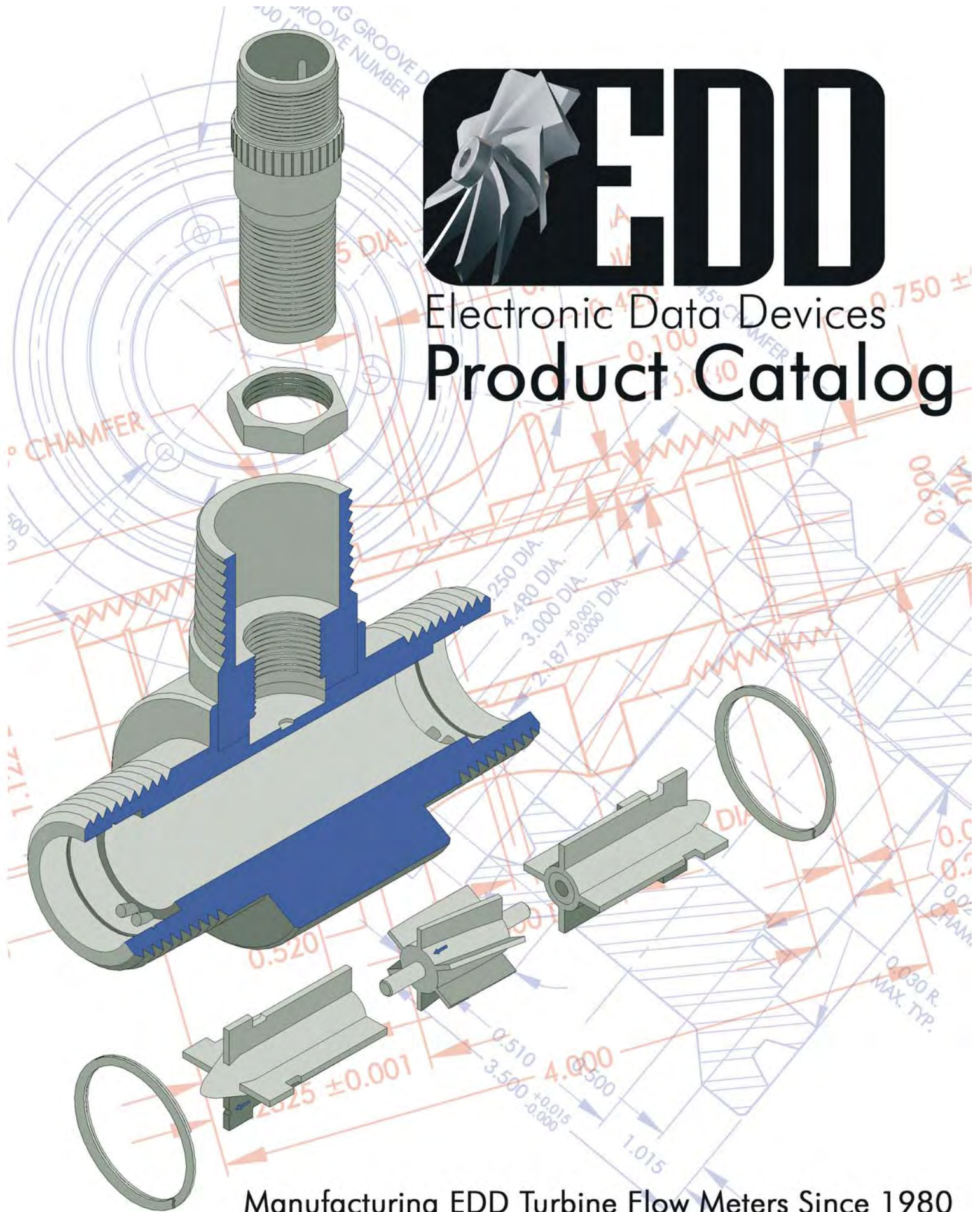




Electronic Data Devices
Product Catalog



Manufacturing EDD Turbine Flow Meters Since 1980

The information in this document is reviewed regularly and any necessary changes will be incorporated in the next revision.
We welcome any suggestions for improvement.

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Turbine Flow Meters
Flow Range

Size								Max Output	
Inch	MM	GPM	BPM	BPD	LPM	M ³ /D	Pulses P/Gal	Frequency Pulses P/ Sec	
3/8	10	.3 - 3	.007 - .07	10 - 100	1.14 - 11.36	1.6 - 16	22000	1100	
1/2	13	.75 - 7.5	.01 - .17	25 - 250	2.84 - 28.39	4 - 40	14500	1815	
3/4	19	2 - 15	.05 - .33	68 - 515	7.57 - 56.78	11 - 80	2950	740	
7/8	22	3 - 30	.07 - .71	100 - 1000	11.36 - 113.56	16 - 160	2350	1175	
1	25	5 - 50	.11 - 1.19	170 - 1700	18.93 - 189.27	27 - 270	900	750	
1 1/2	38	15 - 180	.35 - 4.3	515 - 6000	56.78 - 681.35	80 - 1100	325	975	
2	51	40 - 400	.9 - 9.3	1300 - 13000	151 - 1514	210 - 2100	55	365	
3	76	60 - 600	1.4 - 14.3	2100 - 21000	227 - 2271	320 - 3200	57	570	
4	102	100 - 1200	2.4 - 28.5	3400 - 41000	380 - 4542	545 - 6541	30	600	
6	152	200 - 2500	4.7 - 60	6800 - 86000	757 - 9464	1090 - 13628	7	290	
8	203	350 - 3500	8.3 - 83	12000 - 120000	1325 - 13250	1907 - 19078	3	175	
10	550	550 - 5500	13 - 130	19000 - 180000	1892 - 18926	2725 - 27255	1.6	147	

Material Specifications

Flow Meter Body	316 S.S. or A-286 Alloy
Support Vanes	316 S.S.
Rotor	CD4MCu
Sleeve Bearings	Tungsten Carbide
Shaft	Tungsten Carbide
Thrust Ball	Ceramic
Performance Specifications	
Repeatability	Within $\pm 0.1\%$ of indicated flow throughout the linear flow range
Accuracy	Within $\pm 1\%$ of reading Note 3/8" $\pm 2\%$



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Turbine Flow Meters

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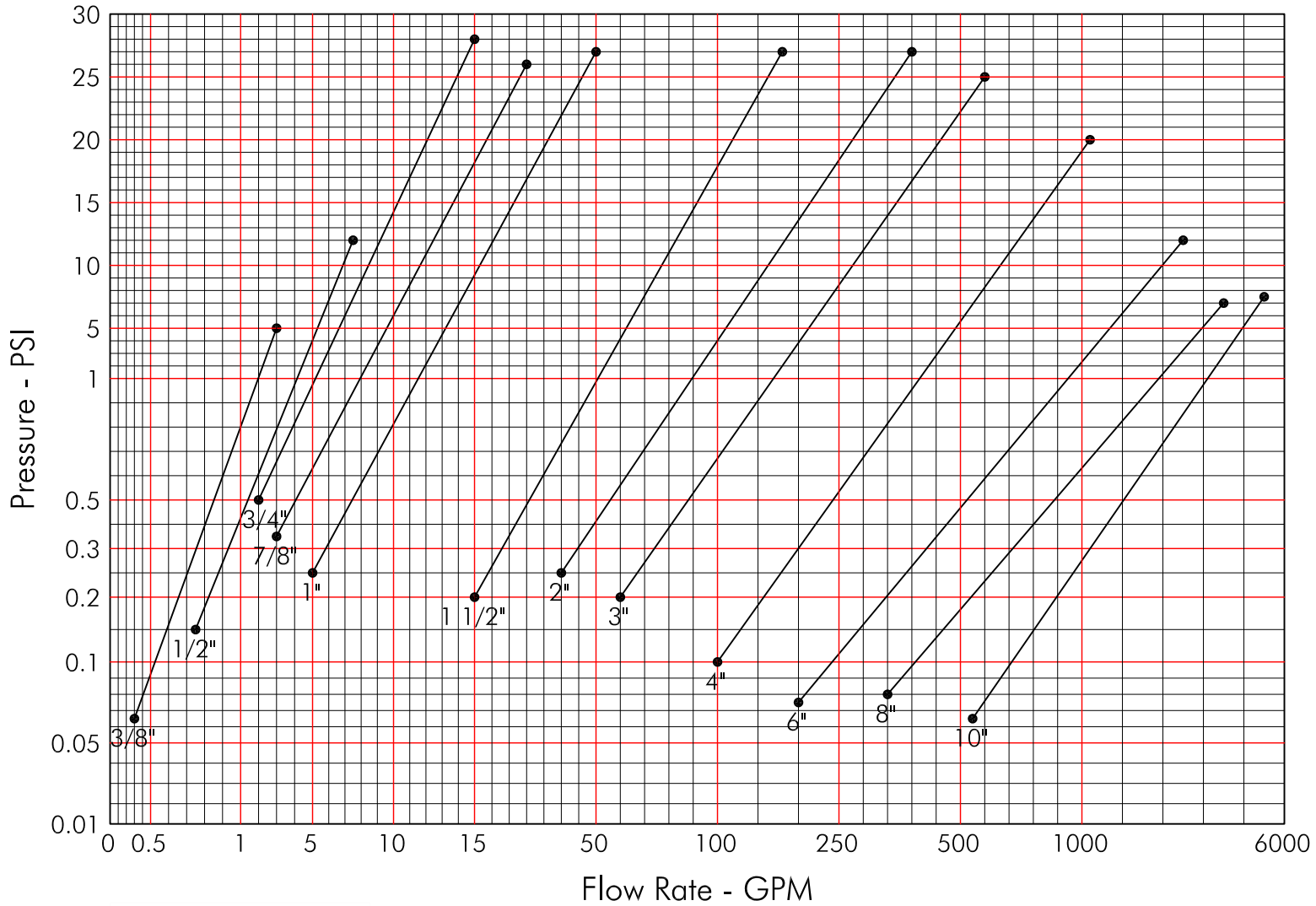
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Pressure Drop Curves



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Electronic Data Devices

Turbine Flow Meters



BF Series Meter Repair Kits

Electronic Data Devices offers a broad line of turbine flow meter repair kits designed for EDD meters and other popular brands. The kits are available for flow ranges of 0.3 to 5000 GPM. Electronic Data Devices kits fit meter sizes of 3/8" to 10".

Our repair kits are manufactured to the highest quality standards. The repair kits are manufactured of 316SS and CD4MCu for the rotors. Bearings are tungsten carbide and ceramic. The kits are calibrated in pulses per gallon for each kit. The kits may be used in a wide range of applications including: oilfield waterflood, production, well servicing, pipelines, mining, chemicals, food and beverage industry and most other liquid applications.

Repeatability: Within $\pm 0.1\%$ of indicated flow throughout the linear flow range.

Accuracy: Within $\pm 1\%$ of the reading Note: 3/8" $\pm 2\%$ of the reading.

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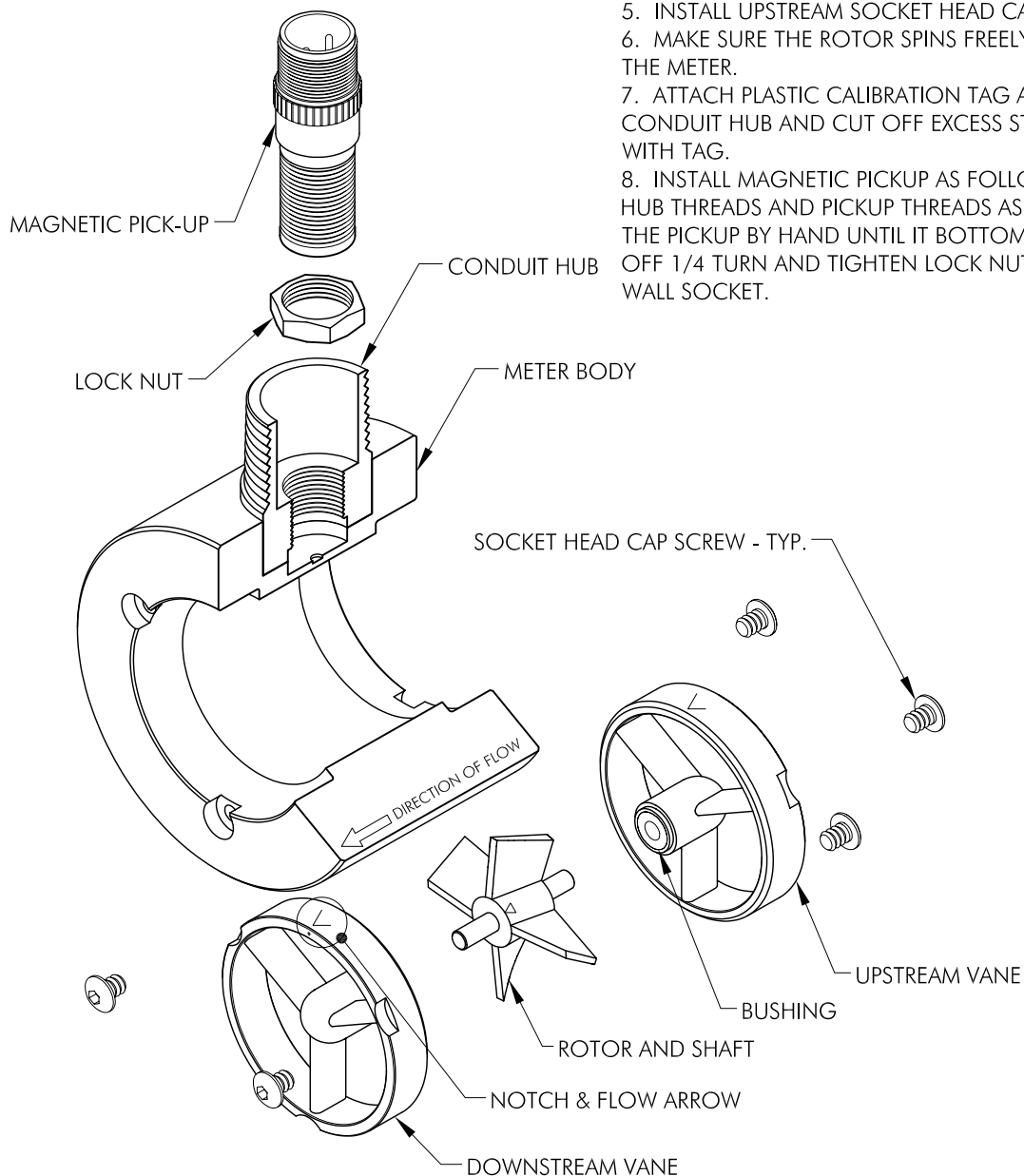
Between Flange & Ring Joint Repair Kit Installation Instructions

KIT REMOVAL

1. REMOVE MAGNETIC PICKUP BY LOOSENING LOCK NUT USING 3/4" THIN WALL SOCKET, THEN UNSCREW FROM METER BODY. THIS PROCEDURE WILL HELP TO PREVENT PICKUP DAMAGE DURING THE REPAIR PROCEDURE.
2. REMOVE SOCKET CAP SCREWS FROM BOTH ENDS OF METER USING HEX KEY.
3. REMOVE UPSTREAM AND DOWNSTREAM VANES, TAPPING WITH SOFT ROD IF NECESSARY TO DRIVE OUT VANES.
4. REMOVE ROTOR FROM BODY.
5. CLEAN THE METER BODY BORE AS REQUIRED BRINGING IT BACK TO A LIKE NEW CONDITION.
6. CLEAN SCREW HOLES AND COUNTER BORE FOR VANE TO ALLOW THE VANE TO PROPERLY SEAT.

KIT INSTALLATION

1. INSTALL DOWNSTREAM VANE SO ARROW ON VANE CORRESPONDS WITH DIRECTIONAL ARROW ON THE METER BODY. THE DIRECTIONAL ARROW AND NOTCH ON THE VANE SHOULD ALIGN WITH THE TOP OF THE METER BODY, WHERE THE CONDUIT HUB IS LOCATED.
2. INSTALL THE DOWNSTREAM SOCKET HEAD CAP SCREWS.
3. INSTALL ROTOR BEING SURE THE ARROW IS PROPERLY ALIGNED, AND THE SHAFT SEATED IN THE VANE BUSHING.
4. INSTALL UPSTREAM VANE, ALIGNING THE VANE THE SAME AS THE DOWNSTREAM VANE. SPIN THE ROTOR TO ALLOW SHAFT TO EASILY ENTER THE VANE BUSHING. *DO NOT USE FORCE TO PUSH THE VANE BEARING OVER THE ROTOR SHAFT.*
5. INSTALL UPSTREAM SOCKET HEAD CAP SCREWS.
6. MAKE SURE THE ROTOR SPINS FREELY BEFORE INSTALLING THE METER.
7. ATTACH PLASTIC CALIBRATION TAG AROUND THE CONDUIT HUB AND CUT OFF EXCESS STRAP LENGTH FLUSH WITH TAG.
8. INSTALL MAGNETIC PICKUP AS FOLLOWS: CLEAN PICKUP HUB THREADS AND PICKUP THREADS AS NEEDED. SCREW IN THE PICKUP BY HAND UNTIL IT BOTTOMS OUT, THEN BACK OFF 1/4 TURN AND TIGHTEN LOCK NUT WITH 3/4" THIN WALL SOCKET.



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