on HDPE pressure pipe. The stiffener must be installed in the HDPE pipe before installing the Series 4000. The stainless steel pipe stiffener must be of sufficient length to support the full bearing length of the restrainer.

Table B. Maximum Working Pressure Rating with Occasional or Recurring Surges in PSI for Plastic Pipes Made to an IPS Diameter Regimen

NOM. SIZE (IN)	Actual Plastic Pipe OD	ASTM D2241 PVC			AWWA C901 and AWWA C906 HDPE**						
		SDR17	SDR21	SDR26	DR 7.3	DR 9	DR 9.3	DR11	DR13.5	DR17	
3	3.50	250	200	160	254	200			160	130	100
4	4.50	250	200	160	254	200	193		160	130	100
6	6.63	250	200	160	254	200	193		160	130	100
8	8.63	250	200	160	254	200	193		160	130	100
10	10.75	250	200	160	254	200	193		160	130	100
12	12.75	250	200	160	254	200	193		160	130	100

NOTE: A transition gasket is required for use with pipes made to an IPS diameter regimen.

** A stainless steel pipe stiffener (provided by others) is required for the Series 4000 to be installed on HDPE pressure pipe. The stiffener must be installed in the HDPE pipe before installing the Series 4000. The stainless steel pipe stiffener must be of sufficient length to support the full bearing length of the restrainer.

STAR® PIPE PRODUCTS