

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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January 2004



Electronic Data Devices

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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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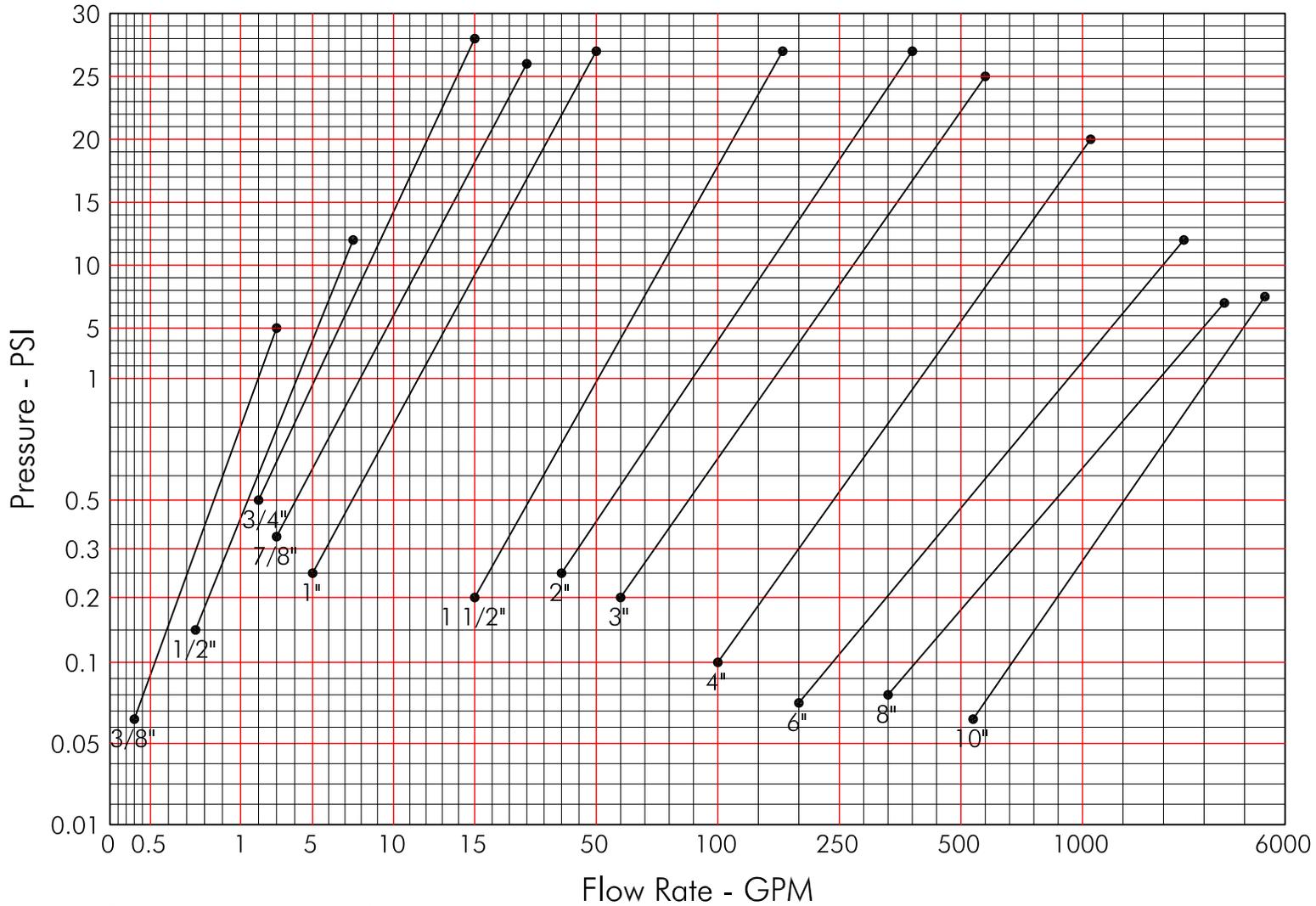
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Pressure Drop Curves



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Turbine Flow Meters

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Electronic Data Devices

Turbine Flow Meters



Threaded Turbine Flow Meters

Electronic Data Devices manufactures a complete line of turbine flow meters that are available with ranges from 0.3 GPM to 5500 GPM covering a wide range of measurement applications. Our turbine flow meters are manufactured to the highest quality standards and are available with a wide range of end connections compatible with many applications. Some of the typical applications include: oilfield waterflood, production, well servicing, pipelines, mining, chemicals, food and beverage industry, and most other liquid applications.

Threaded meters are available in the sizes below.

All threaded meters have a working pressure of 5000 psi except 3" and 4", which are 3000 psi.

.37" X 1"-MNPT	.75" X 2" MNPT	1" X 1"-MNPT	1.5" X 2" MNPT	3" X 3" FMNPT
.50" X 1" MNPT	.87" X 1" MNPT	1" X 2" MNPT	2" X 2" FMNPT	4" X 4" FMNPT
.75" X 1" MNPT	.87" X 2" MNPT	1.5" X 1.5" MNPT		

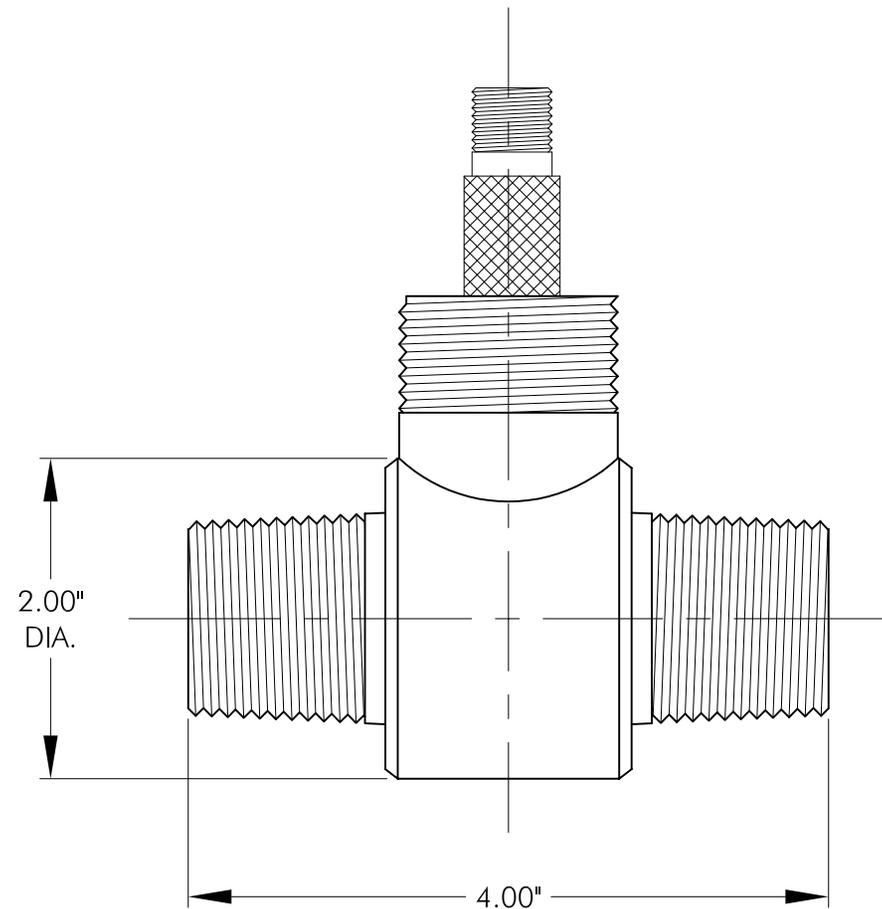
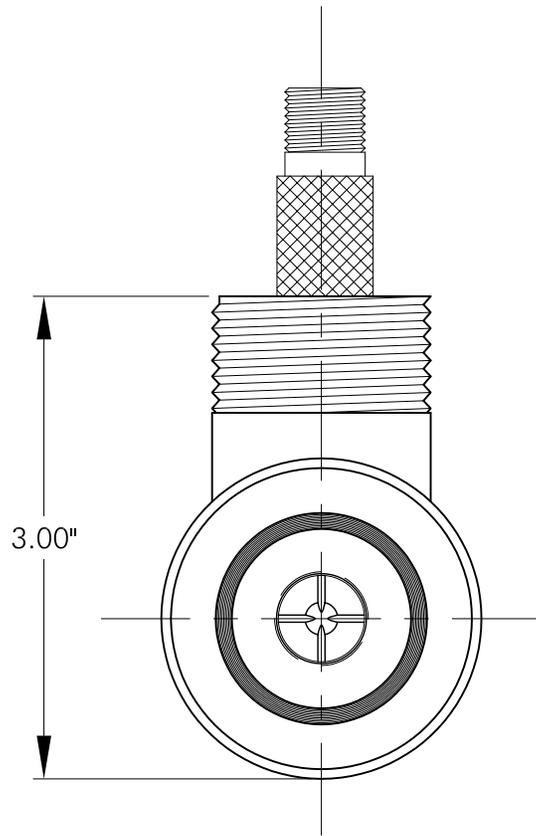
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 0.3-3 GPM

PRESSURE RATING: 5000 PSI

NOTE:

3/8" TURBINE REPAIR KIT PART NUMBER: 5.037

FLOW METER INSTALLATION DRAWING

3/8" x 1" TURBINE FLOW METER WITH 1" N.P.T. MALE ENDS, PART NO. 5.0370R

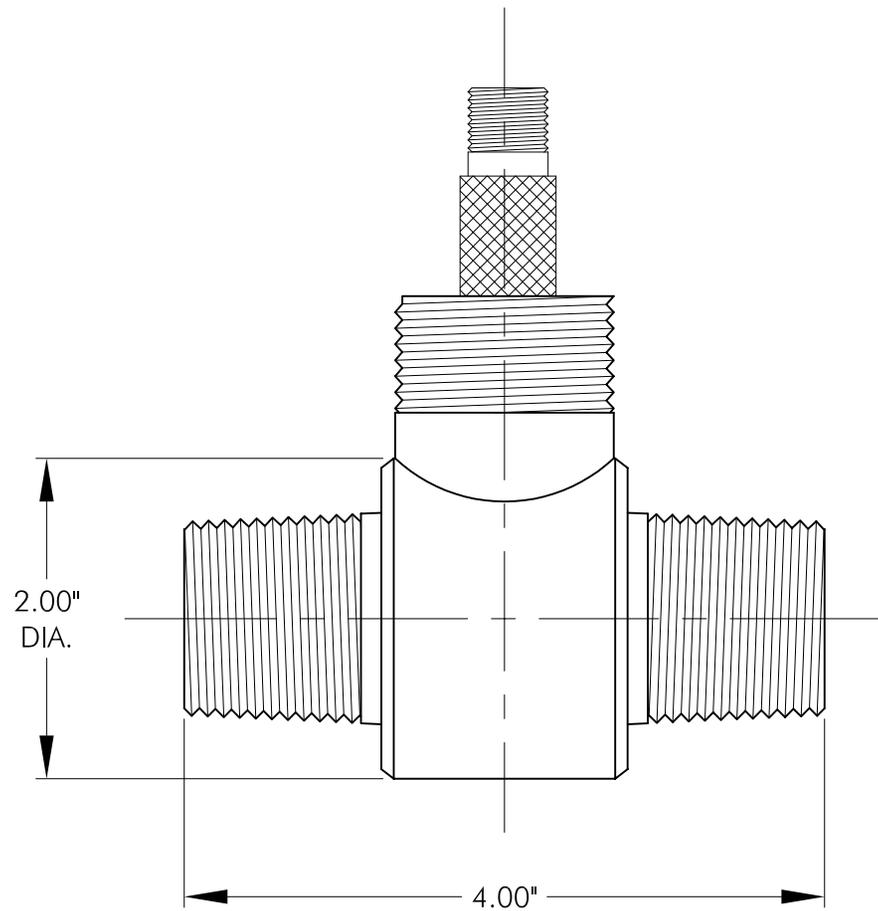
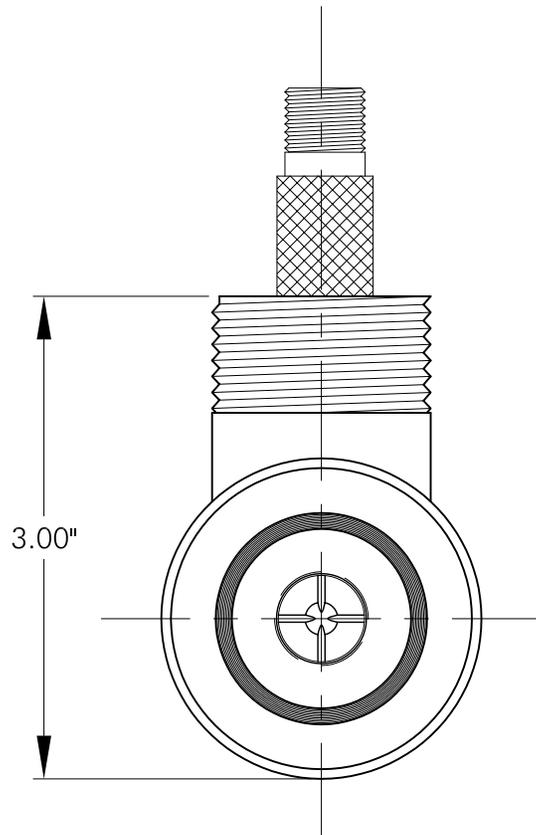
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 0.75-7.5 GPM

PRESSURE RATING: 5000 PSI

NOTE:

1/2" TURBINE REPAIR KIT PART NUMBER: 5.050

FLOW METER INSTALLATION DRAWING

1/2" x 1" TURBINE FLOW METER WITH 1" N.P.T. MALE ENDS, PART NO. 5.0500R

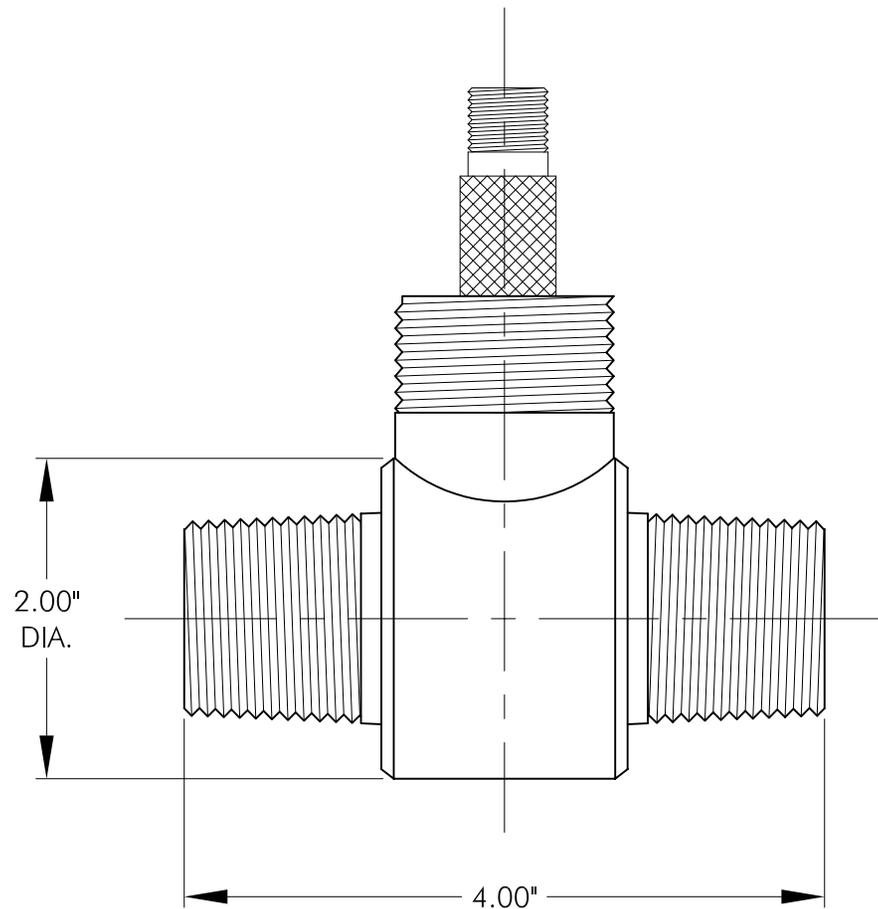
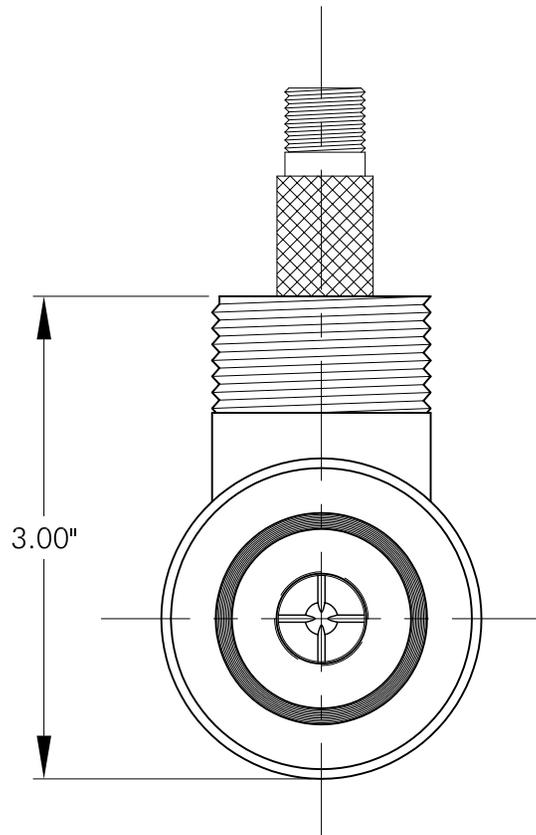
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 2-15 GPM

PRESSURE RATING: 5000 PSI

NOTE:

3/4" TURBINE REPAIR KIT PART NUMBER: 5.075

FLOW METER INSTALLATION DRAWING

3/4" x 1" TURBINE FLOW METER WITH 1" N.P.T. MALE ENDS, PART NO. 5.0750R

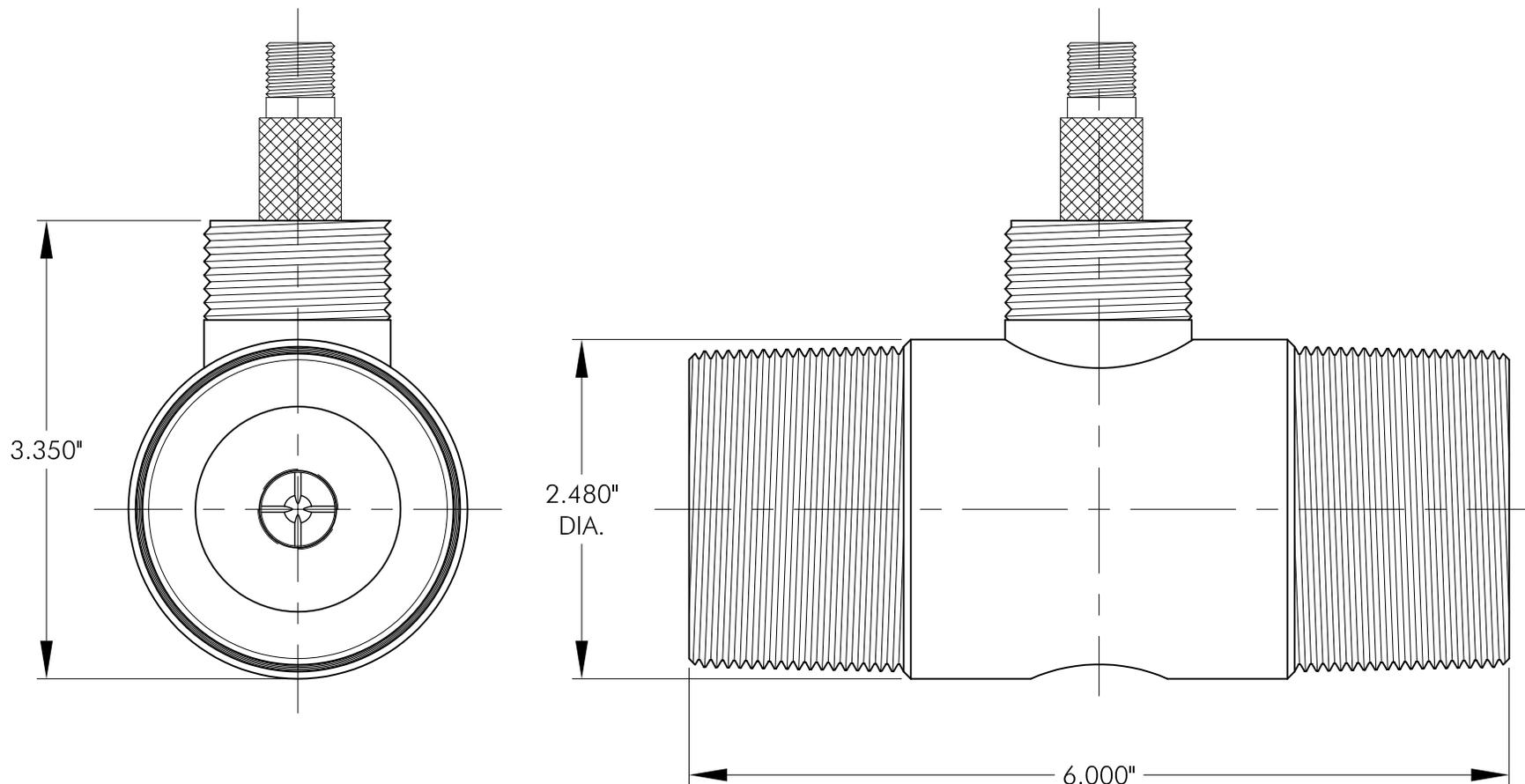
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 2-15 GPM

PRESSURE RATING: 5000 PSI

NOTE:

3/4" TURBINE REPAIR KIT PART NUMBER: 5.075

FLOW METER INSTALLATION DRAWING

3/4" x 2" THREADED FLOW METER WITH 2" N.P.T. MALE ENDS, PART NO. 5.07502

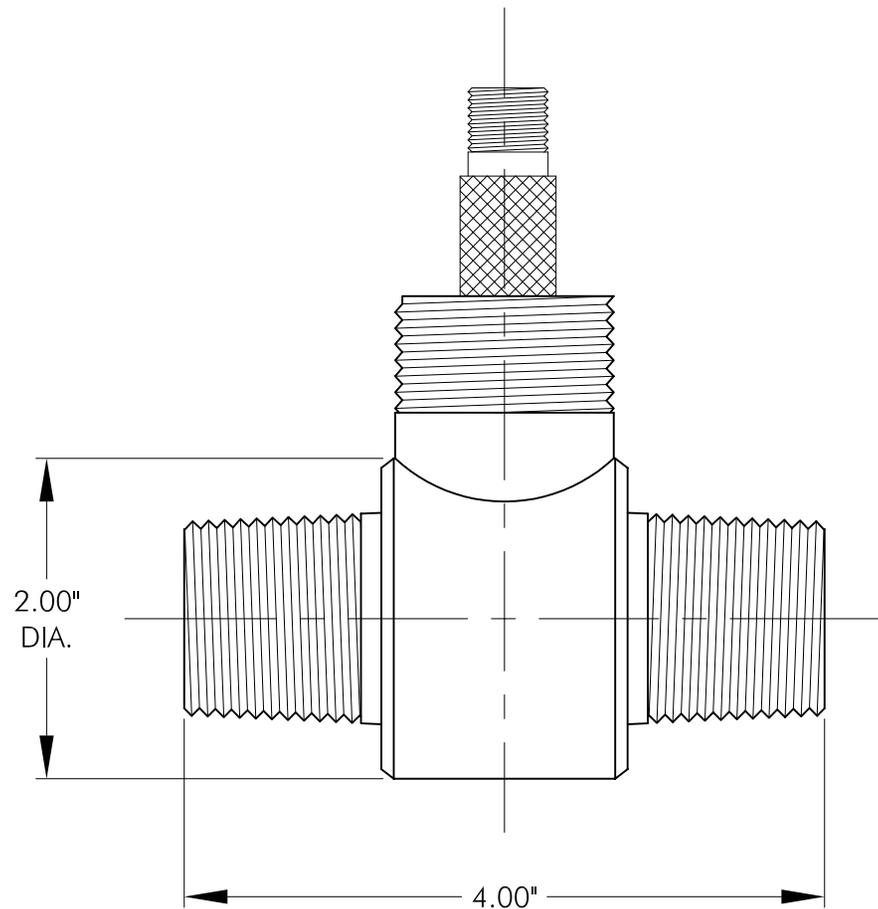
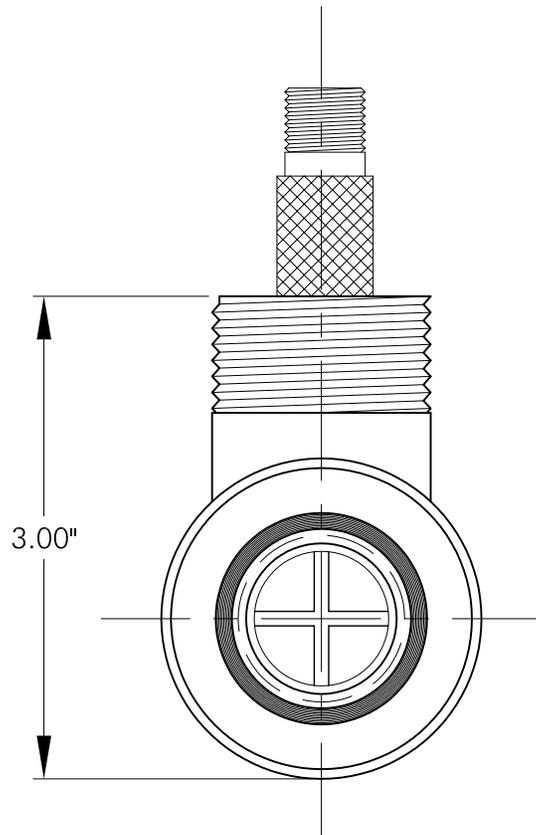
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 3-30 GPM

PRESSURE RATING: 5000 PSI

NOTE:

7/8" TURBINE REPAIR KIT PART NUMBER: 5.087

FLOW METER INSTALLATION DRAWING

7/8" x 1" TURBINE FLOW METER WITH 1" N.P.T. MALE ENDS, PART NO. 5.0875R

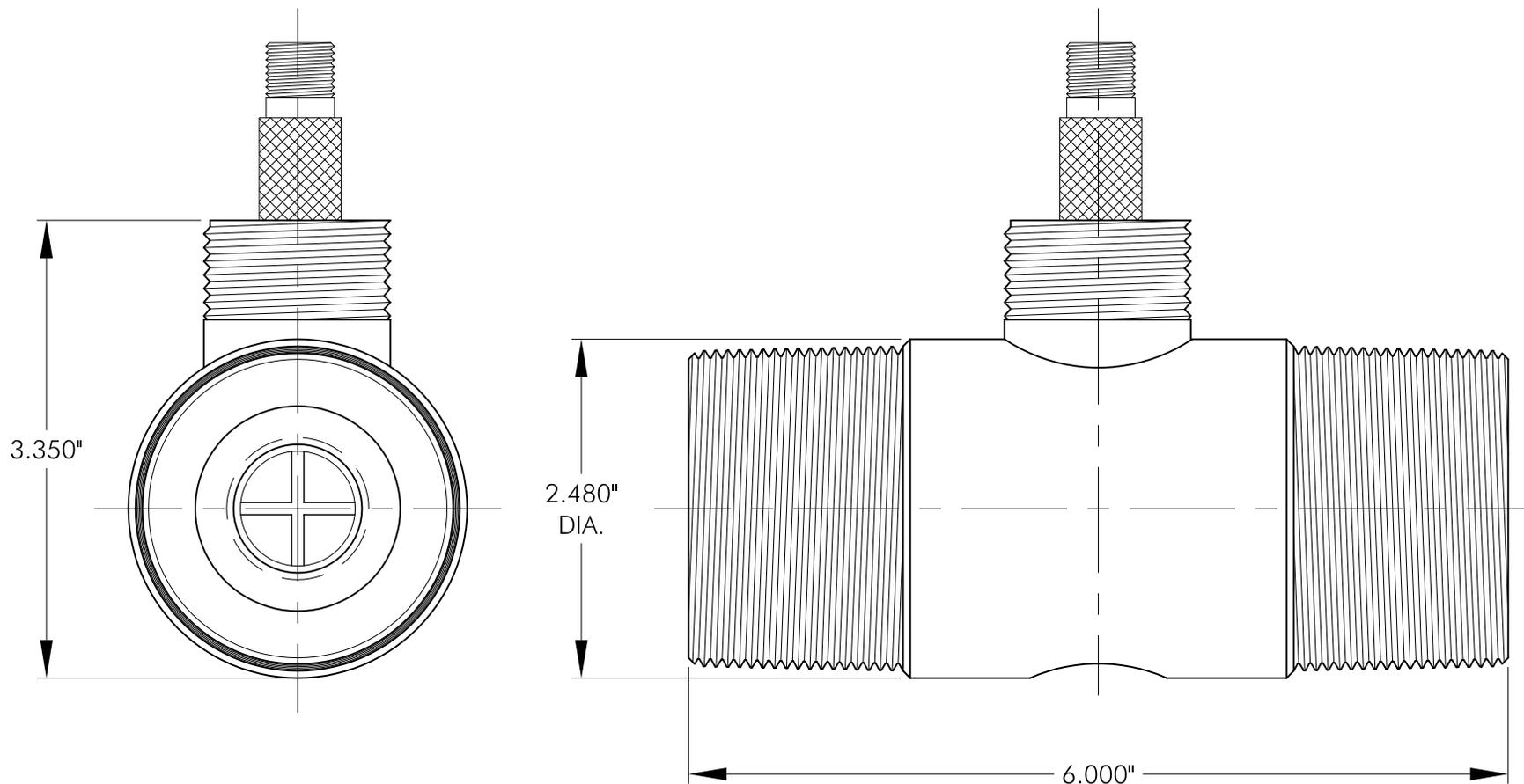
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 3-30 GPM

PRESSURE RATING: 5000 PSI

NOTE:

7/8" TURBINE REPAIR KIT PART NUMBER: 5.087

FLOW METER INSTALLATION DRAWING

7/8" x 2" THREADED FLOW METER WITH 2" N.P.T. MALE ENDS, PART NO. 5.08752

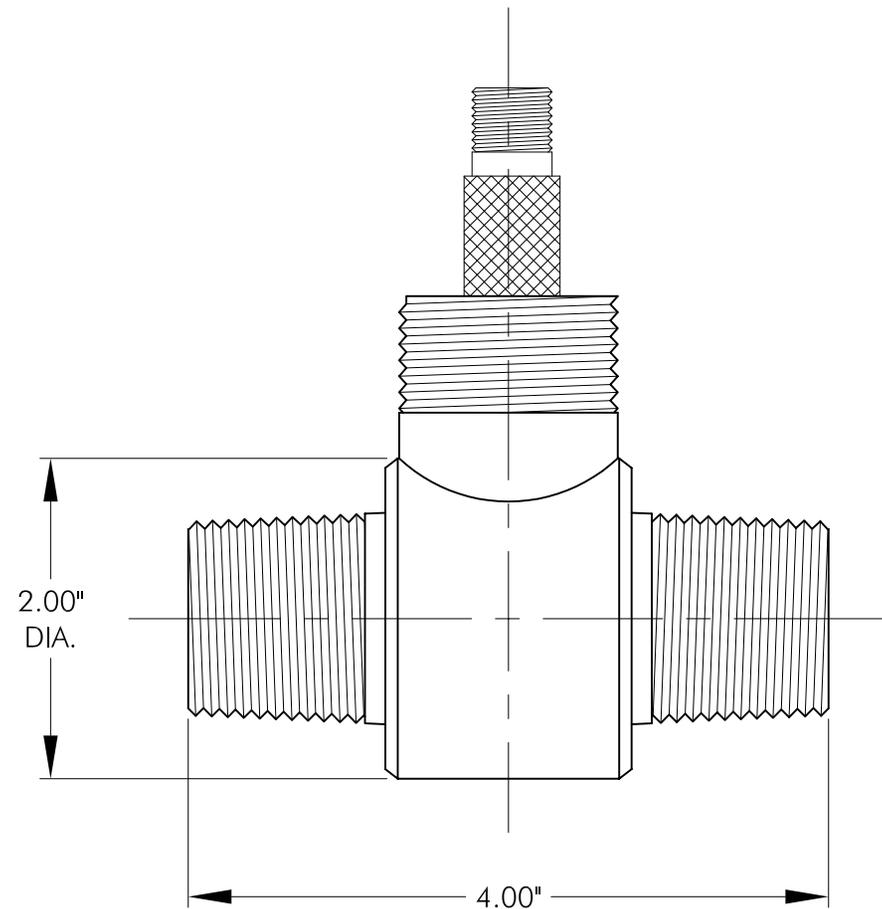
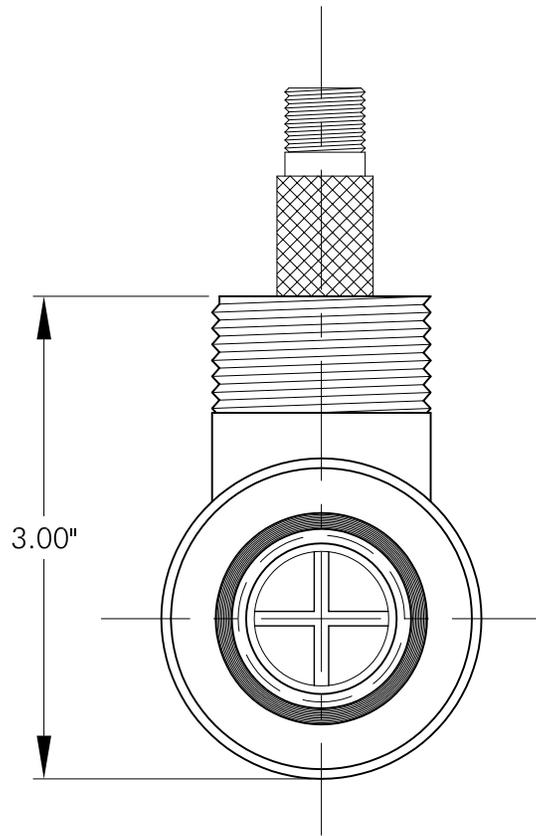
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NOTE: DRAWING NOT TO SCALE

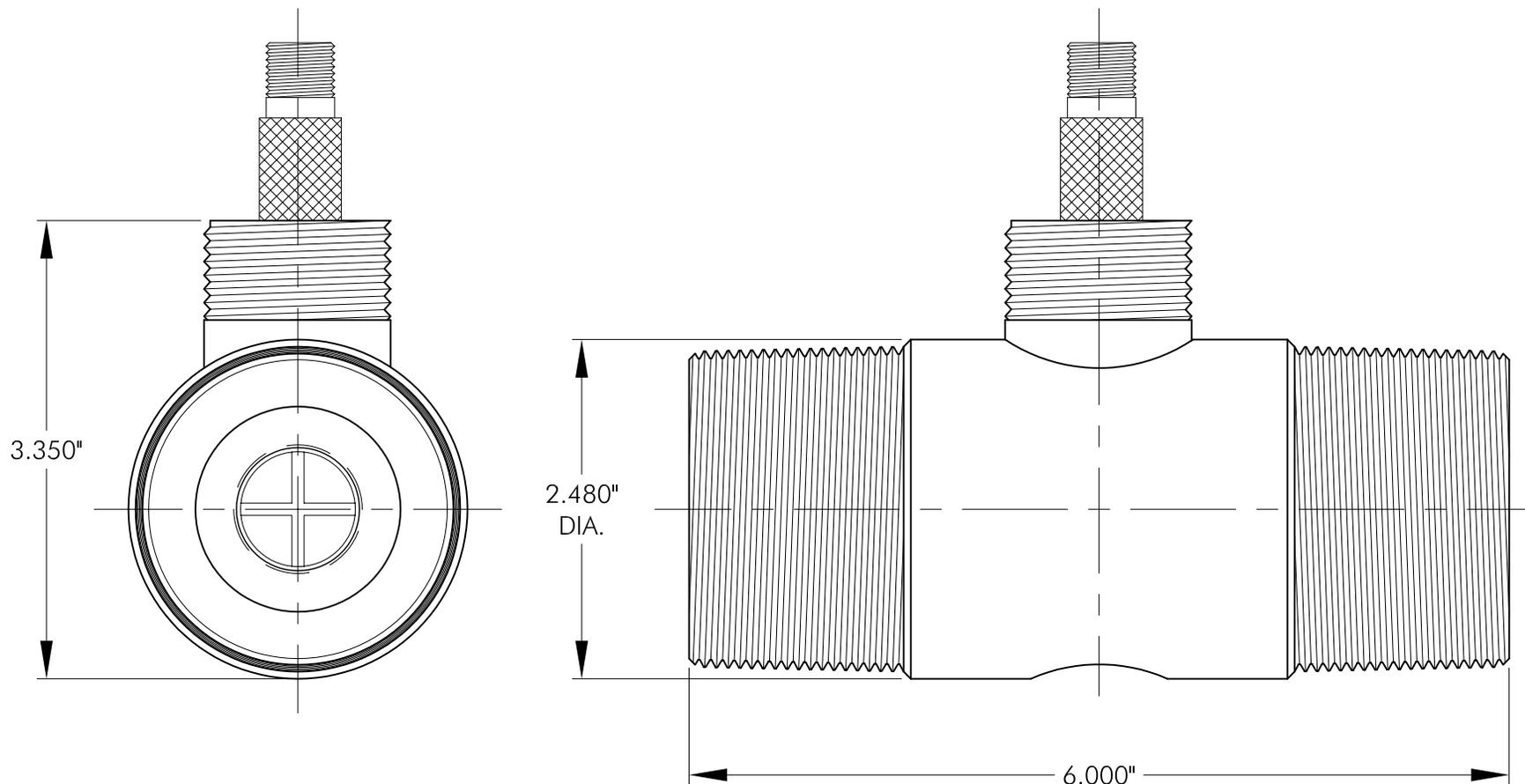
SPECIFICATIONS:
 FLOW RATE: 5-50 GPM
 PRESSURE RATING: 5000 PSI

NOTE:
 1" TURBINE REPAIR KIT PART NUMBER: 5.100

FLOW METER INSTALLATION DRAWING
 1" TURBINE FLOW METER WITH 1" N.P.T. MALE ENDS, PART NO. 5.1000R

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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 5-50 GPM

PRESSURE RATING: 5000 PSI

NOTE:

1" TURBINE REPAIR KIT PART NUMBER: 5.100

FLOW METER INSTALLATION DRAWING

1" x 2" THREADED FLOW METER WITH 2" N.P.T. MALE ENDS, PART NO. 5.1020

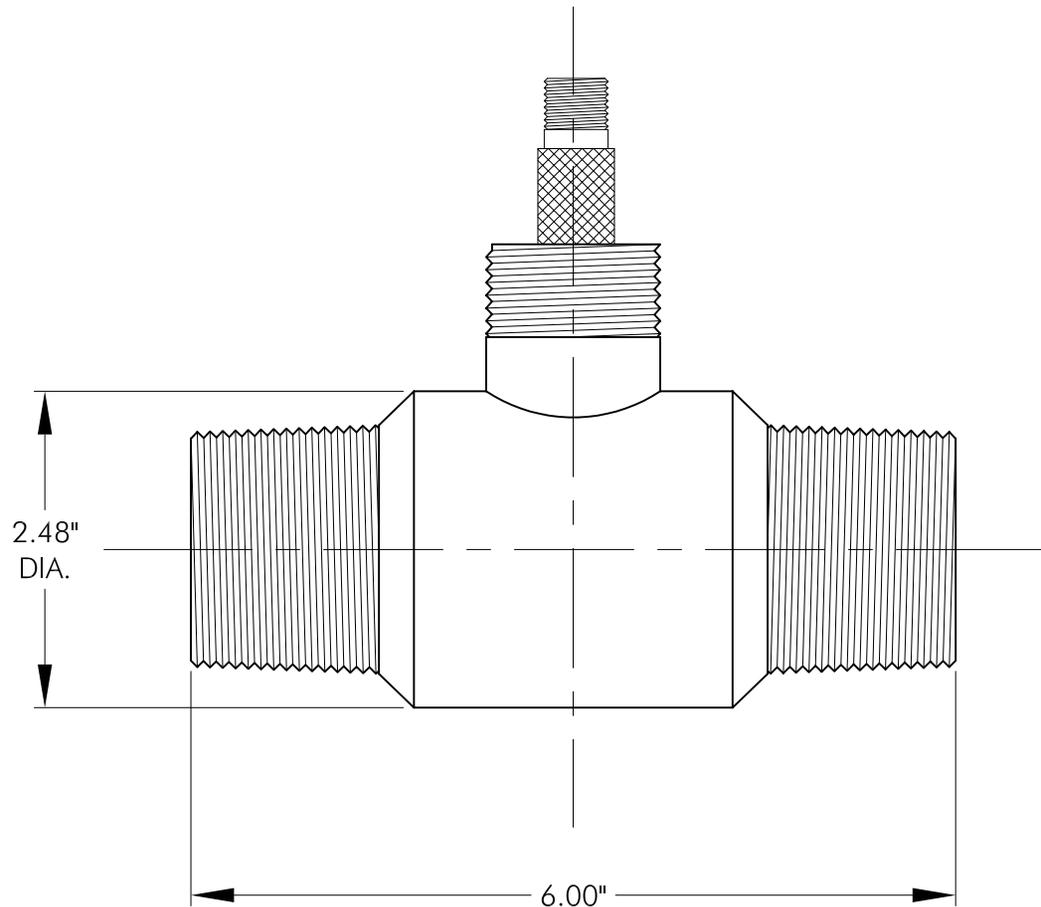
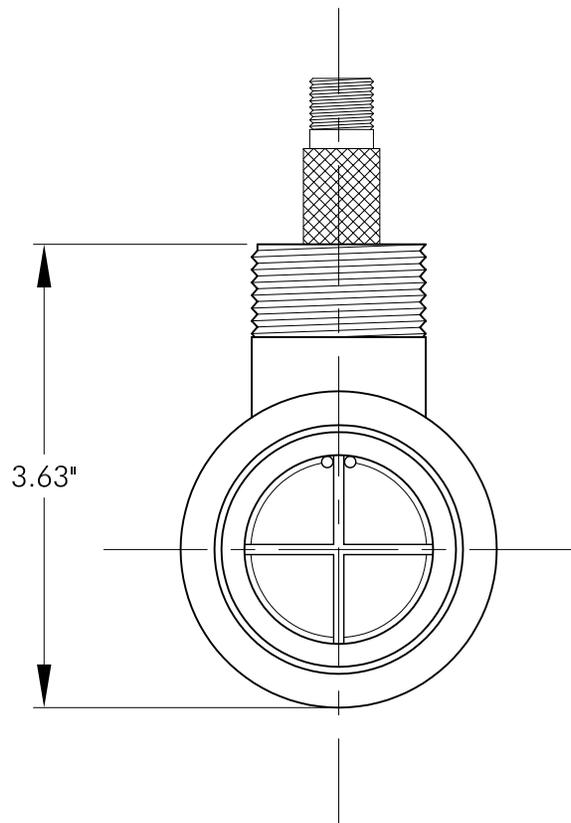
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 15-180 GPM

PRESSURE RATING: 5000 PSI

NOTE:

1.5" TURBINE REPAIR KIT PART NUMBER: 5.150

FLOW METER INSTALLATION DRAWING

1.5" x 1.5" TURBINE FLOW METER WITH 1.5" N.P.T. MALE ENDS, PART NO. 5.1500

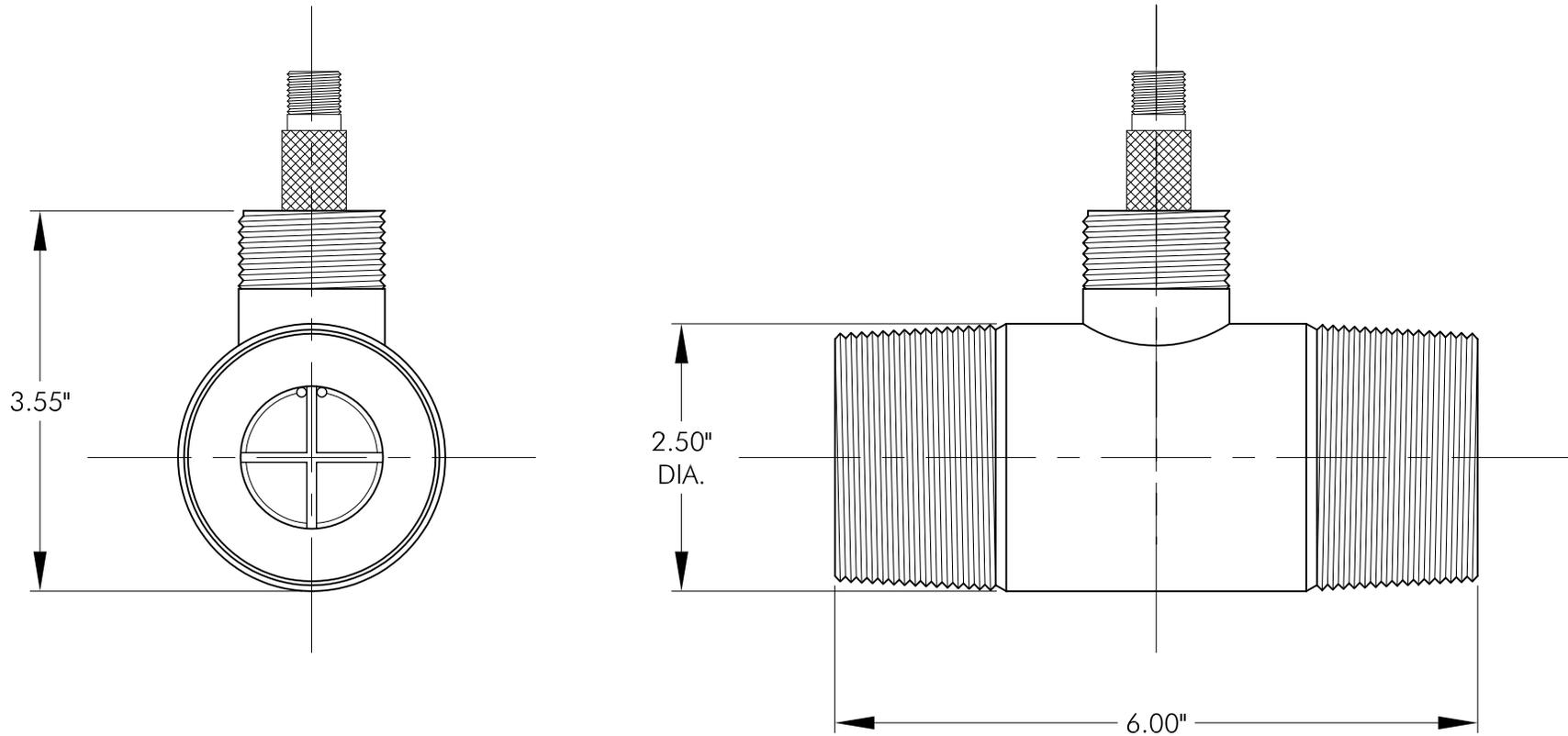
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 15-180 GPM

PRESSURE RATING: 5000 PSI

NOTE:

1.5" TURBINE REPAIR KIT PART NUMBER: 5.150

FLOW METER INSTALLATION DRAWING

1.5" x 2" TURBINE FLOW METER WITH 2" N.P.T. MALE ENDS, PART NO. 5.1520

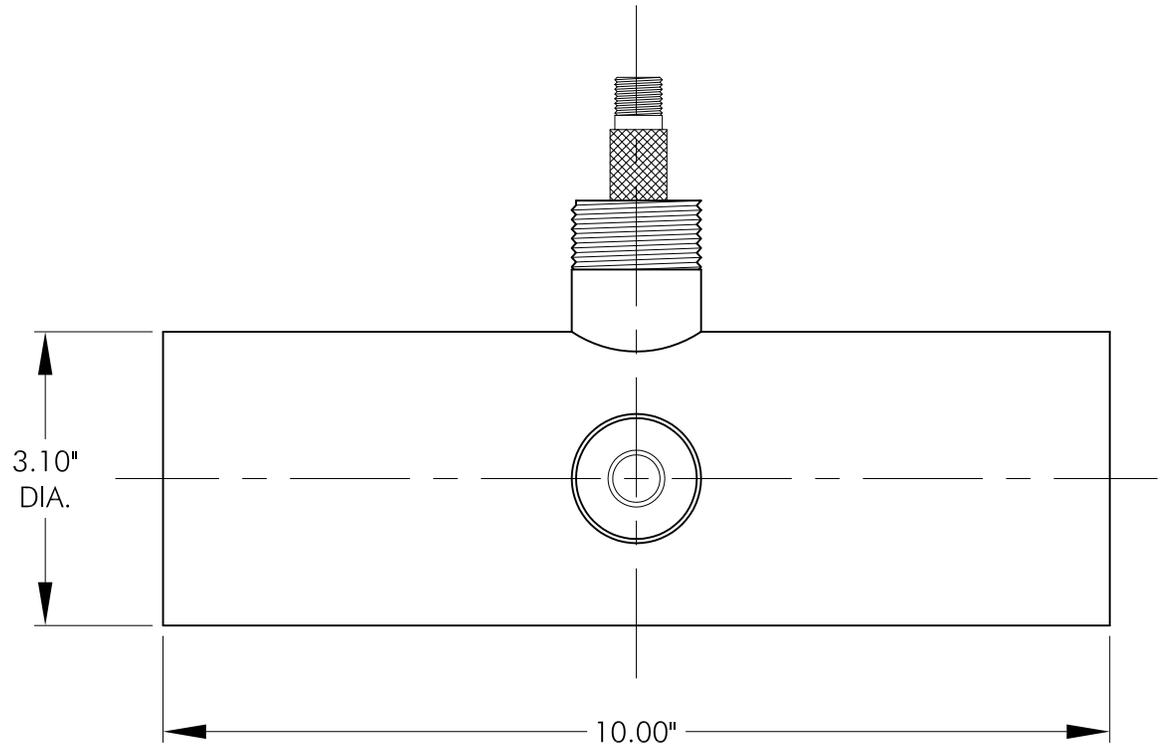
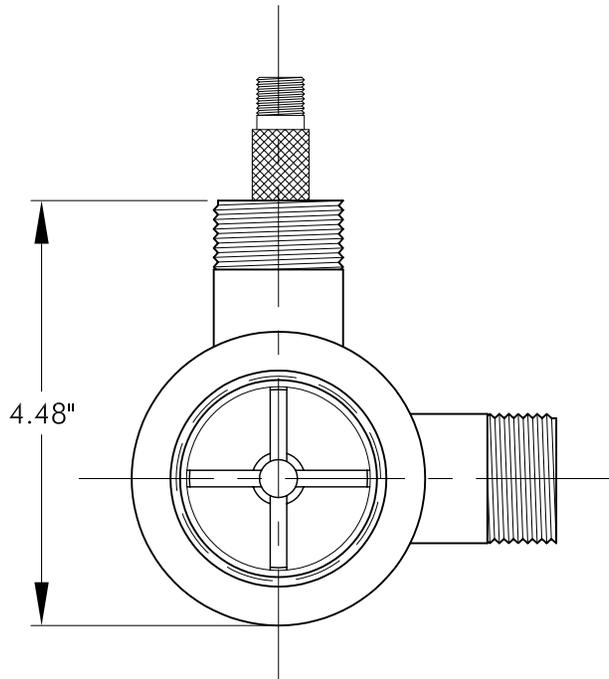
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 40-400 GPM

PRESSURE RATING: 5000 PSI

NOTE:

2" TURBINE REPAIR KIT PART NUMBER: 5.250

FLOW METER INSTALLATION DRAWING

2" x 2" TURBINE FLOW METER WITH 2" FEMALE N.P.T. ENDS, PART NO. 5.2000

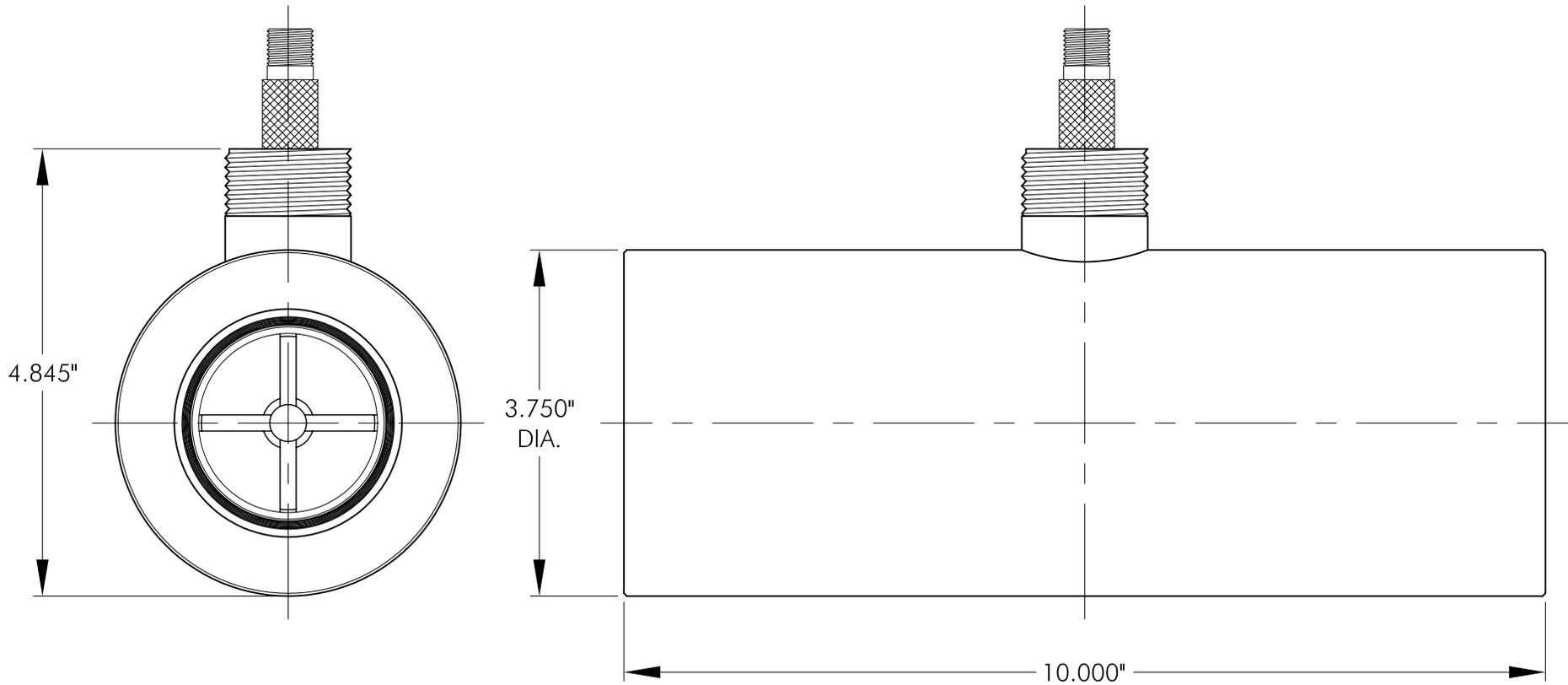
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 40-400 GPM

PRESSURE RATING: 10000 PSI

NOTE:

2" TURBINE REPAIR KIT PART NUMBER: 5.250

FLOW METER INSTALLATION DRAWING

2" TURBINE FLOW METER, A-286-ALLOY AMS-5737, PART NO. 5.2000-10K

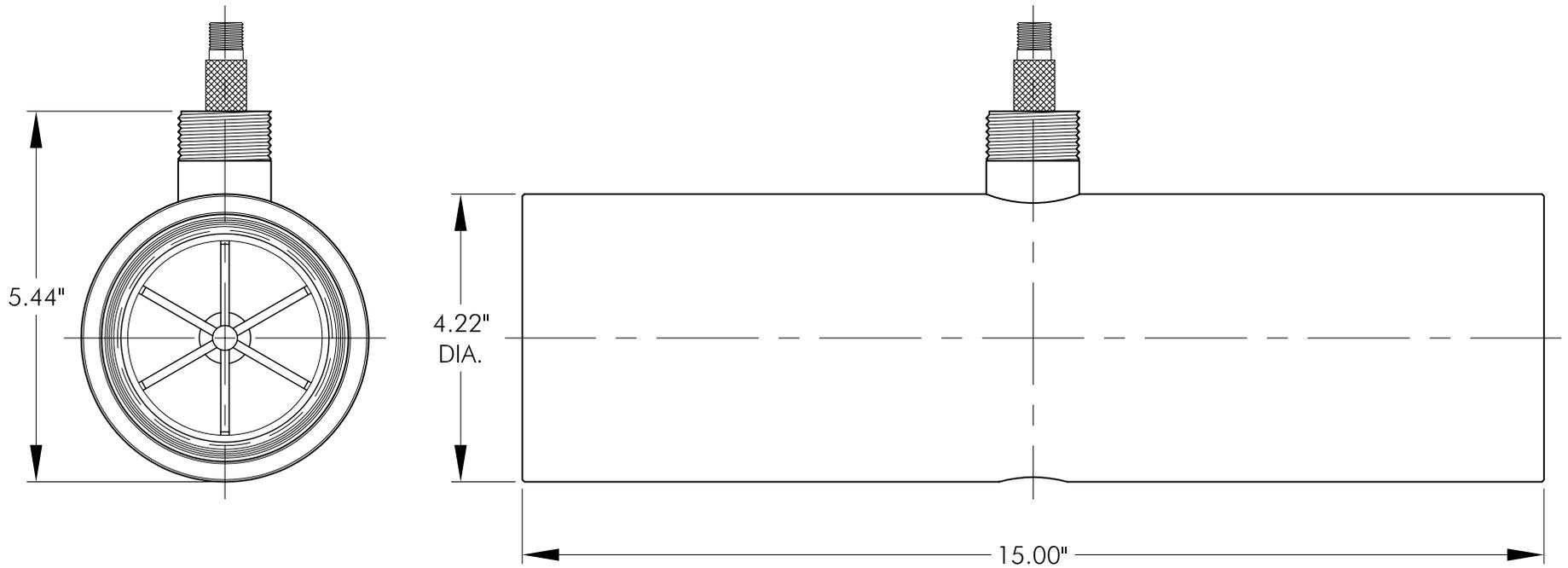
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 60-600 GPM

PRESSURE RATING: 5000 PSI

NOTE:

3" TURBINE REPAIR KIT PART NUMBER: 5.350

FLOW METER INSTALLATION DRAWING

3" x 3" TURBINE FLOW METER WITH 3" FEMALE N.P.T. ENDS, PART NO. 5.3100

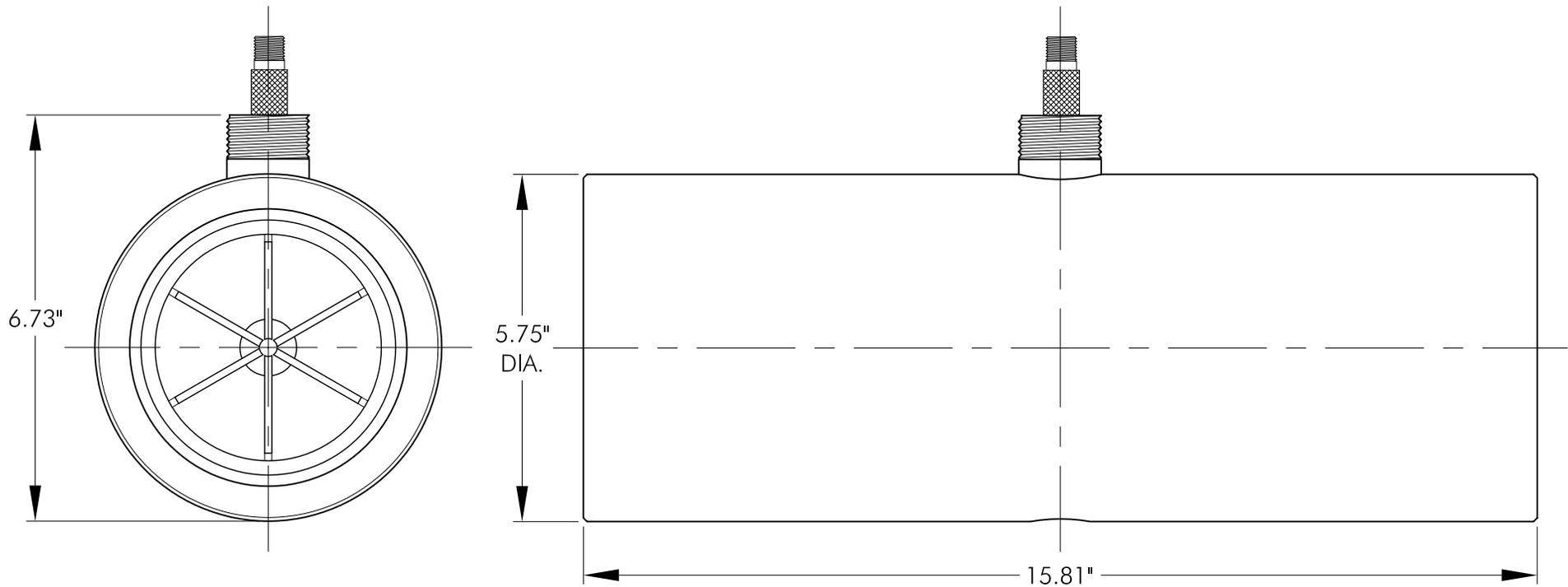
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 100-1200 GPM

PRESSURE RATING: 3000 PSI

NOTE:

4" TURBINE REPAIR KIT PART NUMBER: 5.450

FLOW METER INSTALLATION DRAWING

4" x 4" TURBINE FLOW METER WITH 4" FEMALE N.P.T. ENDS, PART NO. 5.4000

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Electronic Data Devices

Turbine Flow Meters



Threaded Turbine Flow Meters

Electronic Data Devices offers a complete line of turbine flow meters that are available with ranges from 0.3 GPM to 5500 GPM covering a wide range of measurement applications. Our turbine flow meters are manufactured to the highest quality standards, and are available with a wide range of end connections compatible with many applications. Some of the typical applications include: oilfield waterflood, production, well servicing, pipelines, mining, chemicals, food and beverage industry, and most other liquid applications.

Threaded meters are available in the sizes below.

All threaded meters have a working pressure of 5000psi except 3" and 4", which are 3000 psi.

.37" X 1"-MNPT	.75" X 2" MNPT	1" X 1"-MNPT	1.5" X 2" MNPT	3" X 3" FMNPT
.50" X 1" MNPT	.87" X 1" MNPT	1" X 2" MNPT	2" X 2" FMNPT	4" X 4" FMNPT
.75" X 1" MNPT	.87" X 2" MNPT	1.5" X 1.5" MNPT		

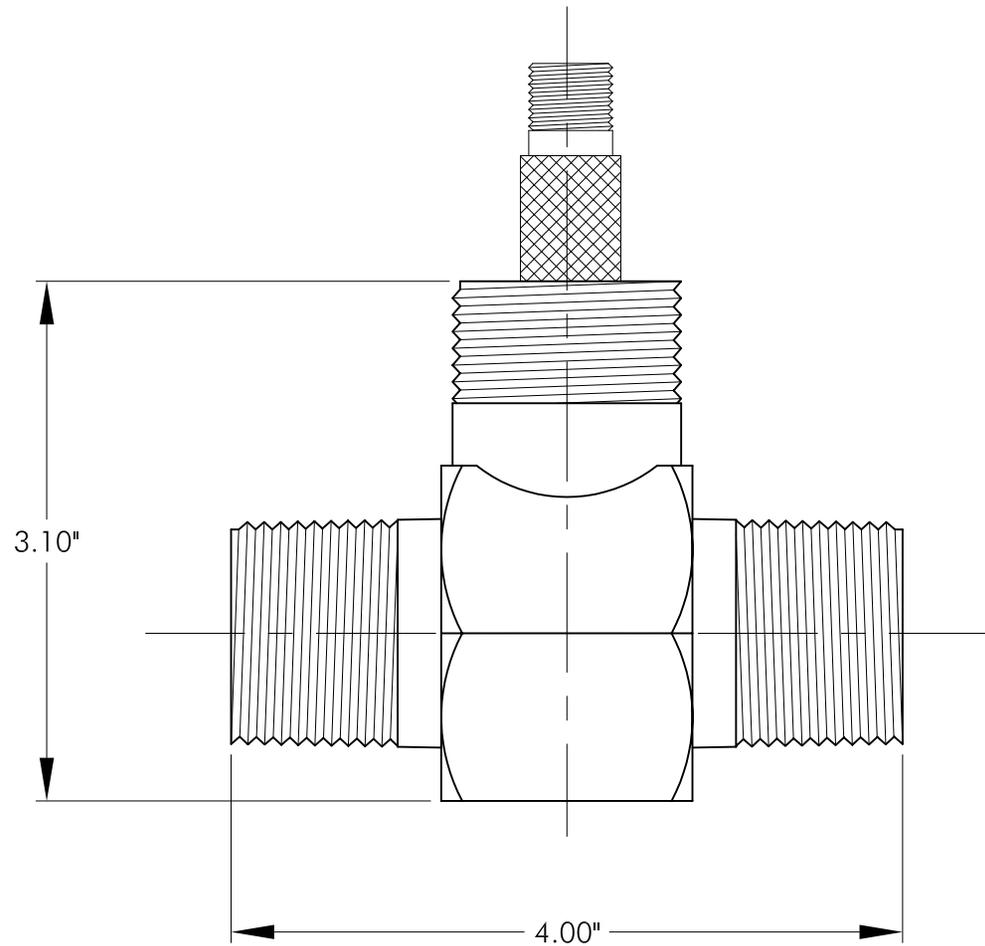
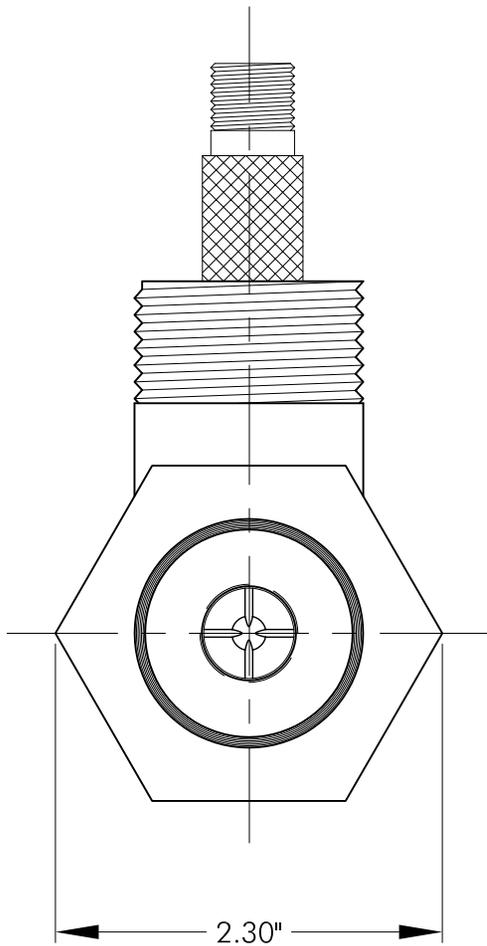
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 0.3-3 GPM

PRESSURE RATING: 5000 PSI

NOTE:

3/8" TURBINE REPAIR KIT PART NUMBER: 5.037

FLOW METER INSTALLATION DRAWING

3/8" x 1" TURBINE FLOW METER WITH 1" N.P.T. MALE ENDS, PART NO. 5.0370H

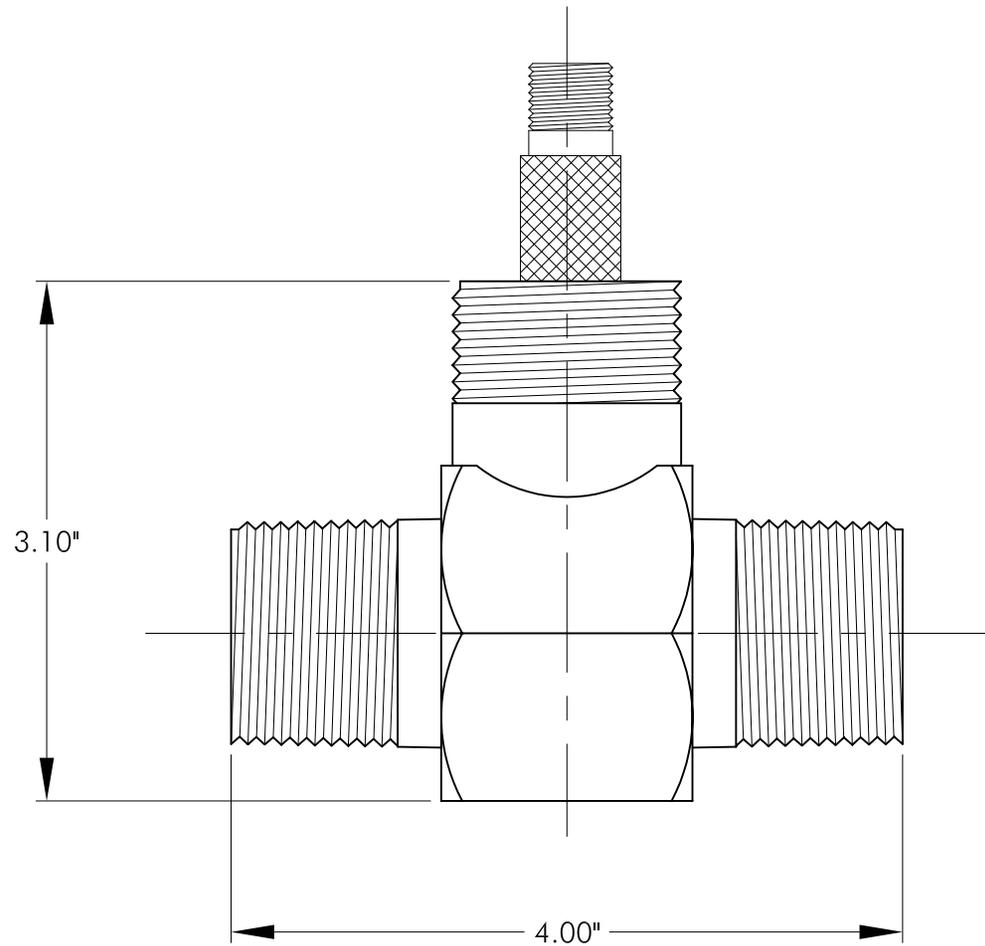
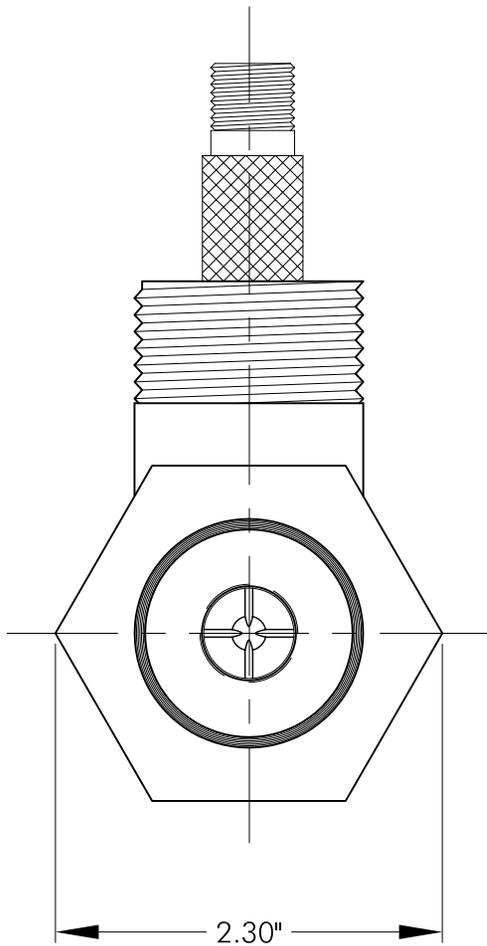
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 0.75-7.5 GPM

PRESSURE RATING: 5000 PSI

NOTE:

1/2" TURBINE REPAIR KIT PART NUMBER: 5.050

FLOW METER INSTALLATION DRAWING

1/2" x 1" TURBINE FLOW METER WITH 1" N.P.T. MALE ENDS, PART NO. 5.0500H

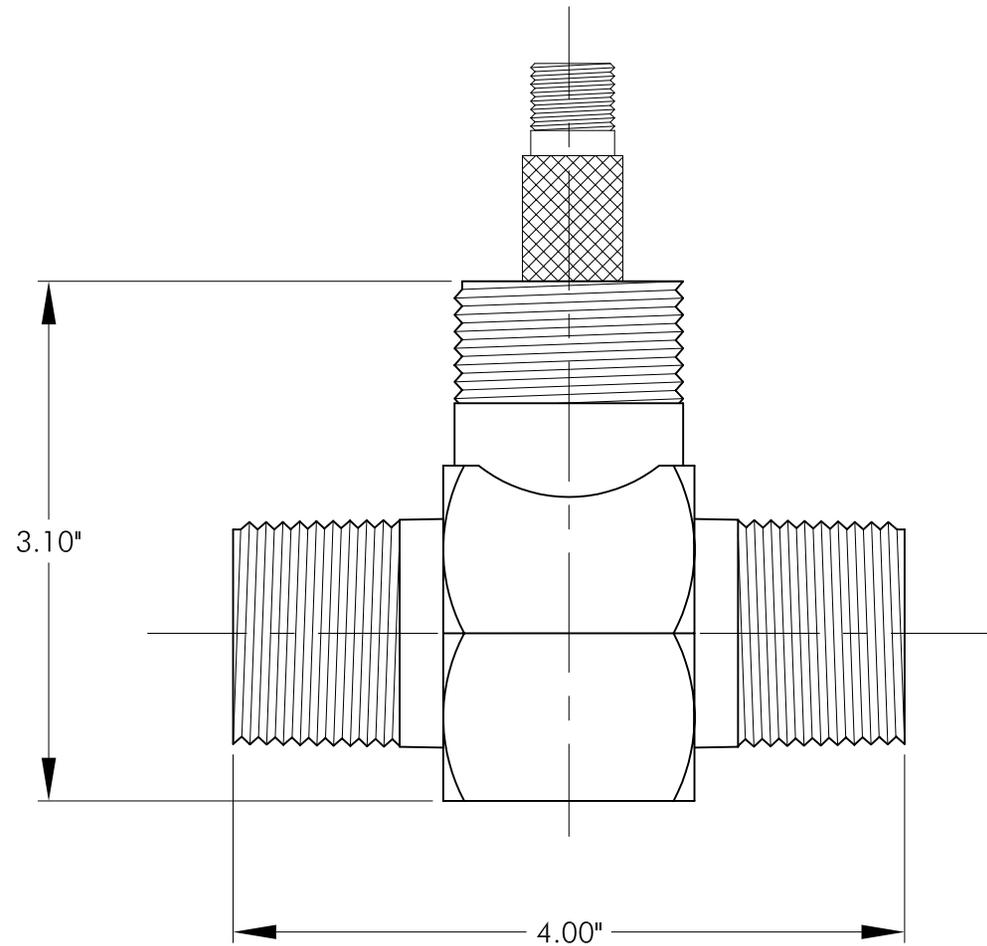
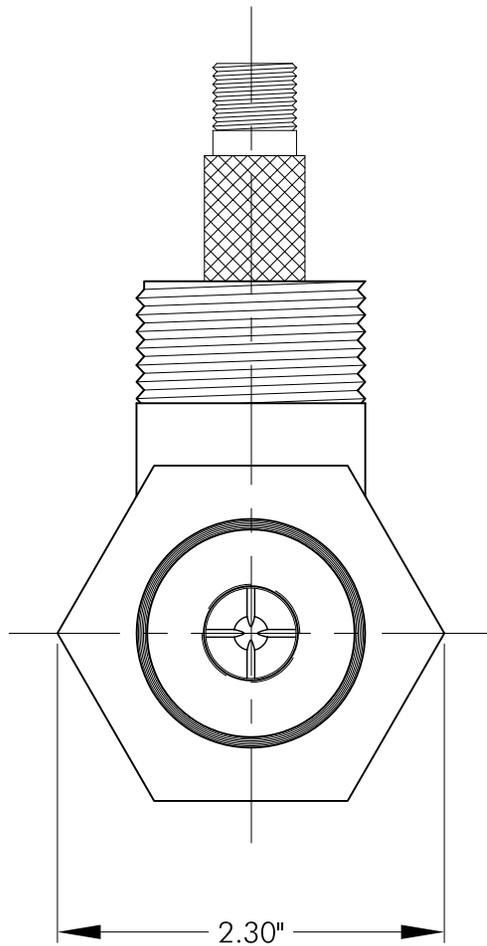
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 2-15 GPM

PRESSURE RATING: 5000 PSI

NOTE:

3/4" TURBINE REPAIR KIT PART NUMBER: 5.075

FLOW METER INSTALLATION DRAWING

3/4" x 1" TURBINE FLOW METER WITH 1" N.P.T. MALE ENDS, PART NO. 5.0750H

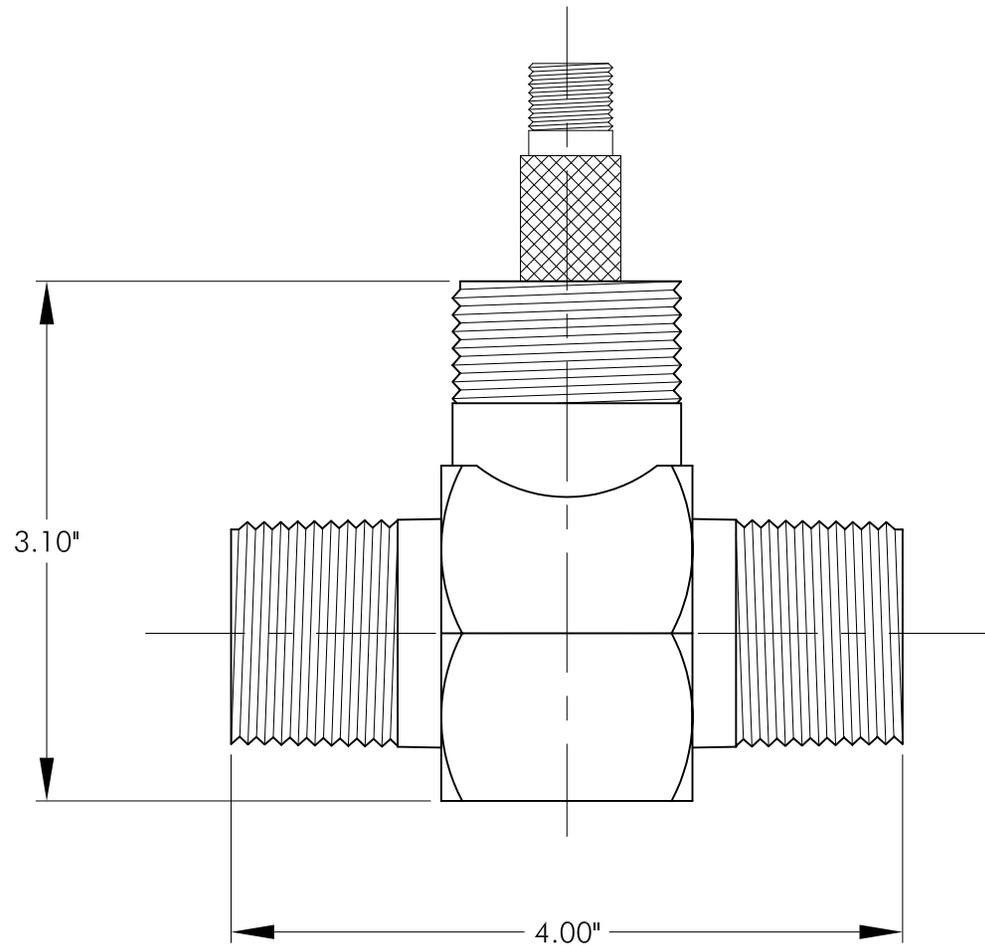
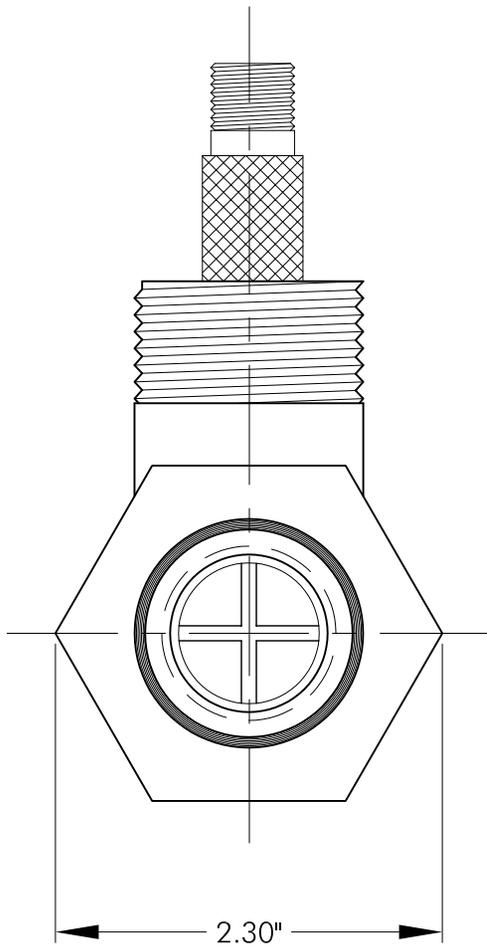
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 3-30 GPM

PRESSURE RATING: 5000 PSI

NOTE:

7/8" TURBINE REPAIR KIT PART NUMBER: 5.087

FLOW METER INSTALLATION DRAWING

7/8" x 1" TURBINE FLOW METER WITH 1" N.P.T. MALE ENDS, PART NO. 5.0875H

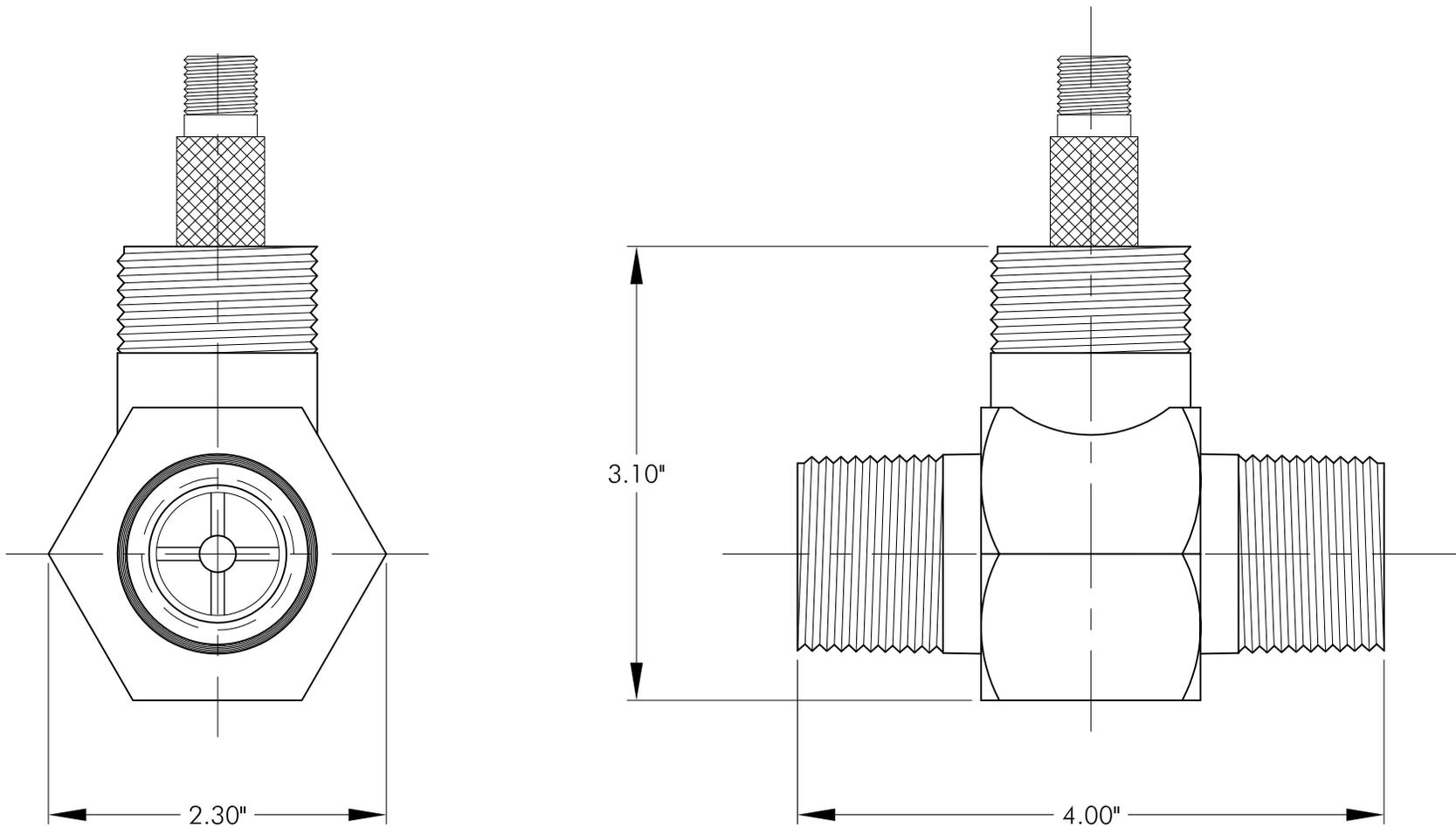
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 5-50 GPM

PRESSURE RATING: 5000 PSI

NOTE:

1" TURBINE REPAIR KIT PART NUMBER: 5.100

FLOW METER INSTALLATION DRAWING

1" x 1" TURBINE FLOW METER WITH 1" N.P.T. MALE ENDS, PART NO. 5.1001H

P.O. Box 12128

Odessa, TX 79768

Phone: 432-366-8699 Fax: 432-366-1106

E-mail: rkw@eddevices.com Website: www.eddevices.com





Electronic Data Devices

Turbine Flow Meters



Threaded Turbine Flow Meters

Electronic Data Devices offers a line of threaded turbine flow meters with cast bodies that are available with ranges from 0.3 GPM to 50 GPM covering a wide range of measurement applications. Our turbine flow meters are manufactured to the highest quality standards. Some of the typical applications include: oilfield waterflood, production, well servicing, pipelines, mining, chemicals, food and beverage industry, and most other liquid applications.

Threaded meters with a cast meter body are available in 1" x 1" MNPT.
All threaded meters have a working pressure of 5000 psi.

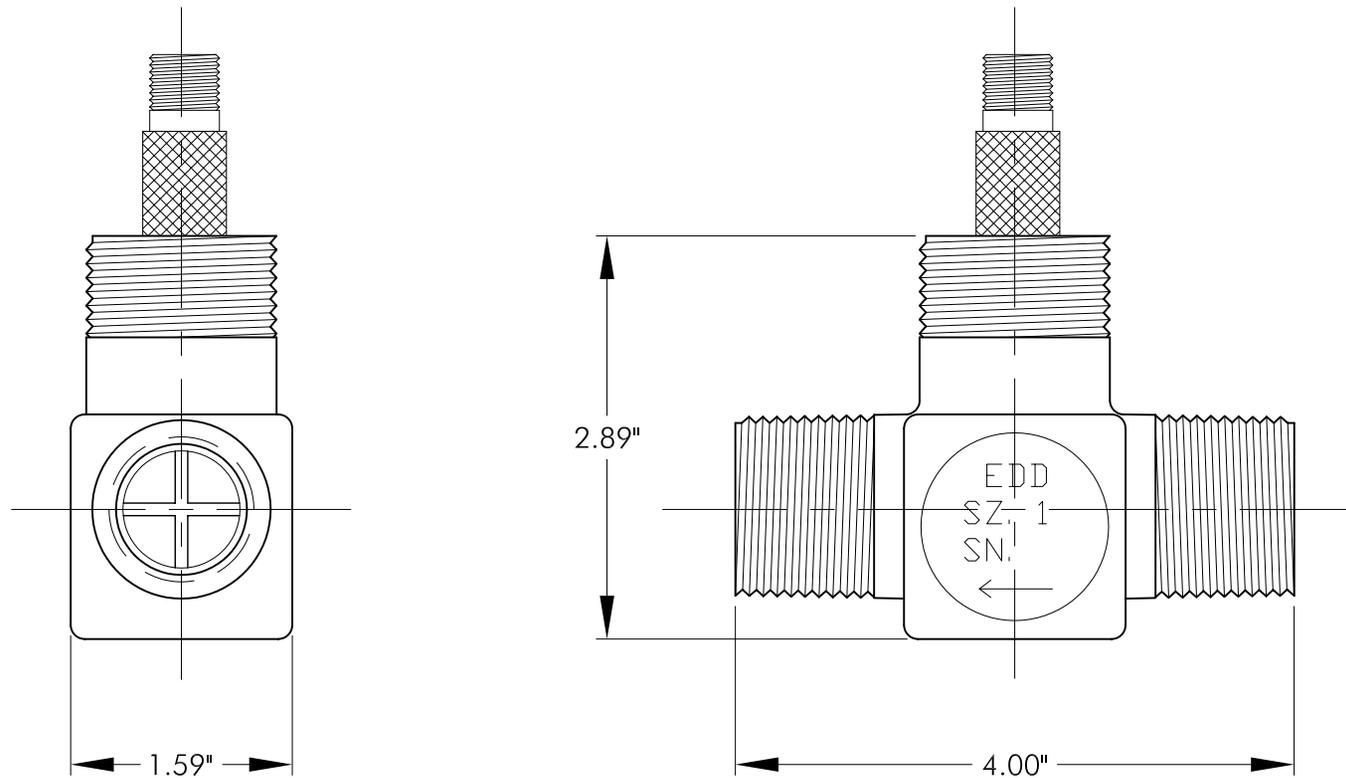
P.O. Box 12128
Odessa, Texas 79768
USA

Phone
432-366-8699

Fax
432-366-1106

Email
rkw@eddevices.com

Website
www.eddevices.com



NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 5-50 GPM

PRESSURE RATING: 5000 PSI

NOTE:

1" TURBINE REPAIR KIT PART NUMBER: 5.100

FLOW METER INSTALLATION DRAWING

1" TURBINE FLOW METER WITH 1" N.P.T. MALE ENDS, PART NO. 5.1000C

P.O. Box 12128

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Electronic Data Devices

Turbine Flow Meters



Grooved Turbine Flow Meters

Electronic Data Devices offers a complete line of turbine flow meters that are available with ranges from 0.3 GPM to 5500 GPM covering a wide range of measurement applications. Our turbine flow meters are manufactured to the highest quality standards, and are available with a wide range of end connections compatible with many applications. Some of the typical applications include: oilfield waterflood, production, well servicing, pipelines, mining, chemicals, food and beverage industry, and most other liquid applications.

Grooved end turbine flow meters are available in the sizes below. The maximum operating psi is determined by the victaulic clamp rating.

.37" X 1"	.75" X 2"	1" X 1"	2" X 2.5"	6" X 6"
.50" X 1"	.87" X 1"	1" X 2"	3" X 3"	8" X 8"
.75" X 1"	.87" X 2"	1.5" X 2"	4" X 4"	10" X 10"

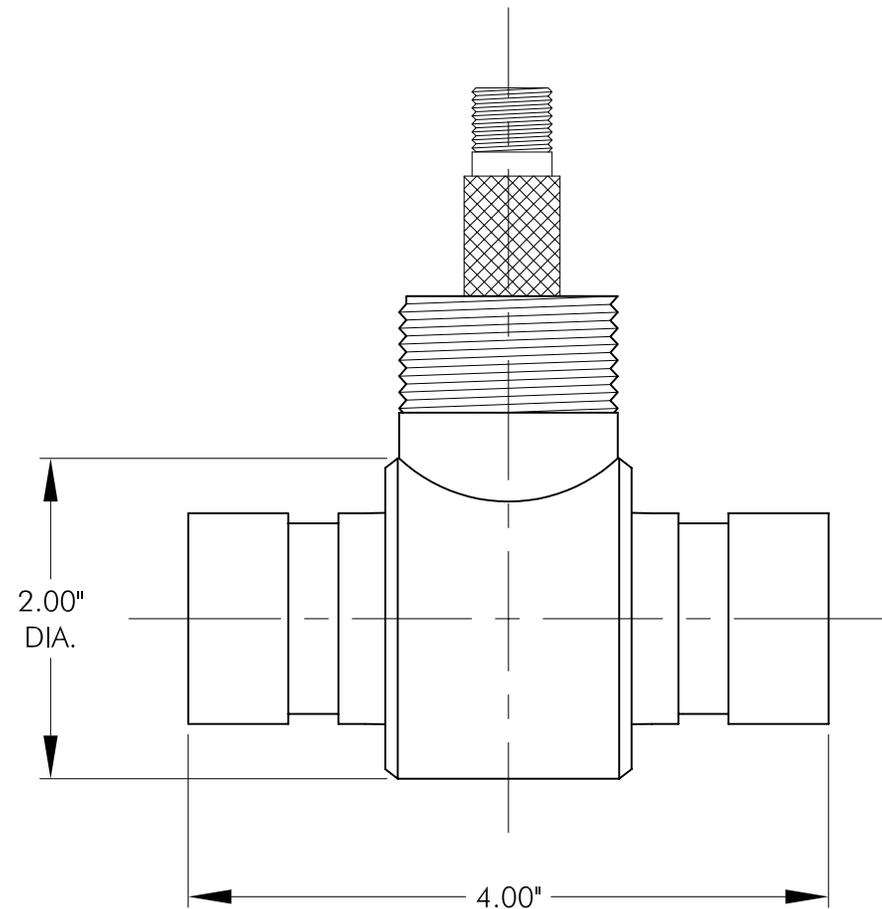
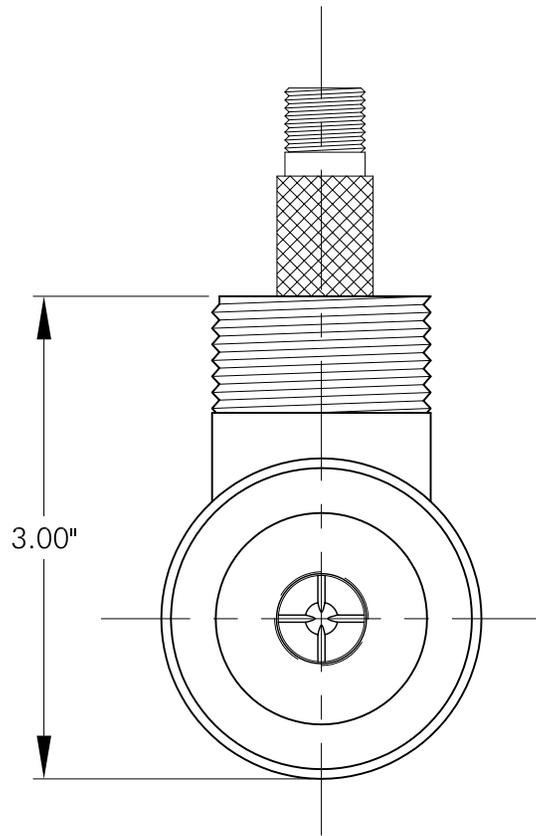
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• Fax
432-366-1106

• Email
rk@eddevices.com

• Website
www.eddevices.com



NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:
 FLOW RATE: 0.3-3 GPM
 PRESSURE RATING: 1000 PSI

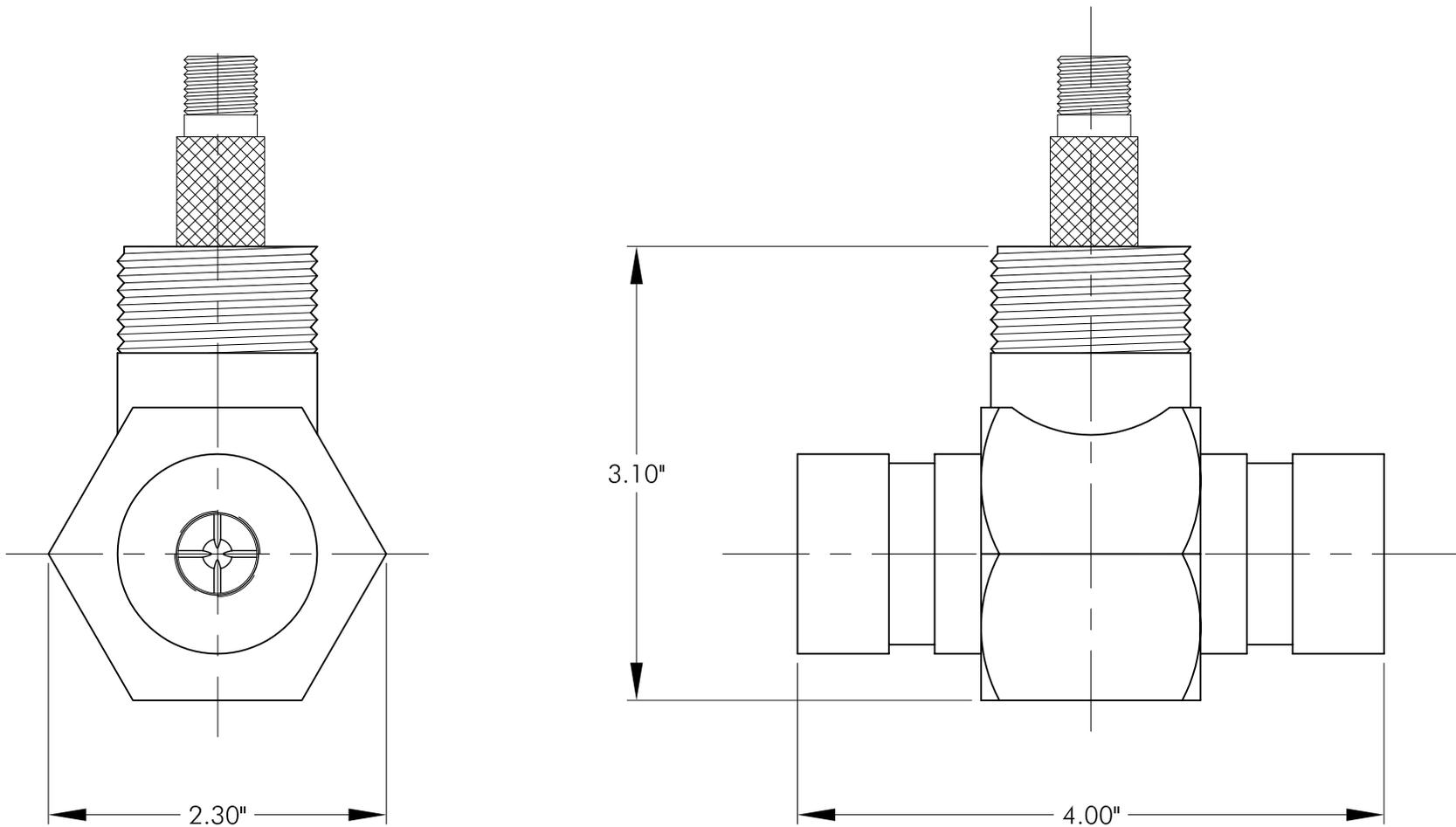
NOTE:
 3/8" TURBINE REPAIR KIT PART NUMBER: 5.037

FLOW METER INSTALLATION DRAWING

3/8" x 1" x 4" TURBINE FLOW METER WITH VICTAULIC END SEALS, PART NO. 5.0375

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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 0.3-3 GPM

PRESSURE RATING: 1000 PSI

NOTE:

3/8" TURBINE REPAIR KIT PART NUMBER: 5.037

FLOW METER INSTALLATION DRAWING

3/8" x 1" x 4" TURBINE FLOW METER WITH VICTAULIC END SEALS, PART NO. 5.0375H

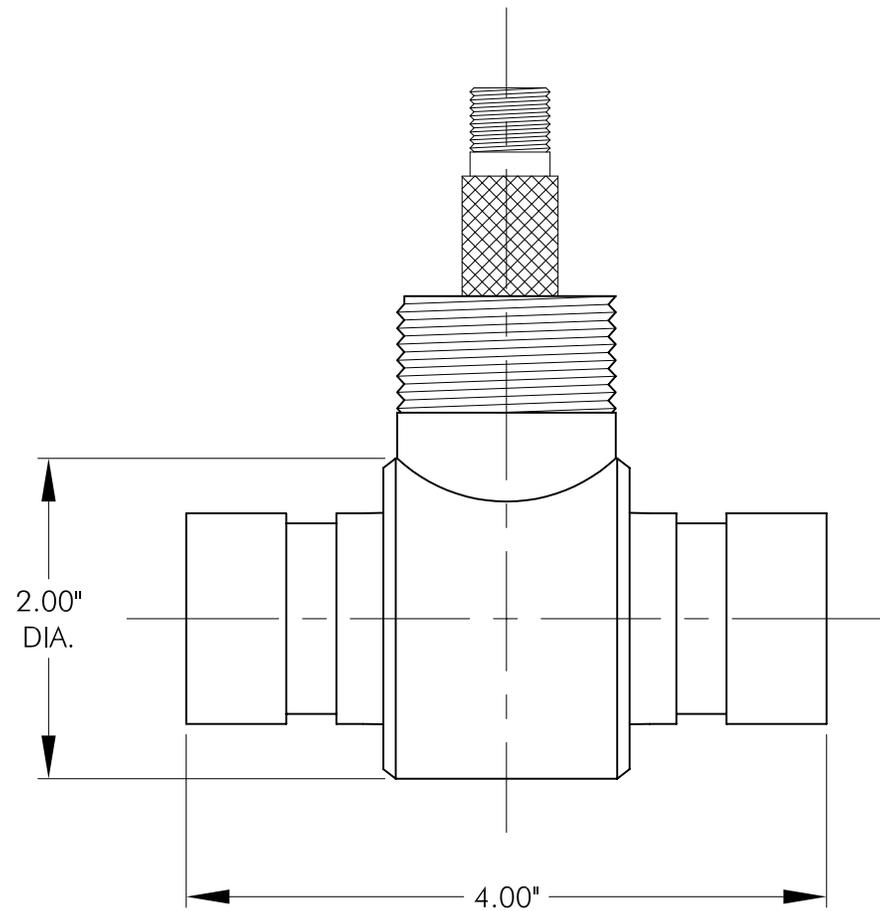
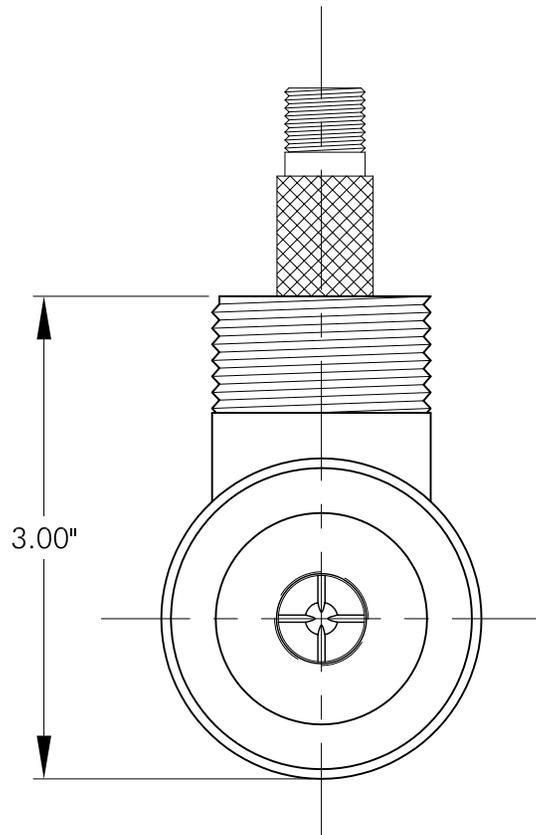
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 0.75-7.5 GPM

PRESSURE RATING: 1000 PSI

NOTE:

1/2" TURBINE REPAIR KIT PART NUMBER: 5.050

FLOW METER INSTALLATION DRAWING

1/2" x 1" x 4" TURBINE FLOW METER WITH VICTAULIC END SEALS, PART NO. 5.0505

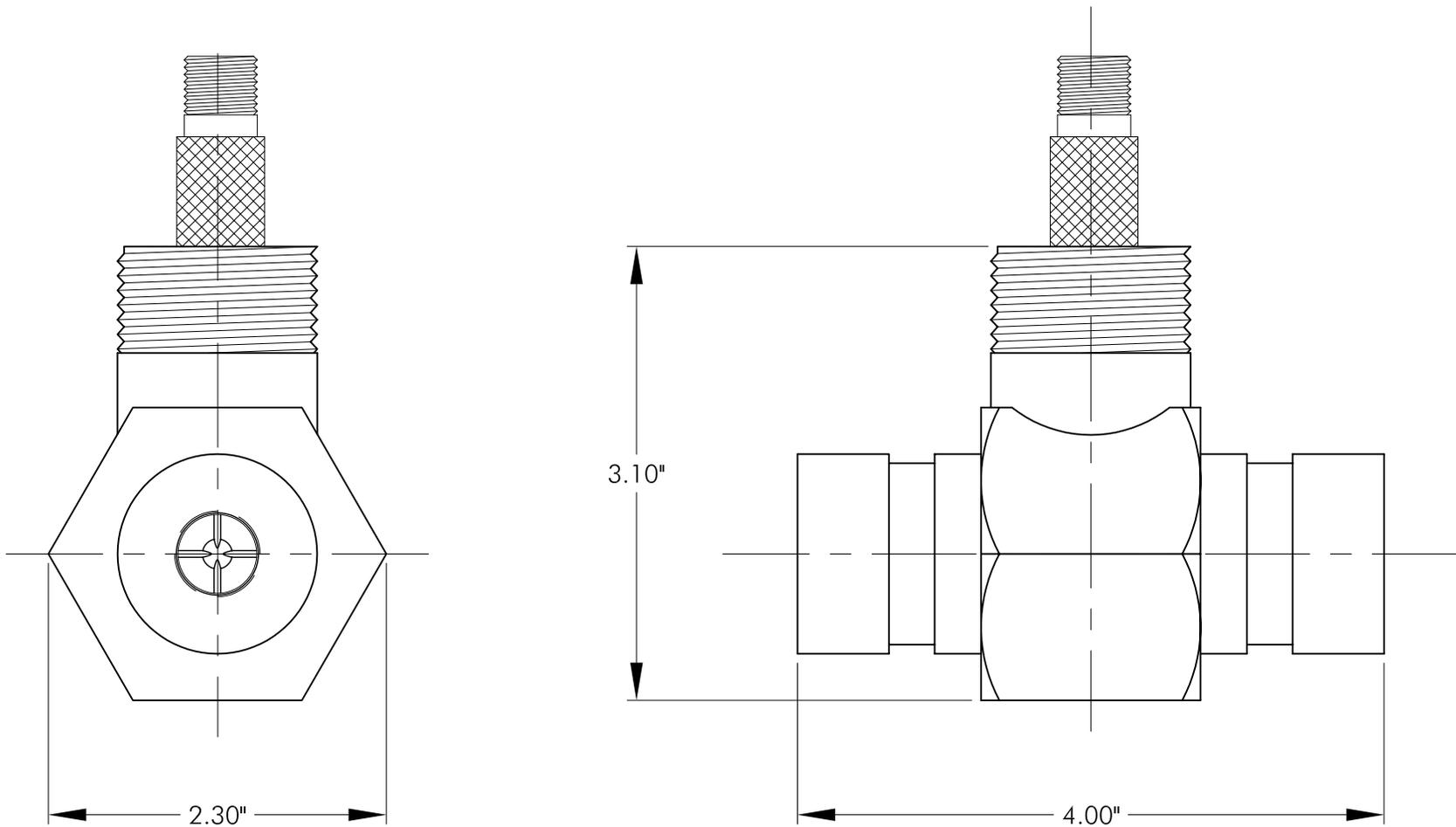
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 0.75-7.5 GPM

PRESSURE RATING: 1000 PSI

NOTE:

1/2" TURBINE REPAIR KIT PART NUMBER: 5.050

FLOW METER INSTALLATION DRAWING

1/2" x 1" x 4" TURBINE FLOW METER WITH VICTAULIC END SEALS, PART NO. 5.0505H

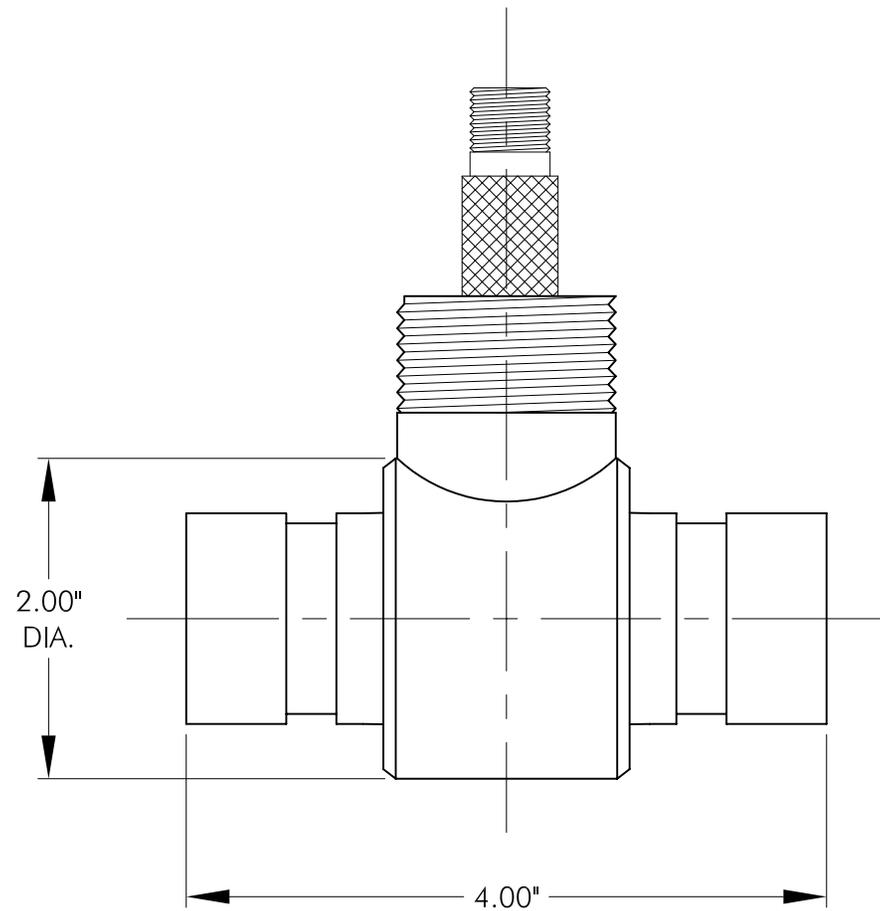
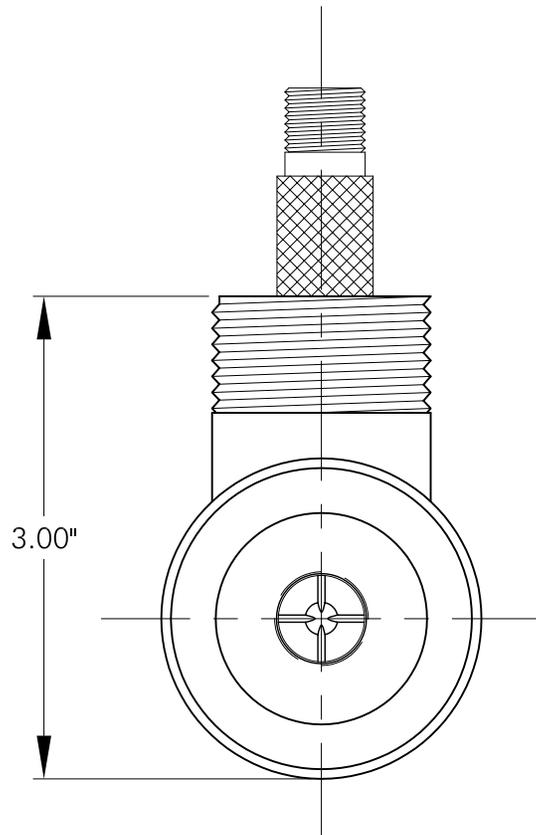
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 2-15 GPM

PRESSURE RATING: 1000 PSI

NOTE:

3/4" TURBINE REPAIR KIT PART NUMBER: 5.075

FLOW METER INSTALLATION DRAWING

3/4" x 1" x 4" TURBINE FLOW METER WITH VICTAULIC END SEALS, PART NO. 5.0755

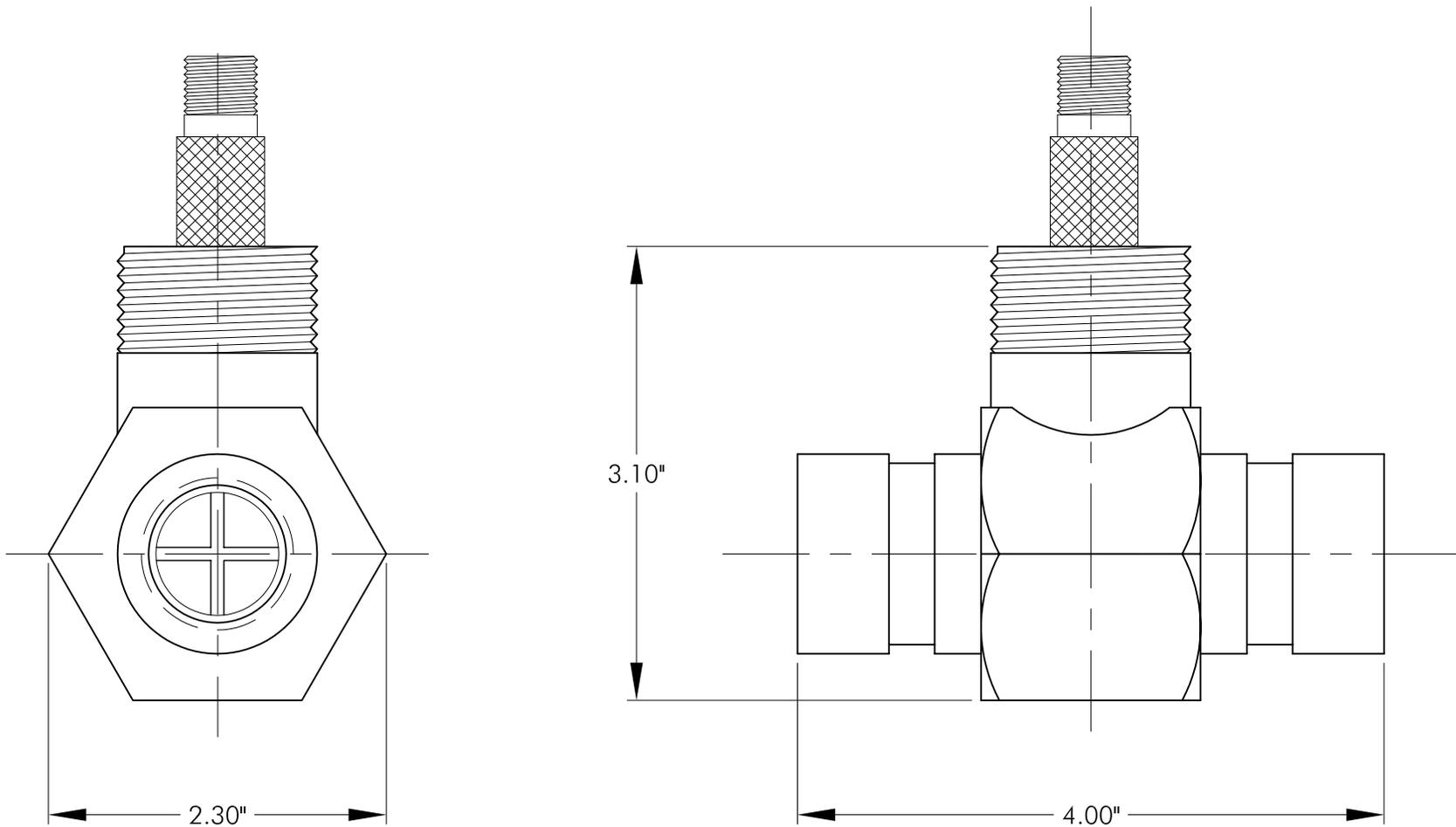
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 2-15 GPM

PRESSURE RATING: 1000 PSI

NOTE:

3/4" TURBINE REPAIR KIT PART NUMBER: 5.075

FLOW METER INSTALLATION DRAWING

3/4" x 1" x 4" TURBINE FLOW METER WITH VICTAULIC END SEALS, PART NO. 5.0750H

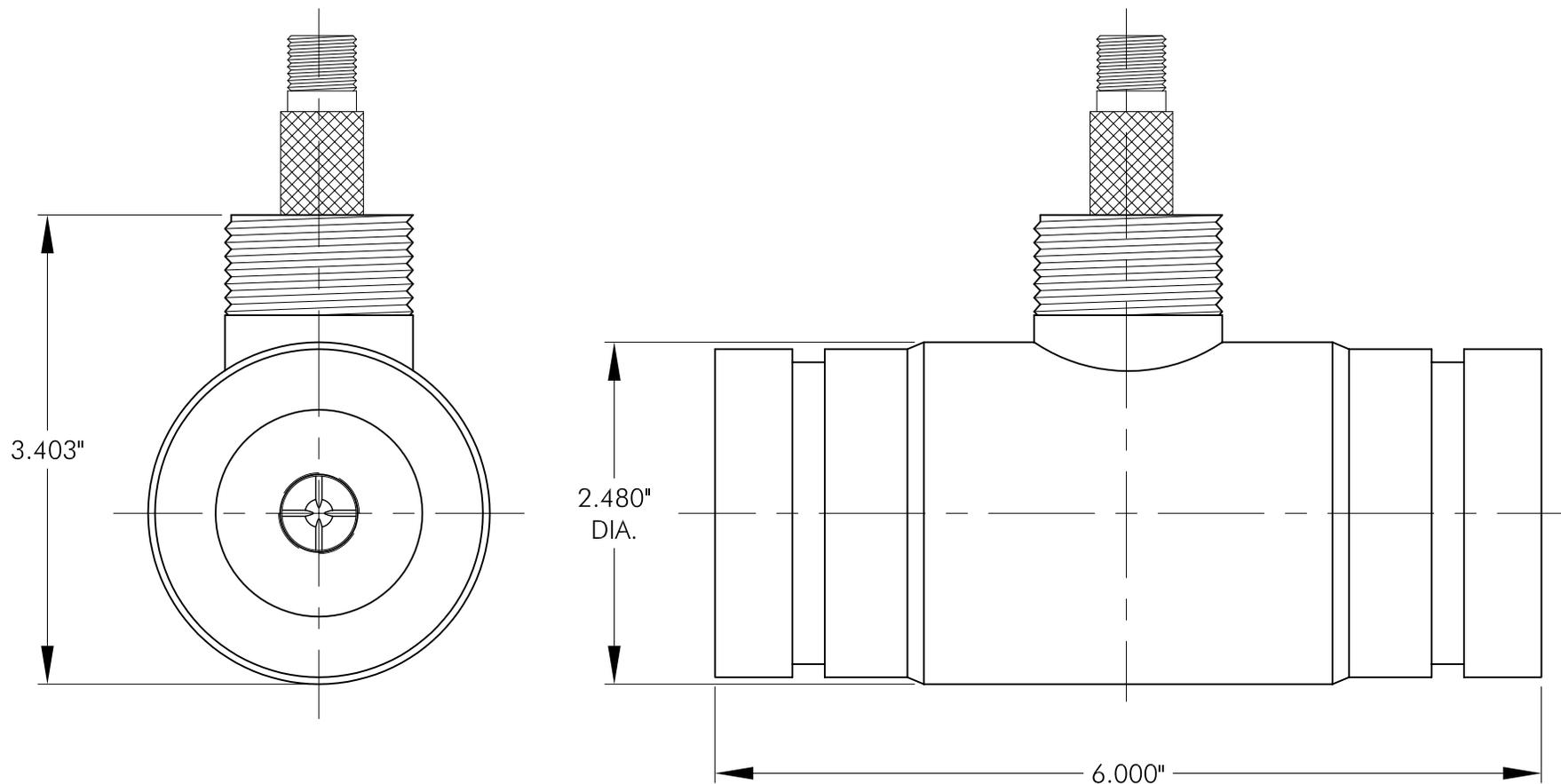
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 2-15 GPM

PRESSURE RATING: 5000 PSI

NOTE:

3/4" TURBINE REPAIR KIT PART NUMBER: 5.075

FLOW METER INSTALLATION DRAWING

3/4" x 2" TURBINE FLOW METER WITH 2" VICTAULIC END SEALS, PART NO. 5.07552

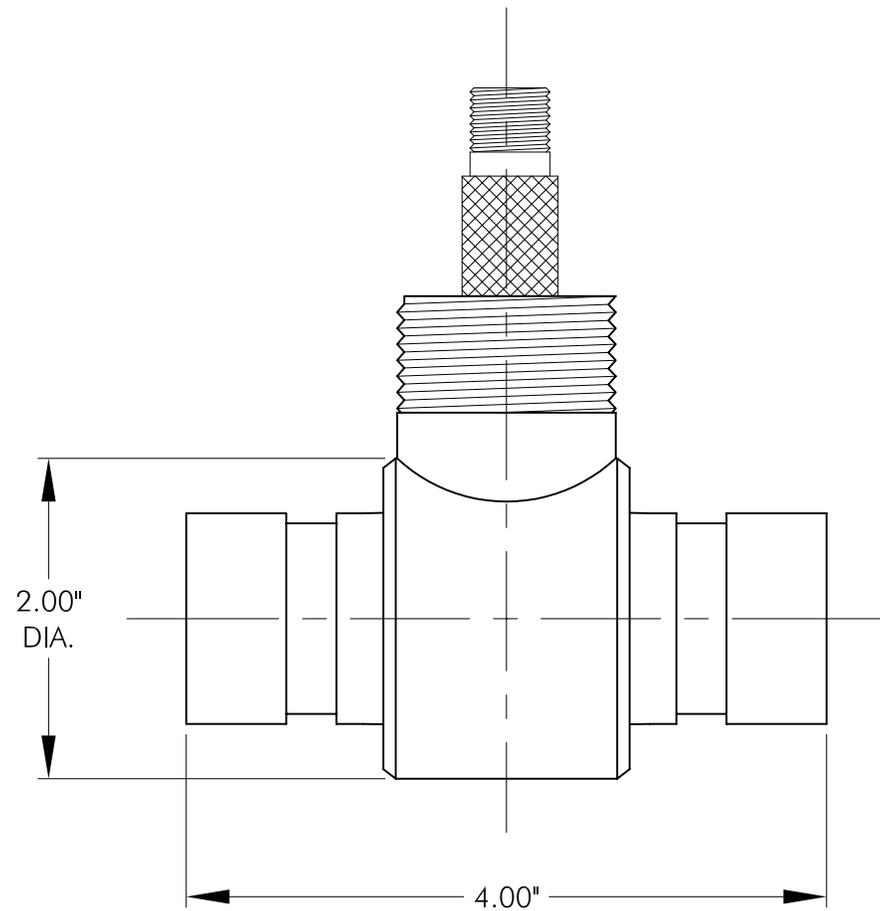
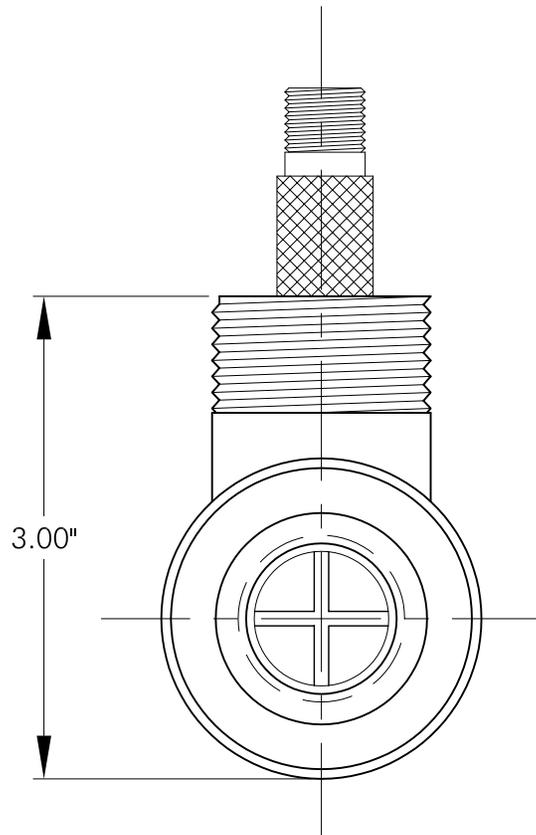
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 3-30 GPM

PRESSURE RATING: 1000 PSI

NOTE:

7/8" TURBINE REPAIR KIT PART NUMBER: 5.087

FLOW METER INSTALLATION DRAWING

7/8" x 1" x 4" TURBINE FLOW METER WITH VICTAULIC END SEALS, PART NO. 5.0875

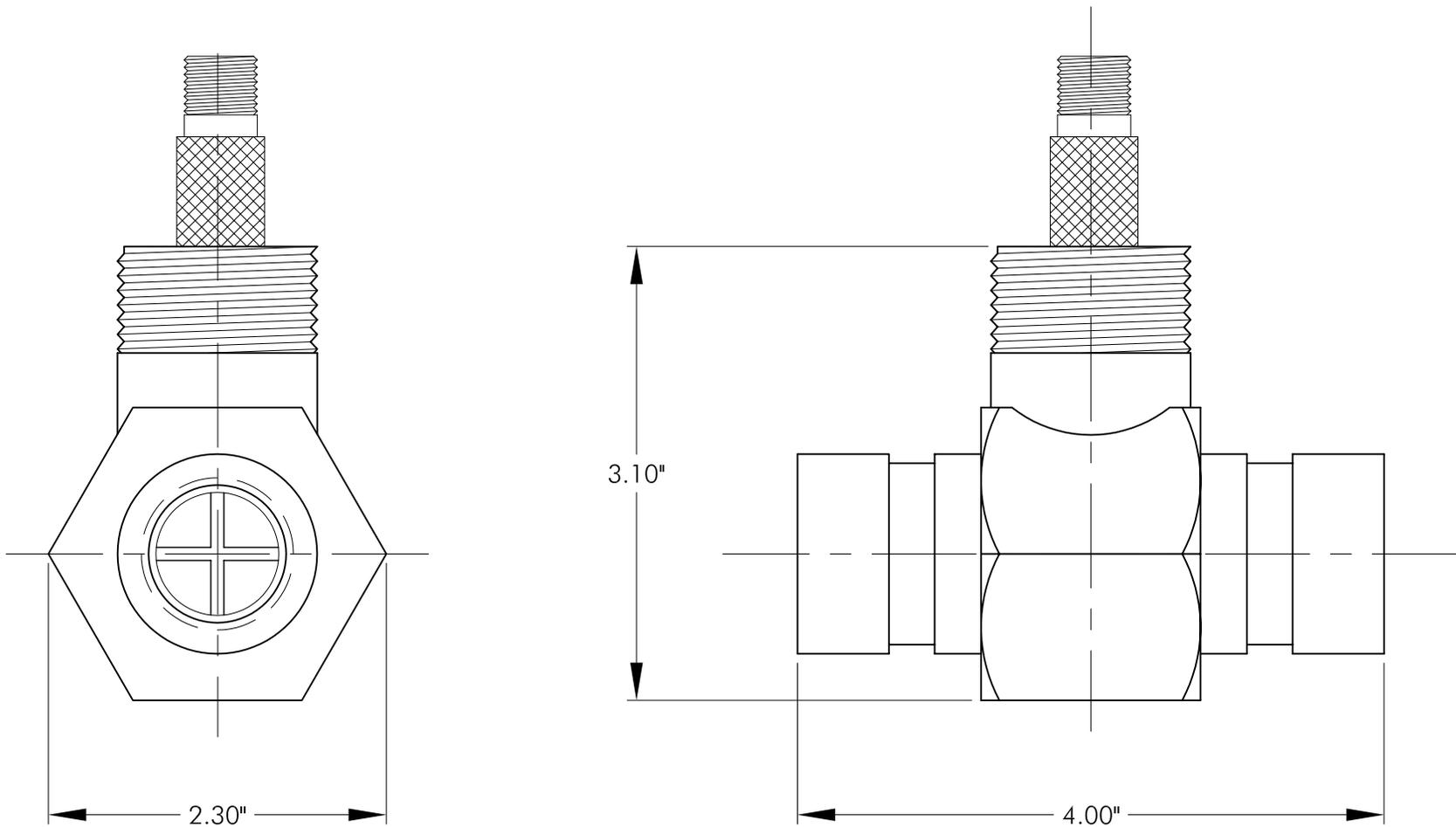
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 3-30 GPM

PRESSURE RATING: 1000 PSI

NOTE:

7/8" TURBINE REPAIR KIT PART NUMBER: 5.087

FLOW METER INSTALLATION DRAWING

7/8" x 1" x 4" TURBINE FLOW METER WITH VICTAULIC END SEALS, PART NO. 5.0875H

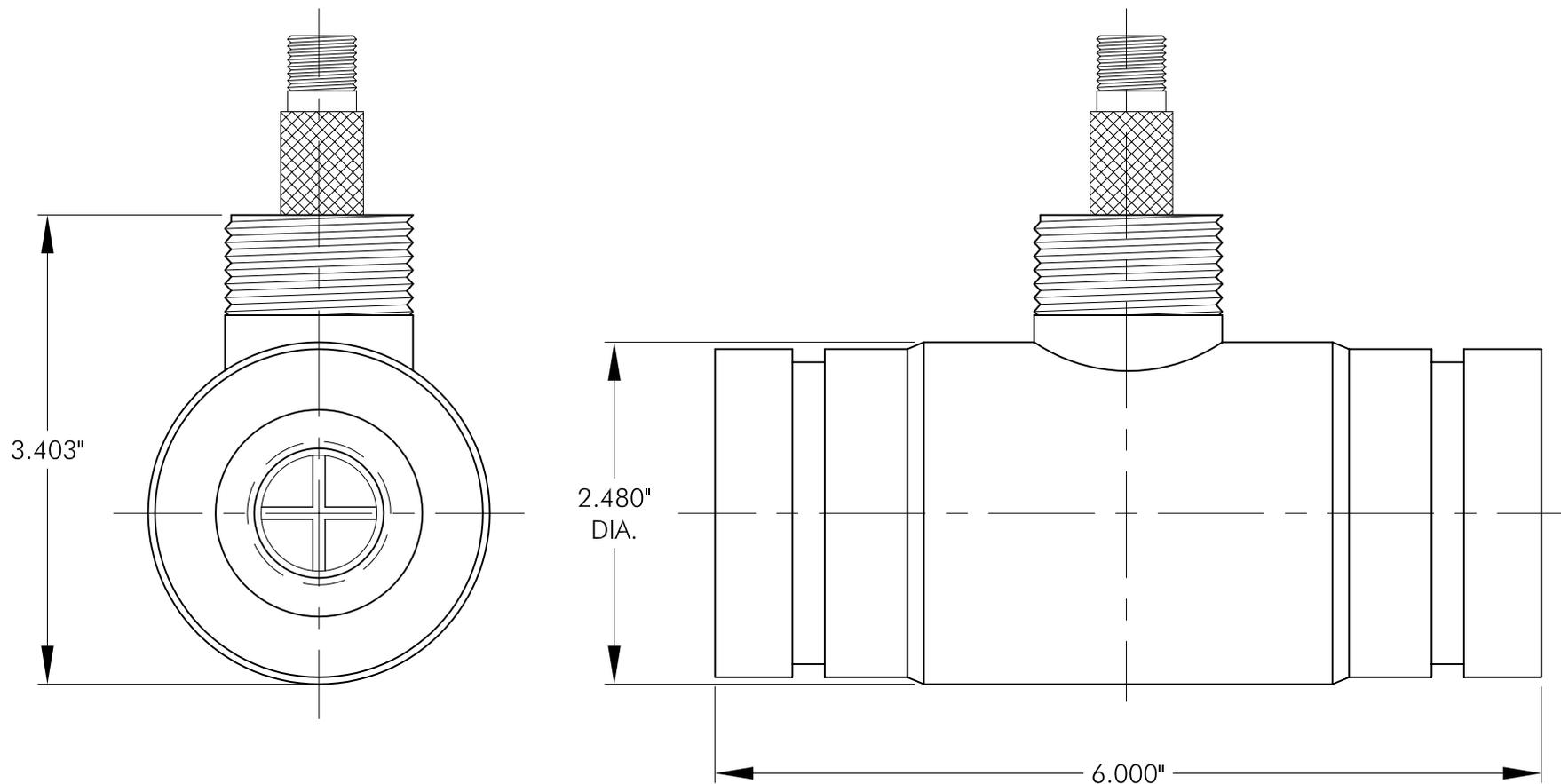
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 3-30 GPM

PRESSURE RATING: 5000 PSI

NOTE:

7/8" TURBINE REPAIR KIT PART NUMBER: 5.087

FLOW METER INSTALLATION DRAWING

7/8" x 2" TURBINE FLOW METER WITH 2" VICTAULIC END SEALS, PART NO. 5.08752

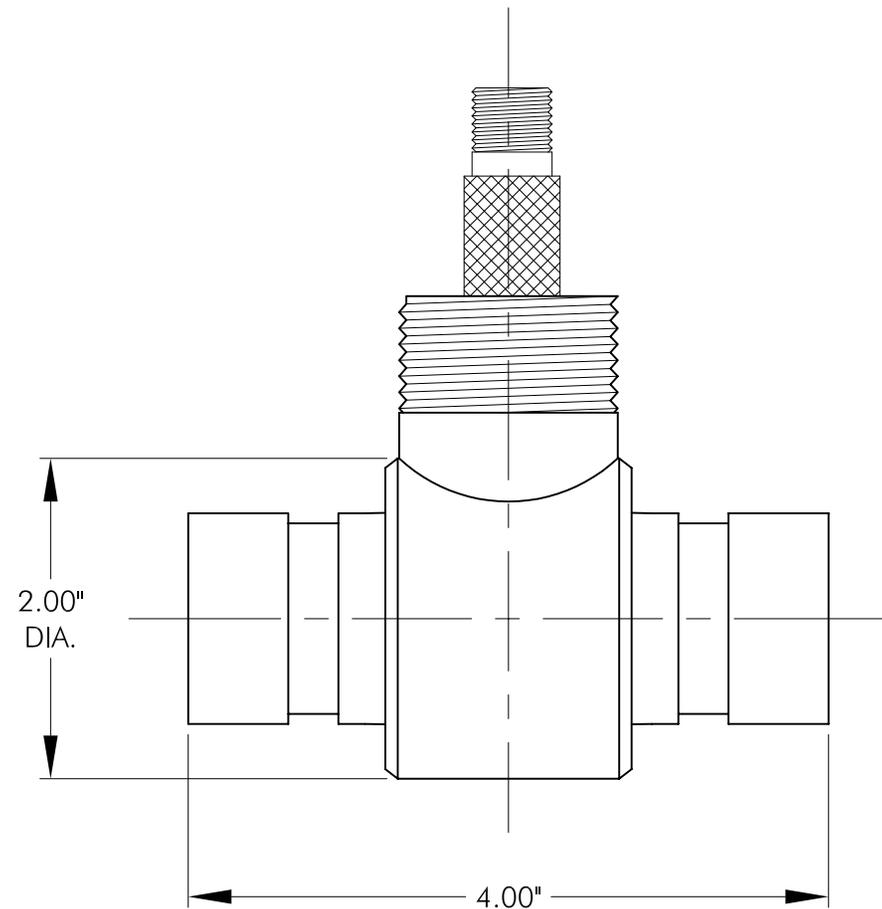
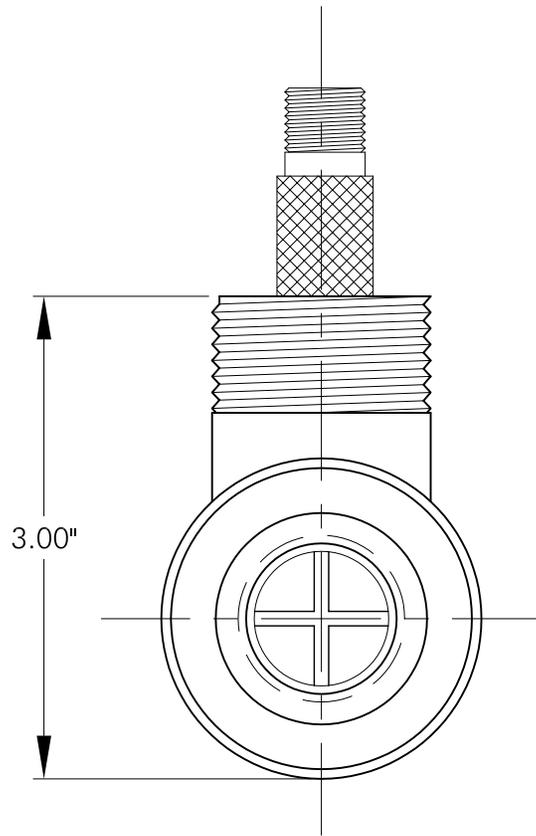
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NOTE: DRAWING NOT TO SCALE

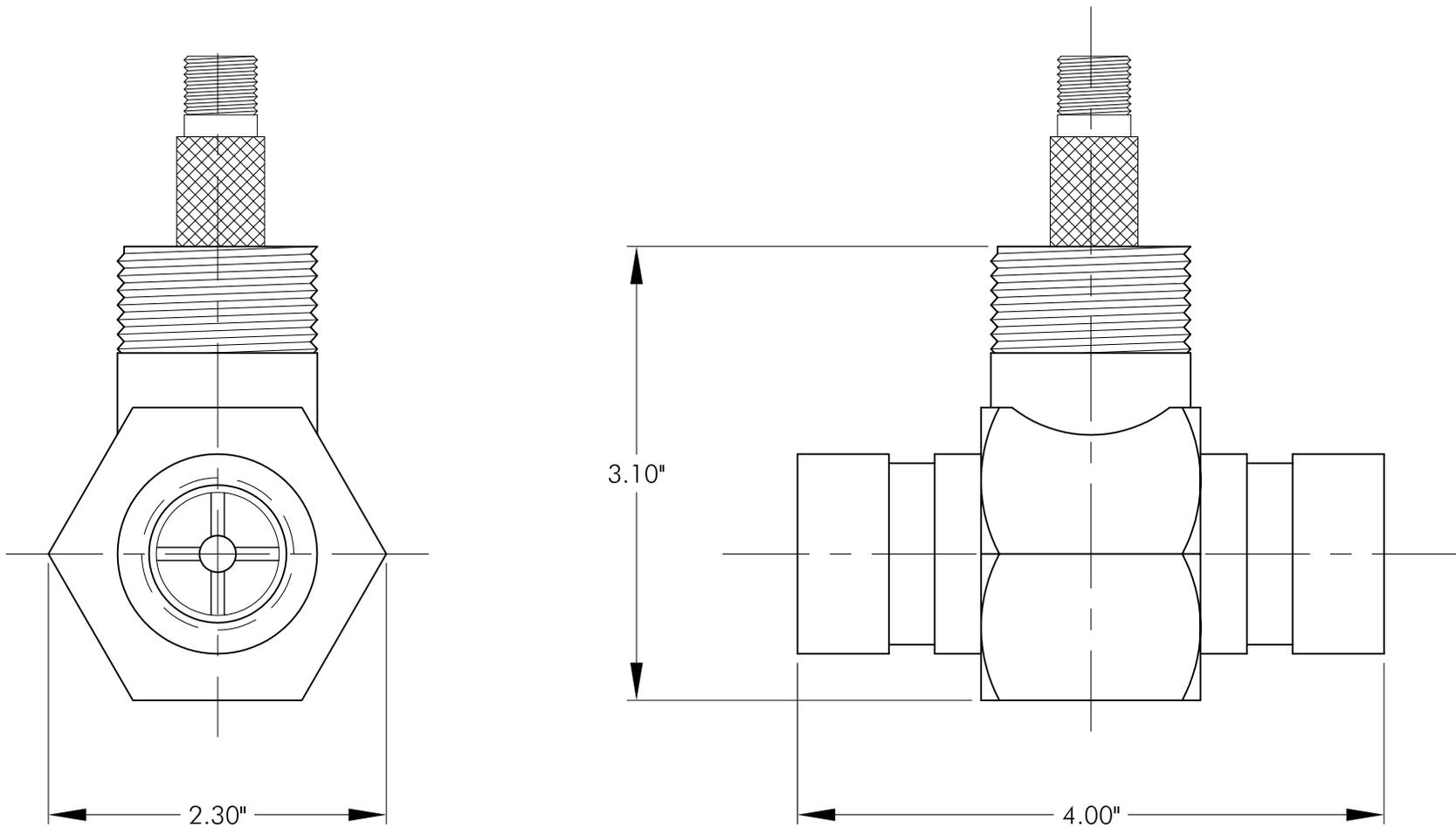
SPECIFICATIONS:
 FLOW RATE: 5-50 GPM
 PRESSURE RATING: 1000 PSI

NOTE:
 1" TURBINE REPAIR KIT PART NUMBER: 5.100

FLOW METER INSTALLATION DRAWING
 1" x 1" TURBINE FLOW METER WITH VICTAULIC END SEALS, PART NO. 5.1005R

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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 5-50 GPM

PRESSURE RATING: 1000 PSI

NOTE:

1" TURBINE REPAIR KIT PART NUMBER: 5.100

FLOW METER INSTALLATION DRAWING

1" x 1" TURBINE FLOW METER WITH VICTAULIC END SEALS, PART NO. 5.1005H

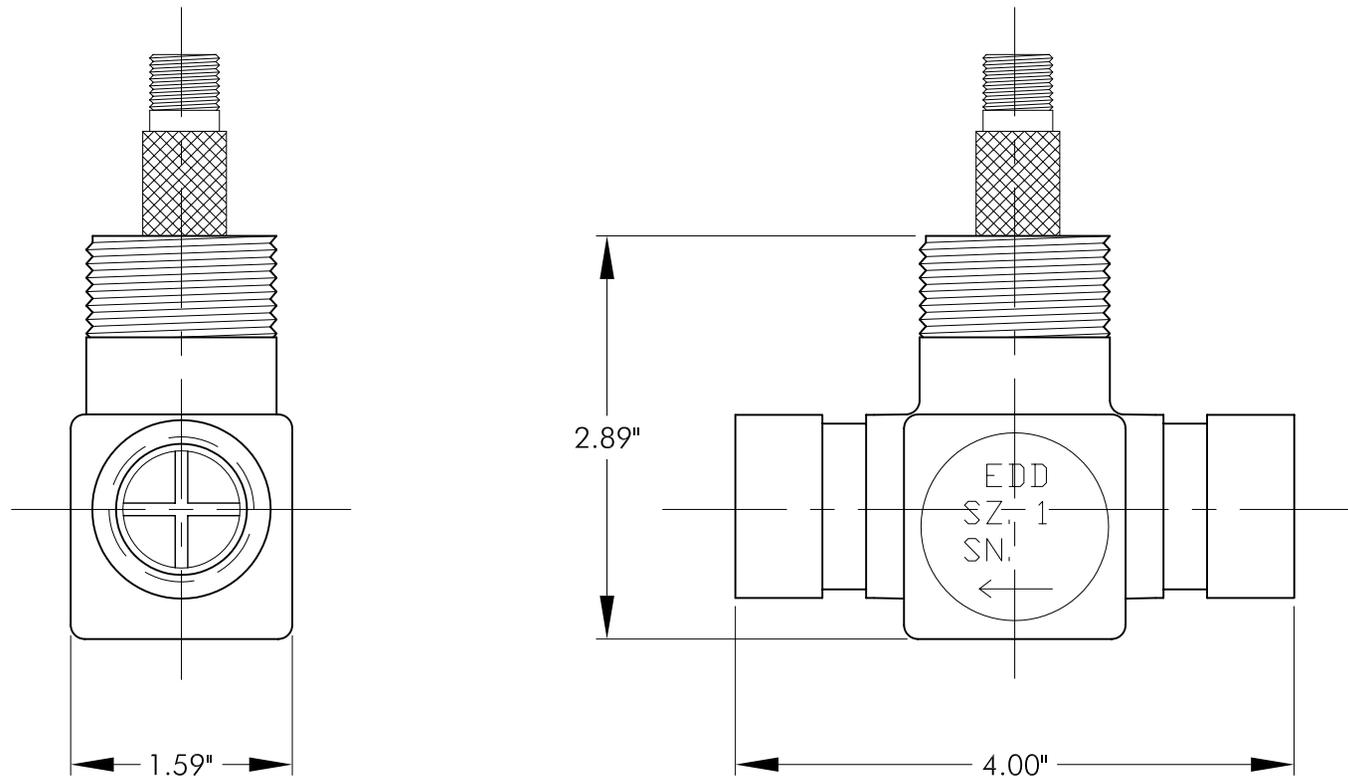
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:
 FLOW RATE: 5-50 GPM
 PRESSURE RATING: 1000 PSI

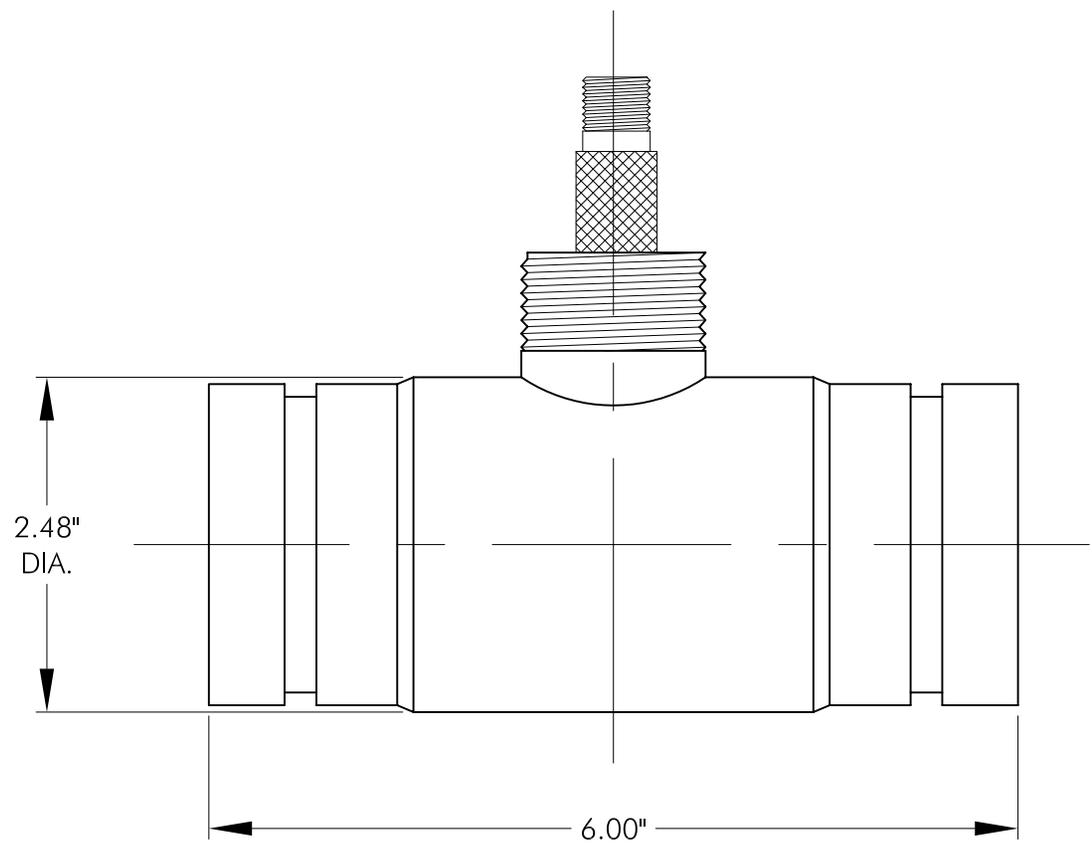
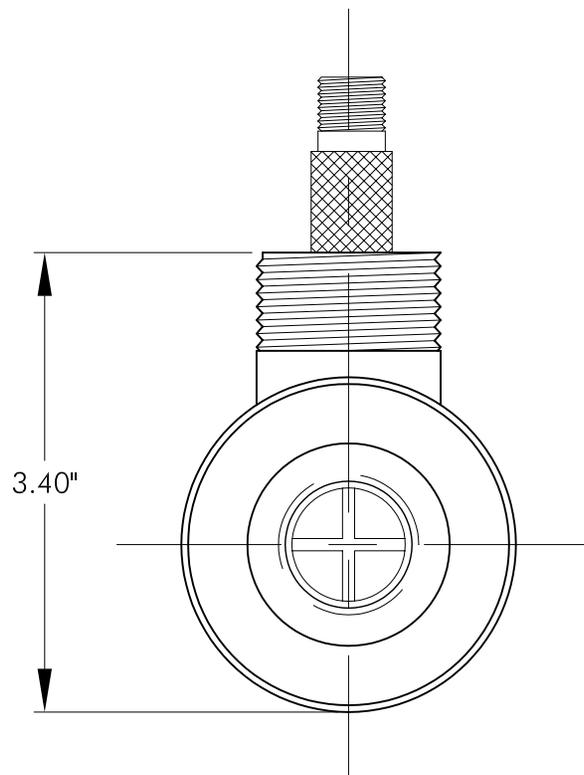
NOTE:
 1" TURBINE REPAIR KIT PART NUMBER: 5.100

FLOW METER INSTALLATION DRAWING

1" x 1" TURBINE FLOW METER WITH VICTAULIC END SEALS, PART NO. 5.1005C

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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 5-50 GPM

PRESSURE RATING: 2500 PSI

NOTE:

1" TURBINE REPAIR KIT PART NUMBER: 5.100 OR 5.101

FLOW METER INSTALLATION DRAWING

1" x 2" TURBINE FLOW METER WITH VICTAULIC END SEALS, PART NO. 5.1025

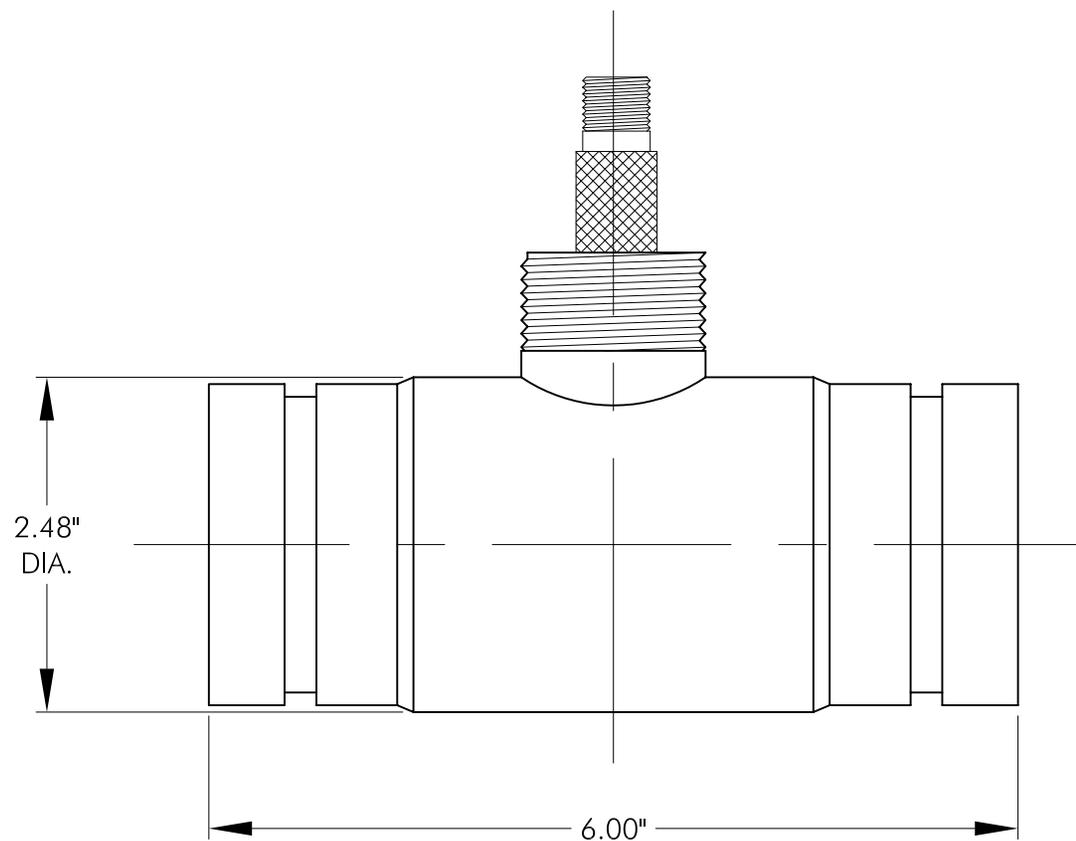
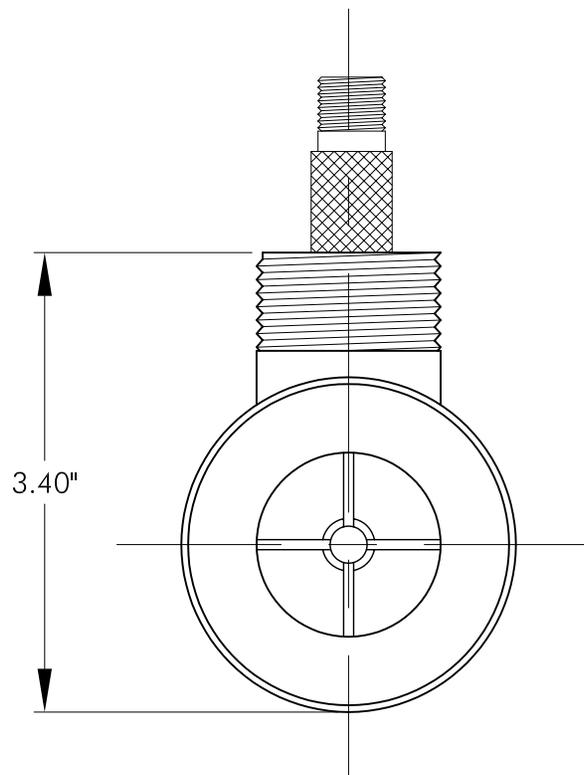
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 15-180 GPM

PRESSURE RATING: 2500 PSI

NOTE:

1.5" TURBINE REPAIR KIT PART NUMBER: 5.150

FLOW METER INSTALLATION DRAWING

1.5" x 2" TURBINE FLOW METER WITH VICTAULIC END SEALS, PART NO. 5.1510

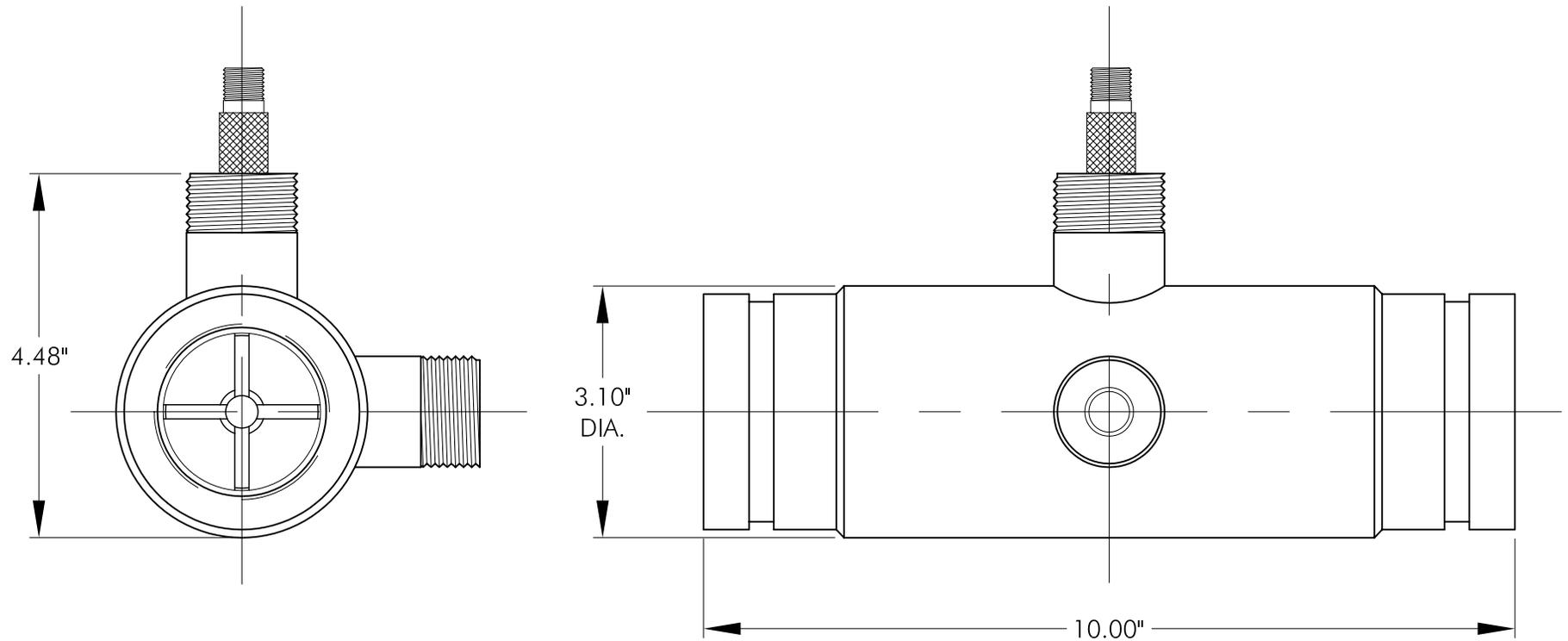
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 40-400 GPM

PRESSURE RATING: 2500 PSI

NOTE:

2" TURBINE REPAIR KIT PART NUMBER: 5.250

FLOW METER INSTALLATION DRAWING

2" x 2.5" TURBINE FLOW METER WITH VICTAULIC END SEALS, PART NO. 5.2520

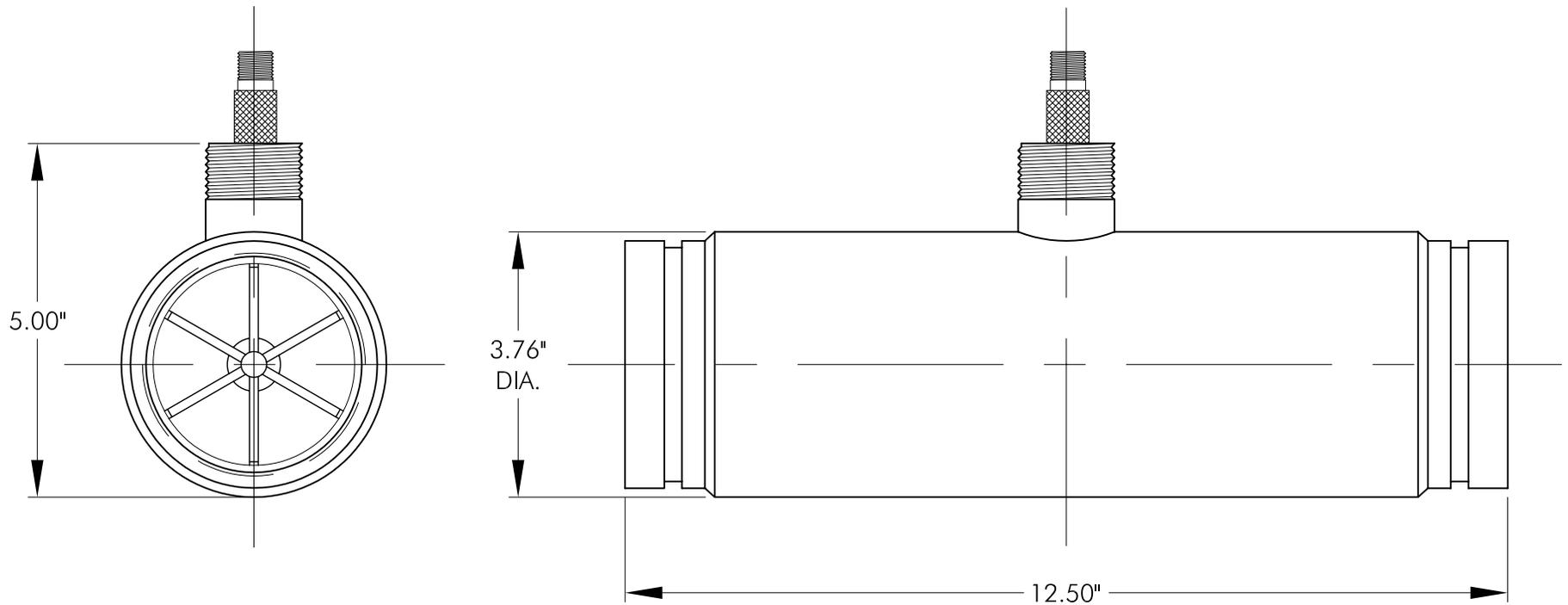
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 60-600 GPM

PRESSURE RATING: 1000 PSI

NOTE:

3" TURBINE REPAIR KIT PART NUMBER: 5.350

FLOW METER INSTALLATION DRAWING

3" x 3" TURBINE FLOW METER WITH VICTAULIC END SEALS, PART NO. 5.3000

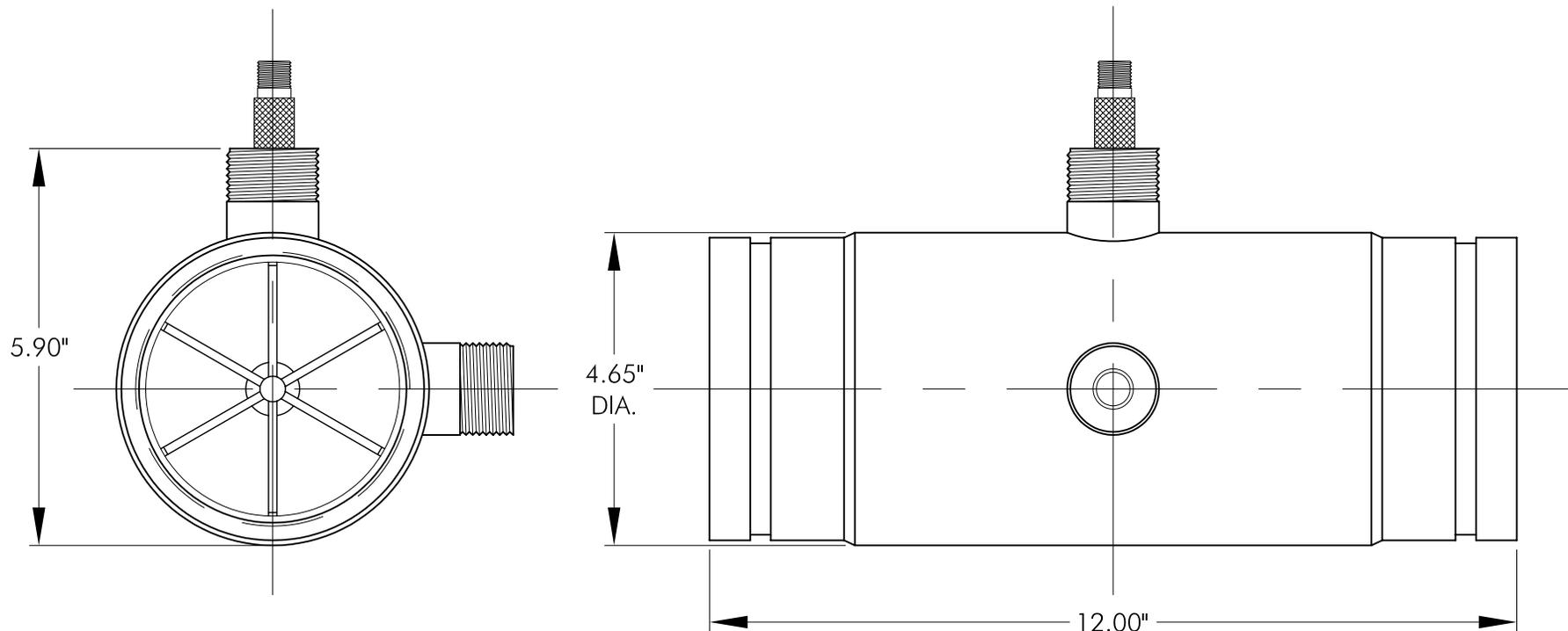
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 100-1200 GPM

PRESSURE RATING: 1000 PSI

NOTE:

4" TURBINE REPAIR KIT PART NUMBER: 5.450

FLOW METER INSTALLATION DRAWING

4" x 4" TURBINE FLOW METER WITH VICTAULIC END SEALS, PART NO. 5.4000-2

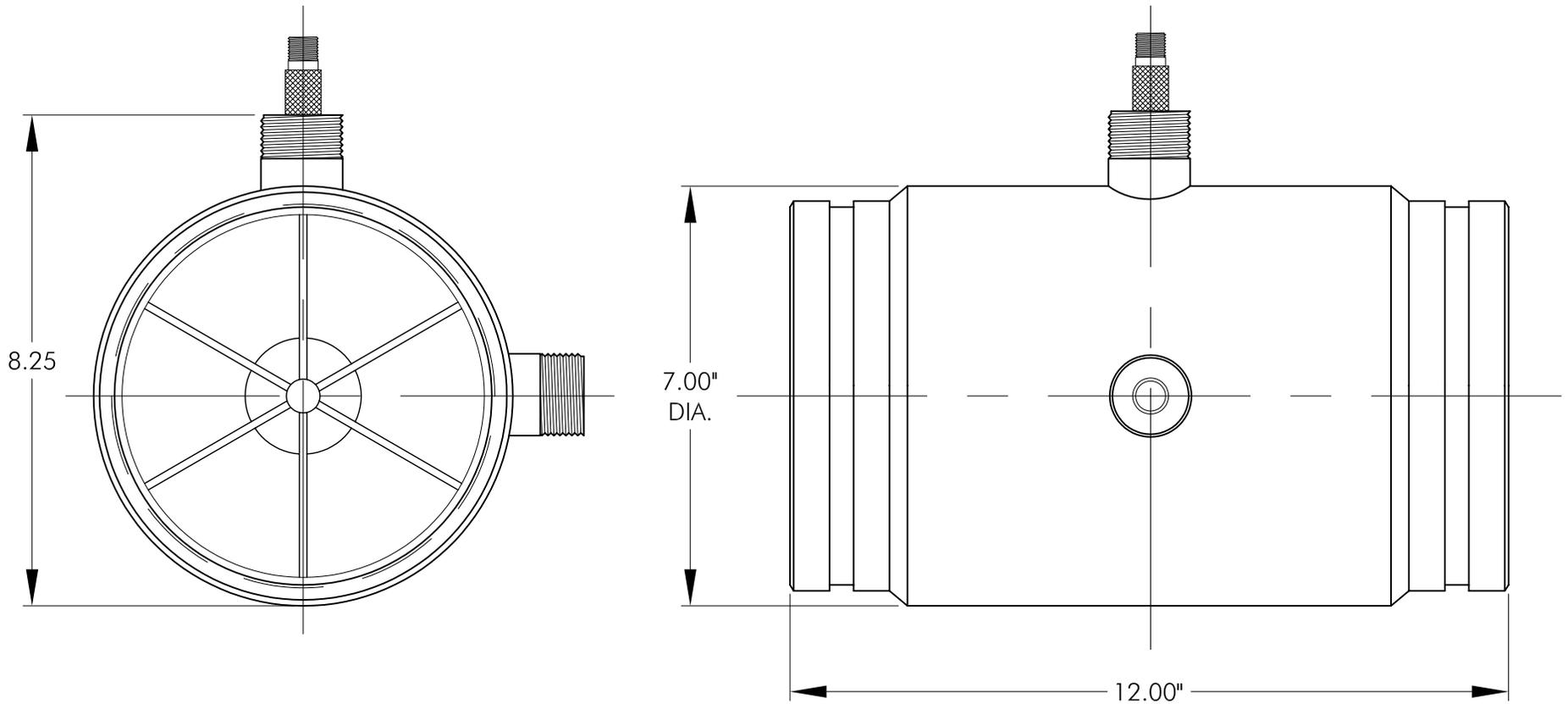
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 200-2500 GPM

PRESSURE RATING: 800 PSI

NOTE:

6" TURBINE REPAIR KIT PART NUMBER: 5.650

FLOW METER INSTALLATION DRAWING

6" x 6" TURBINE FLOW METER WITH VICTAULIC END SEALS, PART NO. 5.6000-2

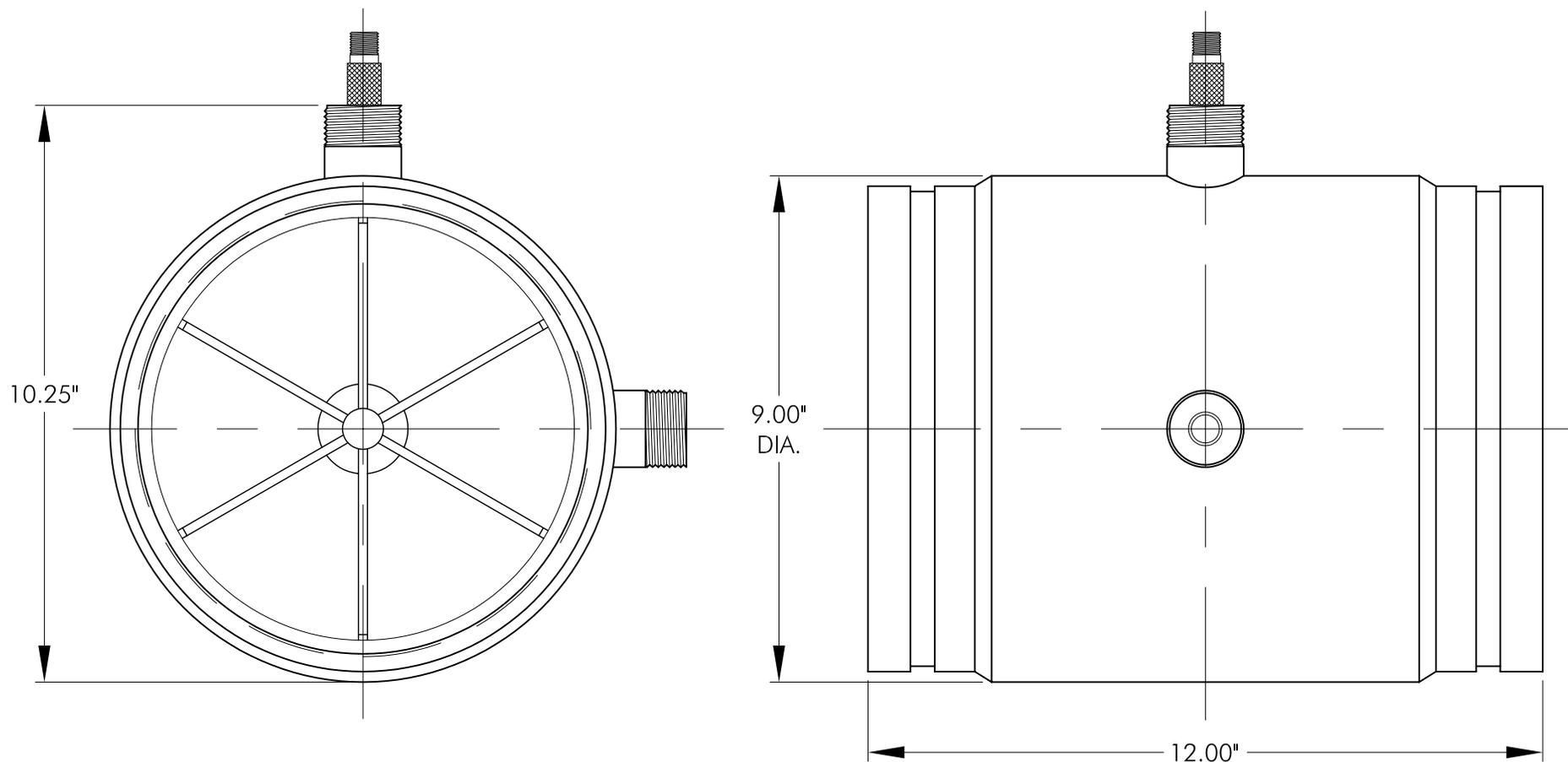
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 350-3500 GPM

PRESSURE RATING: 800 PSI

NOTE:

8" TURBINE REPAIR KIT PART NUMBER: 5.850

FLOW METER INSTALLATION DRAWING

8" x 8" TURBINE FLOW METER WITH VICTAULIC END SEALS, PART NO. 5.8000-2

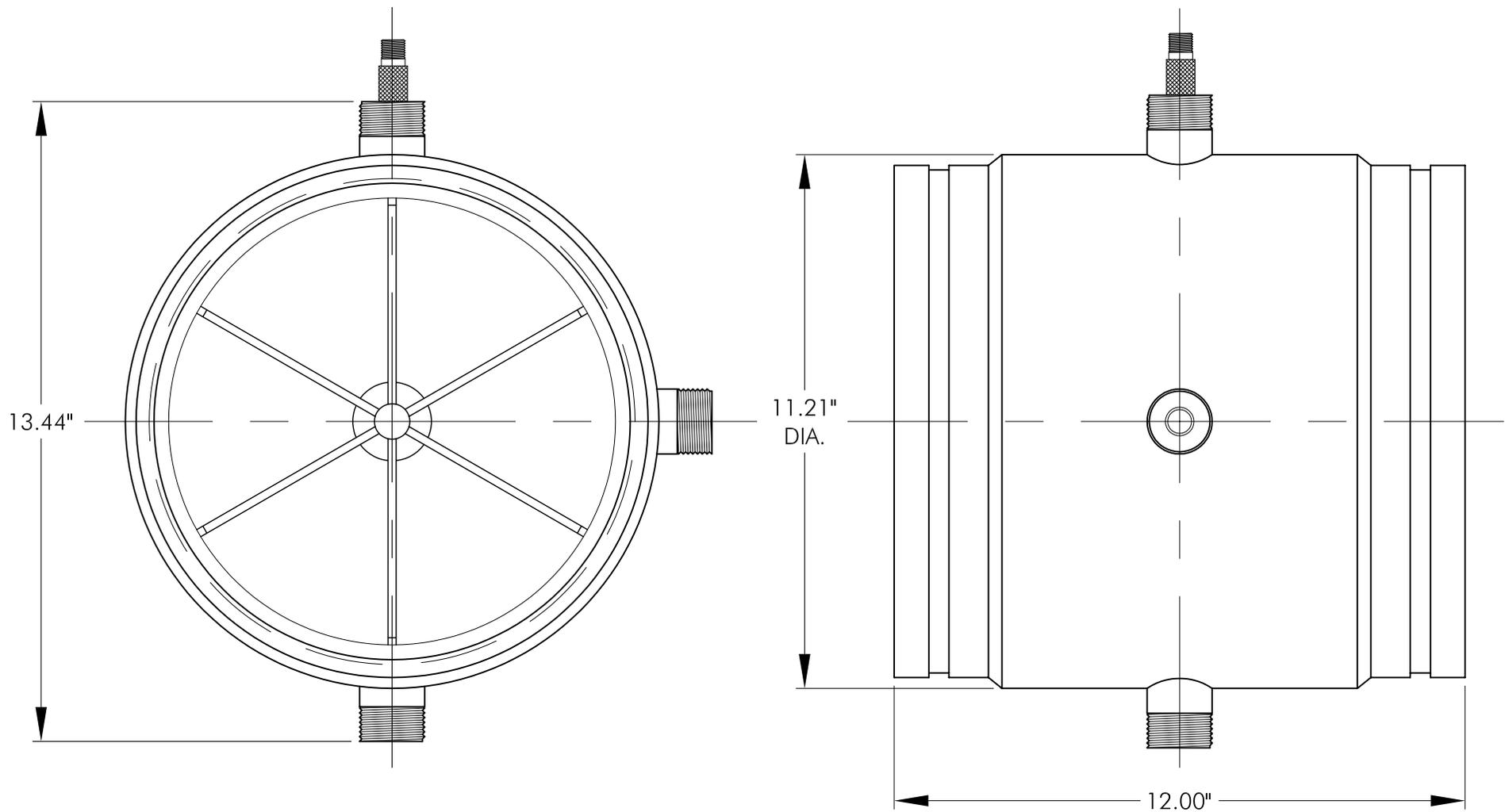
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:
 FLOW RATE: 550-5500 GPM
 PRESSURE RATING: 800 PSI

NOTE:
 10" TURBINE REPAIR KIT PART NUMBER: 5.1050

FLOW METER INSTALLATION DRAWING

10" x 10" TURBINE FLOW METER WITH VICTAULIC END SEALS, PART NO. 5.10000-3

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Electronic Data Devices

Turbine Flow Meters



Standard Flanged Turbine Flow Meters

Electronic Data Devices offers a complete line of turbine flow meters that are available with ranges from 0.3 GPM to 5500 GPM covering a wide range of measurement applications. Our turbine flow meters are manufactured to the highest quality standards, and are available with a wide range of end connections compatible with many applications. Some of the typical applications include: oilfield waterflood, production, well servicing, pipelines, mining, chemicals, food and beverage industry, and most other liquid applications.

Standard flanged turbine flow meters are available with raised face or ring joint ANSI B16.5 rated flanges, carbon steel, 304SS or 316SS. Operating pressure will be determined by the ANSI flange series and ratings. Flanged meters are available with the following ratings 150#, 300#, 600#, 900# and 1500# in the following sizes 1", 1.5", 2", 3", 4", 6", 8" and 10".

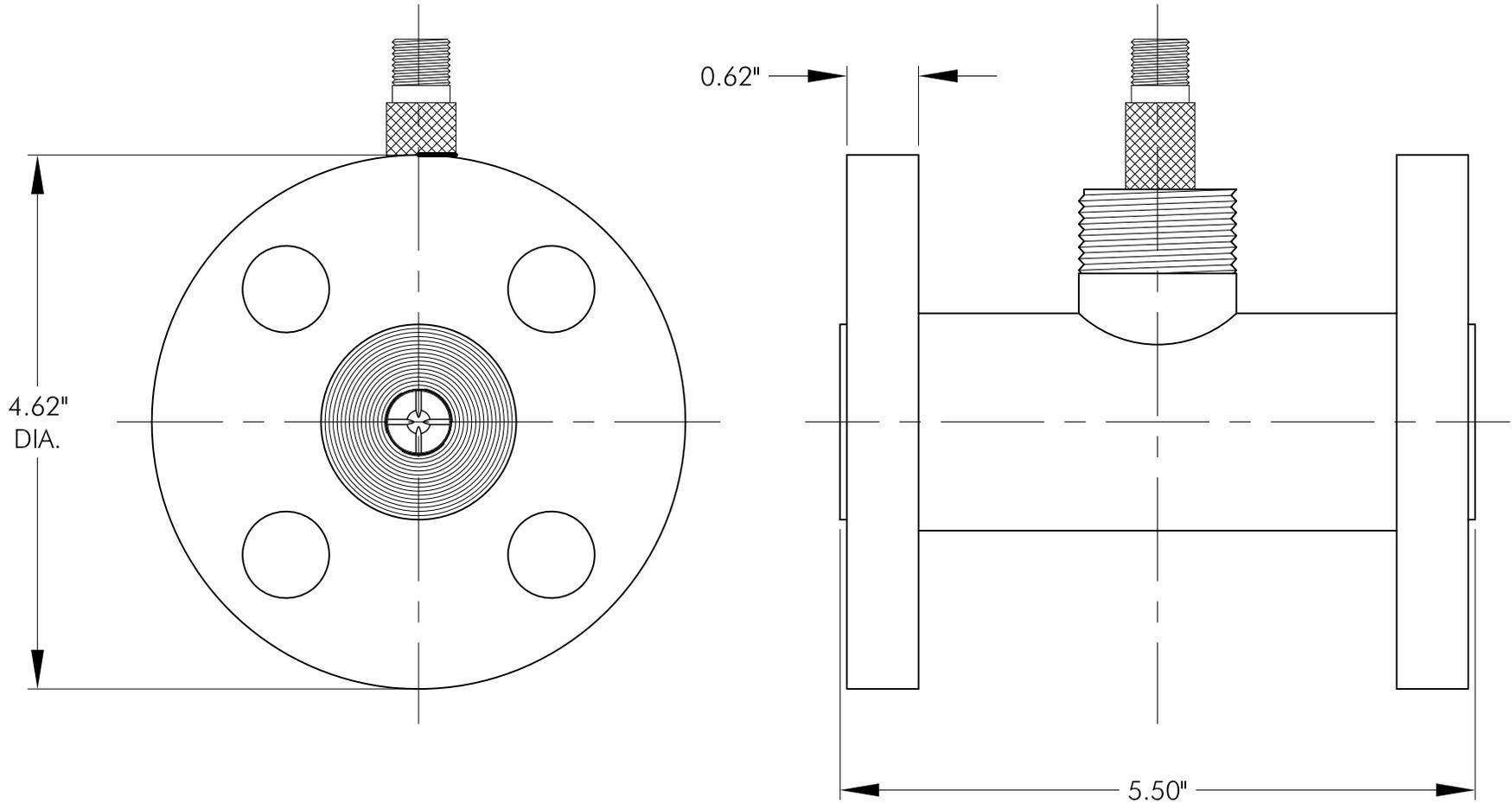
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rk@eddevices.com

• Website
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 2 - 15 GPM
 PRESSURE RATING: 720 PSI

NOTE:

3/4" TURBINE REPAIR KIT PART NUMBER: 5.075

FLOW METER INSTALLATION DRAWING

3/4" X 3/4" FLOW METER W/ 300 SERIES RAISED FACE FLANGES, PART NO. 3.0750-300

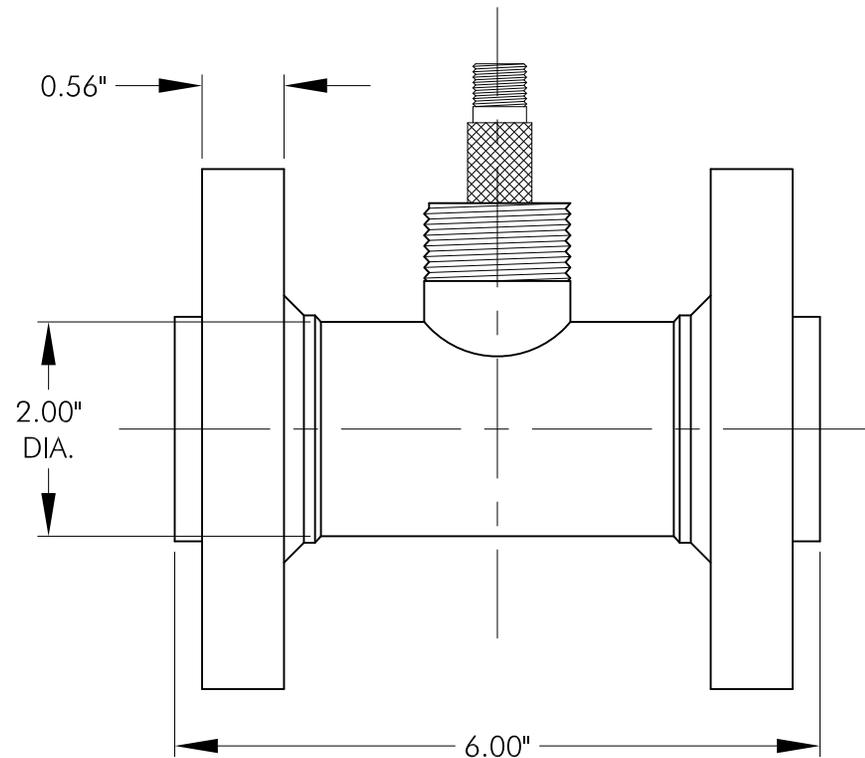
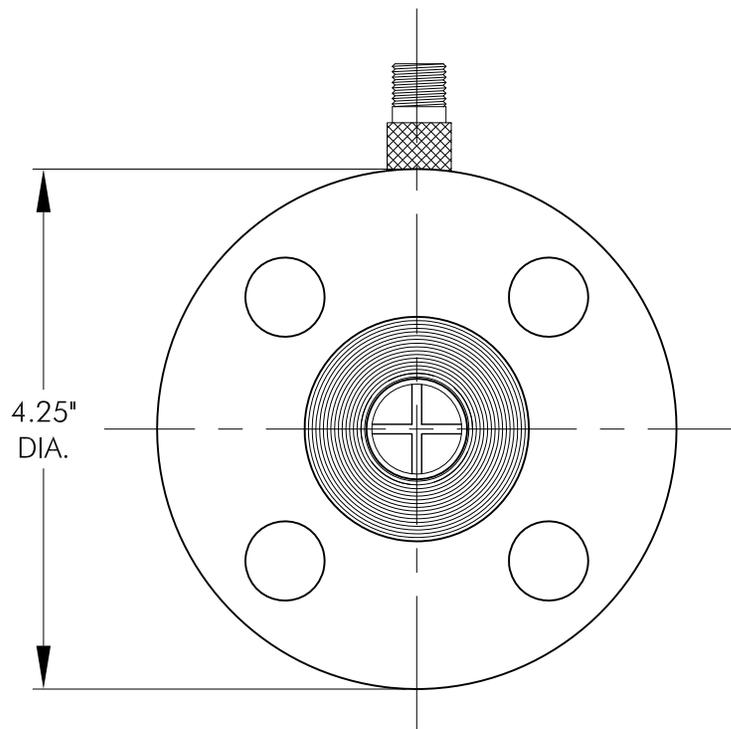
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 5-50 GPM

PRESSURE RATING: 275 PSI

NOTE:

1" TURBINE REPAIR KIT PART NUMBER: 5..100

FLOW METER INSTALLATION DRAWING

1" TURBINE FLOW METER WITH 150 LBS. RAISED FACE FLANGES, PART NO. 3.1000-150

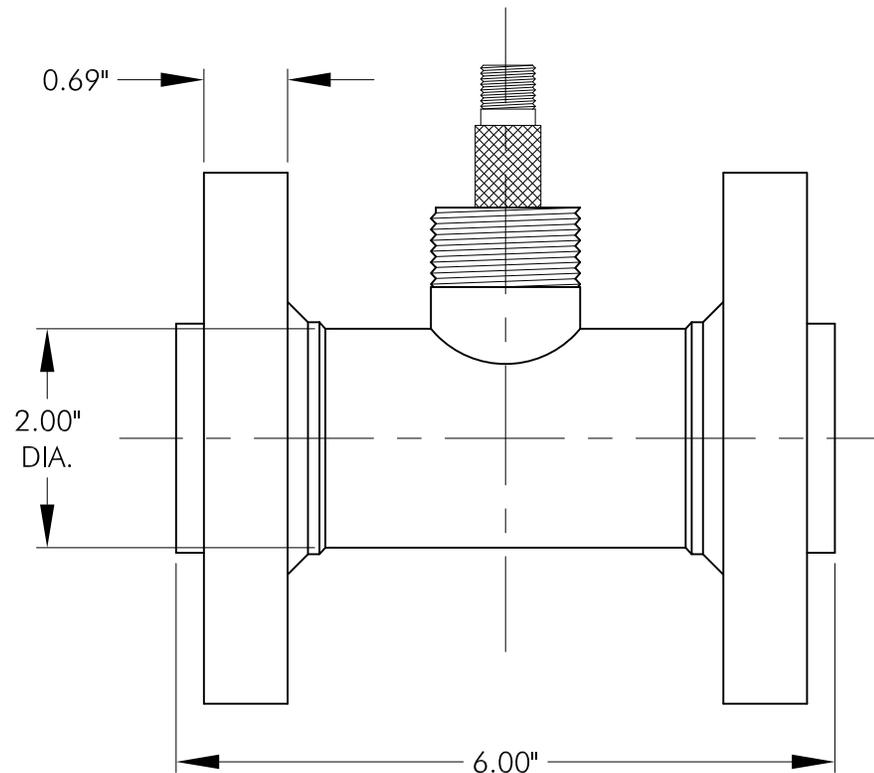
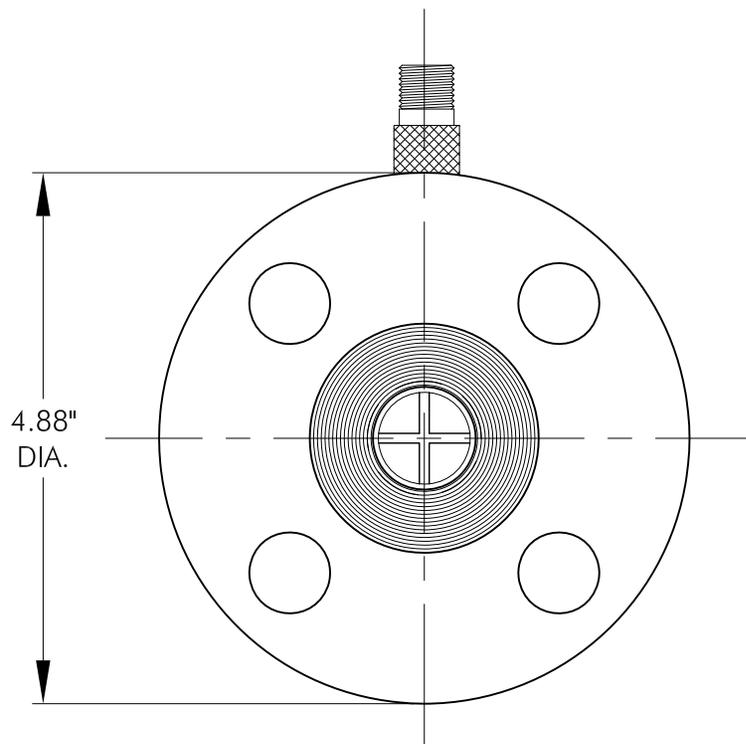
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 5-50 GPM

PRESSURE RATING: 720 PSI

NOTE:

1" TURBINE REPAIR KIT PART NUMBER: 5.100

FLOW METER INSTALLATION DRAWING

1" TURBINE FLOW METER WITH 300 LBS. RAISED FACE FLANGES, PART NO. 3.1000-300

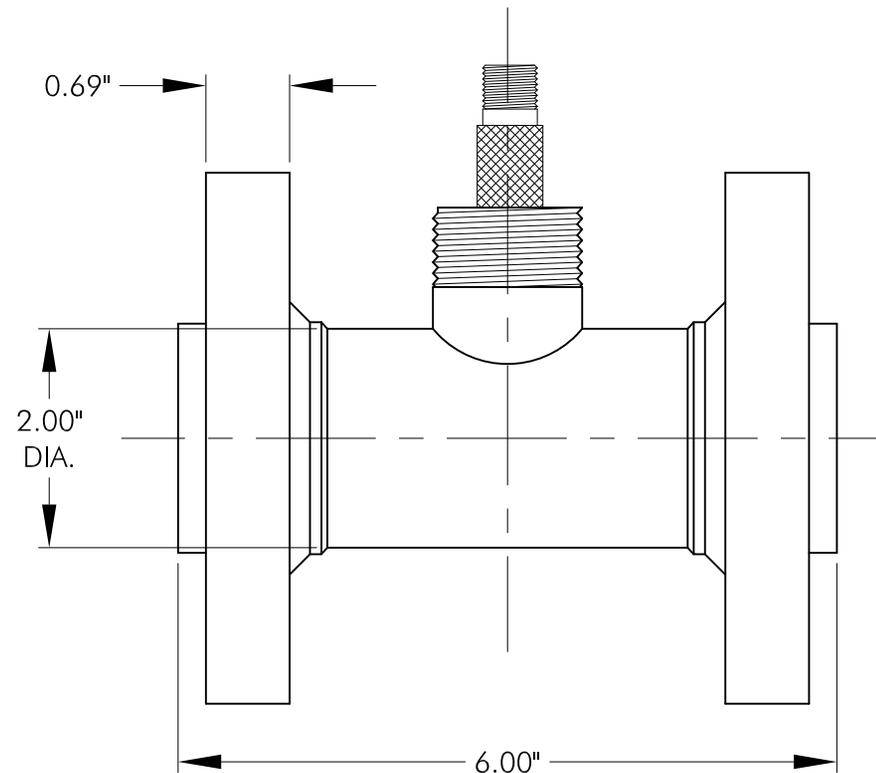
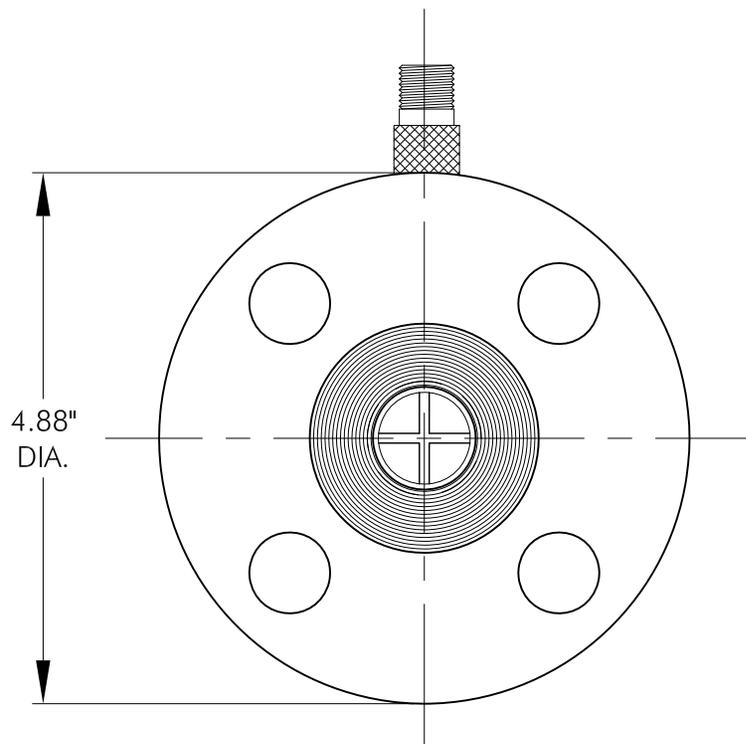
P.O. Box 12128

Odessa, TX 79768

Phone: 432-366-8699 Fax: 432-366-1106

E-mail: rkw@eddevices.com Website: www.eddevices.com





NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 5-50 GPM

PRESSURE RATING: 1400 PSI

NOTE:

1" TURBINE REPAIR KIT PART NUMBER: 5.100

FLOW METER INSTALLATION DRAWING

1" TURBINE FLOW METER WITH 600 LBS. RAISED FACED FLANGES, PART NO. 3.1000-600

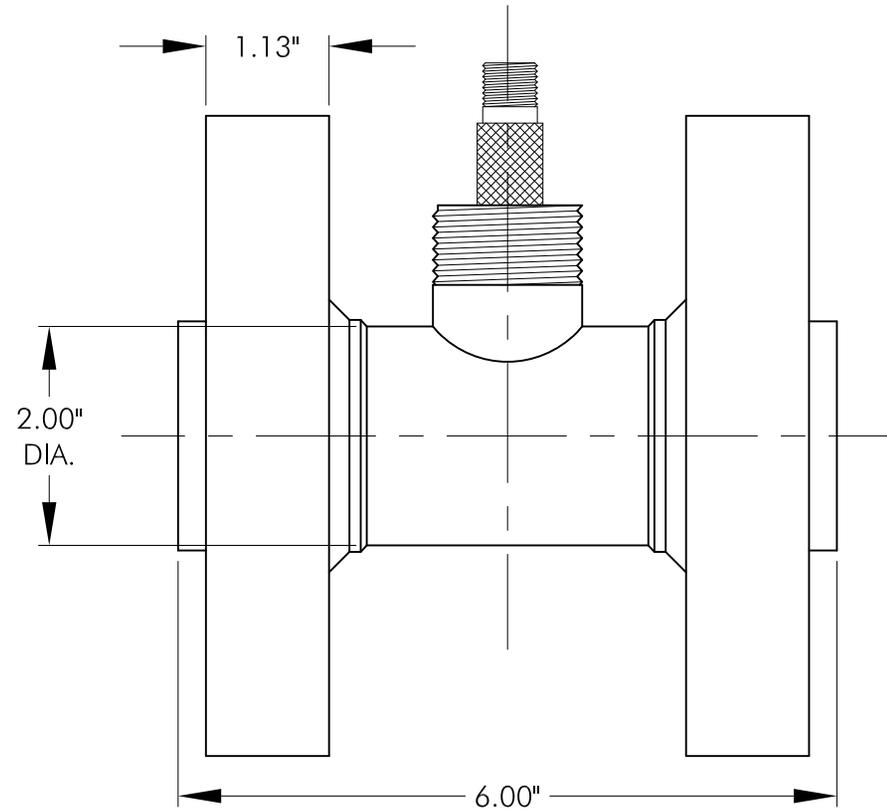
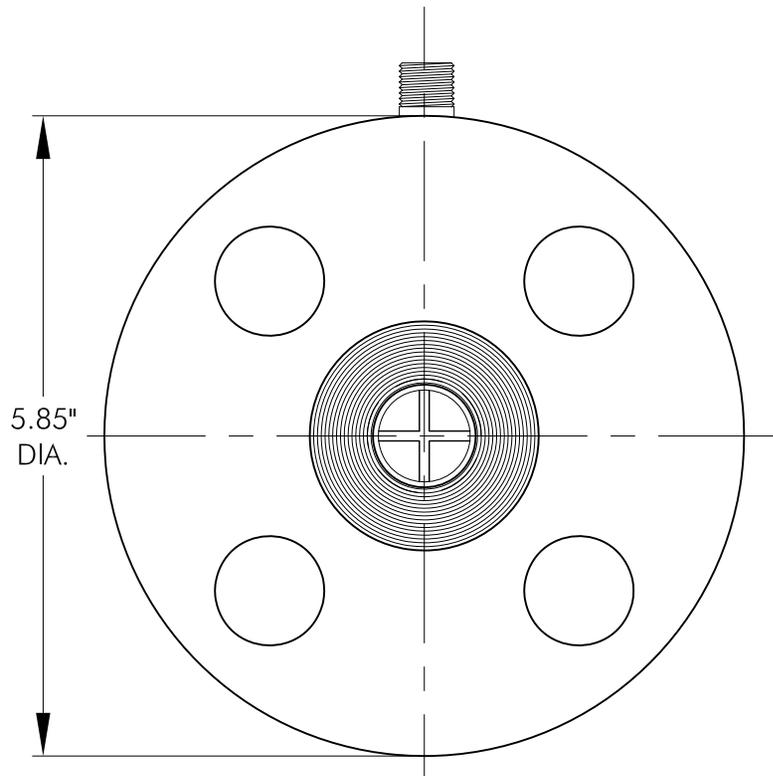
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 5-50 GPM

PRESSURE RATING: 2160 PSI

NOTE:

1" TURBINE REPAIR KIT PART NUMBER: 5.100

FLOW METER INSTALLATION DRAWING

1" TURBINE FLOW METER WITH 900 LBS. RAISED FACE FLANGES, PART NO. 3.1000-900

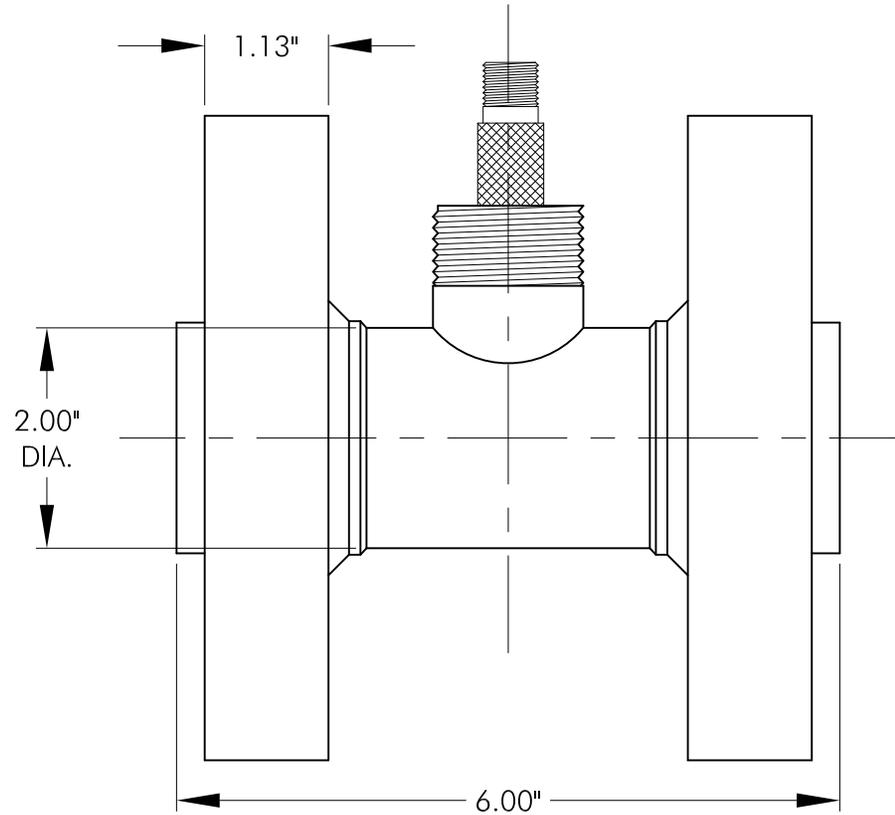
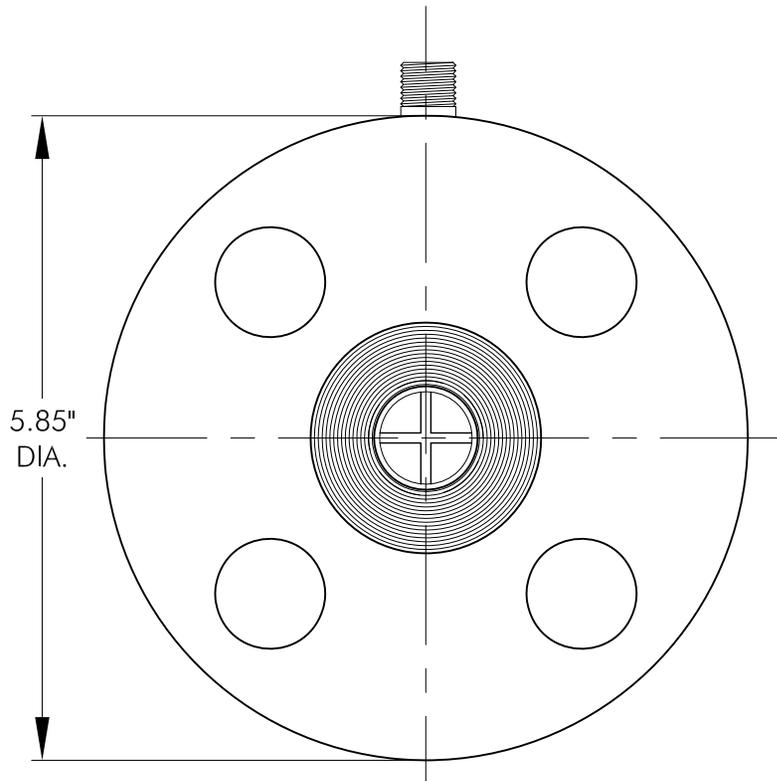
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 5-50 GPM

PRESSURE RATING: 3600 PSI

NOTE:

1" TURBINE REPAIR KIT PART NUMBER: 5.100

FLOW METER INSTALLATION DRAWING

1" TURBINE FLOW METER WITH 1500 LBS. RAISED FACE FLANGES, PART NO. 3.1000-1500

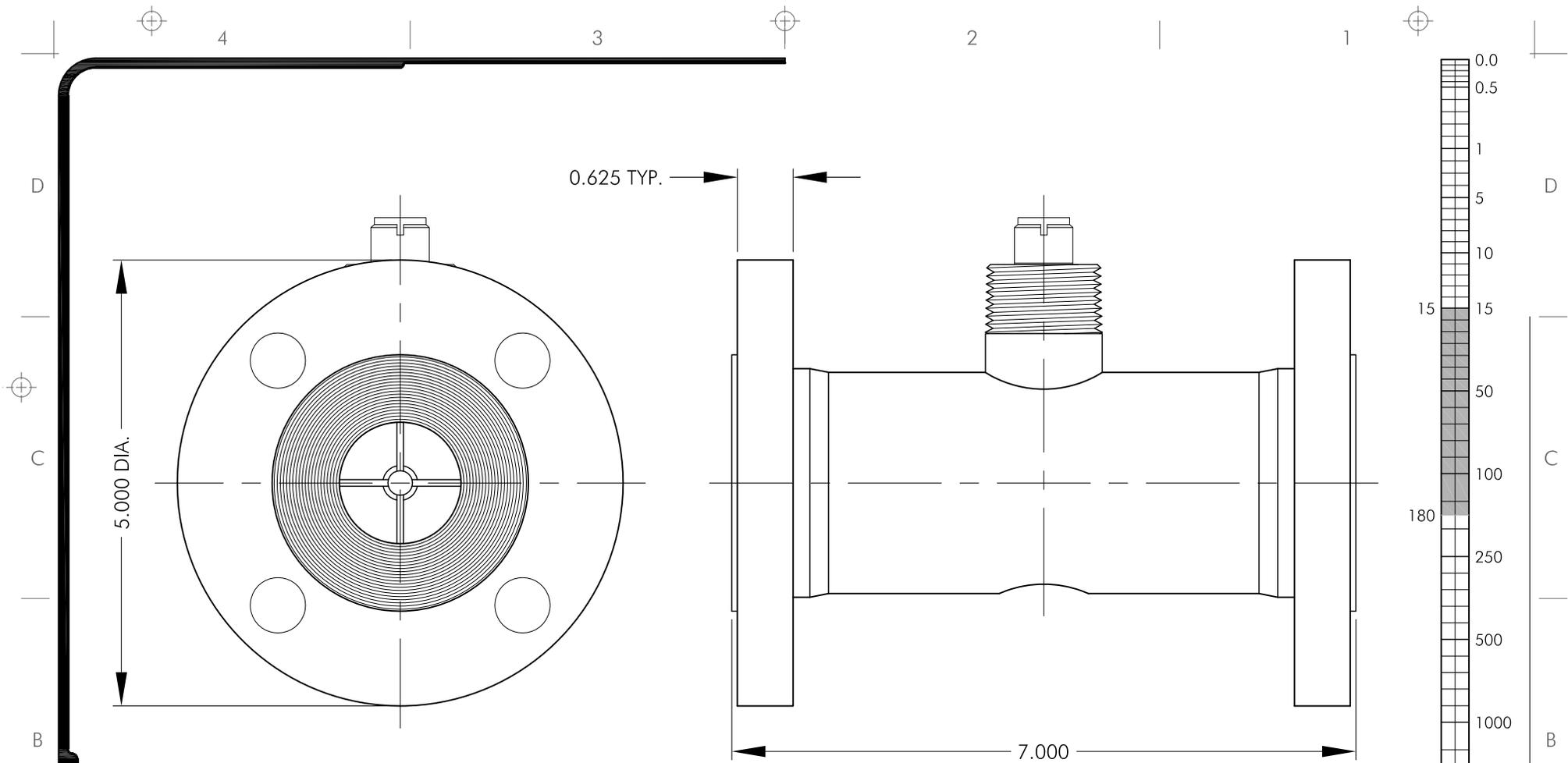
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OPTIONS

FLANGE TYPE
 CARBON STEEL - 3.1500-150CS
 STAINLESS STEEL - 3.1500-150SS316
 SILVER SOLDER
 ROTOR ONLY - ADD -SS TO PART NUMBER
 METER KIT - ADD -SSK TO PART NUMBER

NICKEL PLATING
 ROTOR ONLY - ADD -NP TO PART NUMBER
 METER KIT - ADD -NPK TO PART NUMBER

REPAIR KIT - 5.150
 SUGGESTED MAGNETIC PICKUP - 4.303

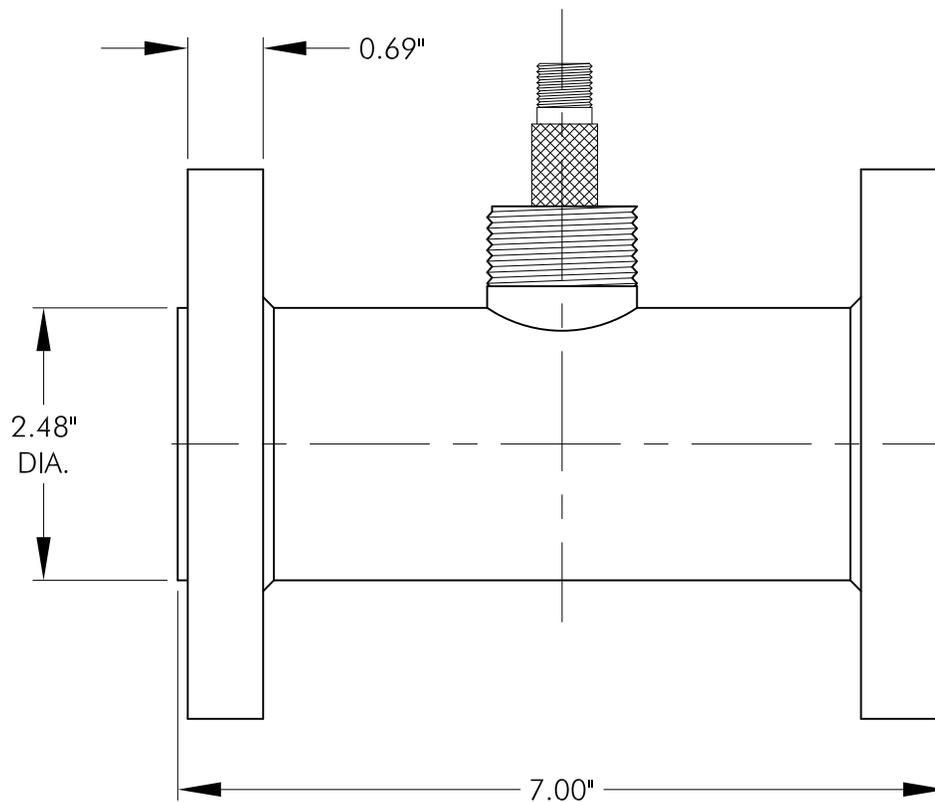
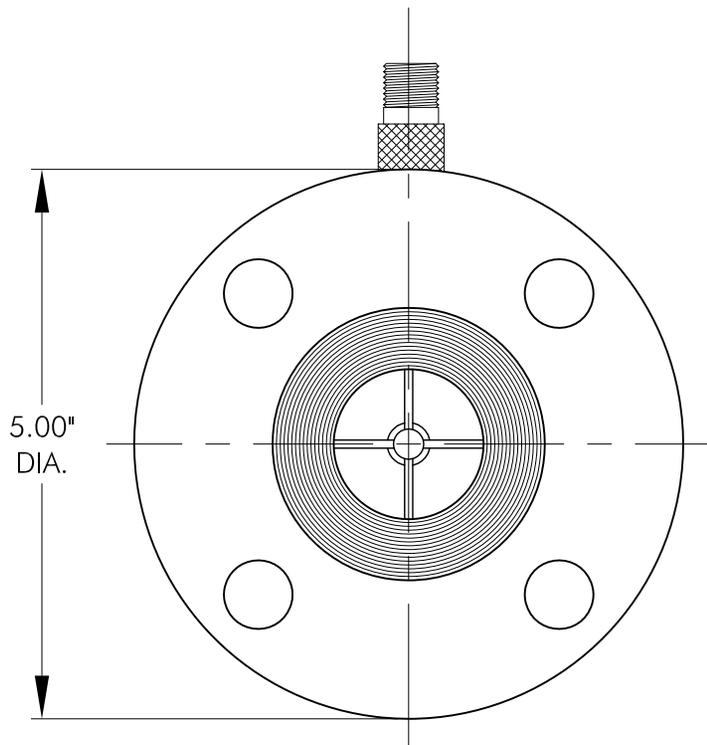
INSTALLATION DRAWING
 1 1/2" x 1 1/2" FLANGED METER WITH CLASS 150 FLANGES
 PART NUMBER: 3.1500-150

DESIGN DATA
 MAXIMUM ALLOWABLE WORKING PRESSURE
 (M.A.W.P.) - 275 psi
 DESIGN TEMPERATURE - -20 °F to 100 °F
 MATERIAL SPECIFICATIONS - A-351 CF8M or A-351 CF3M
 DESIGNED & FABRICATED TO A.S.M.E. B31.3



EDD Electronic Data Devices
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 15-180 GPM

PRESSURE RATING: 275 PSI

NOTE:

1.5" TURBINE REPAIR KIT PART NUMBER: 5.150

FLOW METER INSTALLATION DRAWING

1.5" TURBINE FLOW METER WITH 150LBS. RAISED FACED FLANGES, PART NO. 3.1500-150

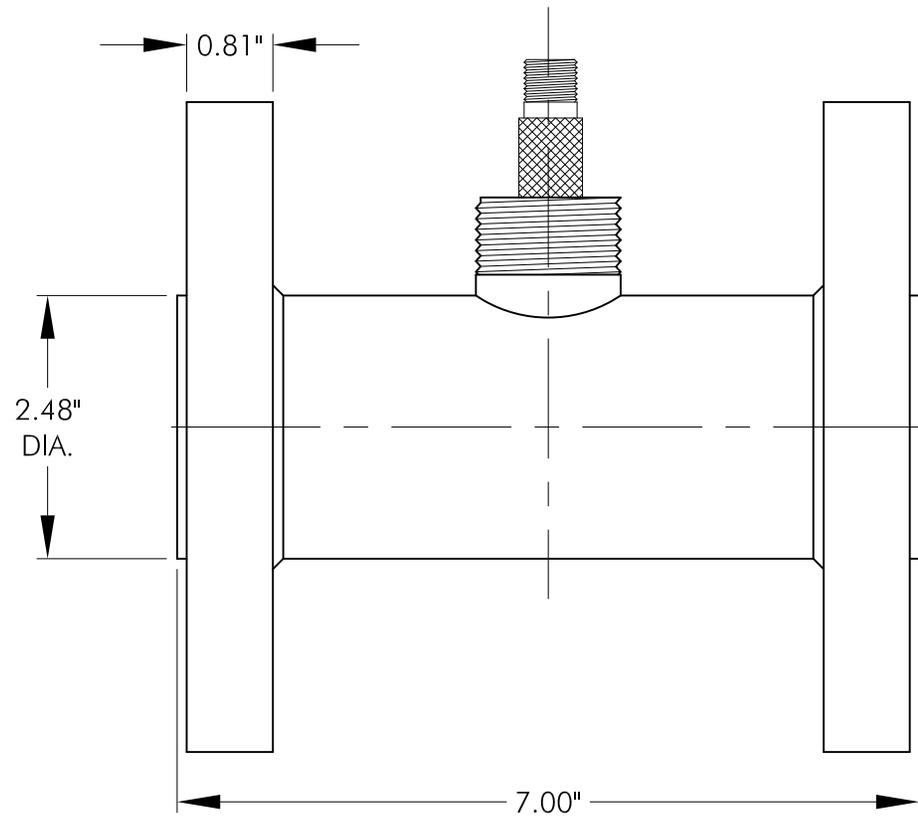
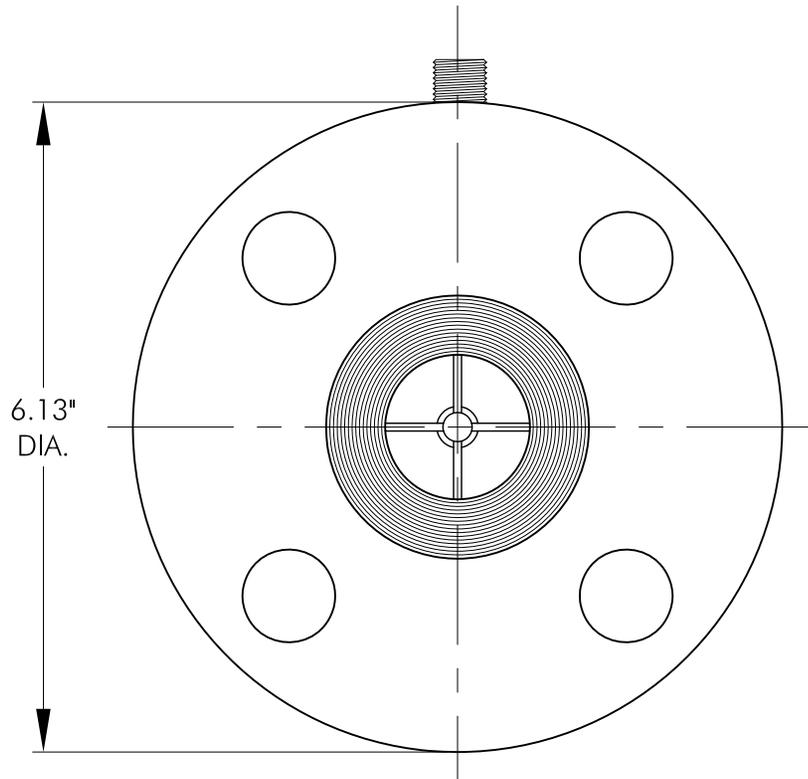
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 15-180 GPM
 PRESSURE RATING: 720 PSI

NOTE:

1.5" TURBINE REPAIR KIT PART NUMBER: 5.150

FLOW METER INSTALLATION DRAWING

1.5" TURBINE FLOW METER WITH 300 LBS. RAISED FACE FLANGES, PART NO. 3.1500-300

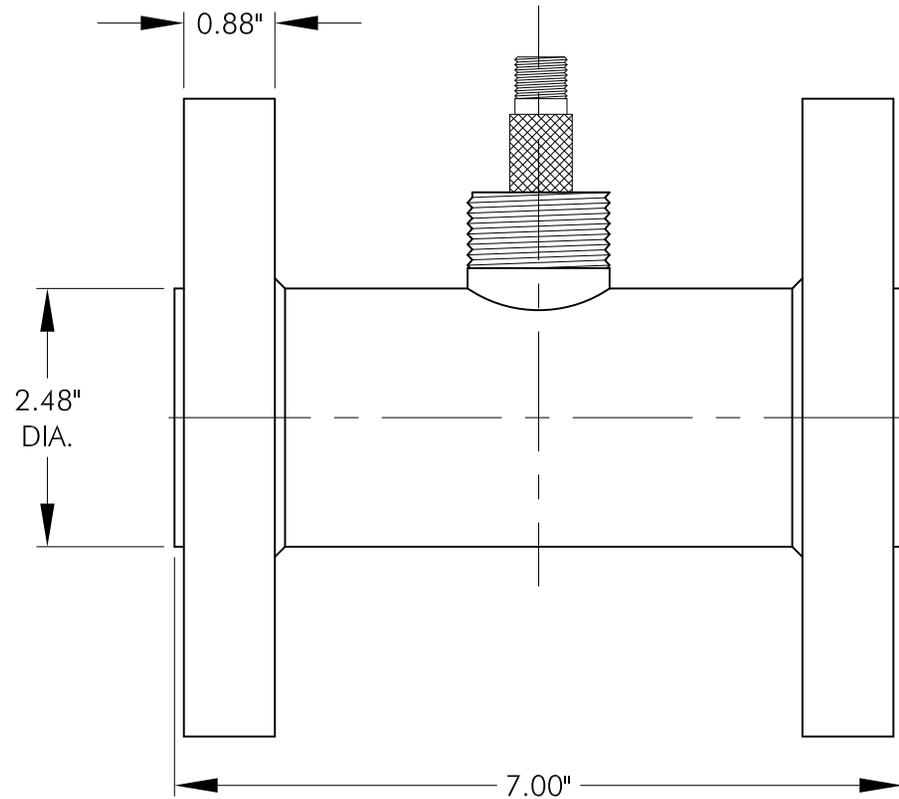
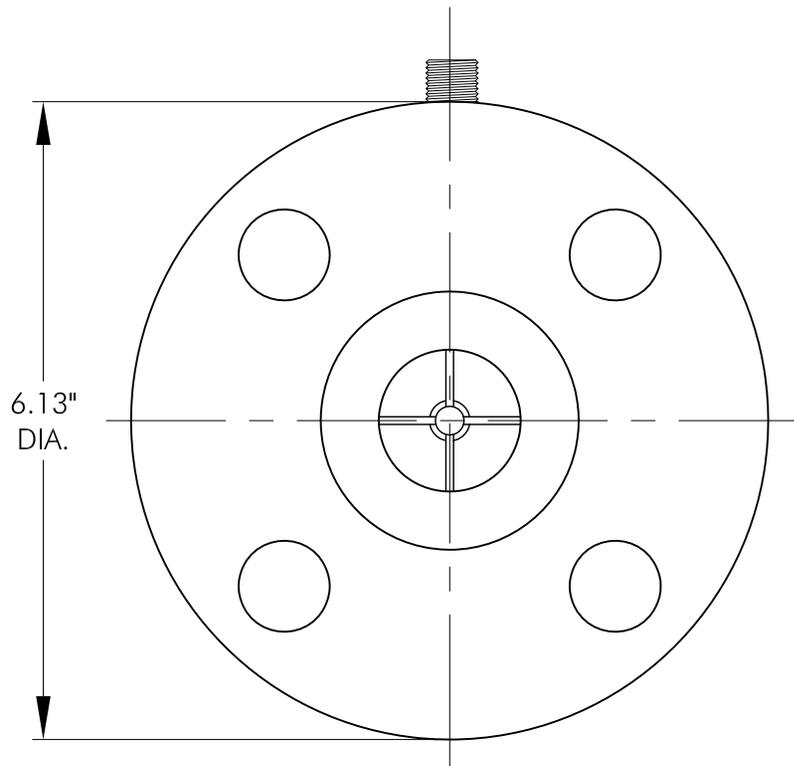
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 15-180 GPM

PRESSURE RATING: 1440 PSI

NOTE:

1.5" TURBINE REPAIR KIT PART NUMBER: 5.150

FLOW METER INSTALLATION DRAWING

1.5" TURBINE FLOW METER WITH 600 LBS. RAISED FACE FLANGES, PART NO. 3.1500-600

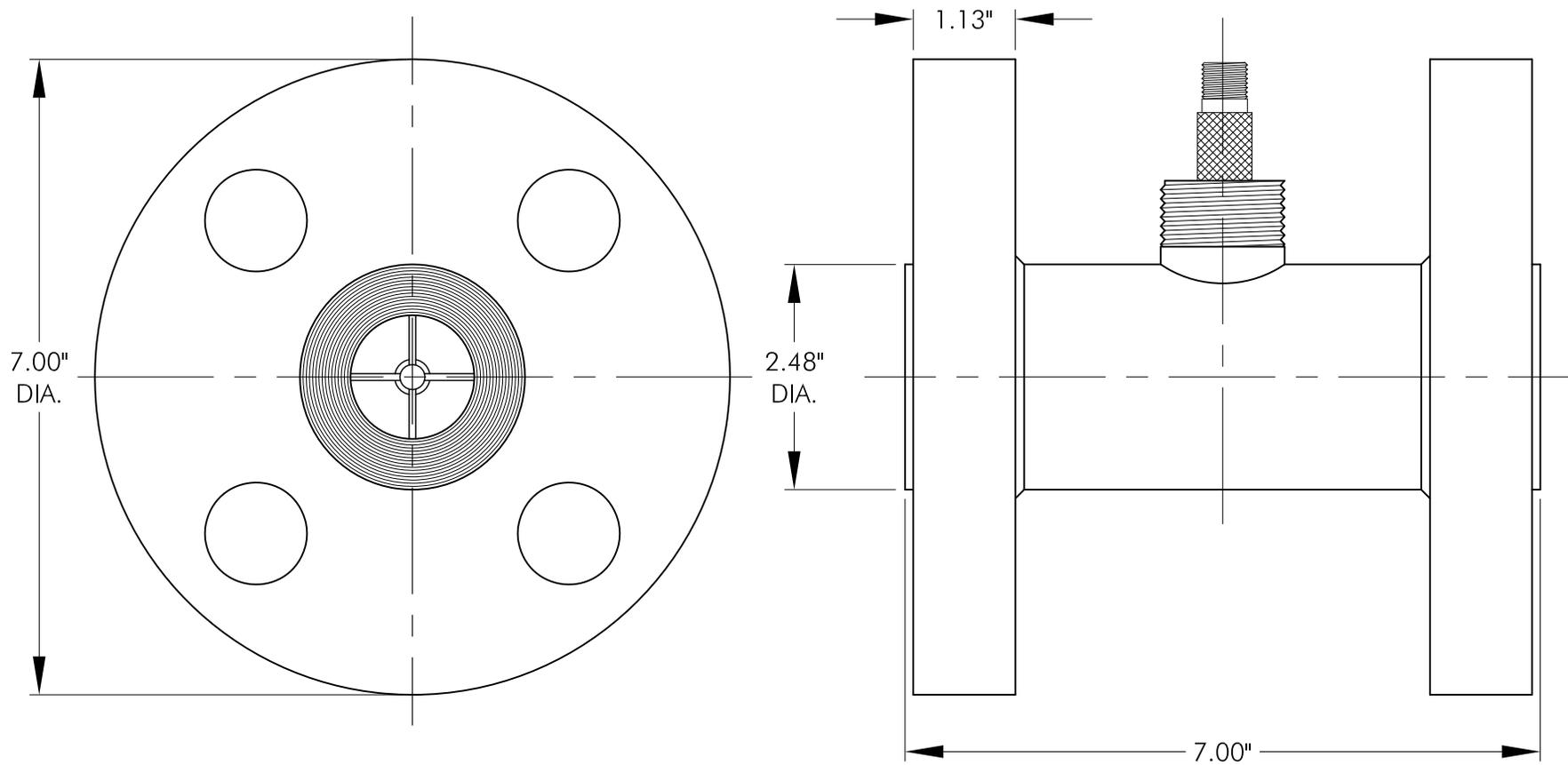
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 15-180 GPM

PRESSURE RATING: 2160 PSI

NOTE:

1.5" TURBINE REPAIR KIT PART NUMBER: 5.150

FLOW METER INSTALLATION DRAWING

1.5" TURBINE FLOW METER WITH 900 LBS. RAISED FACE FLANGES, PART NO. 3.1500-900

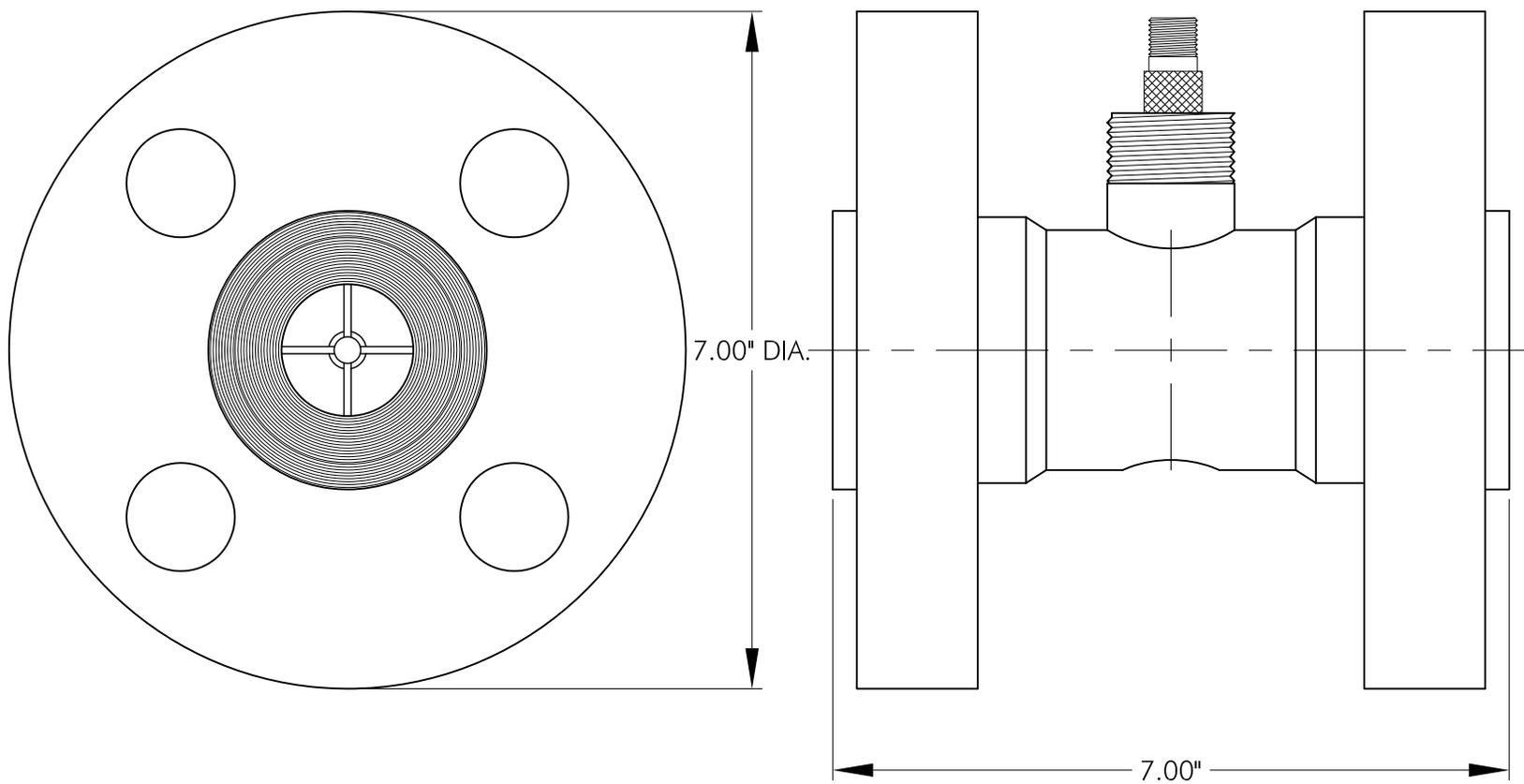
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 15-180 GPM
 PRESSURE RATING: 3600 PSI

NOTE:

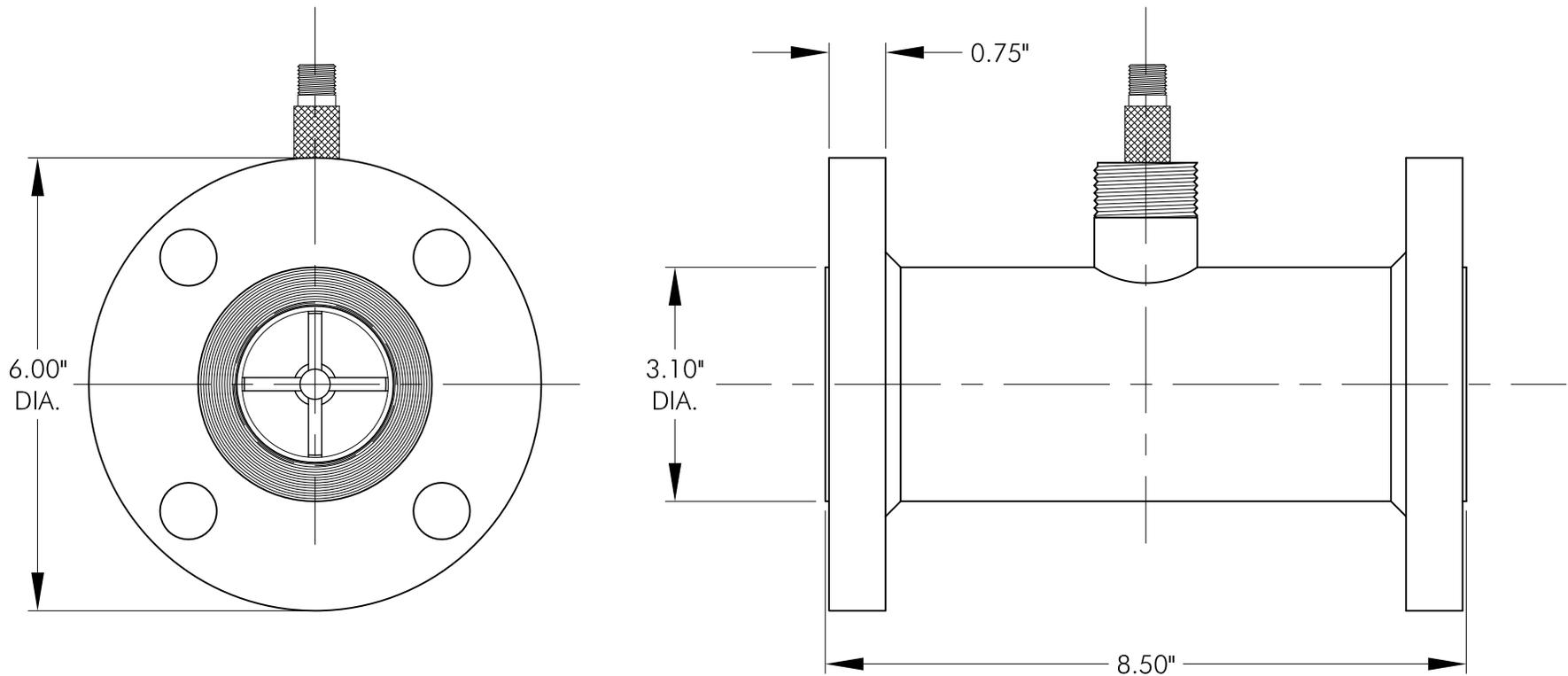
1.5" TURBINE REPAIR KIT PART NUMBER: 5.150

FLOW METER INSTALLATION DRAWING

1.5" TURBINE FLOW METER WITH 1500 LBS. RAISED FACE FLANGES, PART NO. 3.1500-1500

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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 40-400 GPM
 PRESSURE RATING: 275 PSI

NOTE:

2" TURBINE REPAIR KIT PART NUMBER: 5.250

FLOW METER INSTALLATION DRAWING

2" TURBINE FLOW METER WITH 150 LBS. RAISED FACE FLANGES, PART NO. 3.2000-150

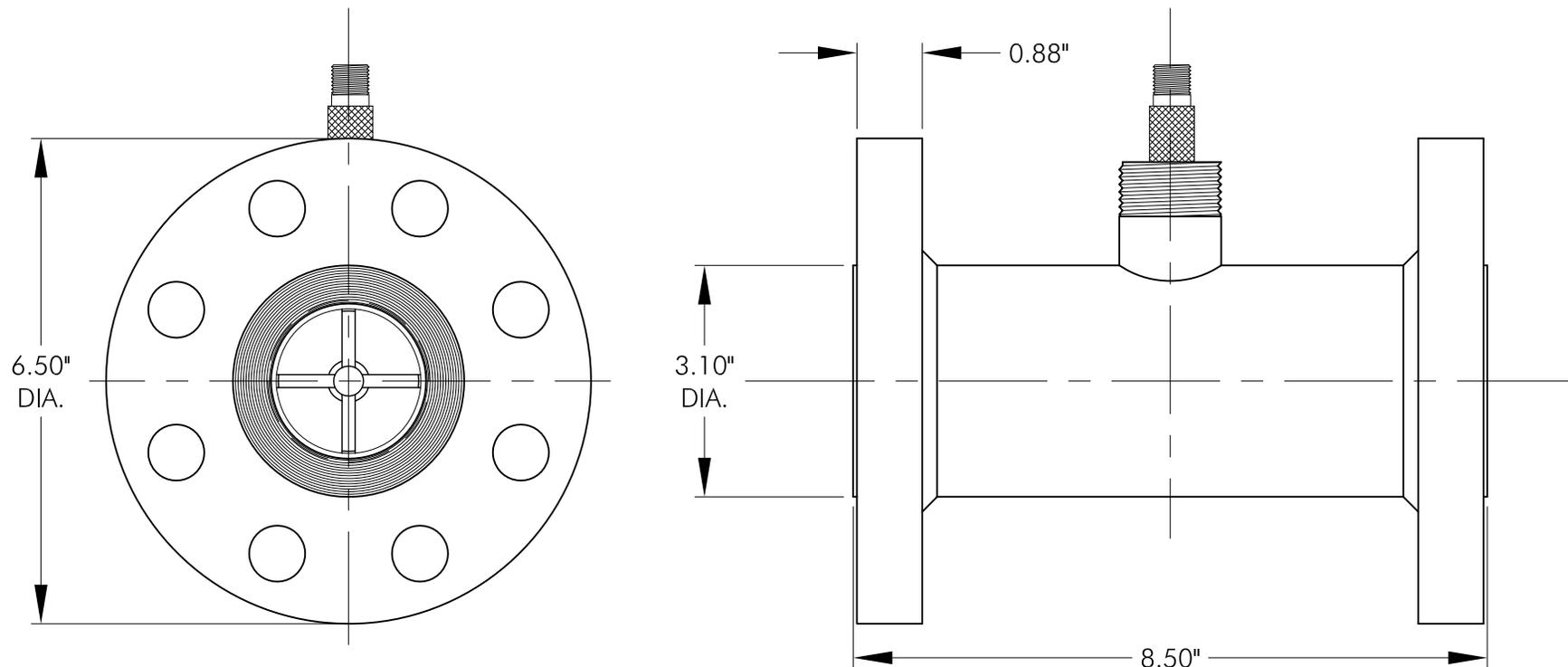
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 40-400 GPM
 PRESSURE RATING: 720 PSI

NOTE:

2" TURBINE REPAIR KIT PART NUMBER: 5.250

FLOW METER INSTALLATION DRAWING

2" TURBINE FLOW METER WITH 300 LBS. RAISED FACE FLANGES, PART NO. 3.2000-300

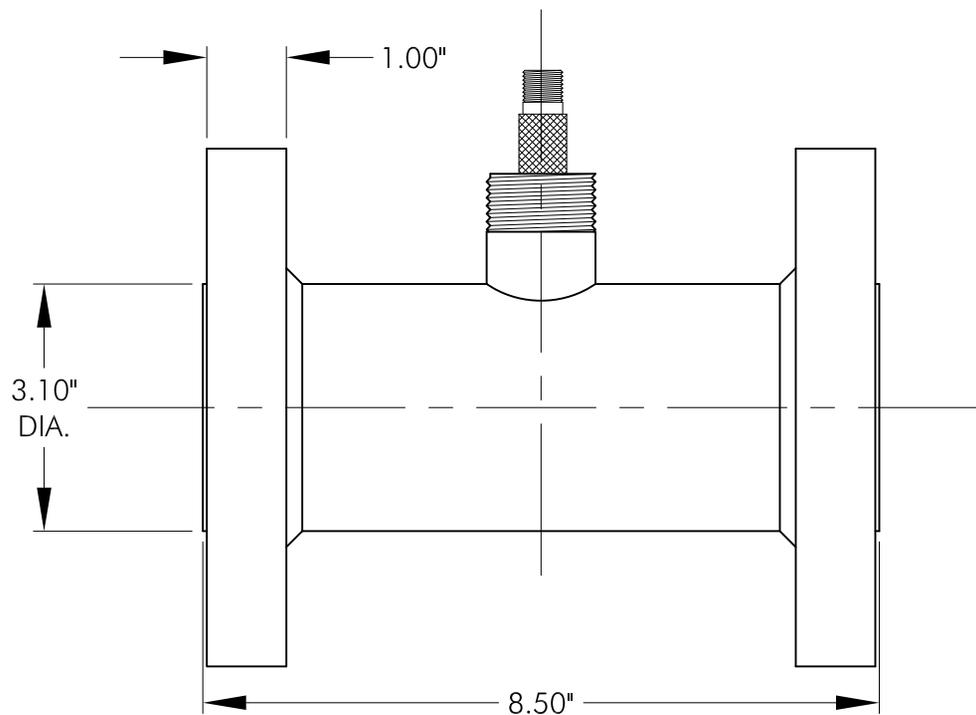
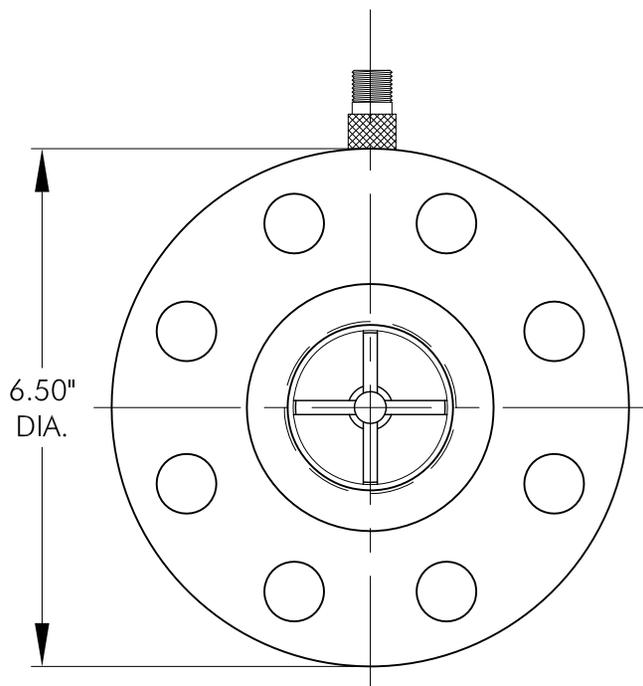
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 40-400 GPM

PRESSURE RATING: 1400 PSI

NOTE:

2" TURBINE REPAIR KIT PART NUMBER: 5.250

FLOW METER INSTALLATION DRAWING

2" TURBINE FLOW METER WITH 600 LBS. RAISED FACE FLANGES, PART NO. 3.2000-600

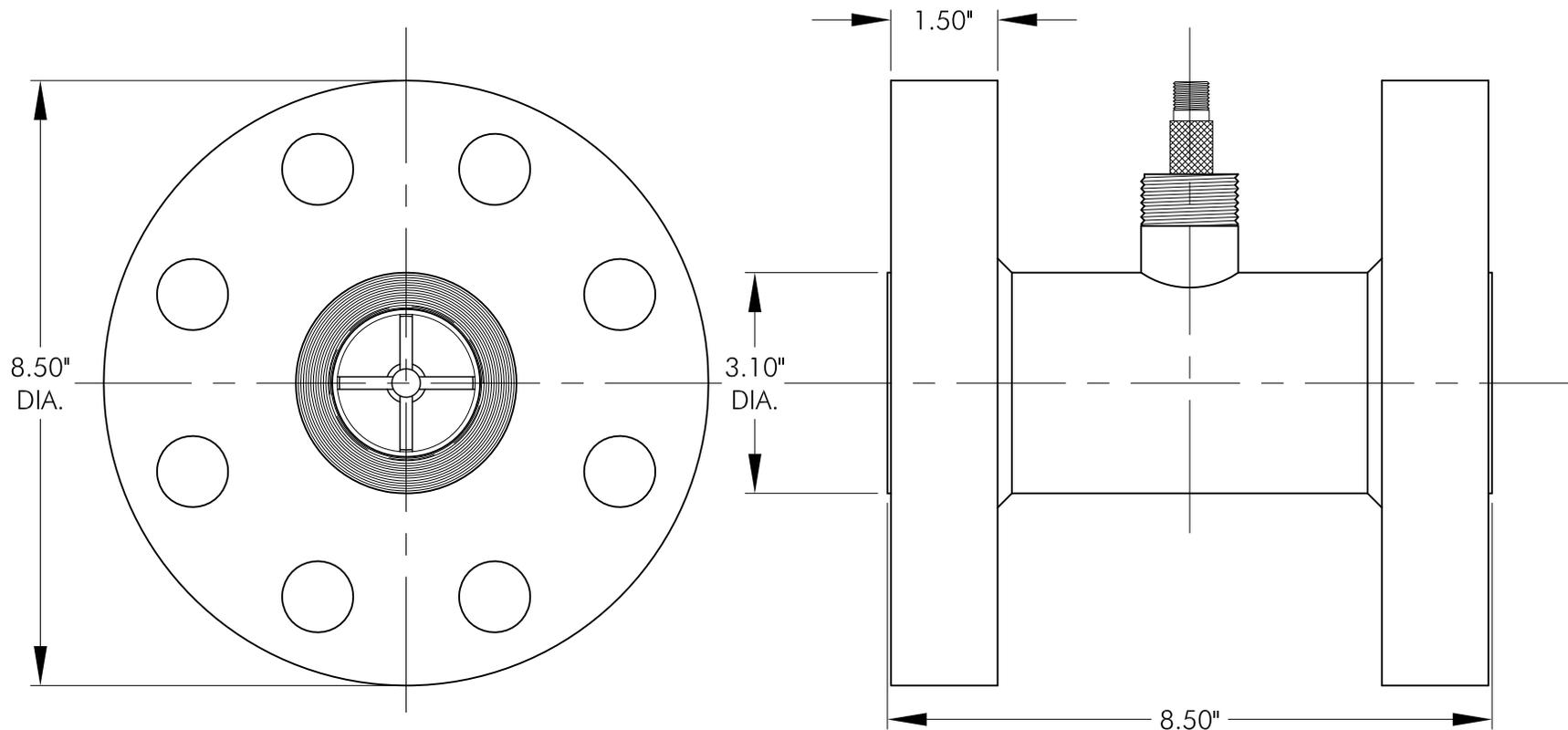
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 40-400 GPM

PRESSURE RATING: 2160 PSI

NOTE:

2" TURBINE REPAIR KIT PART NUMBER: 5.250

FLOW METER INSTALLATION DRAWING

2" TURBINE FLOW METER WITH 900 LBS. RAISED FACE FLANGES, PART NO. 3.2000-900

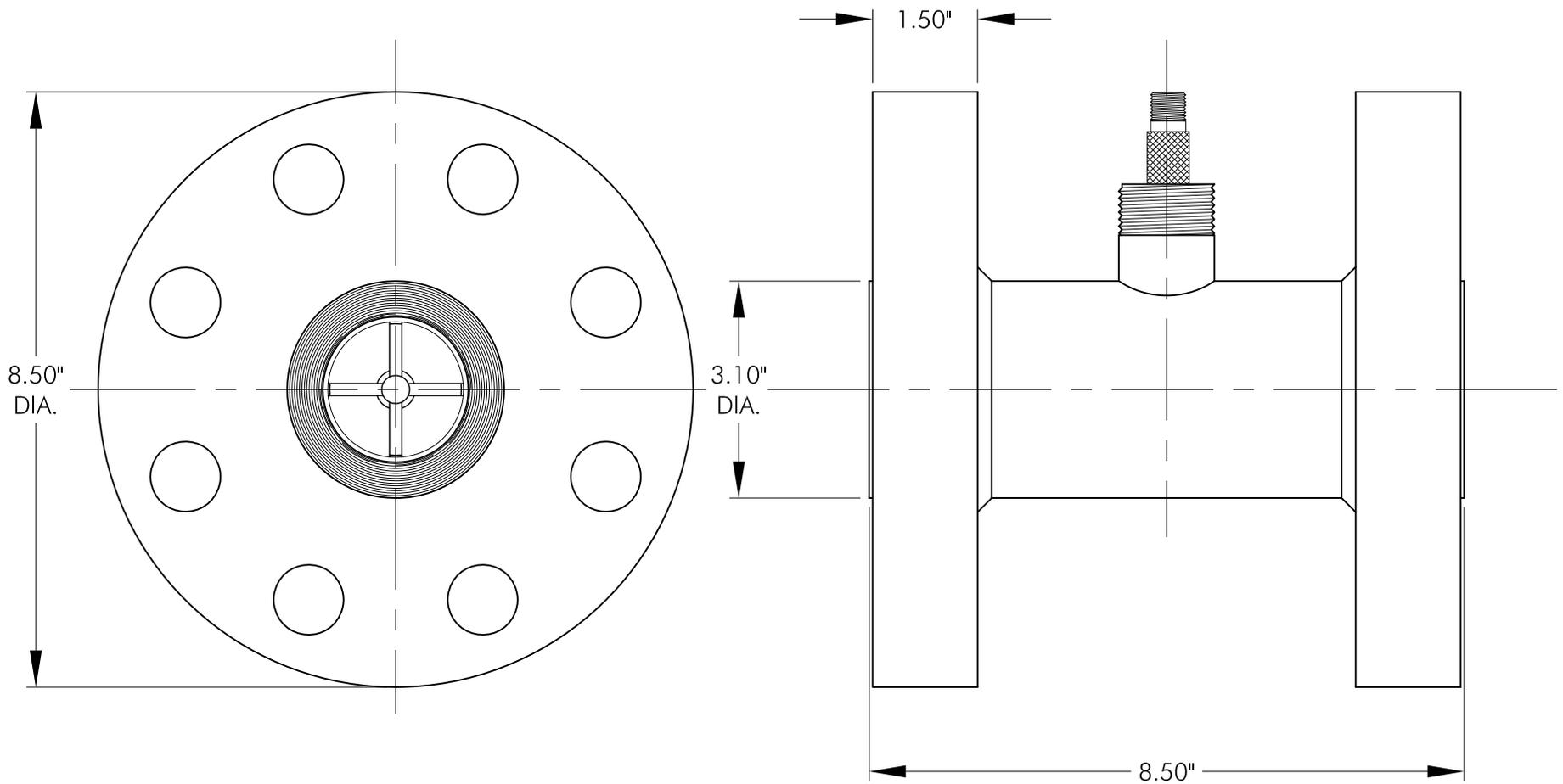
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 40-400 GPM

PRESSURE RATING: 3600 PSI

NOTE:

2" TURBINE REPAIR KIT PART NUMBER: 5.250

FLOW METER INSTALLATION DRAWING

2" TURBINE FLOW METER WITH 1500 LBS. RAISED FACE FLANGES, PART NO. 3.2000-1500

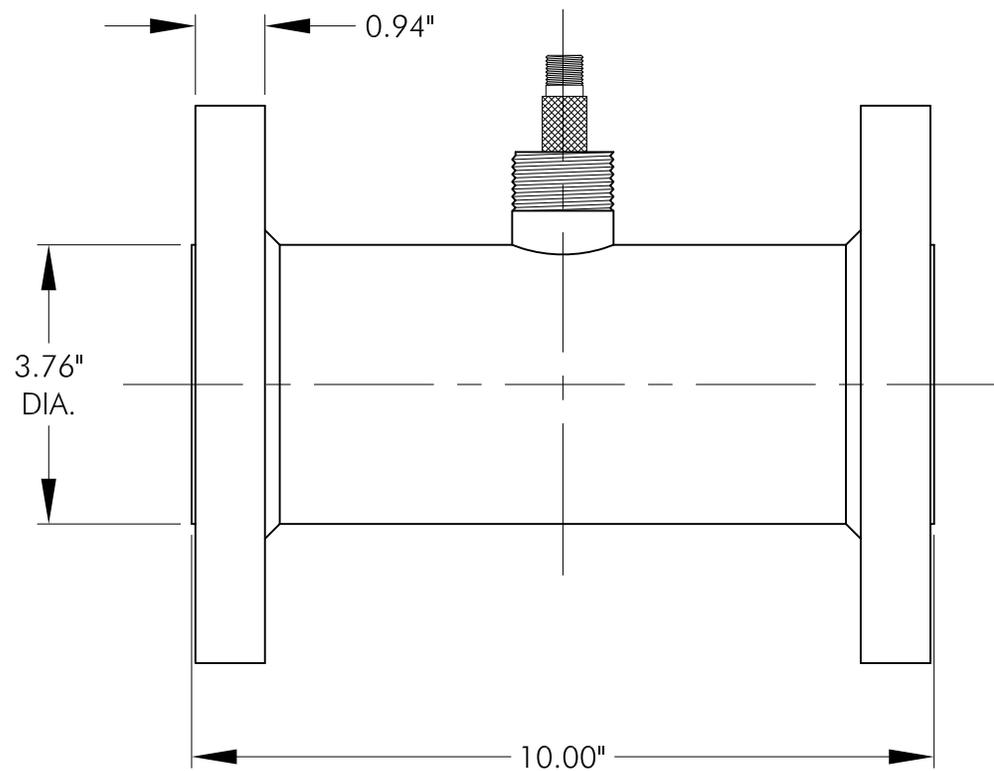
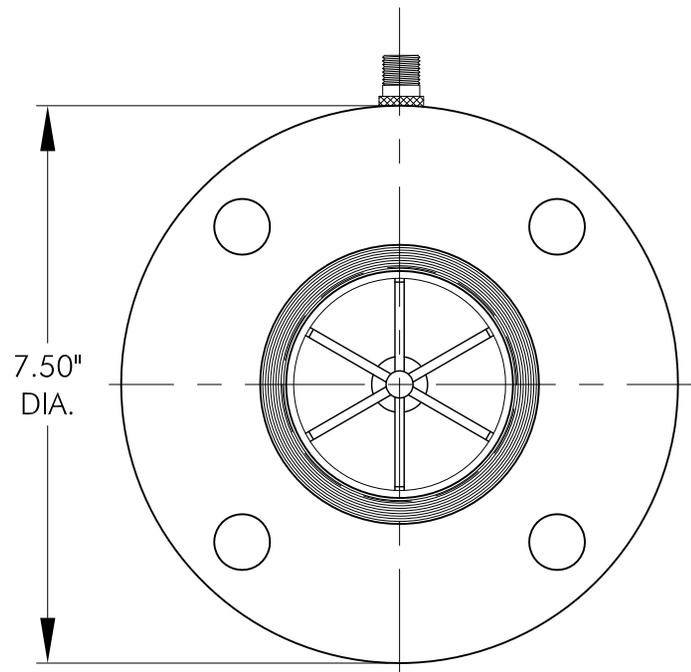
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 60-600 GPM

PRESSURE RATING: 275 PSI

NOTE:

3" TURBINE REPAIR KIT PART NUMBER: 5.350

FLOW METER INSTALLATION DRAWING

3" TURBINE FLOW METER WITH 150 LBS. RAISED FACE FLANGES, PART NO. 3.3000-150

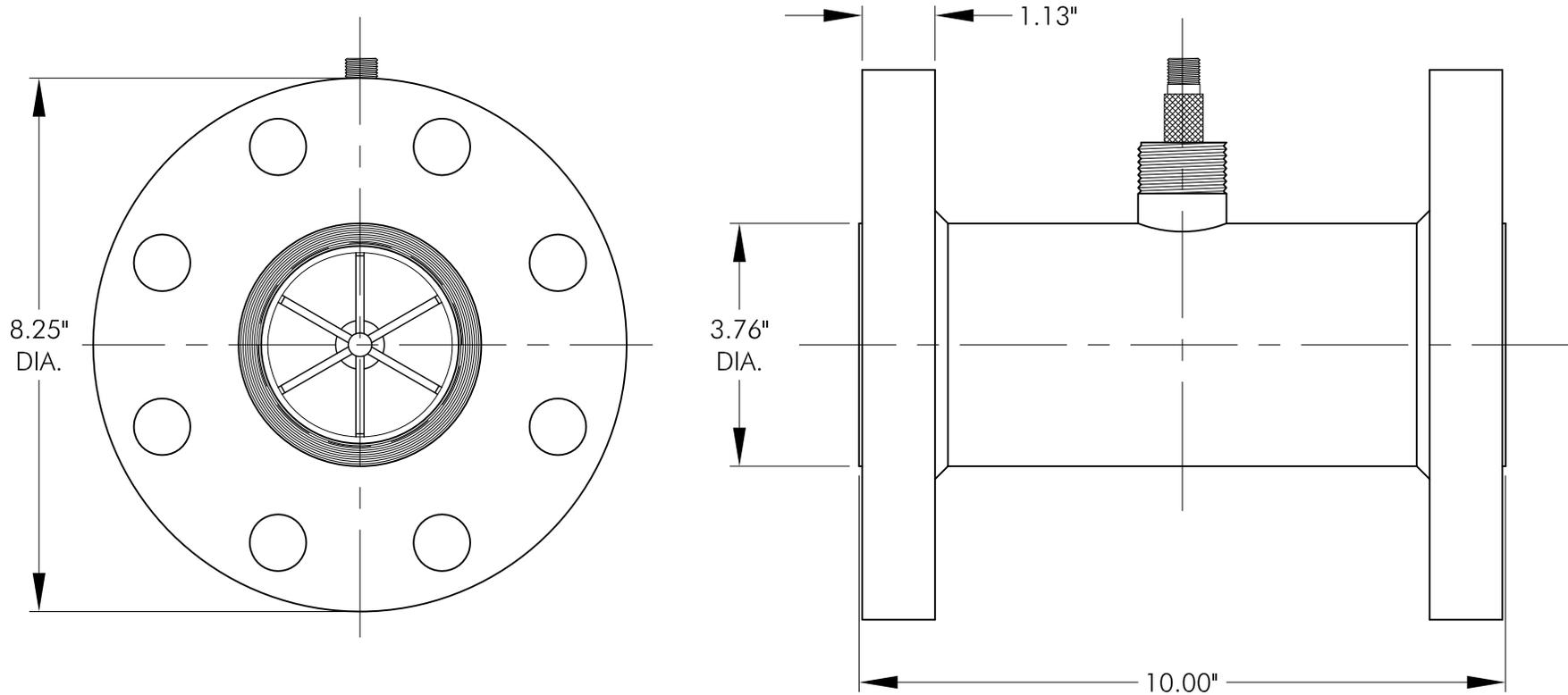
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 60-600 GPM
 PRESSURE RATING: 720 PSI

NOTE:

3" TURBINE REPAIR KIT PART NUMBER: 5.350

FLOW METER INSTALLATION DRAWING

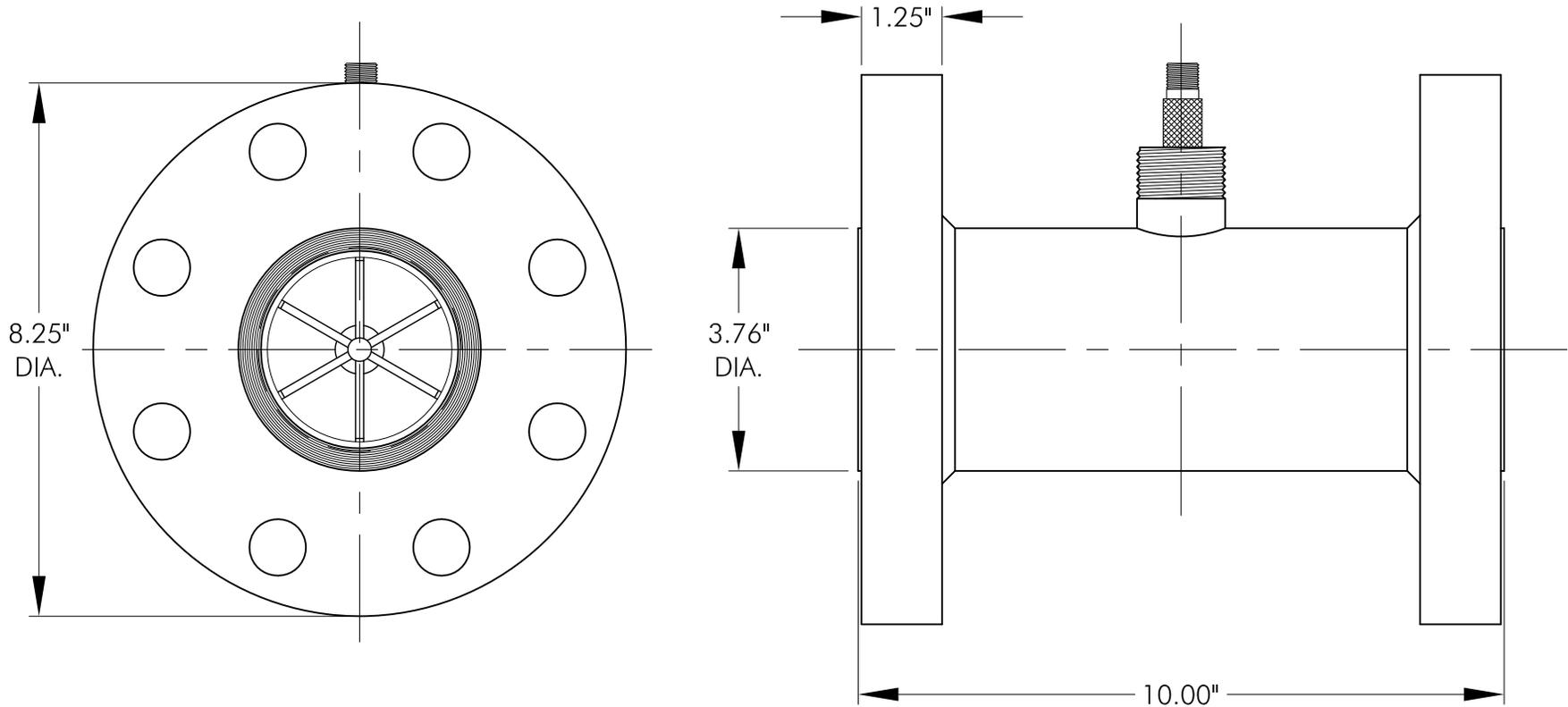
3" TURBINE FLOW METER WITH 300 LBS. RAISED FACE FLANGES, PART NO. 3.3000-300

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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 60-600 GPM

PRESSURE RATING: 1440 PSI

NOTE:

3" TURBINE REPAIR KIT PART NUMBER: 5.350

FLOW METER INSTALLATION DRAWING

3" TURBINE FLOW METER WITH 600 LBS. RAISED FACE FLANGES, PART NO. 3.3000-600

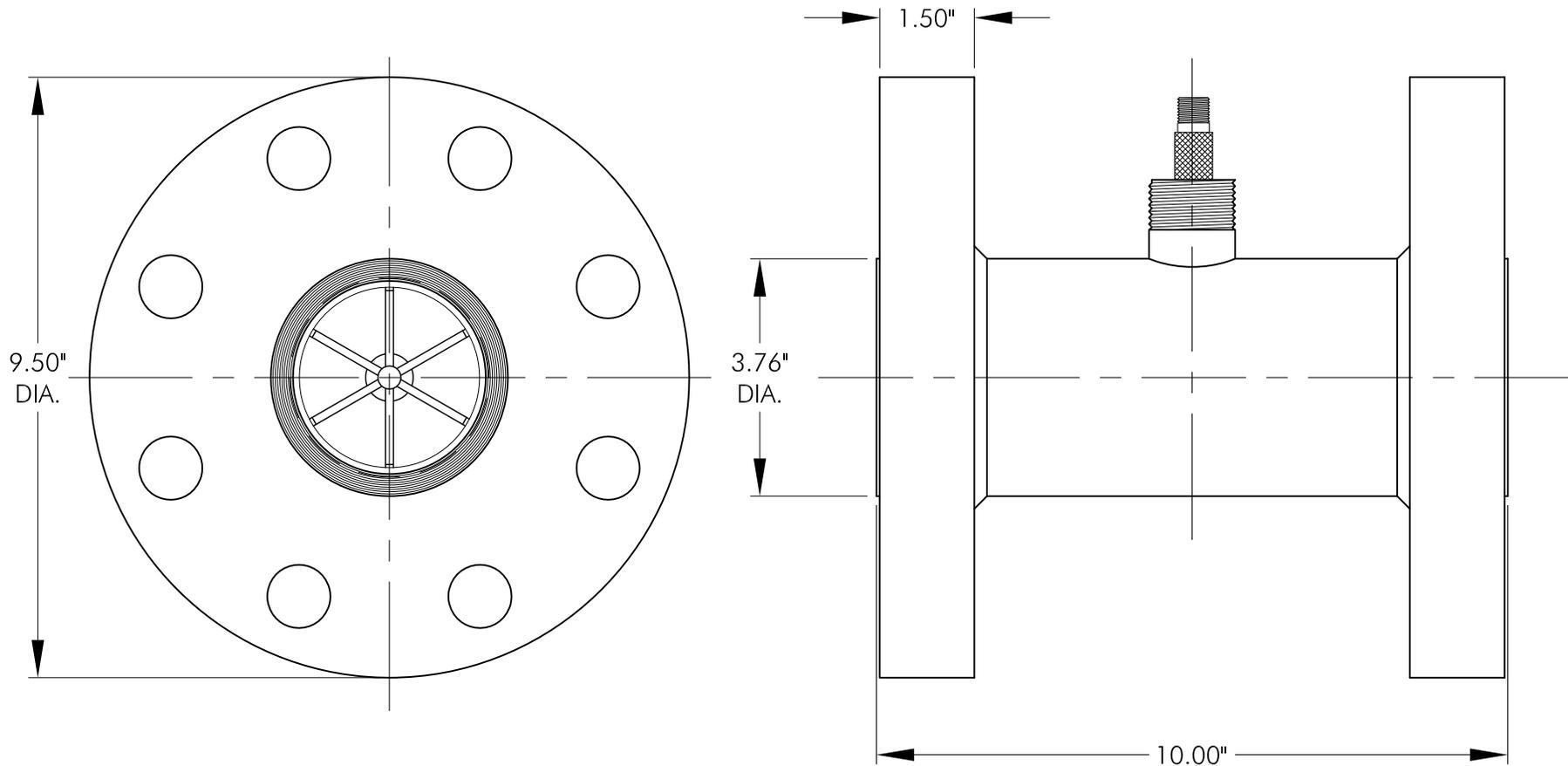
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 60-600 GPM
 PRESSURE RATING: 2160 PSI

NOTE:

3" TURBINE REPAIR KIT PART NUMBER: 5.350

FLOW METER INSTALLATION DRAWING

3" TURBINE FLOW METER WITH 900 LBS. RAISED FACE FLANGES, PART NO. 3.3000-900

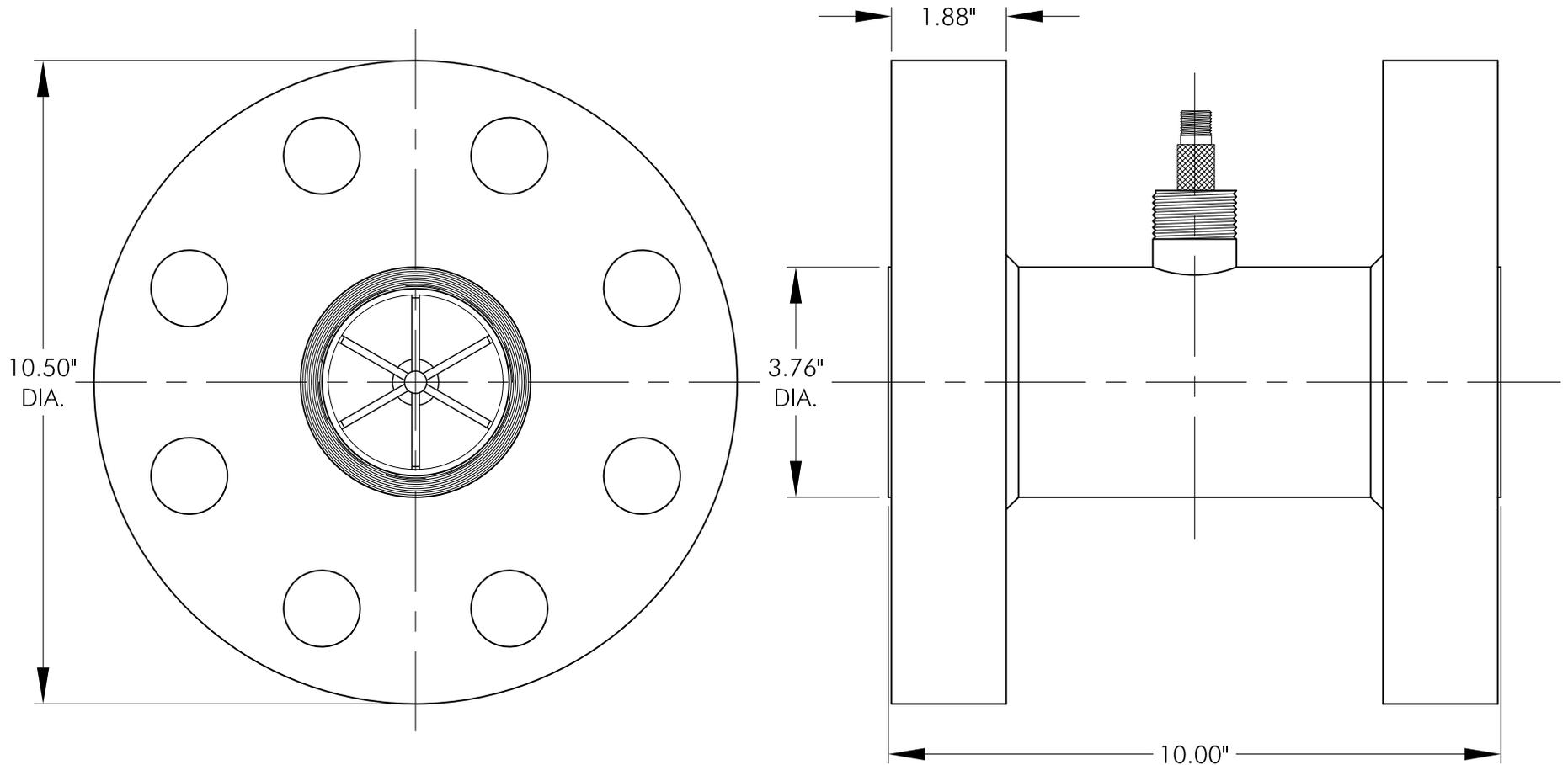
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 60-600 GPM

PRESSURE RATING: 3600 PSI

NOTE:

3" TURBINE REPAIR KIT PART NUMBER: 5.350

FLOW METER INSTALLATION DRAWING

3" TURBINE FLOW METER WITH 1500 LBS. RAISED FACE FLANGES, PART NO. 3.3000-1500

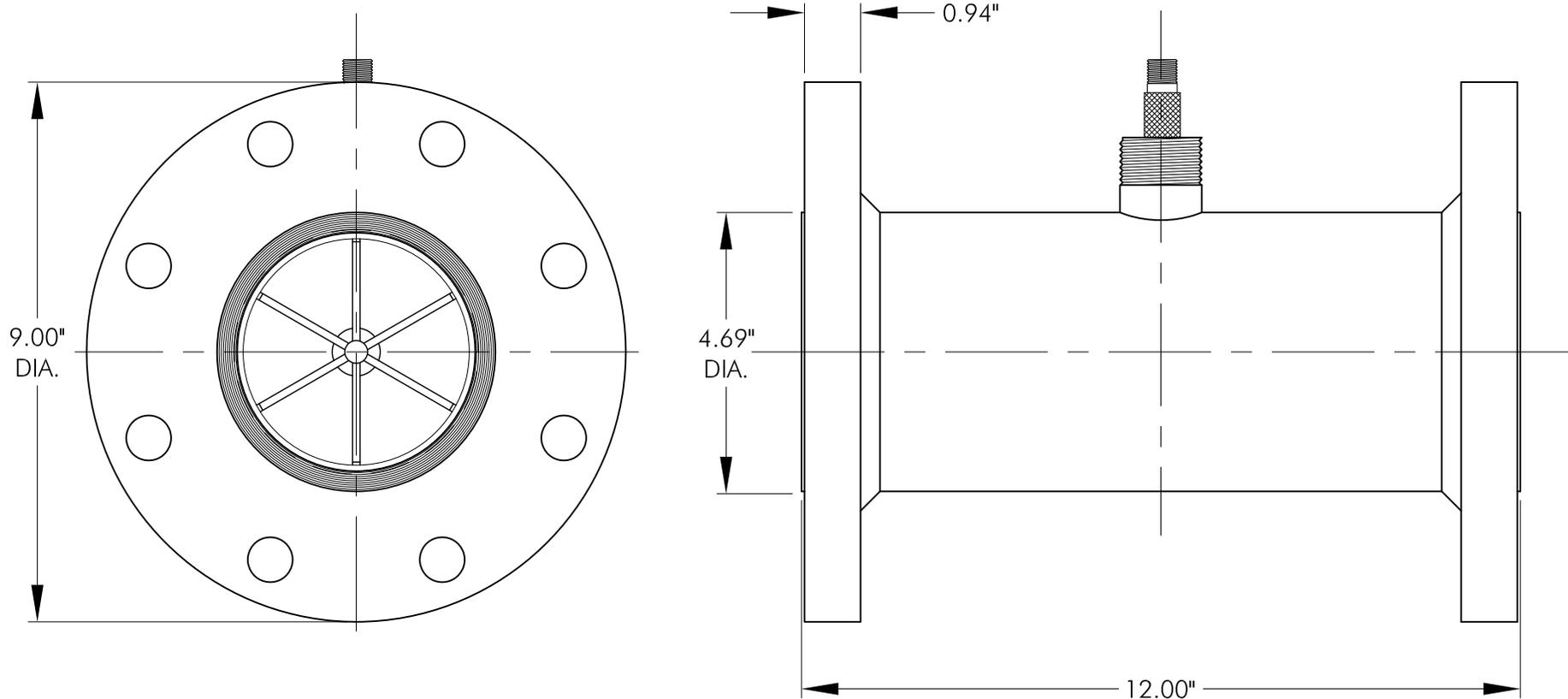
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 100-1200 GPM

PRESSURE RATING: 275 PSI

NOTE:

4" TURBINE REPAIR KIT PART NUMBER: 5.450

FLOW METER INSTALLATION DRAWING

4" TURBINE FLOW METER WITH 150 LBS. RAISED FACE FLANGES, PART NO. 3.4000-150

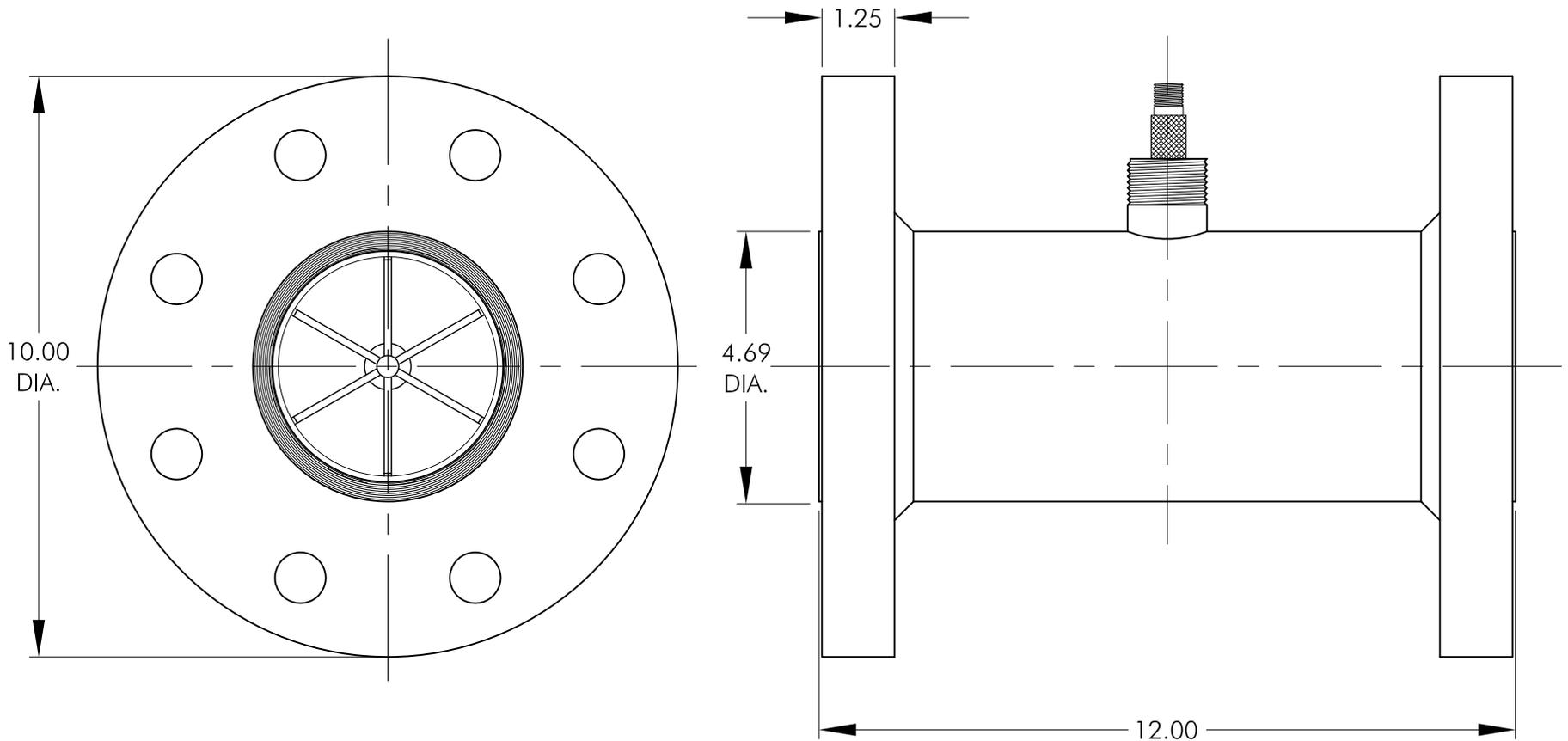
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 100-1200 GPM

PRESSURE RATING: 720 PSI

NOTE:

4" TURBINE REPAIR KIT PART NUMBER: 5.450

FLOW METER INSTALLATION DRAWING

4" TURBINE FLOW METER WITH 300 LBS. RAISED FACE FLANGES, PART NO. 3.4000-300SS316

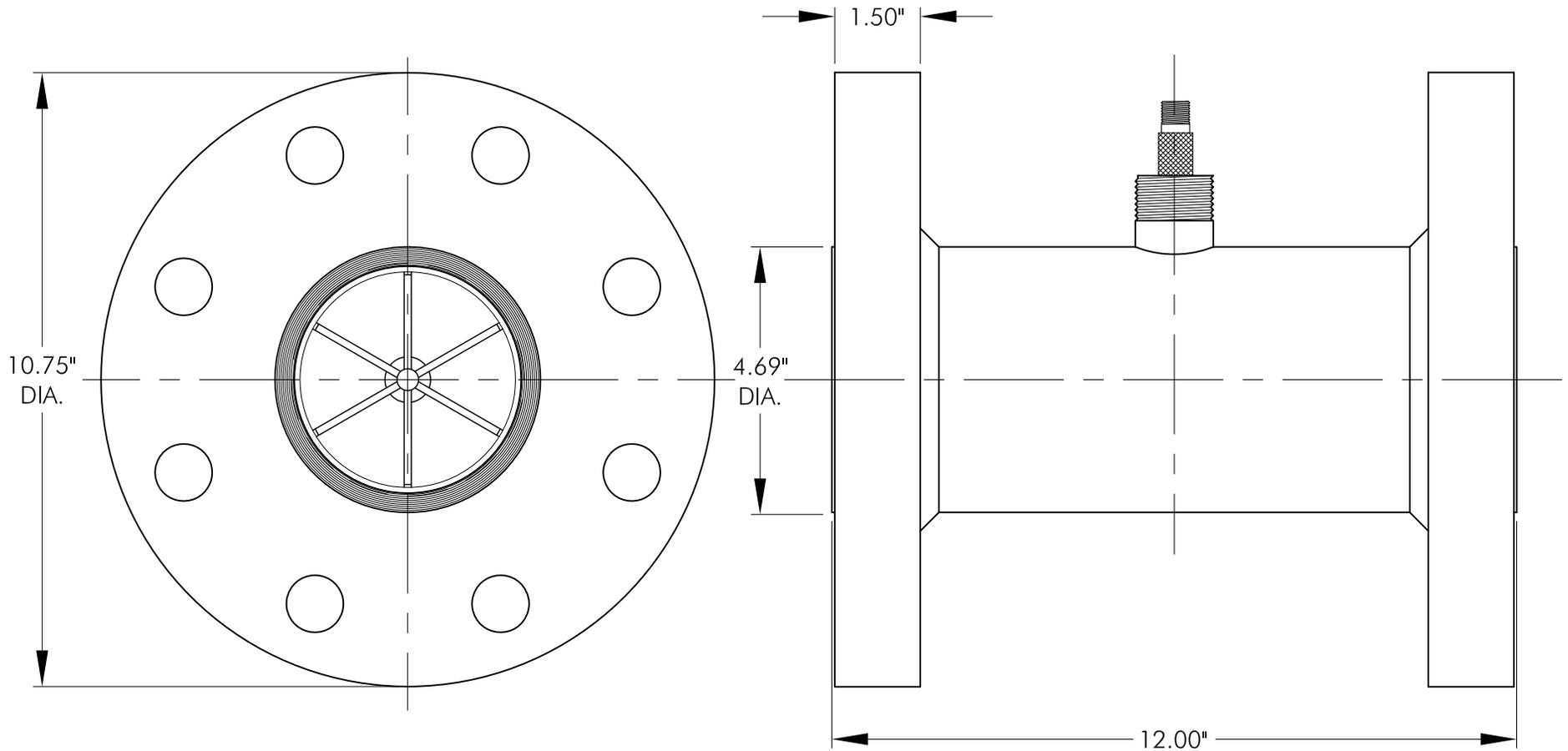
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 100-1200 GPM

PRESSURE RATING: 1440 PSI

NOTE:

4" TURBINE REPAIR KIT PART NUMBER: 5.450

FLOW METER INSTALLATION DRAWING

4" TURBINE FLOW METER WITH 600 LBS. RAISED FACE FLANGES, PART NO. 3.4000-600

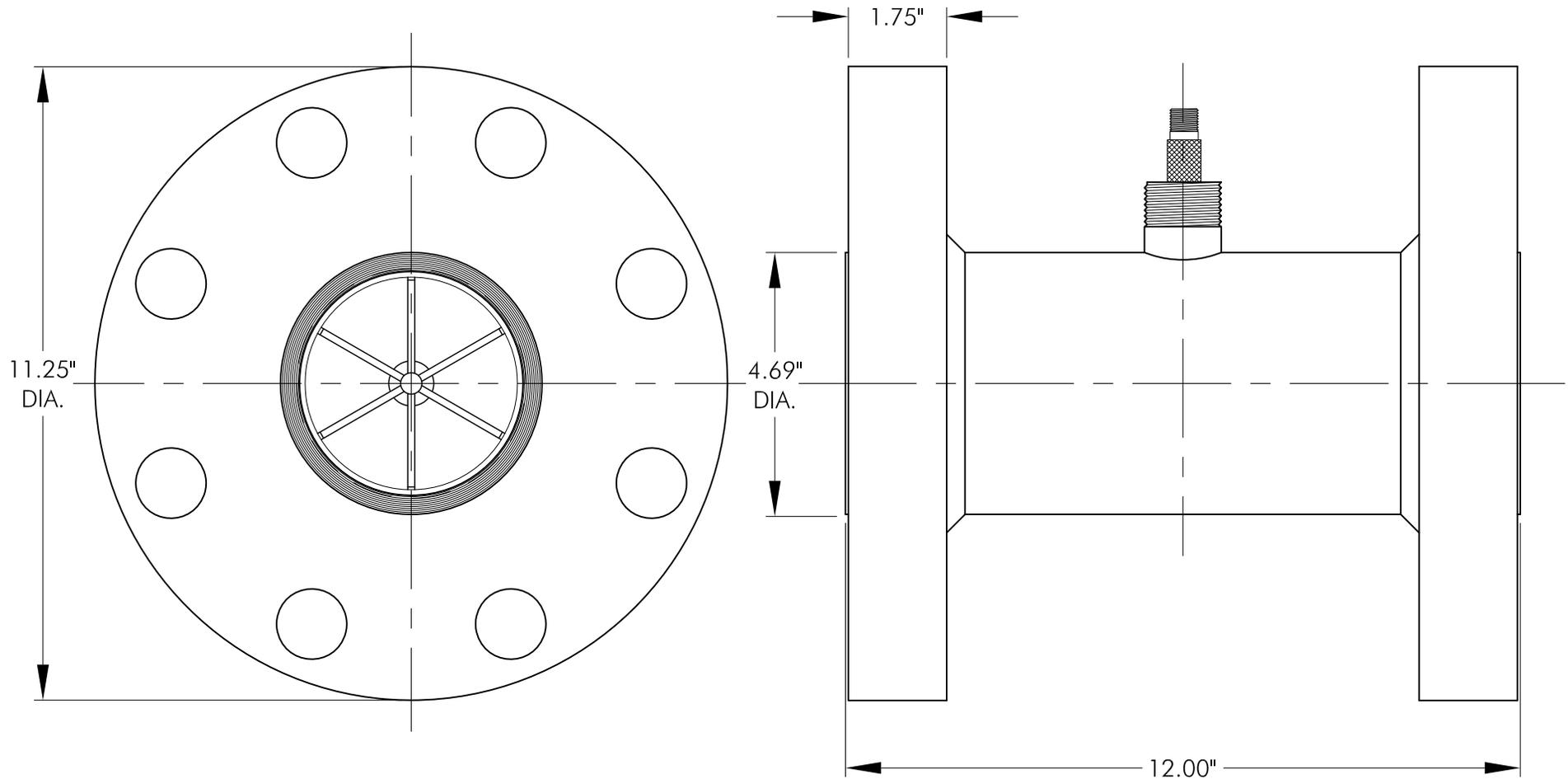
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 100-1200 GPM

PRESSURE RATING: 2160 PSI

NOTE:

4" TURBINE REPAIR KIT PART NUMBER: 5.450

FLOW METER INSTALLATION DRAWING

4" TURBINE FLOW METER WITH 900 LBS. RAISED FACE FLANGES, PART NO. 3.4000-900

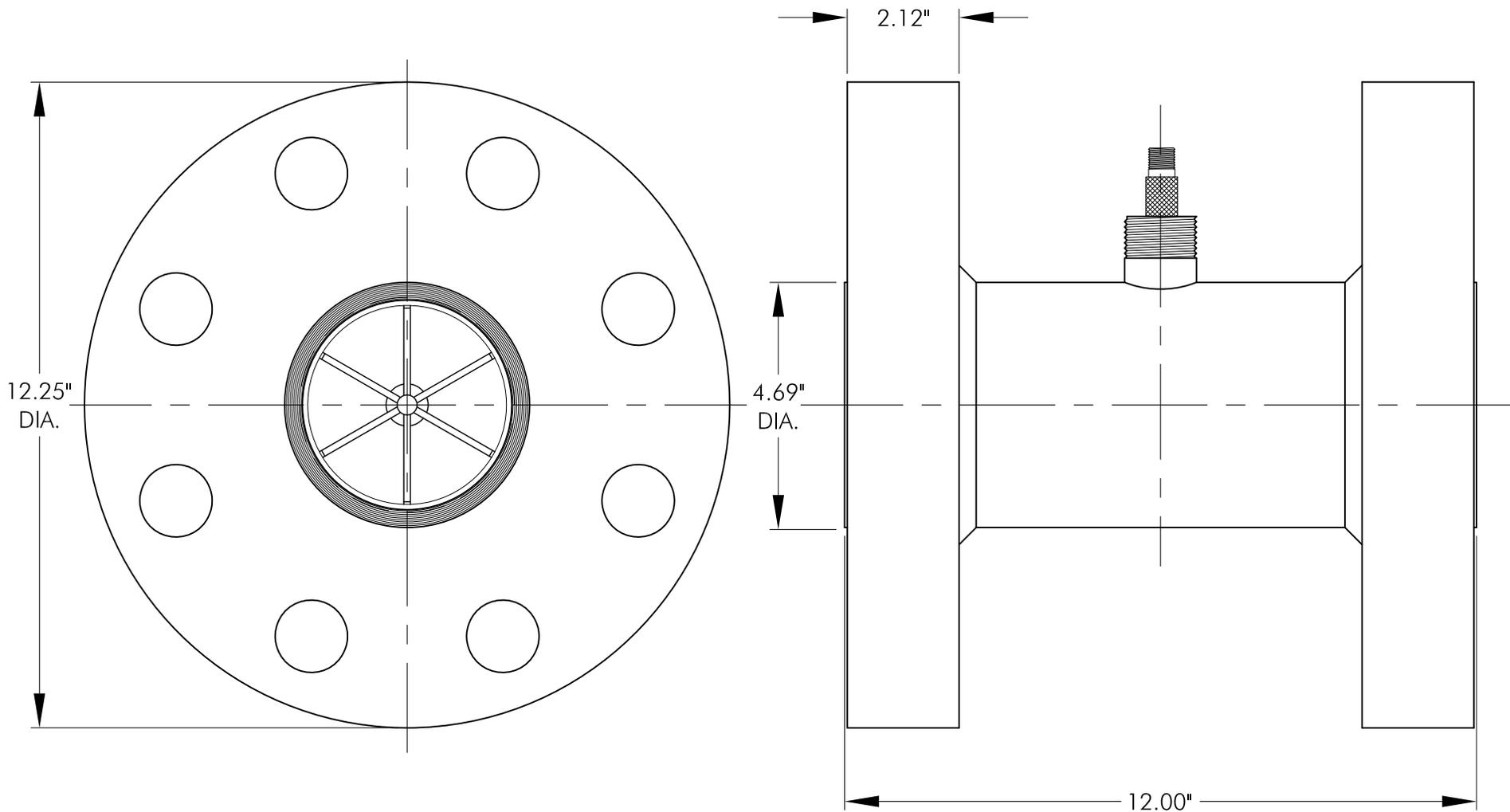
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 100-1200 GPM
 PRESSURE RATING: 3600 PSI

NOTE:

4" TURBINE REPAIR KIT PART NUMBER: 5.450

FLOW METER INSTALLATION DRAWING

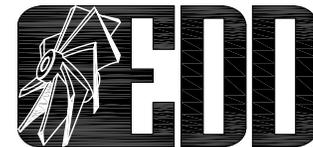
4" TURBINE FLOW METER WITH 1500 LBS. RAISED FACE FLANGES, PART NO. 3.4000-1500

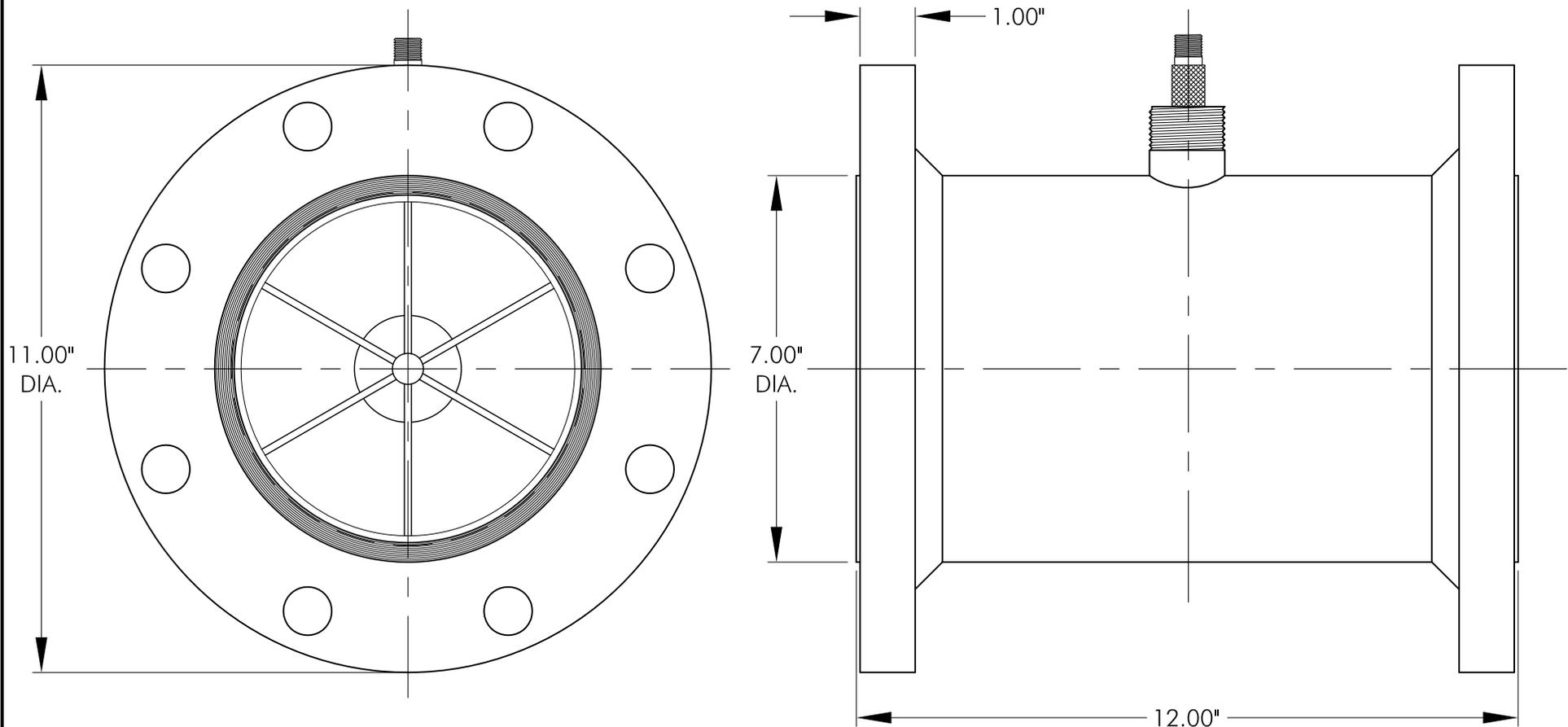
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 200-2500 GPM

PRESSURE RATING: 275 PSI

NOTE:

6" TURBINE REPAIR KIT PART NUMBER: 5.650

FLOW METER INSTALLATION DRAWING

6" TURBINE FLOW METER WITH 150 LBS. RAISED FACE FLANGES, PART NO. 3.6000-150

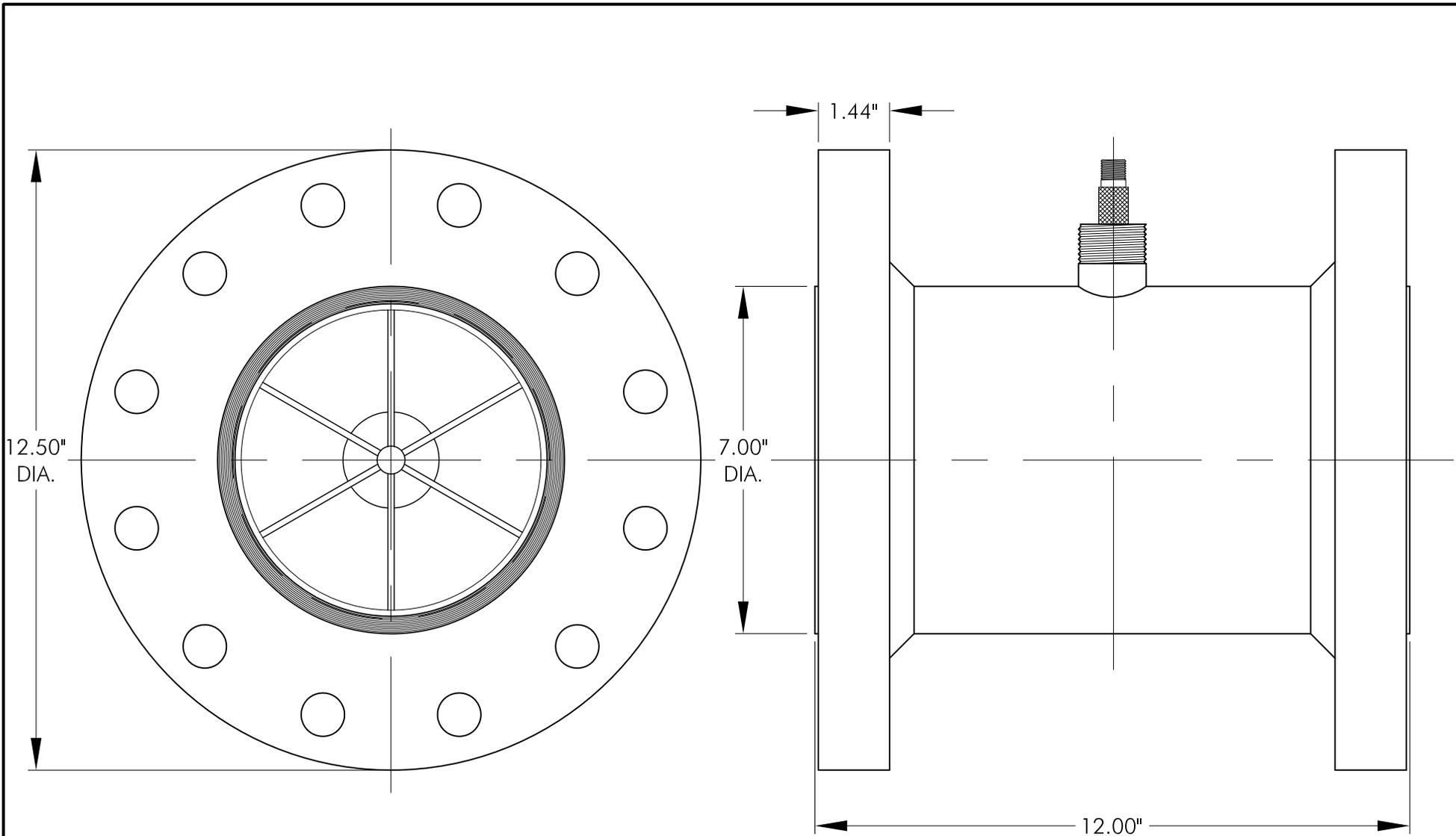
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 200-2500 GPM
 PRESSURE RATING: 720 PSI

NOTE:

6" TURBINE REPAIR KIT PART NUMBER: 5.650

FLOW METER INSTALLATION DRAWING

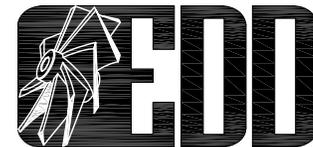
6" TURBINE FLOW METER WITH 300 LBS. RAISED FACE FLANGES, PART NO. 3.6000-300

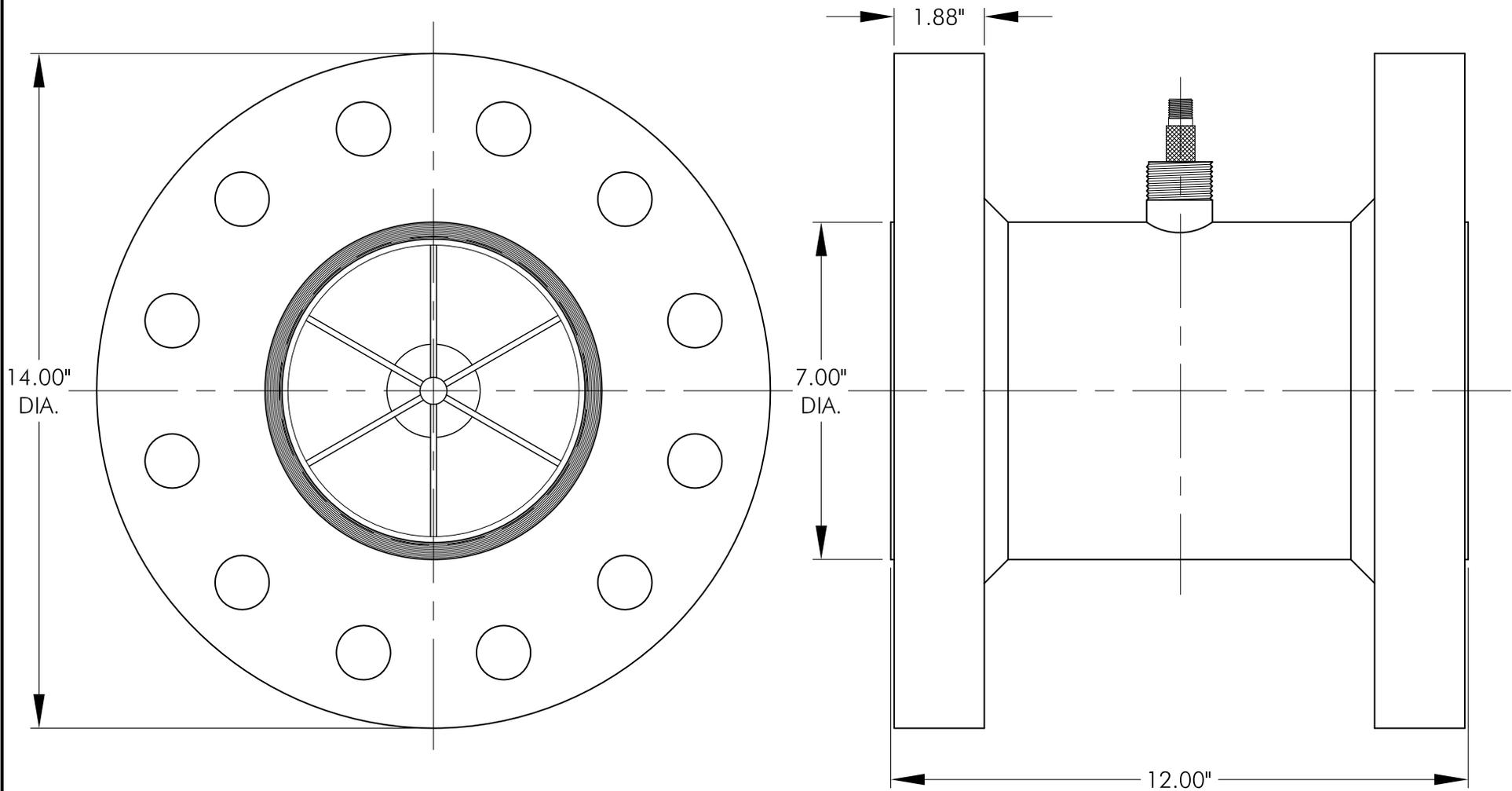
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:
 FLOW RATE: 200-2500 GPM
 PRESSURE RATING: 1440 PSI

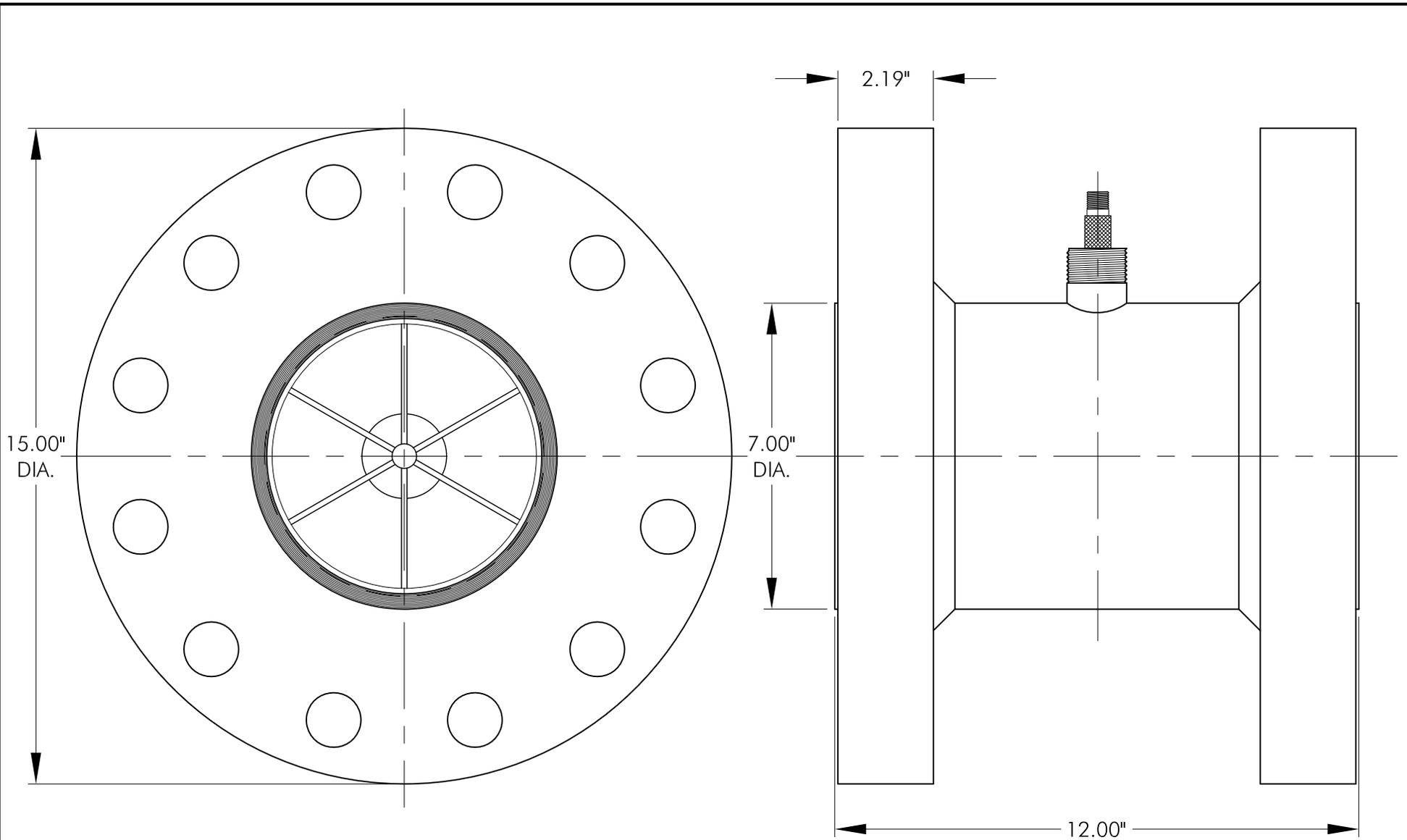
NOTE:
 6" TURBINE REPAIR KIT PART NUMBER: 5.650

FLOW METER INSTALLATION DRAWING

6" TURBINE FLOW METER WITH 600 LBS. RAISED FACE FLANGES, PART NO. 3.6000-600

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 E-mail: rkw@eddevices.com Website: www.eddevices.com





NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 200-2500 GPM

PRESSURE RATING: 2160 PSI

NOTE:

6" TURBINE REPAIR KIT PART NUMBER: 5.650

FLOW METER INSTALLATION DRAWING

6" TURBINE FLOW METER WITH 900 LBS. RAISED FACE FLANGES, PART NO. 3.6000-900

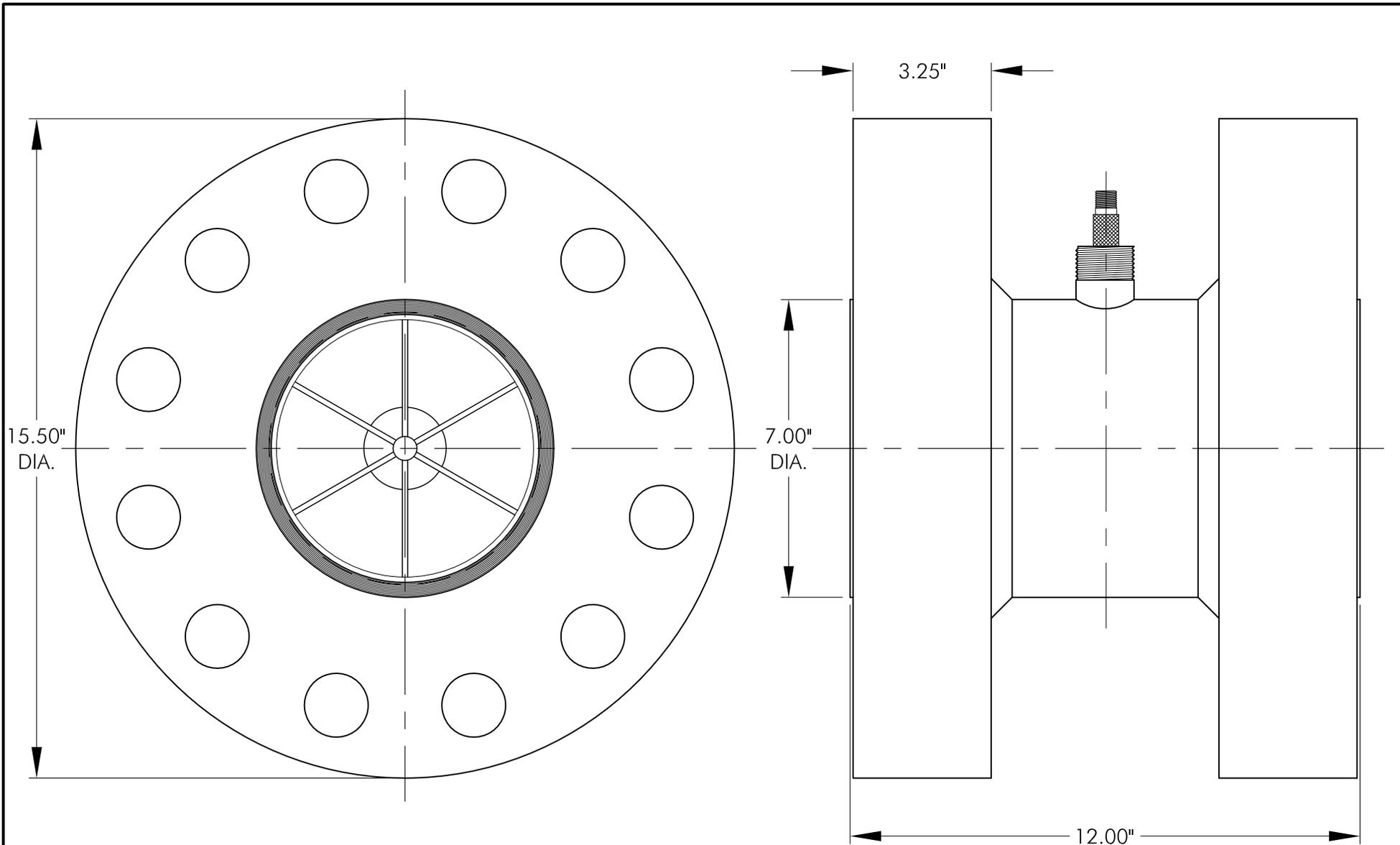
P.O. Box 12128

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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 200-2500 GPM
 PRESSURE RATING: 3600 PSI

NOTE:

6" TURBINE REPAIR KIT PART NUMBER: 5.650

FLOW METER INSTALLATION DRAWING

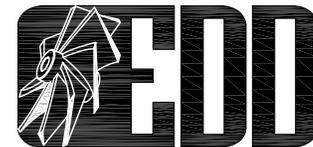
6" TURBINE FLOW METER WITH 1500 LBS. RAISED FACE FLANGES, PART NO. 3.6000-1500

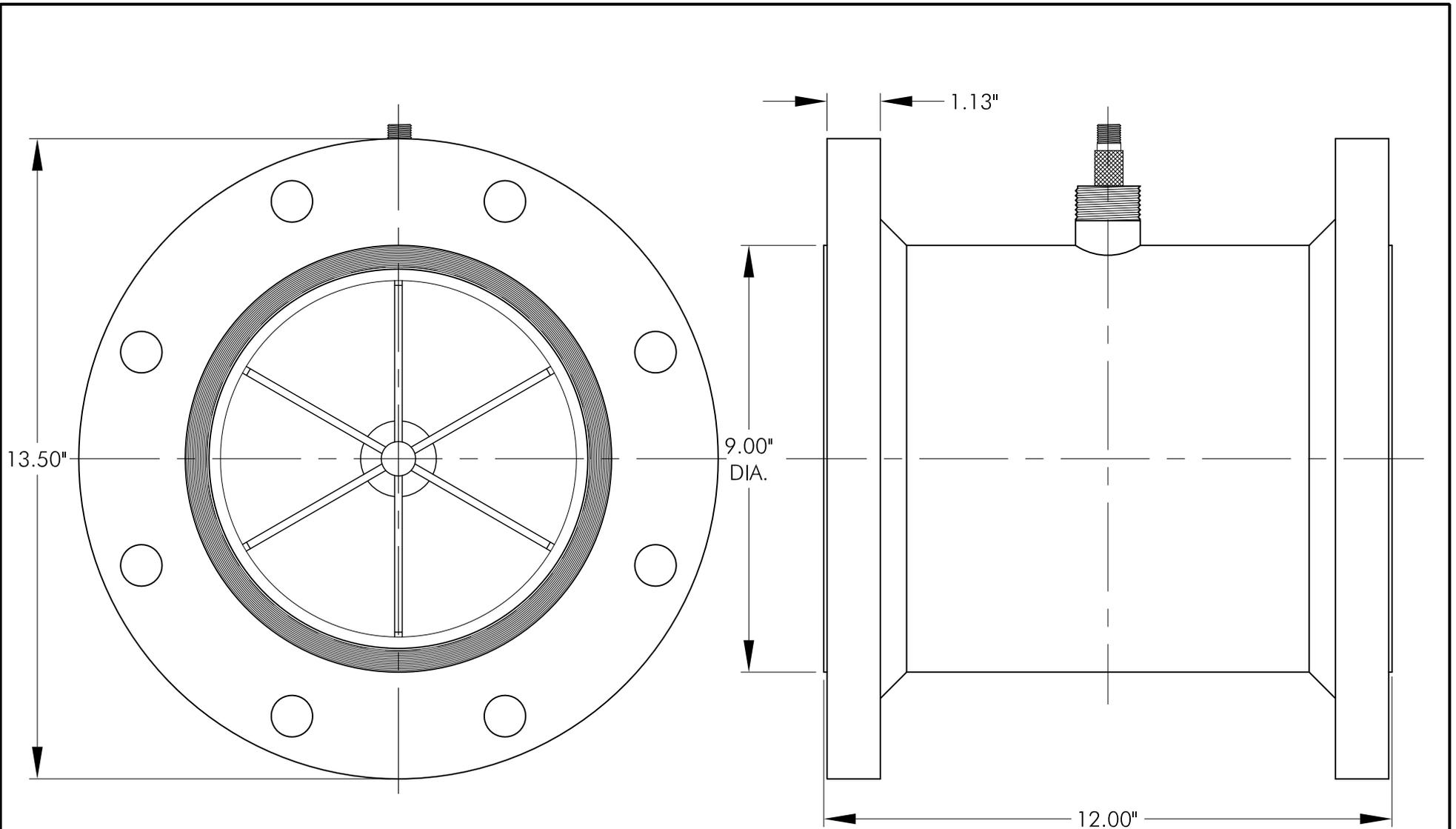
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 350-3500 GPM

PRESSURE RATING: 275 PSI

NOTE:

8" TURBINE REPAIR KIT PART NUMBER: 5.850

FLOW METER INSTALLATION DRAWING

8" TURBINE FLOW METER WITH 150 LBS. RAISED FACE FLANGES, PART NO. 3.8000-150

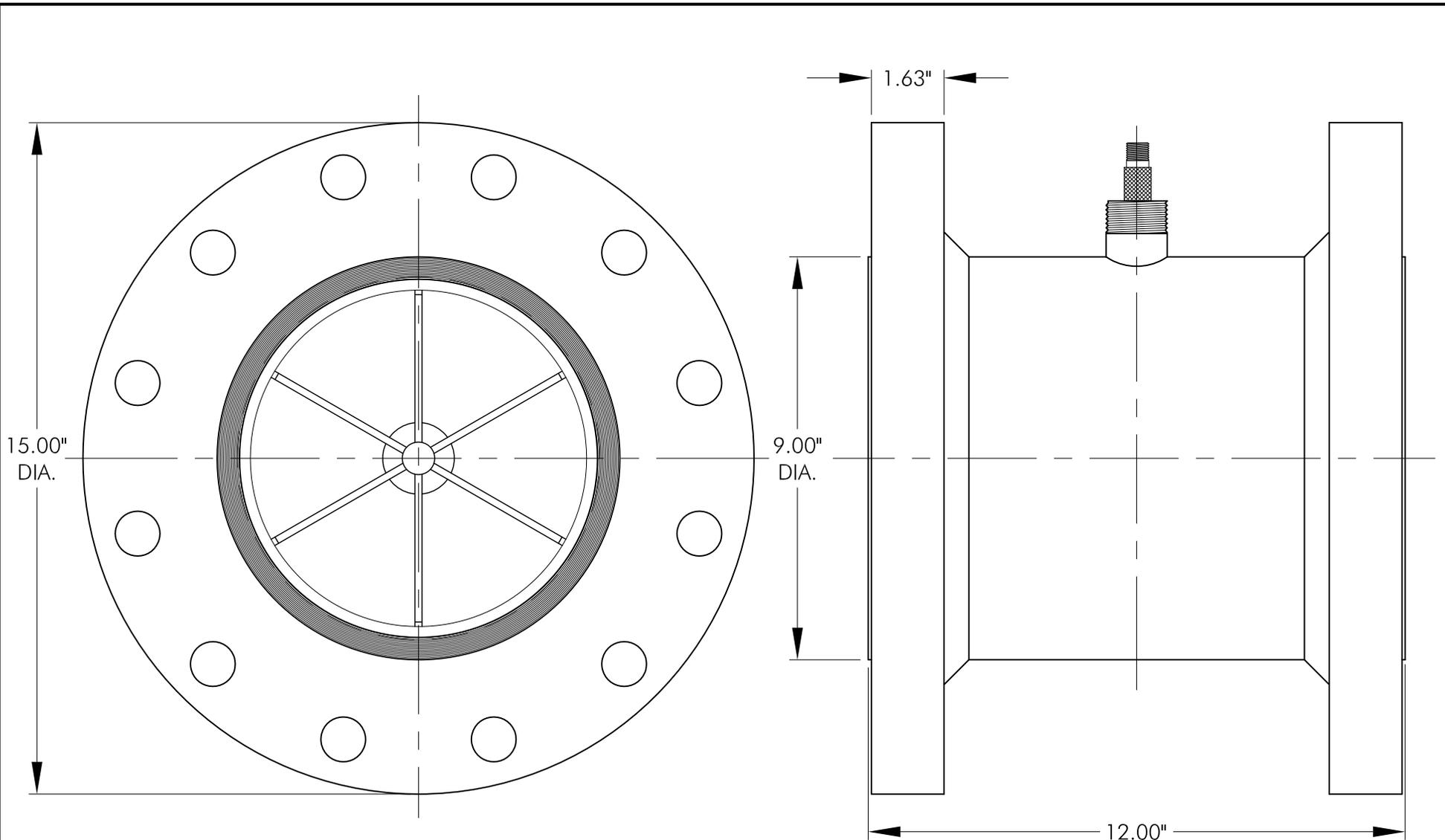
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 350-3500 GPM

PRESSURE RATING: 720 PSI

NOTE:

8" TURBINE REPAIR KIT PART NUMBER: 5.850

FLOW METER INSTALLATION DRAWING

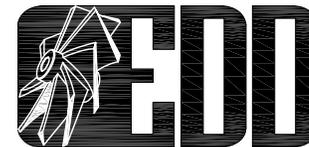
8" TURBINE FLOW METER WITH 300 LBS. RAISED FACE FLANGES, PART NO. 3.8000-300

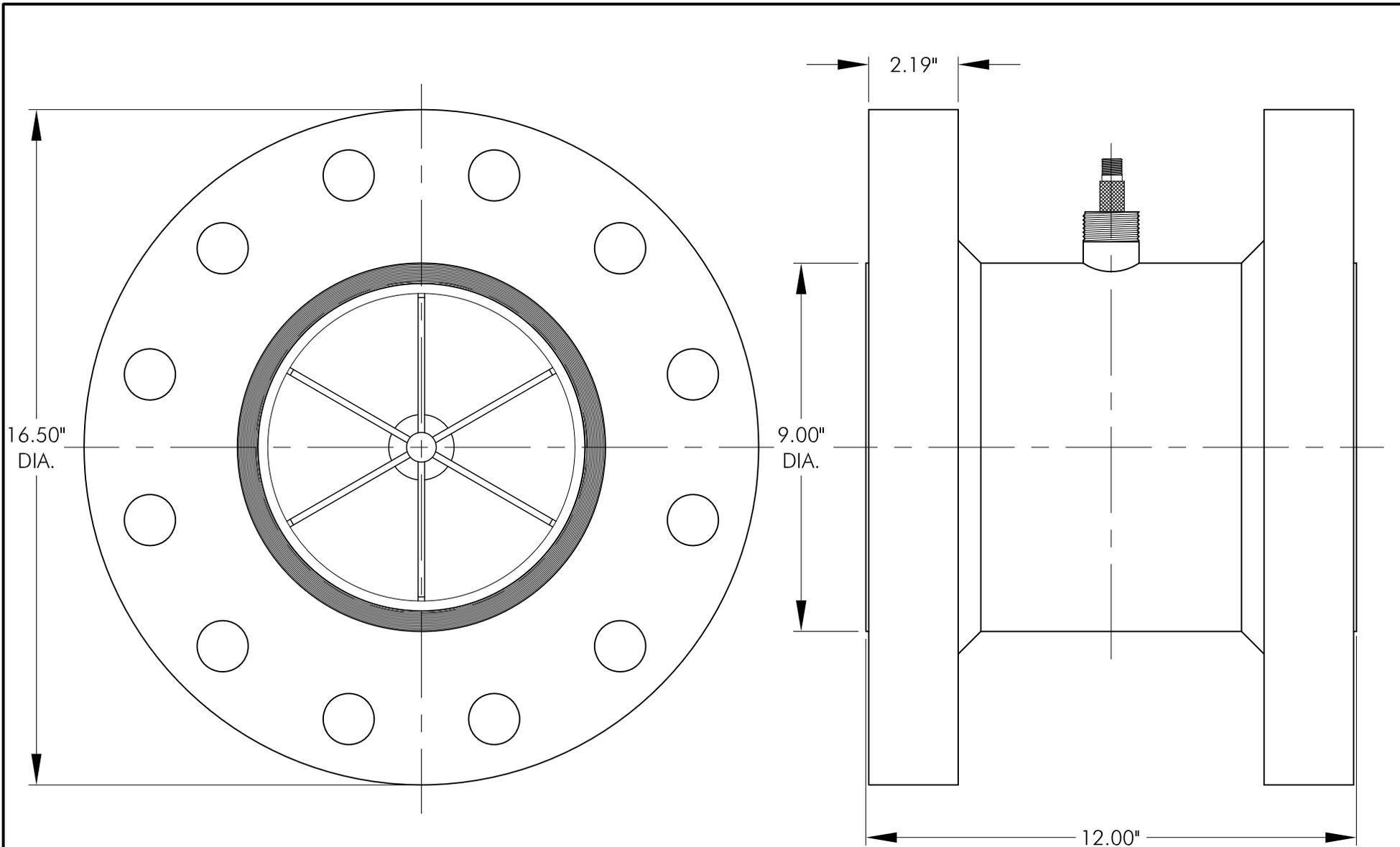
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 350-3500 GPM

PRESSURE RATING: 1440 PSI

NOTE:

8" TURBINE REPAIR KIT PART NUMBER: 5.850

FLOW METER INSTALLATION DRAWING

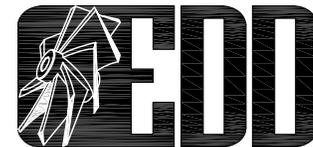
8" TURBINE FLOW METER WITH 600 LBS. RAISED FACE FLANGES, PART NO. 3.8000-600

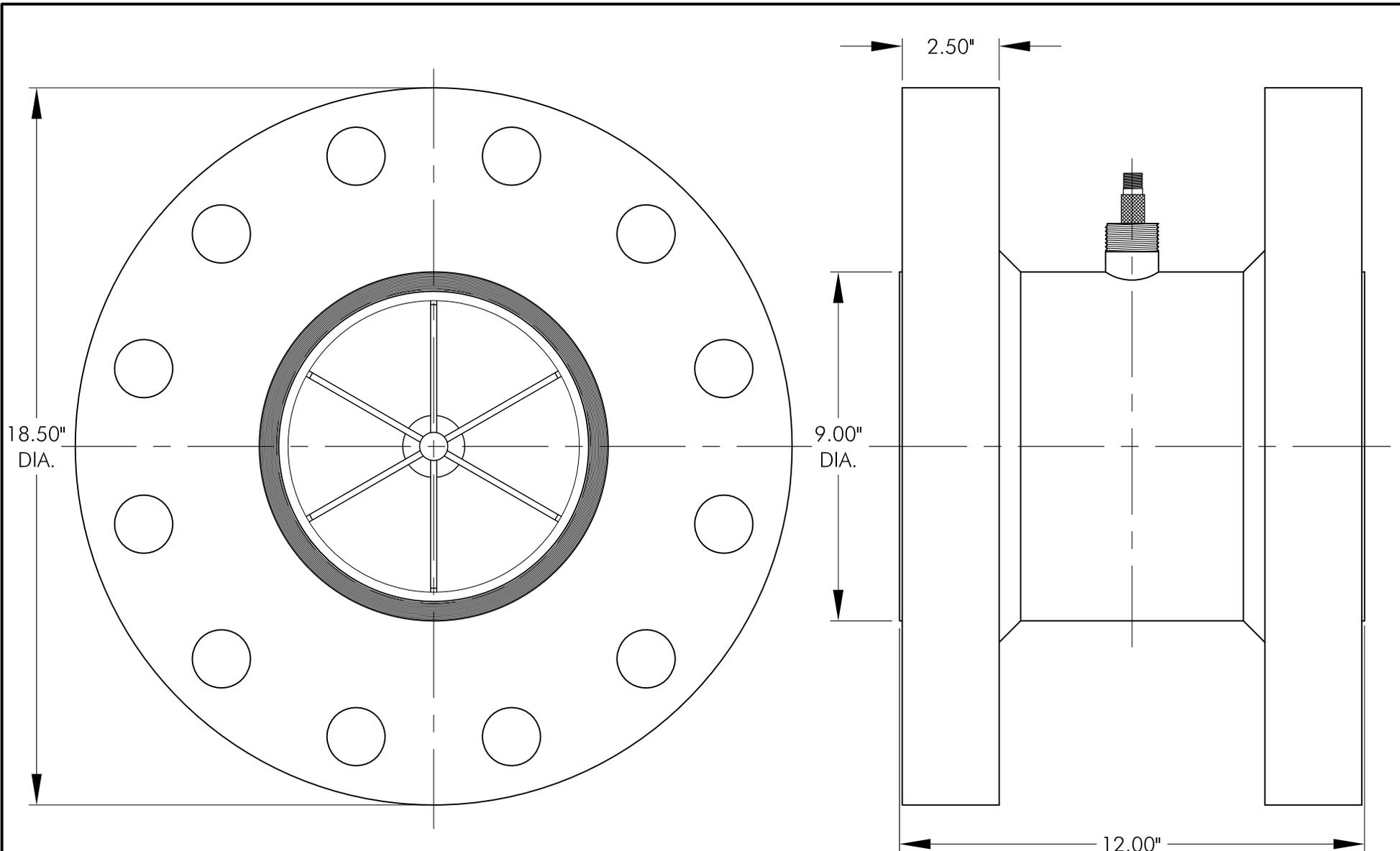
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 350-3500 GPM
 PRESSURE RATING: 2160 PSI

NOTE:

8" TURBINE REPAIR KIT PART NUMBER: 5.850

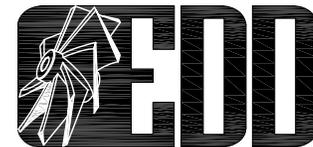
FLOW METER INSTALLATION DRAWING

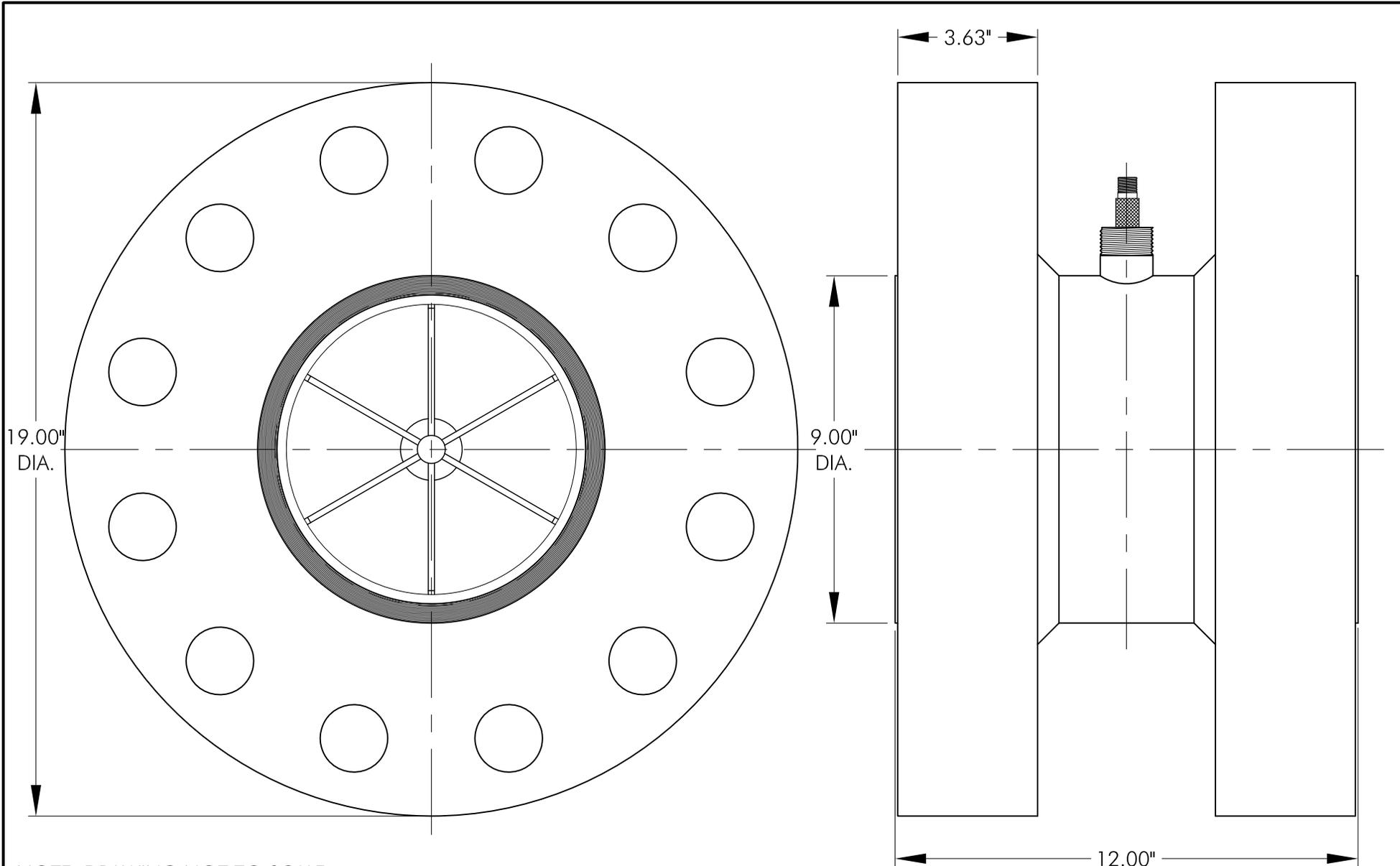
8" TURBINE FLOW METER WITH 900 LBS. RAISED FACE FLANGES, PART NO. 3.8000-900

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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 350-3500 GPM

PRESSURE RATING: 3600 PSI

NOTE:

8" TURBINE REPAIR KIT PART NUMBER: 5.850

FLOW METER INSTALLATION DRAWING

8" TURBINE FLOW METER WITH 1500 LBS. RAISED FACE FLANGES, PART NO. 3.8000-1500

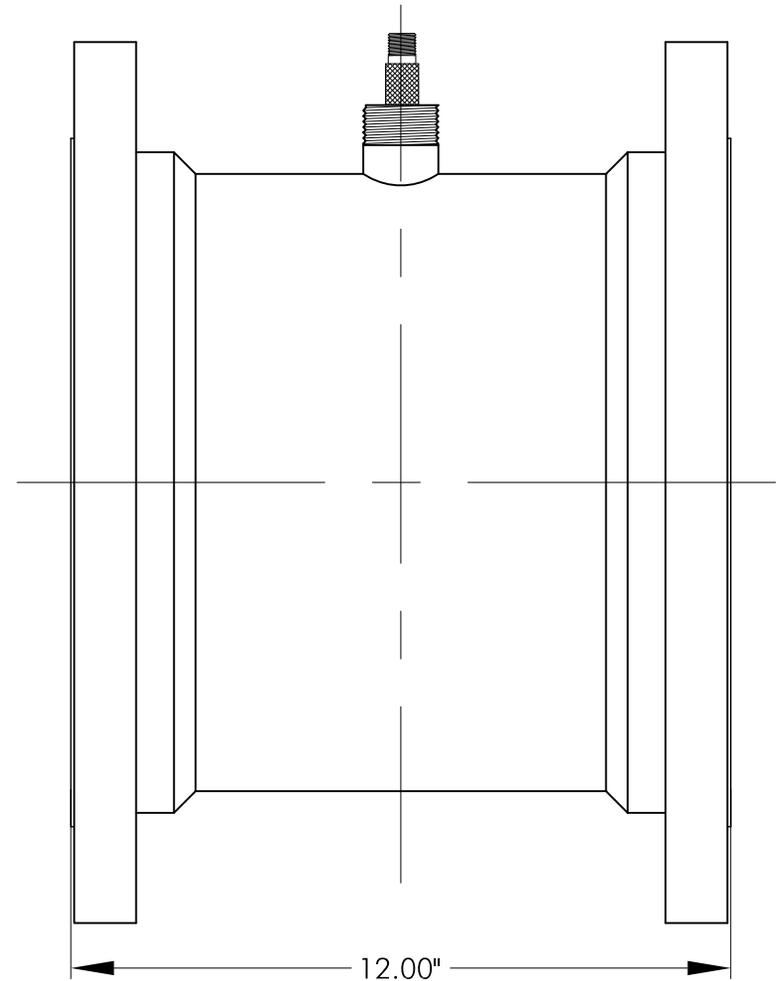
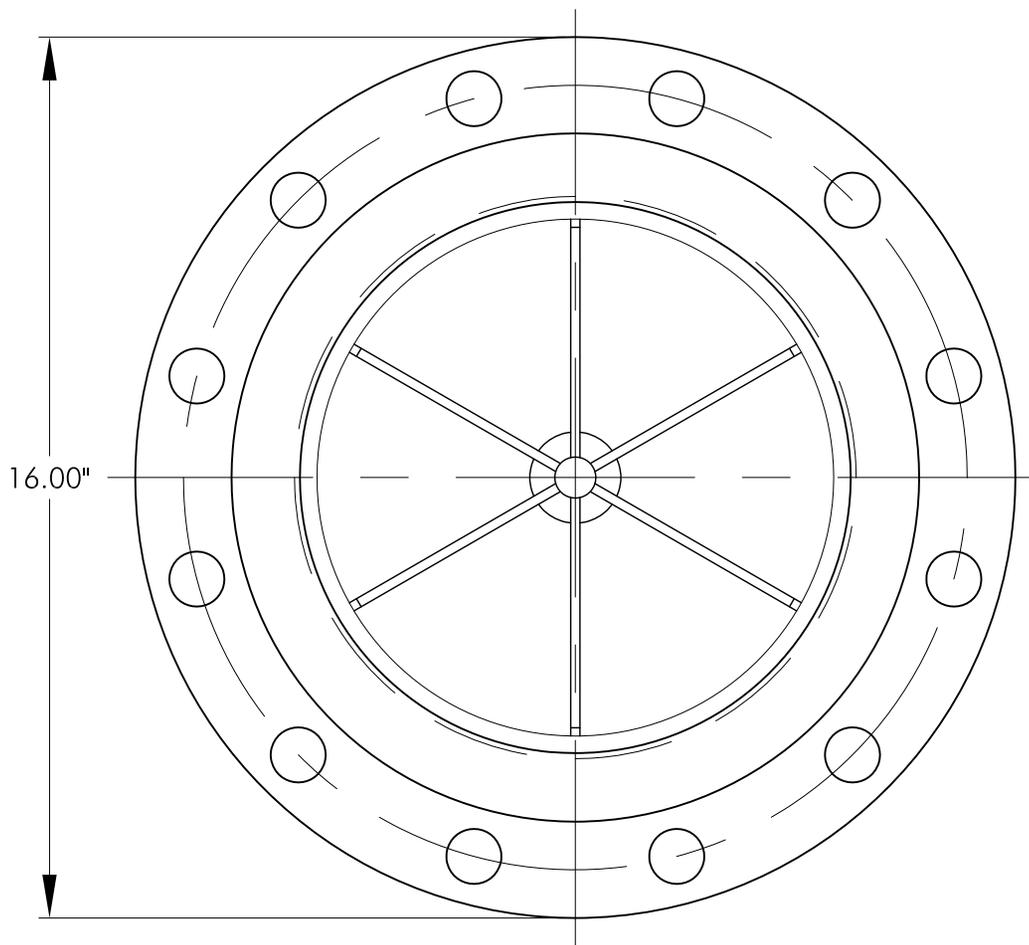
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E-mail: rkw@eddevices.com Website: www.eddevices.com





NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 550-5500 GPM

PRESSURE RATING: 275 PSI

NOTE:

10" TURBINE REPAIR KIT PART NUMBER: 5.1050

FLOW METER INSTALLATION DRAWING

10" x 10" TURBINE FLOW METER WITH 150 SERIES FLANGES, PART NO. 3.10000-150

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Electronic Data Devices

Turbine Flow Meters



1502 Union Turbine Flow Meters

Electronic Data Devices manufactures a line of 1502 union turbine flow meters that are available with ranges from 5 GPM to 600 GPM covering a wide range of measurement applications. Our turbine flow meters are manufactured to the highest quality standards. Some of the typical applications include: oilfield waterflood, production, well servicing, pipelines, mining, chemicals, food and beverage industry, and most other liquid applications.

1502 union turbine flow meters are available in the following sizes: 1", 1 1/2", 2" and 3". All union meters have a working pressure of 15000 psi.

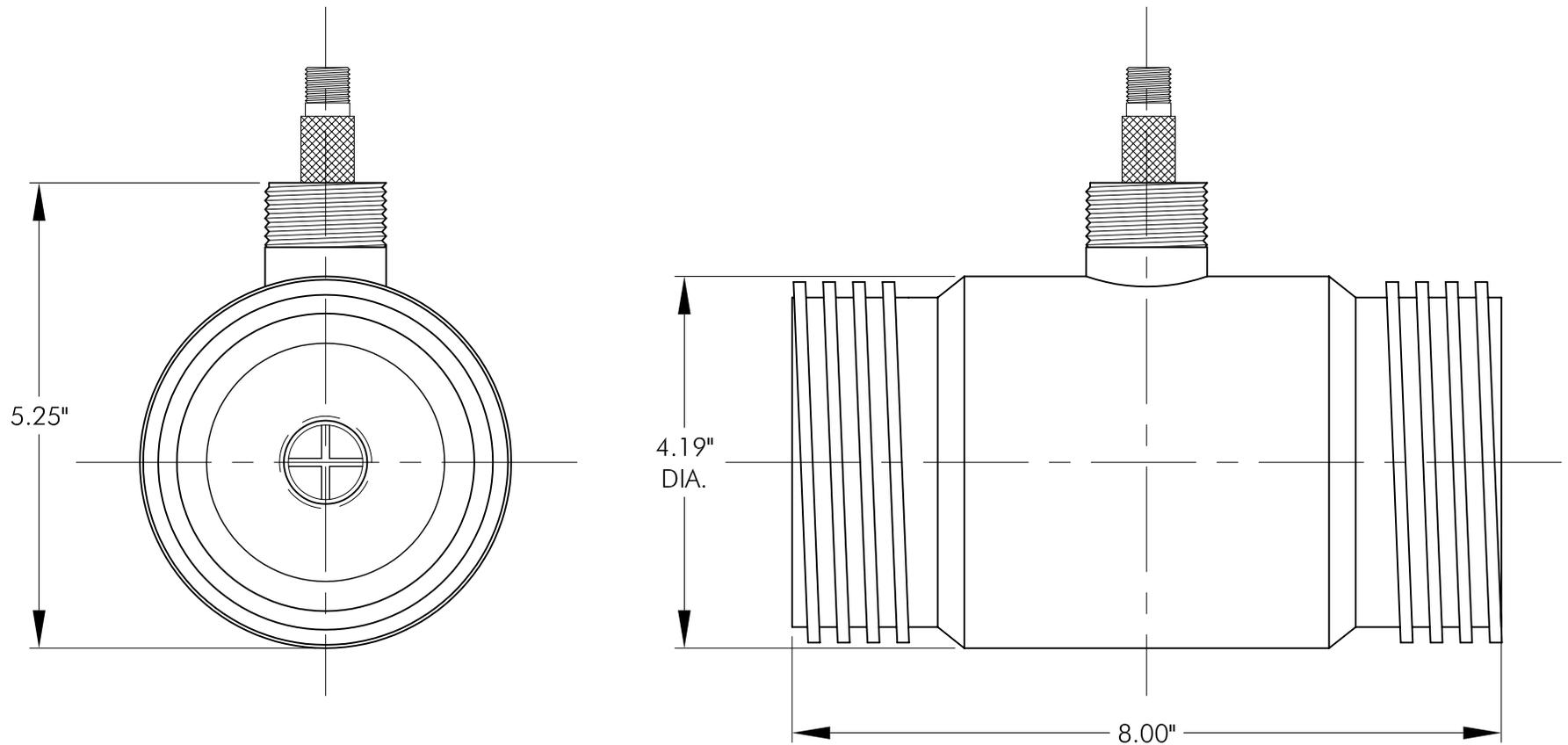
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:
 FLOW RATE: 5-50 GPM
 PRESSURE RATING: 15000 PSI

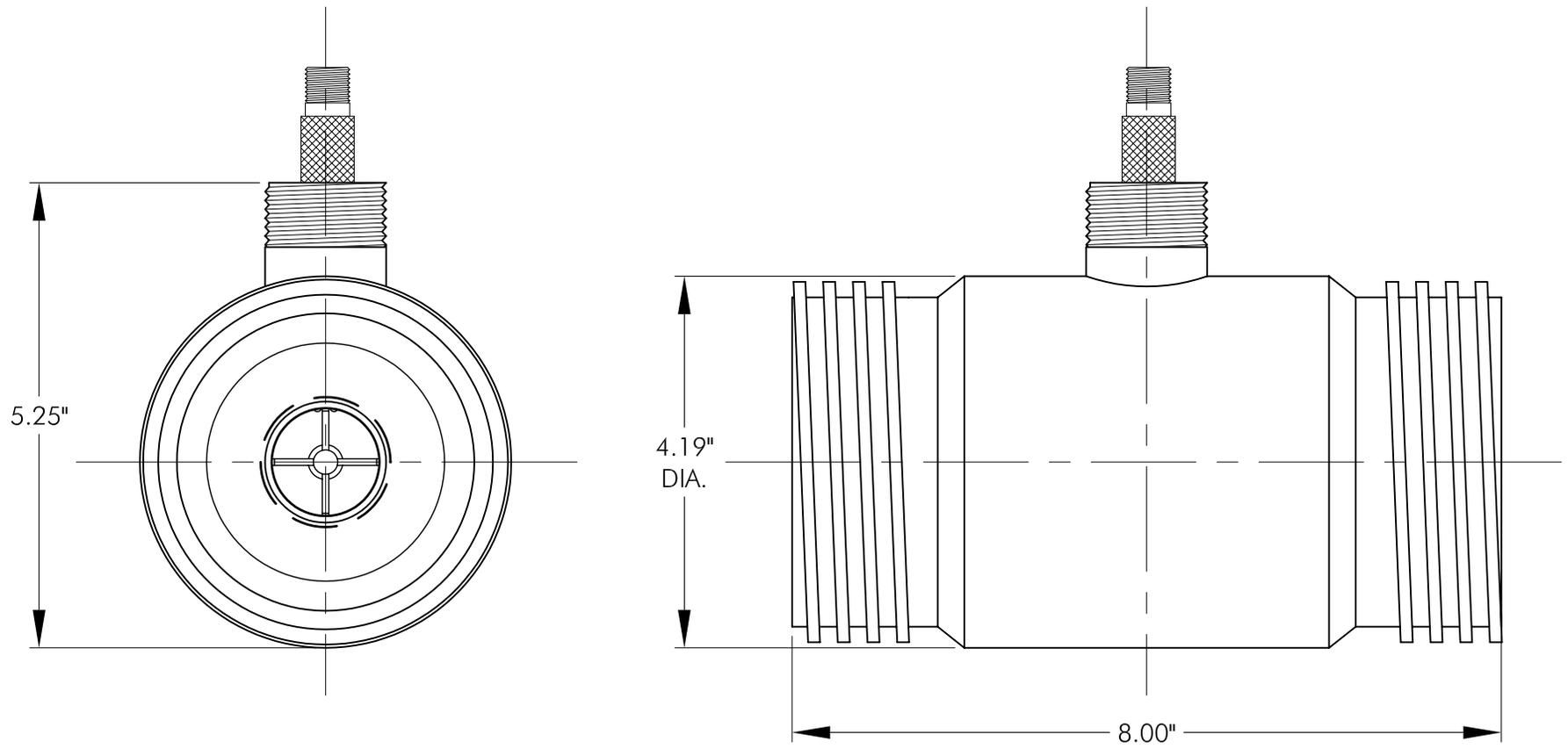
NOTE:
 1" TURBINE REPAIR KIT PART NUMBER: 5.100

FLOW METER INSTALLATION DRAWING

1" x 2" TURBINE FLOW METER WITH 1502 UNION ENDS, PART NO. 5.101502

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NOTE: DRAWING NOT TO SCALE

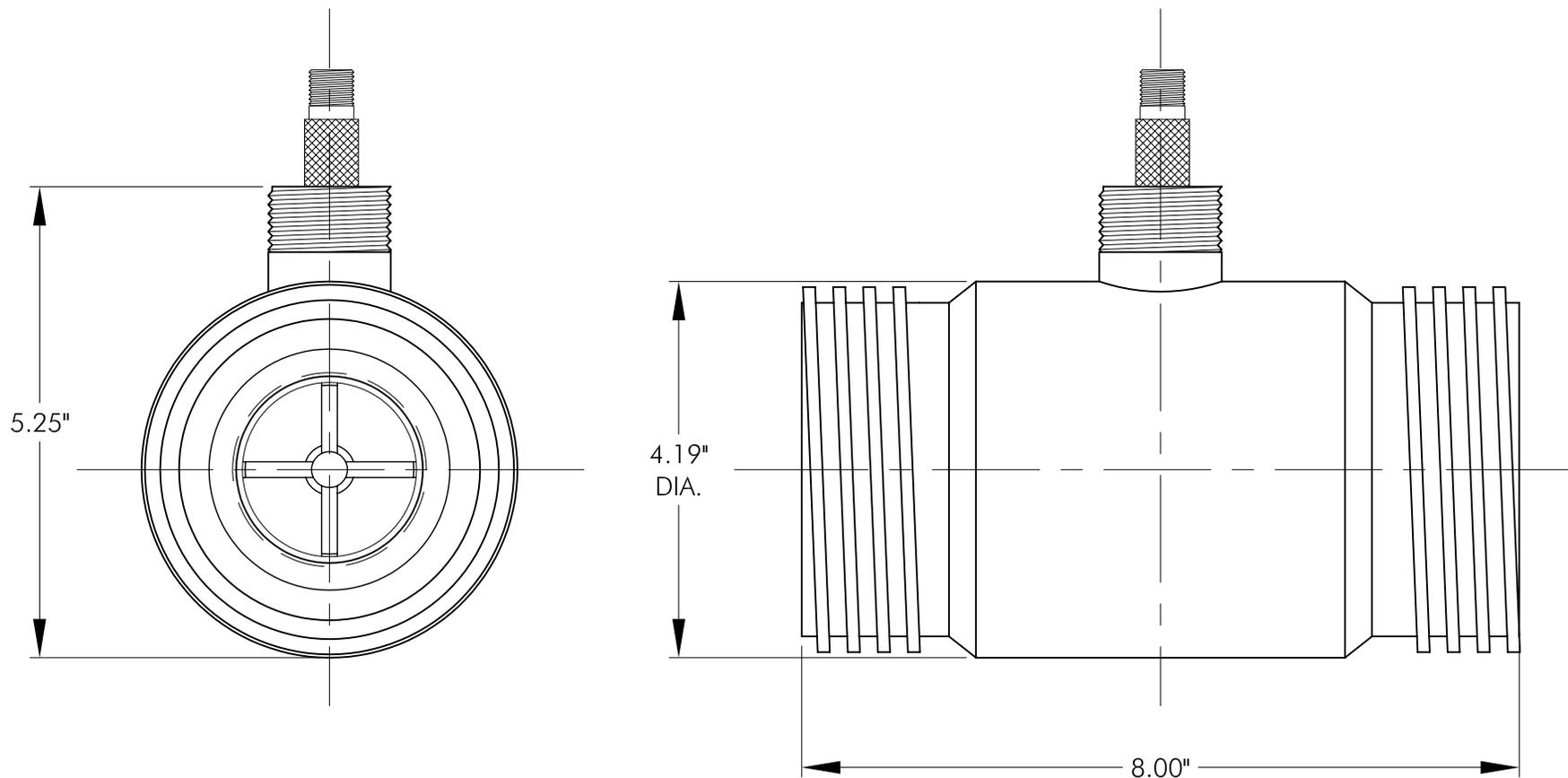
SPECIFICATIONS:
 FLOW RATE: 15-180 GPM
 PRESSURE RATING: 15000 PSI

NOTE:
 1.5" TURBINE REPAIR KIT PART NUMBER: 5.150

FLOW METER INSTALLATION DRAWING
 1.5" x 2" TURBINE FLOW METER WITH 1502 UNION ENDS, PART NO. 5.151502

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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 40-400 GPM

PRESSURE RATING: 15000 PSI

NOTE:

2" TURBINE REPAIR KIT PART NUMBER: 5.250

FLOW METER INSTALLATION DRAWING

2" x 2" TURBINE FLOW METER WITH 1502 UNION ENDS, PART NO. 5.21502

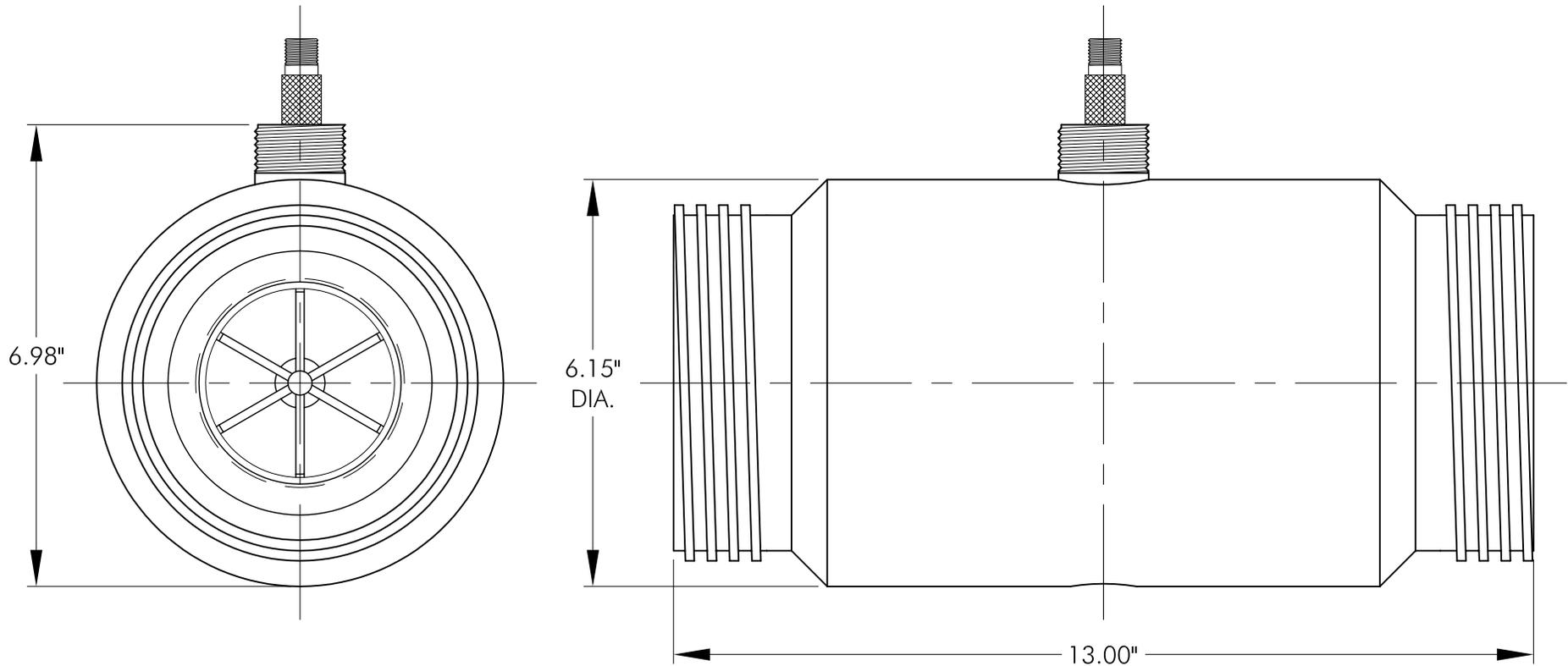
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 60-600 GPM

PRESSURE RATING: 15000 PSI

NOTE:

3" TURBINE REPAIR KIT PART NUMBER: 5.350

FLOW METER INSTALLATION DRAWING

3" x 3" TURBINE FLOW METER WITH 1502 UNION ENDS, PART NO. 5.31502

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Electronic Data Devices

Turbine Flow Meters



Square Flanged Turbine Flow Meters

Electronic Data Devices offers a line of turbine flow meters that are available with ranges from 5 GPM to 400 GPM covering a wide range of measurement applications. Our turbine flow meters are manufactured to the highest quality standards. Some of the typical applications include: oilfield waterflood, production, well servicing, pipelines, mining, chemicals, food and beverage industry, and most other liquid applications.

Square flanged turbine flow meters are available with raised face 316SS schedule 160 flanges. Operating pressure is 3600 psi. Square flanged meters are available in the following sizes: 1", 1 1/2" and 2".

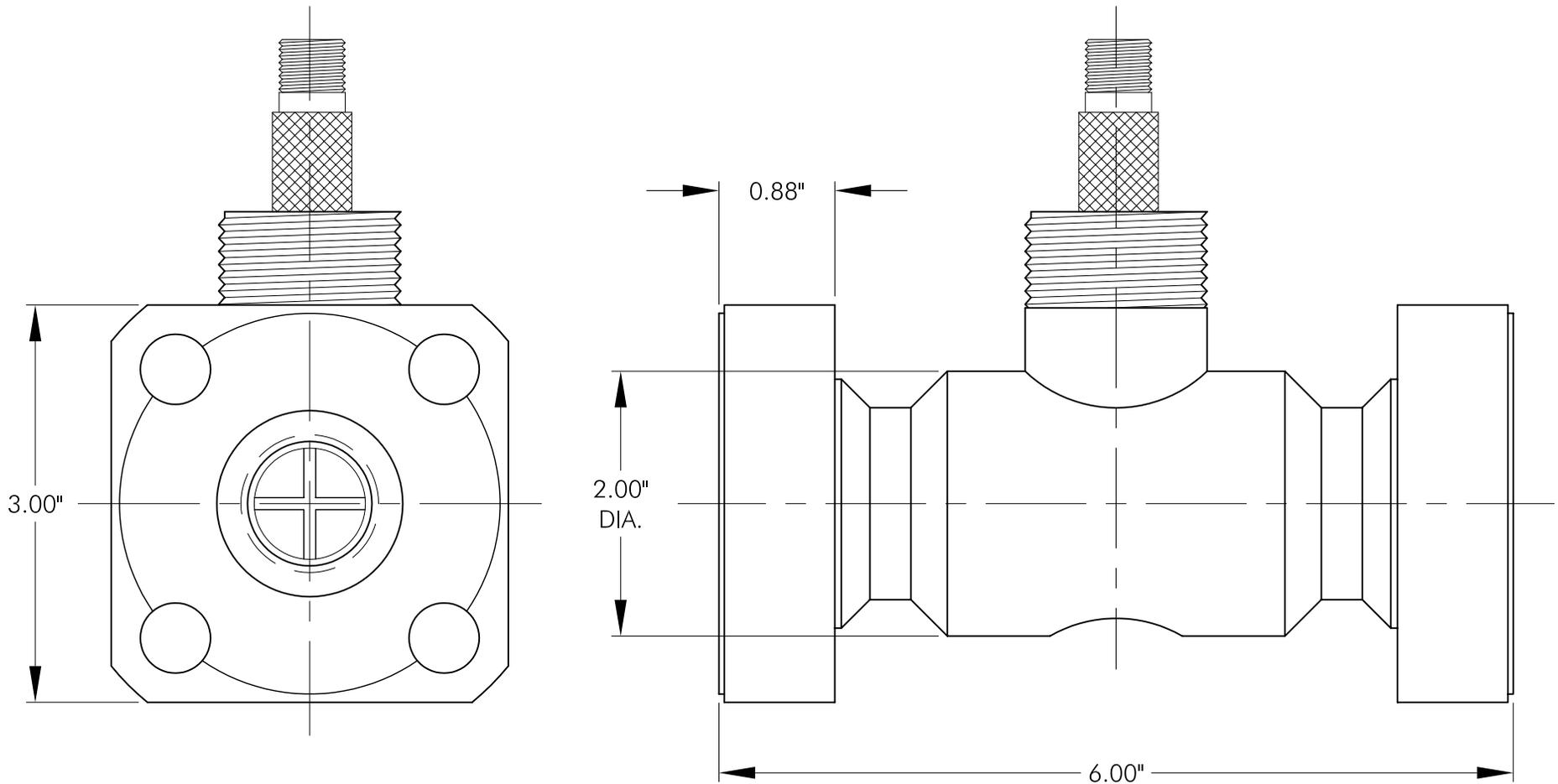
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 5-50 GPM

PRESSURE RATING: 275 PSI

NOTE:

1" TURBINE REPAIR KIT PART NUMBER: 5.100

FLOW METER INSTALLATION DRAWING

1" TURBINE FLOW METER W/ SQUARE SCHEDULE 160 FLANGES, PART NO. 3.1000SQ-SCH160

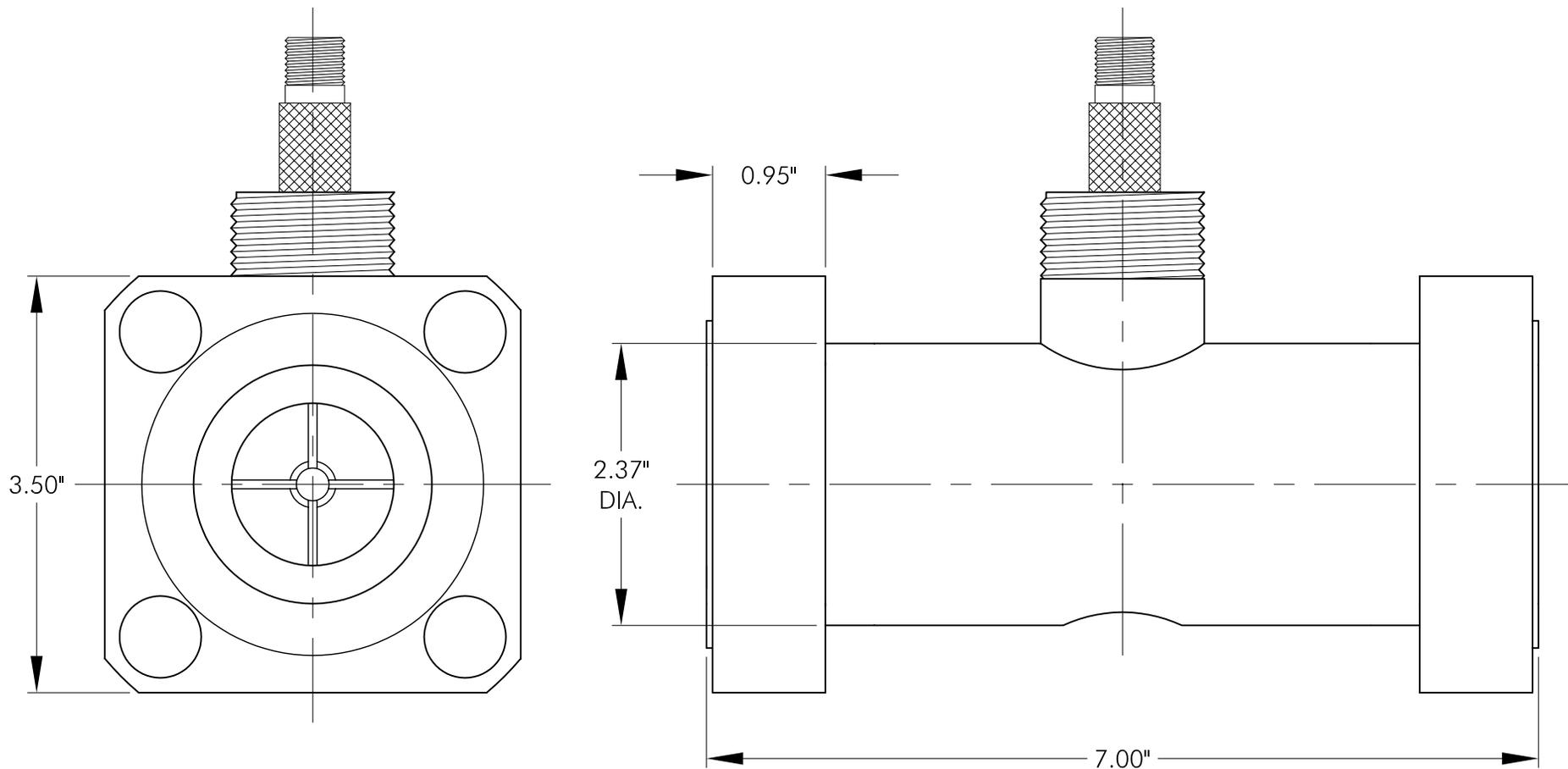
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 15-180 GPM

PRESSURE RATING: 275 PSI

NOTE:

1.5" TURBINE REPAIR KIT PART NUMBER: 5.150

FLOW METER INSTALLATION DRAWING

1.5" TURBINE FLOW METER W/ SQUARE SCHEDULE 160 FLANGES, PART NO. 3.1500SQ-SCH160

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Electronic Data Devices

Turbine Flow Meters



Standard Meter Repair Kits

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

Electronic Data Devices' 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, and 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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Electronic Data Devices

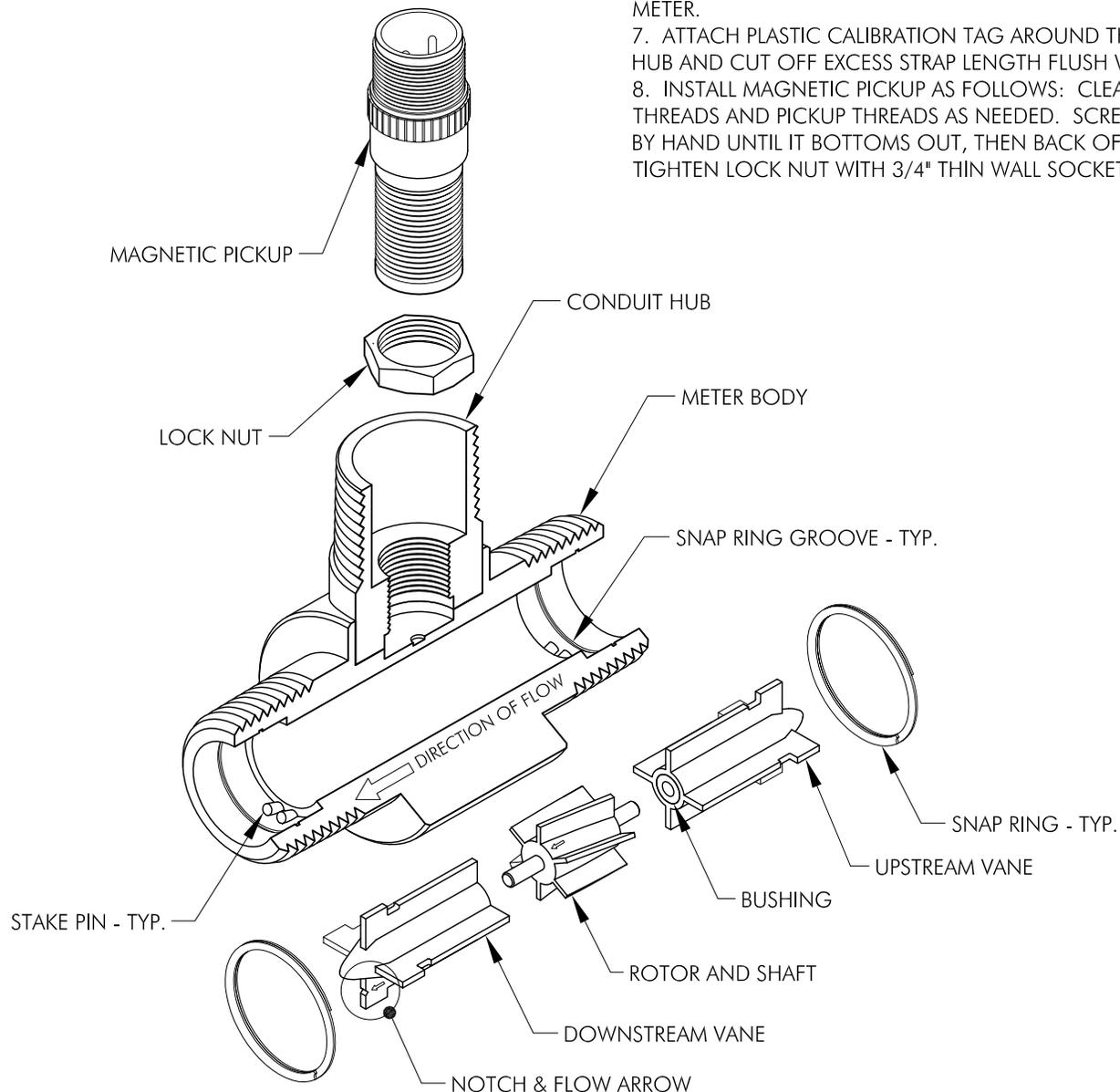
3/8" thru 3" Meter Repair Kit Installation Instructions

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 SNAP RING FROM EACH END OF METER BODY, USING PICK OR SCREWDRIVER.
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 SNAP RING GROOVES TO ALLOW THE RING TO PROPERLY SEAT.

KIT INSTALLATION

1. INSTALL DOWNSTREAM VANE SO ARROW ON VANE CORRESPONDS WITH DIRECTIONAL ARROW ON THE METER BODY. THE VANE BLADE WITH THE NOTCH GOES BETWEEN THE WELD STAKE PINS.
2. INSTALL OUTER DOWNSTREAM SNAP RING.
3. INSTALL ROTOR BEING SURE THE ARROW IS PROPERLY ALIGNED, AND THE SHAFT SEATED IN THE VANE BUSHING.
4. INSTALL UPSTREAM VANE, WITH NOTCHED VANE BLADE BETWEEN WELD STAKE PINS. 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 OUTER SNAP RING.
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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Electronic Data Devices

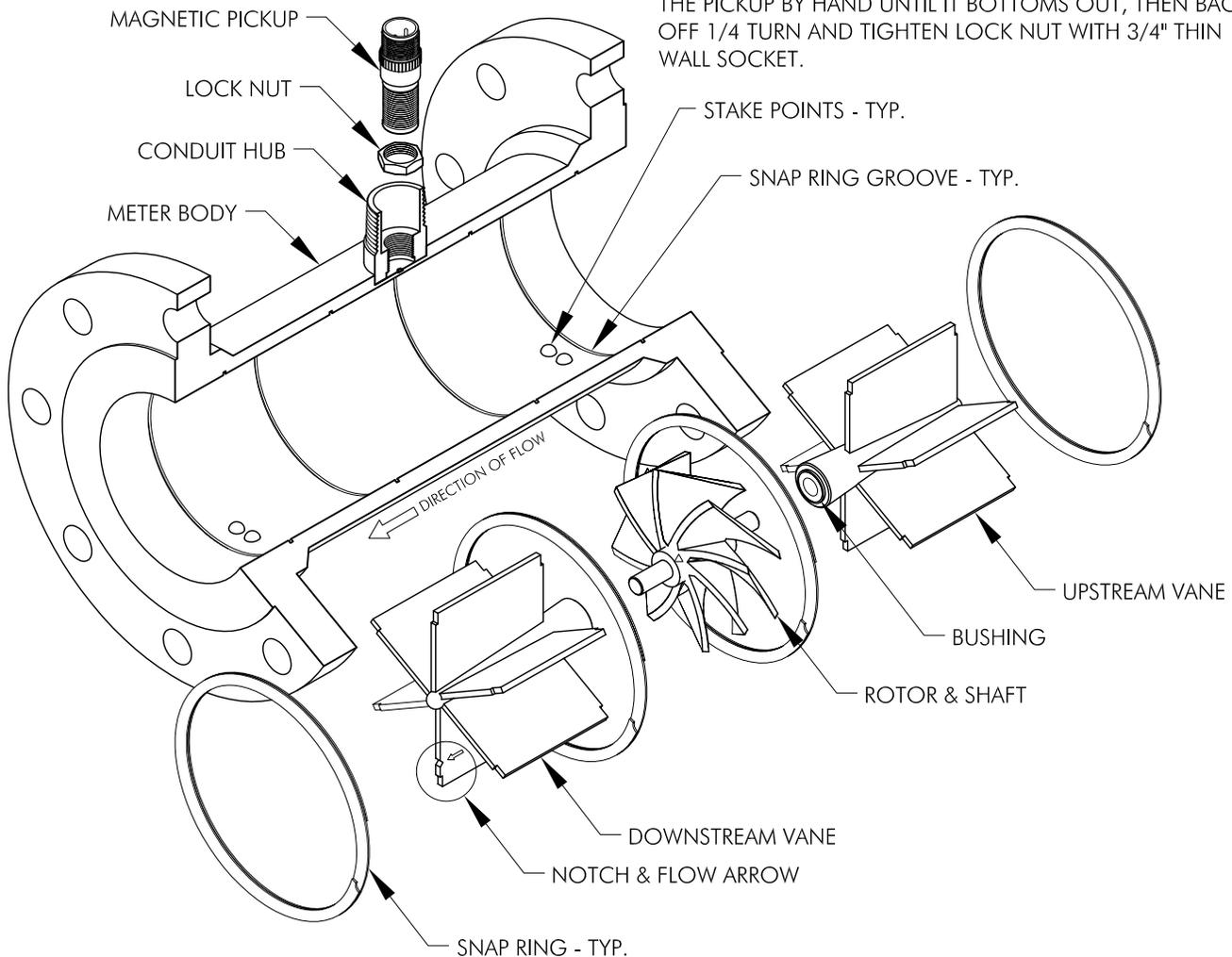
4" & Up Meter Repair Kit Installation Instructions

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 SNAP RING FROM EACH END OF METER BODY, USING PICK OR SCREWDRIVER.
3. REMOVE UPSTREAM AND DOWNSTREAM VANES, TAPPING WITH SOFT ROD IF NECESSARY TO DRIVE OUT VANES.
4. REMOVE INNER SNAP RINGS AND ROTOR FROM BODY.
5. CLEAN THE METER BODY BORE AS REQUIRED BRINGING IT BACK TO A LIKE NEW CONDITION.
6. CLEAN SNAP RING GROOVES TO ALLOW THE RING TO PROPERLY SEAT.

KIT INSTALLATION

1. INSTALL DOWNSTREAM INNER SNAP RING.
2. INSTALL DOWNSTREAM VANE SO ARROW ON VANE CORRESPONDS WITH DIRECTIONAL ARROW ON THE METER BODY. THE VANE BLADE WITH THE NOTCH GOES BETWEEN THE WELD STAKE POINTS.
3. INSTALL OUTER DOWNSTREAM SNAP RING.
4. INSTALL ROTOR BEING SURE THE ARROW IS PROPERLY ALIGNED, AND THE SHAFT SEATED IN THE VANE BUSHING.
5. INSTALL UPSTREAM INNER SNAP RING.
6. INSTALL UPSTREAM VANE, WITH NOTCHED VANE BLADE BETWEEN WELD STAKE SPOTS. 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.*
7. INSTALL UPSTREAM SNAP RING.
8. MAKE SURE THE ROTOR SPINS FREELY BEFORE INSTALLING THE METER.
9. ATTACH PLASTIC CALIBRATION TAG AROUND THE CONDUIT HUB AND CUT OFF EXCESS STRAP LENGTH FLUSH WITH TAG.
10. 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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Electronic Data Devices

Turbine Flow Meters



BF Series Turbine Flow Meters

Electronic Data Devices offers a complete line of turbine flow meters that are available with ranges from 0.3 GPM to 5500 GPM covering a wide range of measurement applications. Our turbine flow meters are manufactured to the highest quality standards, and are available with a wide range of end connections compatible with many applications. Some of the typical applications include: oilfield waterflood, production, well servicing, pipelines, mining, chemicals, food and beverage industry, and most other liquid applications.

BF series meters are available in the following sizes

All between flange series meters are available for use with 150# - 1500# RF ANSI flanges with pressure ratings of 275 - 3600 psi.

.75" X 2"

1.5" X 2"

3" X 3"

6" X 6"

1" X 2"

2" X 2"

4" X 4"

8" X 8"

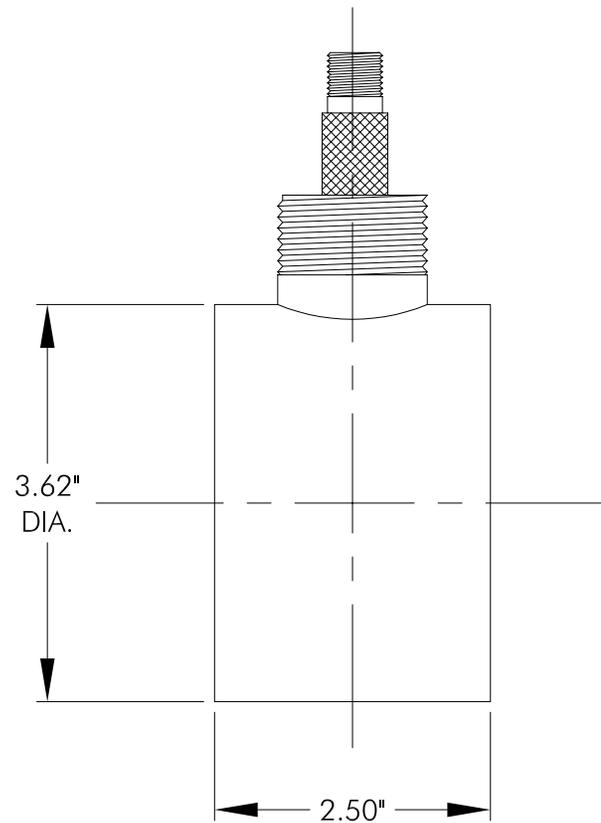
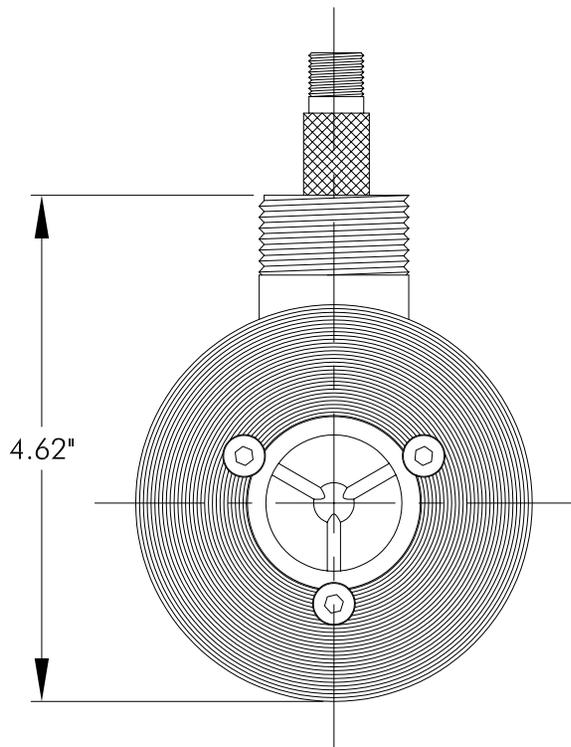
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 0.75-7.5 GPM

PRESSURE RATING: AS PER FLANGE RATING

NOTE:

1/2" TURBINE REPAIR KIT PART NUMBER: 6.050

FLOW METER INSTALLATION DRAWING

1/2" x 2" BETWEEN FLANGE FLOW METER WITH RAISED FACE ENDS, PART NO. 6.0500

P.O. Box 12128

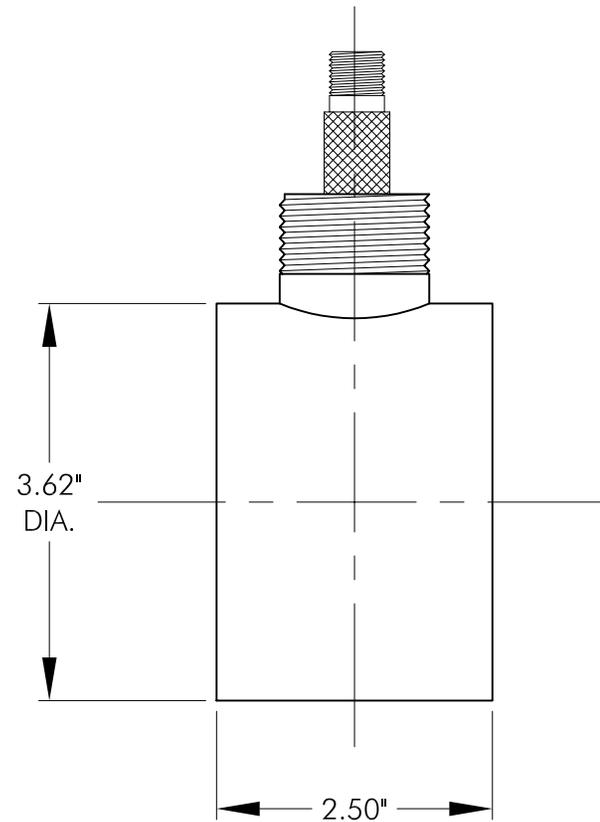
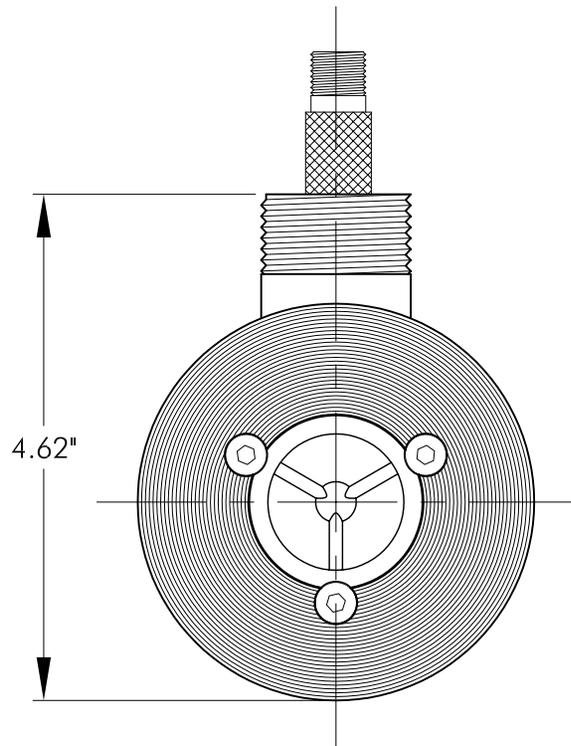
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Electronic Data Devices



NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 2-15 GPM

PRESSURE RATING: AS PER FLANGE RATING

NOTE:

3/4" TURBINE REPAIR KIT PART NUMBER: 6.075

FLOW METER INSTALLATION DRAWING

3/4" x 2" BETWEEN FLANGE FLOW METER WITH RAISED FACE ENDS, PART NO. 6.0750

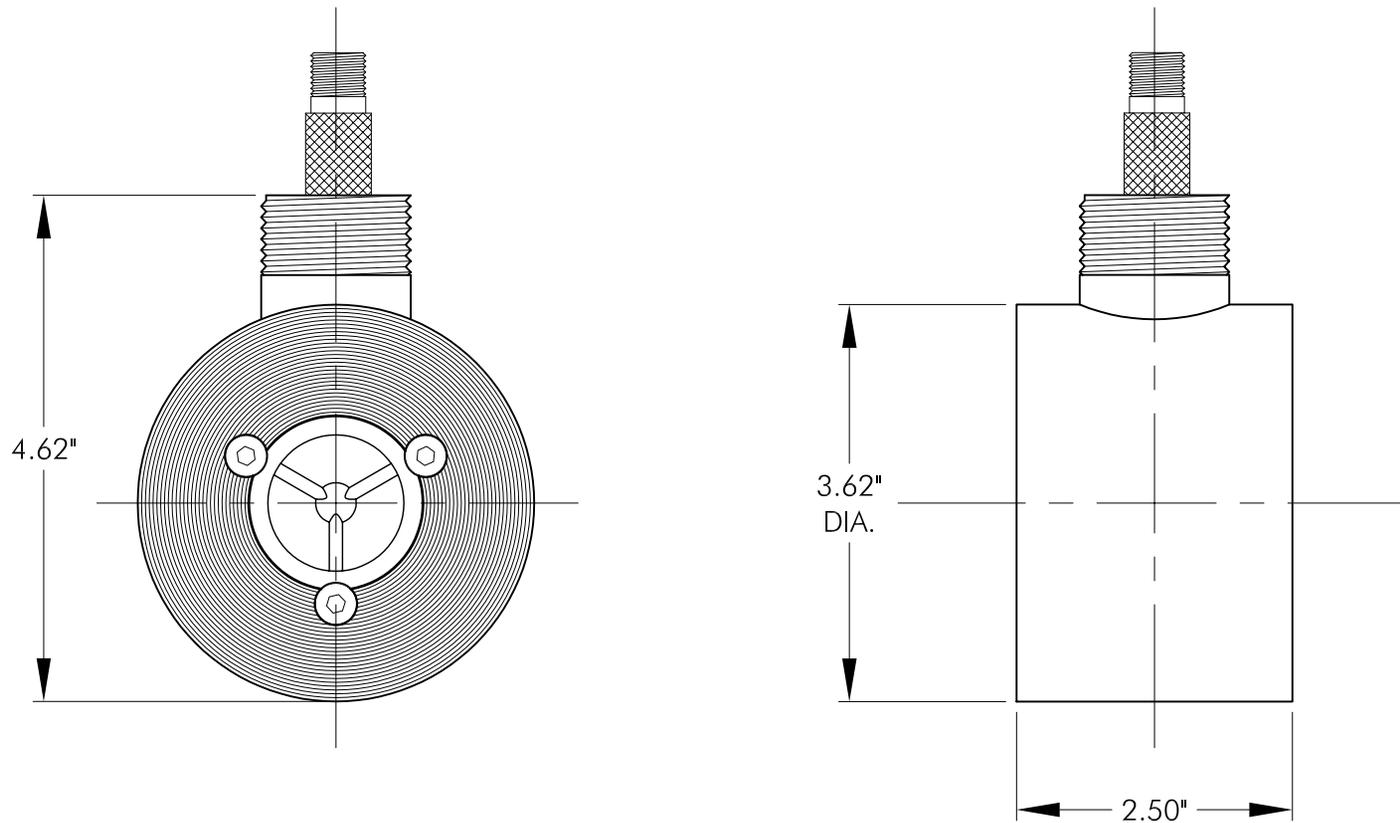
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:
 FLOW RATE: 3-30 GPM
 PRESSURE RATING: AS PER FLANGE RATING

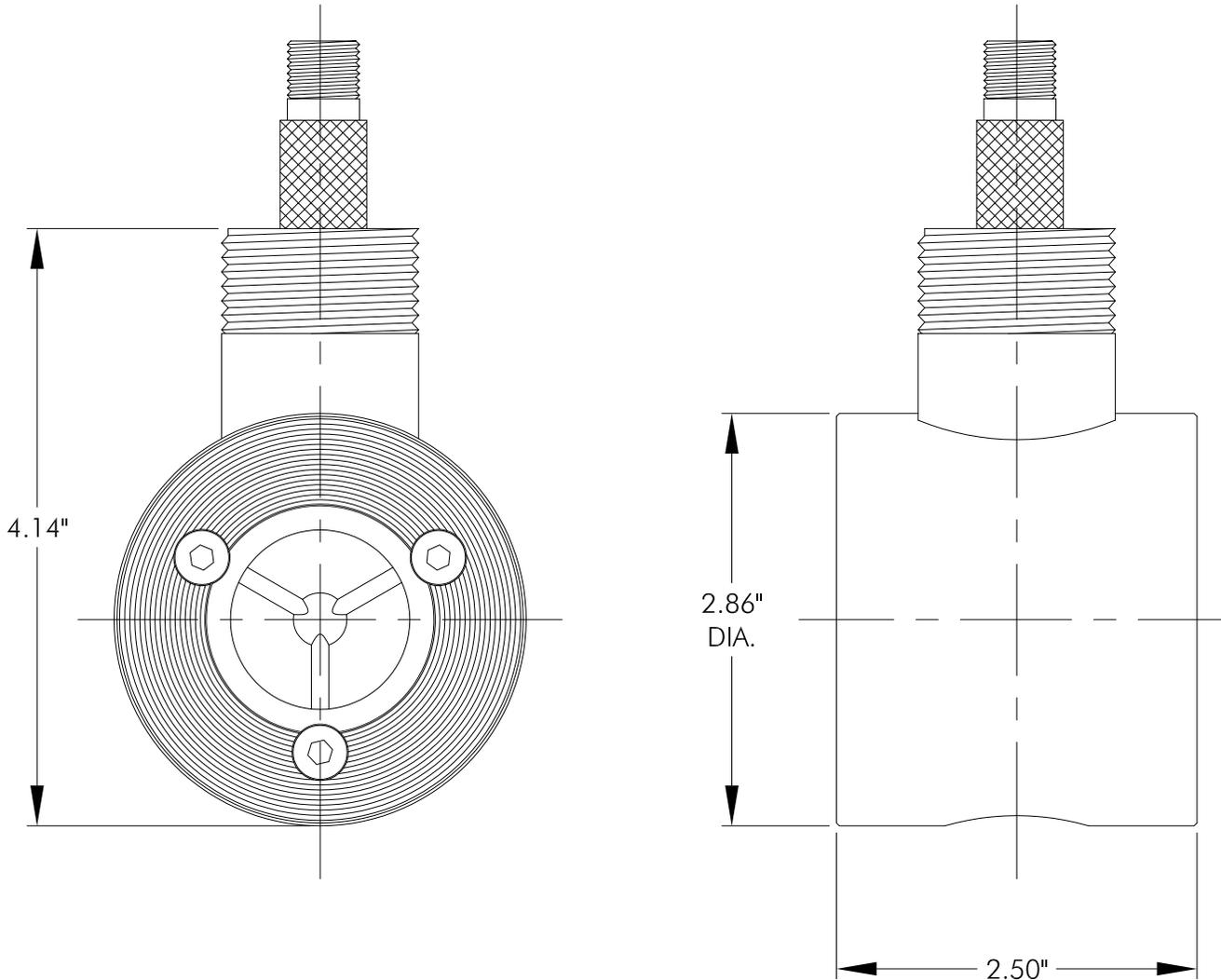
NOTE:
 7/8" TURBINE REPAIR KIT PART NUMBER: 6.087

FLOW METER INSTALLATION DRAWING

7/8" x 2" BETWEEN FLANGE FLOW METER WITH RAISED FACE ENDS, PART NO. 6.0870

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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:
 FLOW RATE: 5-50 GPM
 PRESSURE RATING: AS PER FLANGE RATING

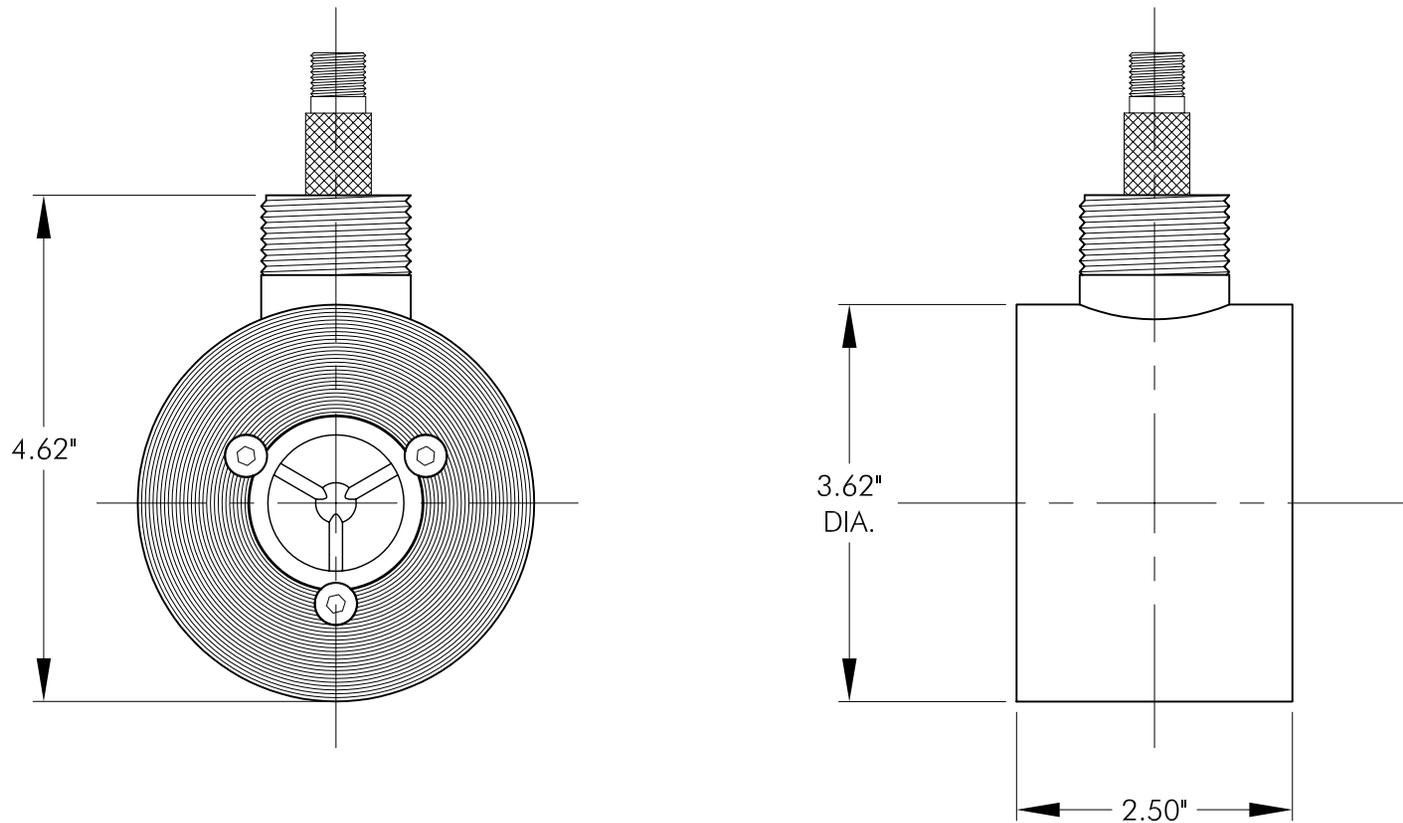
NOTE:
 1" TURBINE REPAIR KIT PART NUMBER: 6.101

FLOW METER INSTALLATION DRAWING

1" x 1.5" BETWEEN FLANGE TURBINE FLOW METER WITH RAISED FACE ENDS, PART NO. 6.1510

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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:
 FLOW RATE: 5-50 GPM
 PRESSURE RATING: AS PER FLANGE RATING

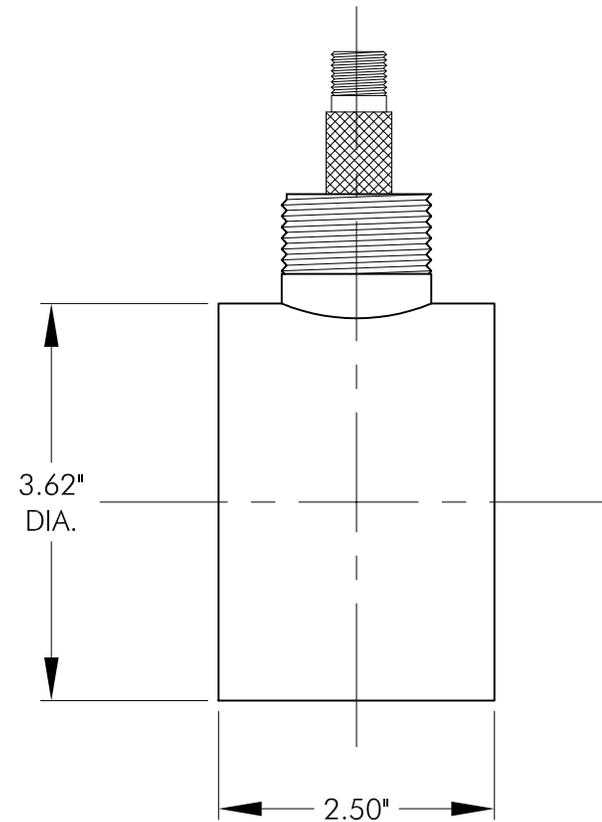
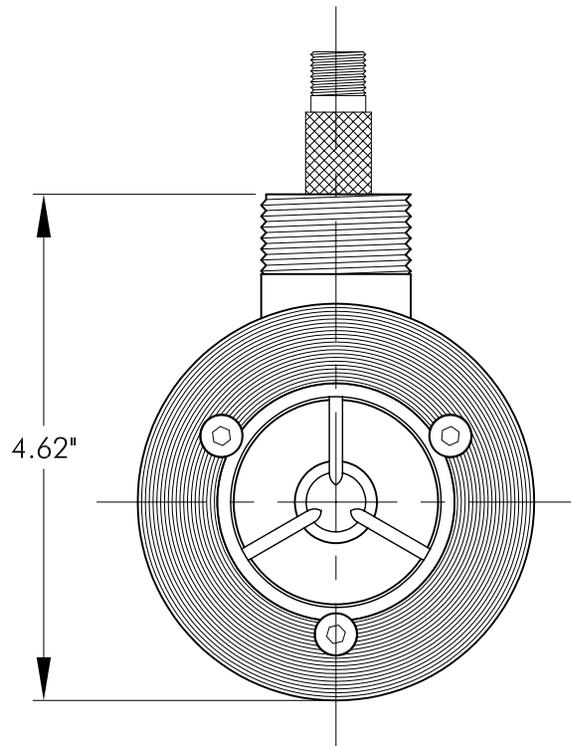
NOTE:
 1" TURBINE REPAIR KIT PART NUMBER: 6.101

FLOW METER INSTALLATION DRAWING

1" x 2" BETWEEN FLANGE TURBINE FLOW METER WITH RAISED FACE ENDS, PART NO. 6.1001

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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 5-50 GPM

PRESSURE RATING: AS PER FLANGE RATING

NOTE:

1" TURBINE REPAIR KIT PART NUMBER: 6.100

FLOW METER INSTALLATION DRAWING

1" X 2" BETWEEN FLANGE TURBINE FLOW METER WITH RAISED FACE, PART NO. 6.1000

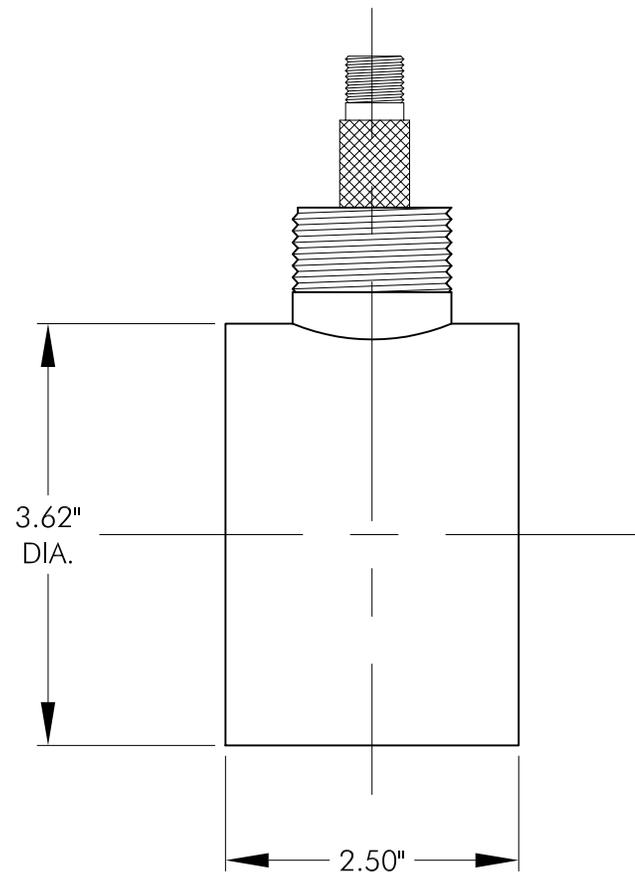
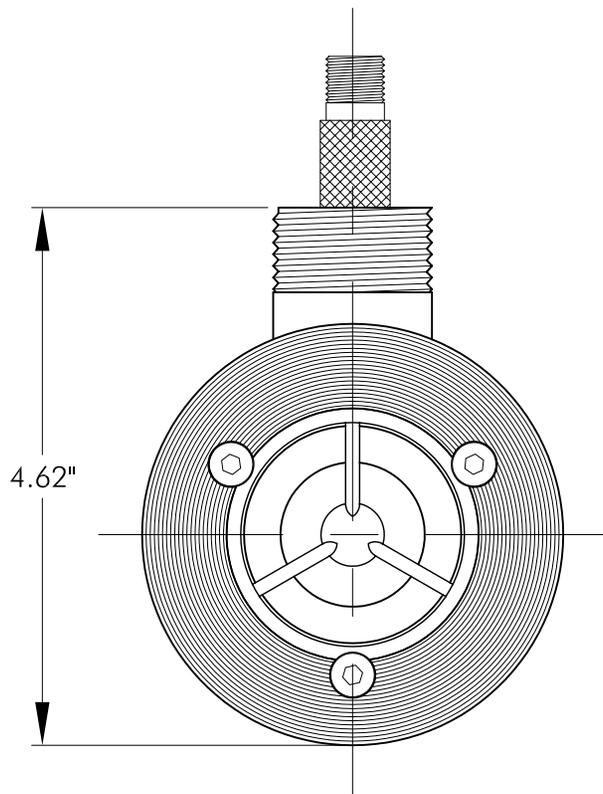
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E-mail: rkw@eddevices.com Website: www.eddevices.com





NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 15-180 GPM

PRESSURE RATING: AS PER FLANGE RATING

NOTE:

1.5" TURBINE REPAIR KIT PART NUMBER: 6.150

FLOW METER INSTALLATION DRAWING

1.5" x 2" BETWEEN FLANGE TURBINE FLOW METER WITH RAISED FACE ENDS, PART NO. 6.1510

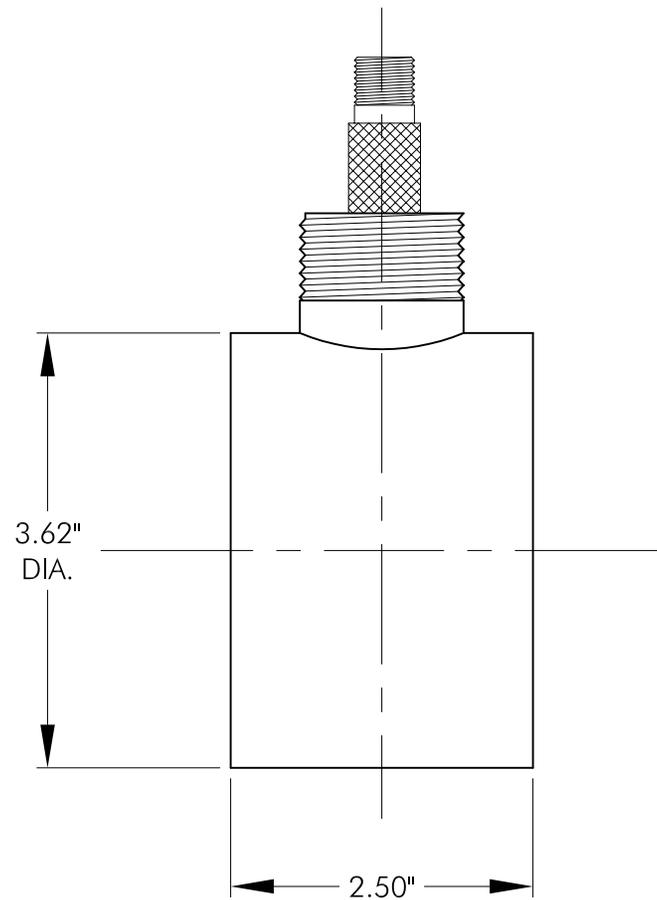
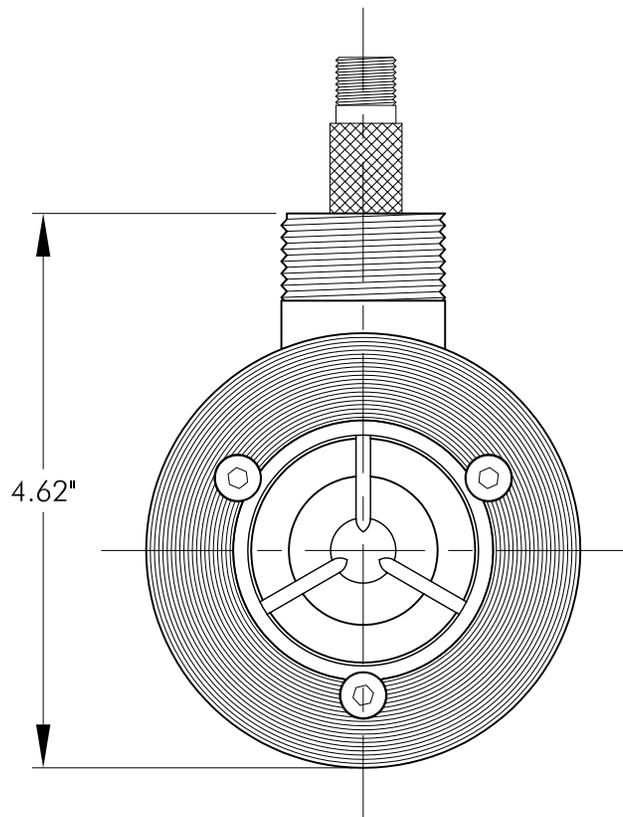
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 40-400 GPM

PRESSURE RATING: AS PER FLANGE RATING

NOTE:

2" TURBINE REPAIR KIT PART NUMBER: 6.250

FLOW METER INSTALLATION DRAWING

2" x 2" BETWEEN FLANGE TURBINE FLOW METER WITH RAISED FACE ENDS, PART NO. 6.2000

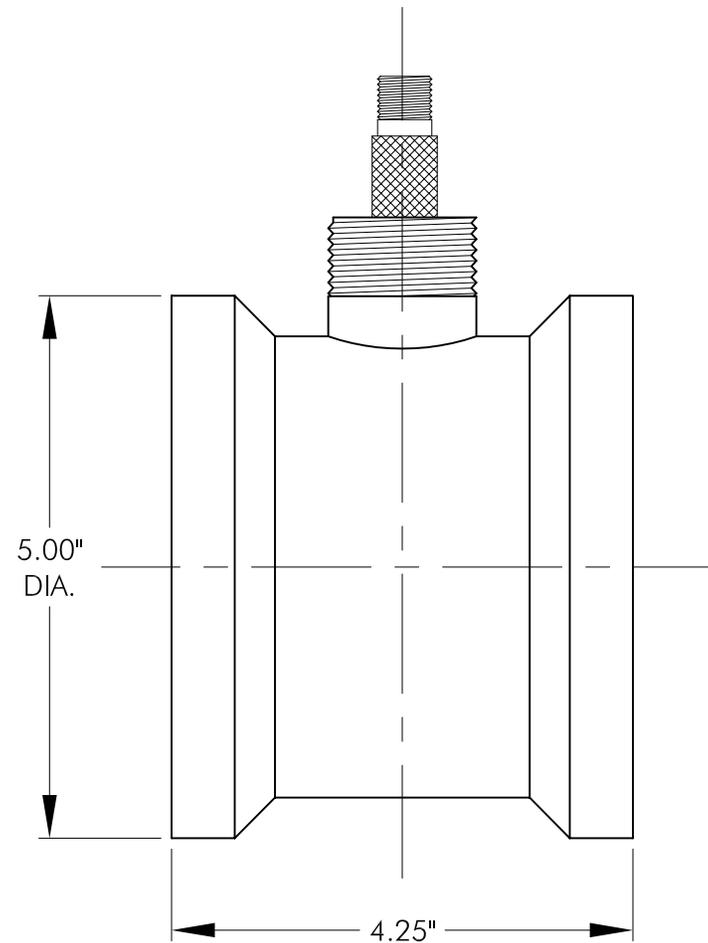
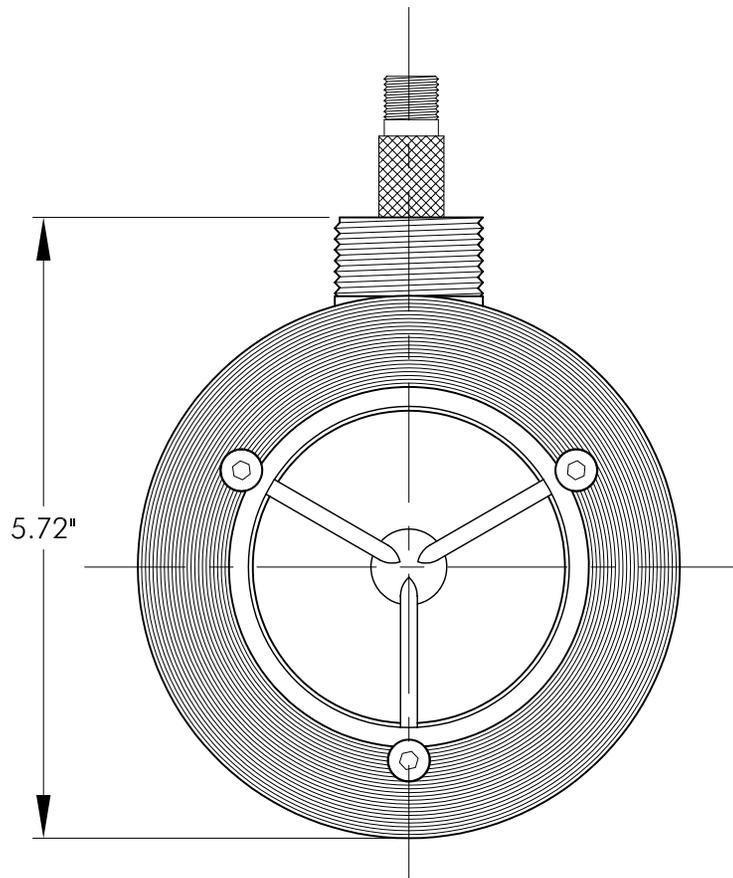
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 60-600 GPM

PRESSURE RATING: AS PER FLANGE RATING

NOTE:

3" TURBINE REPAIR KIT PART NUMBER: 6.350

FLOW METER INSTALLATION DRAWING

3" x 3" BETWEEN FLANGE TURBINE FLOW METER WITH RAISED FACE ENDS, PART NO. 6.3000

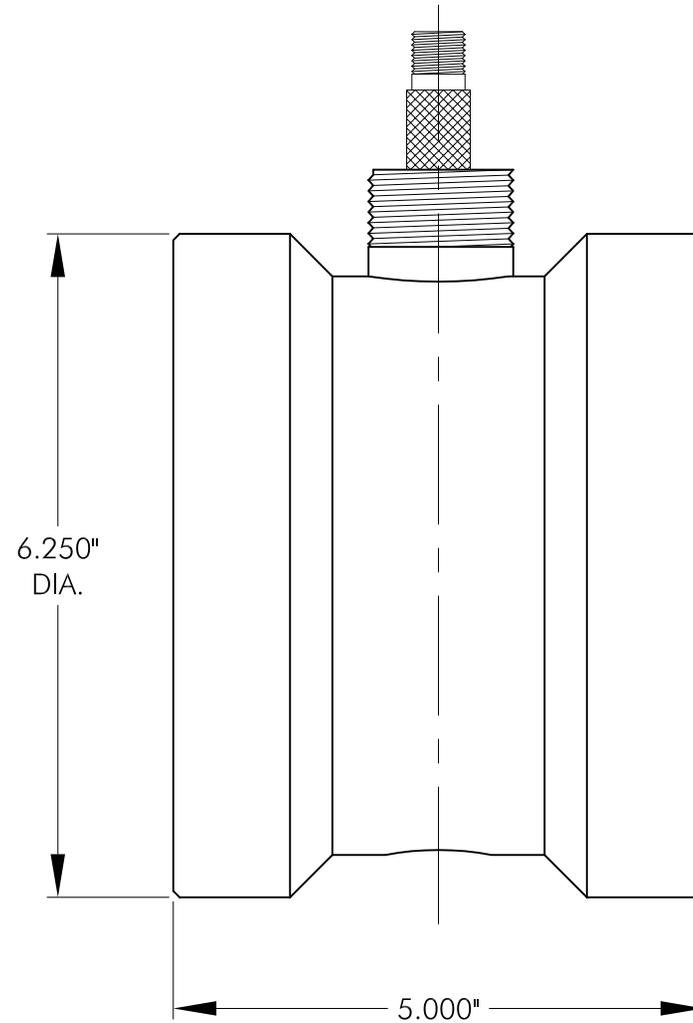
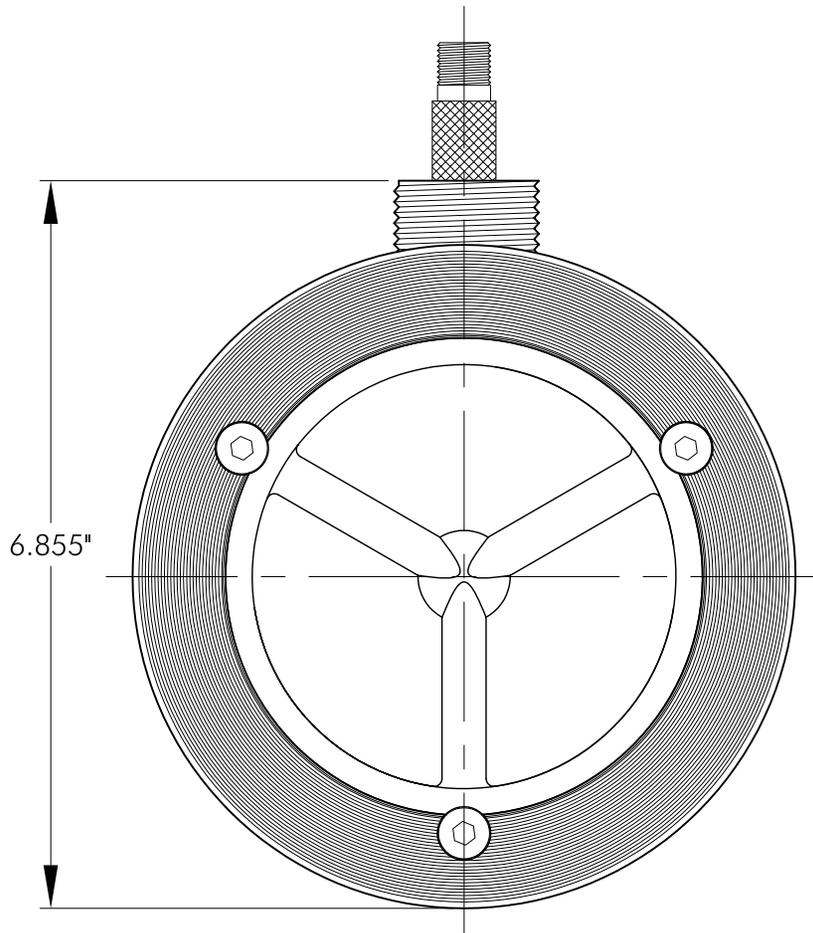
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 100-1200 GPM

PRESSURE RATING: AS PER FLANGE RATING

NOTE:

4" TURBINE REPAIR KIT PART NUMBER: 6.450

FLOW METER INSTALLATION DRAWING

4" x 4" BETWEEN FLANGE TURBINE FLOW METER WITH RAISED FACES, PART NO. 6.4000

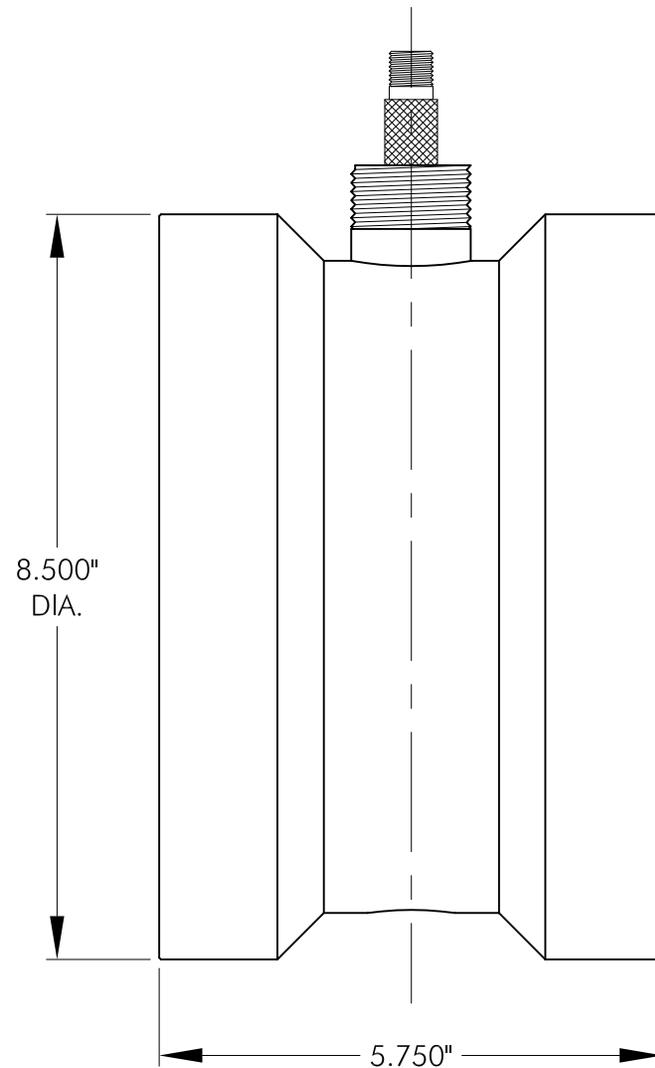
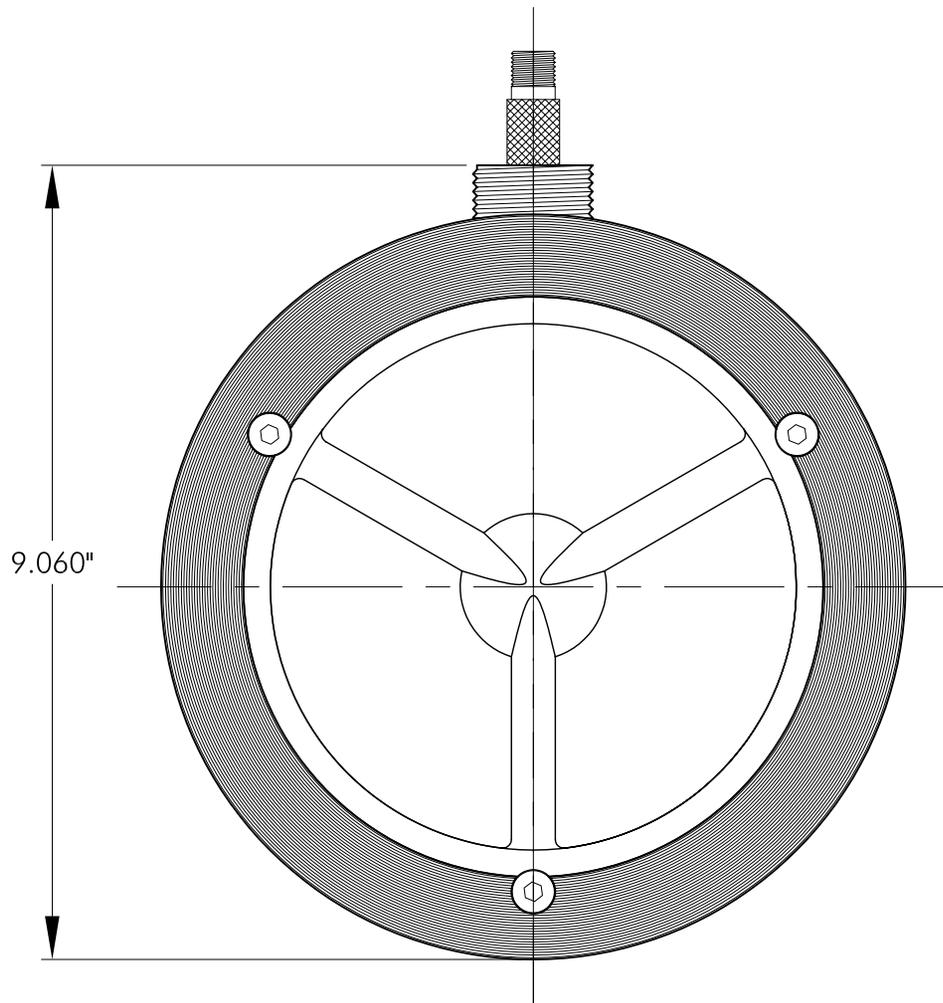
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 200-2500 GPM

PRESSURE RATING: AS PER FLANGE RATING

NOTE:

6" TURBINE REPAIR KIT PART NUMBER: 6.650

FLOW METER INSTALLATION DRAWING

6" x 6" BETWEEN FLANGE FLOW METER WITH RAISED FACES, PART NO. 6.6000

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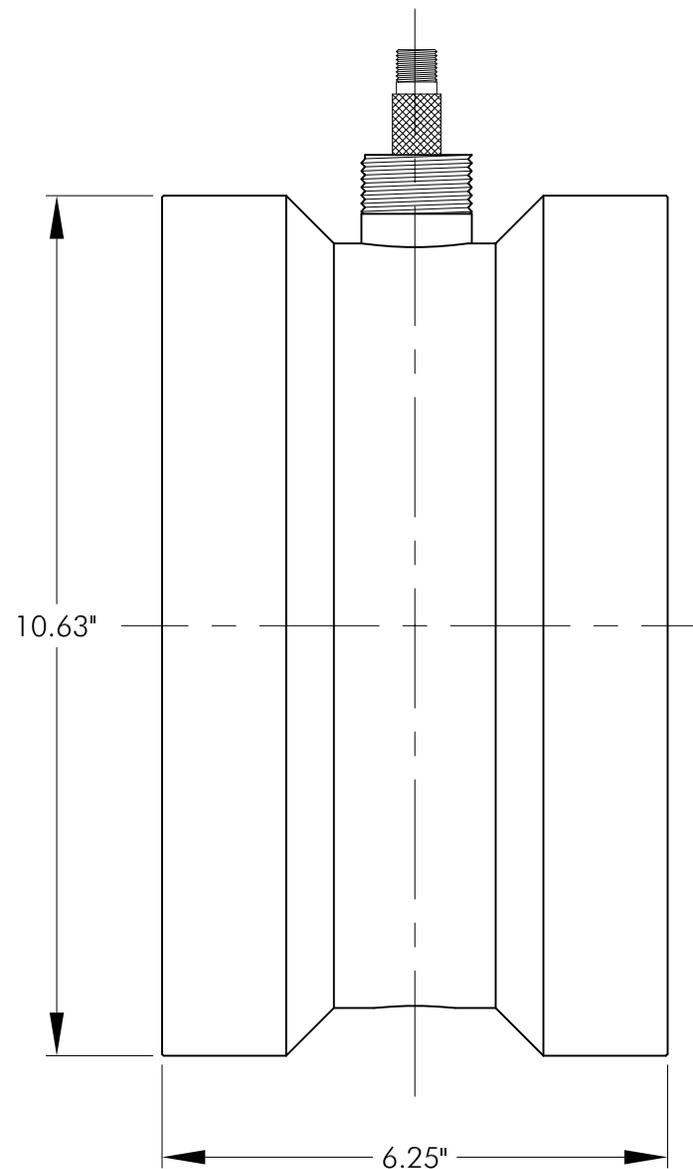
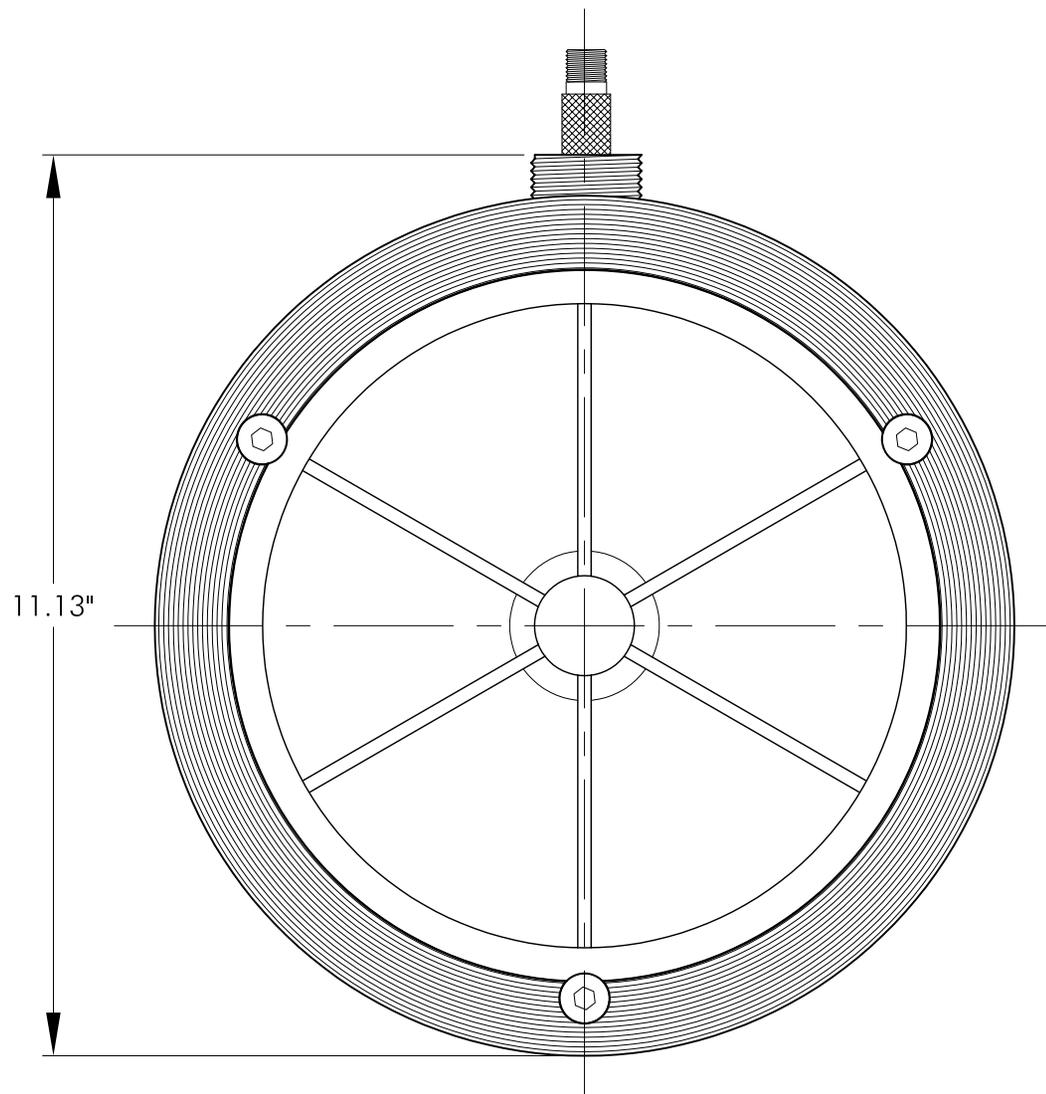
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 350-3500 GPM

PRESSURE RATING: AS PER FLANGE RATING

NOTE:

8" TURBINE REPAIR KIT PART NUMBER: 6.850

FLOW METER INSTALLATION DRAWING

8" x 8" BETWEEN FLANGE FLOW METER WITH RAISED FACE ENDS, PART NO. 6.8000

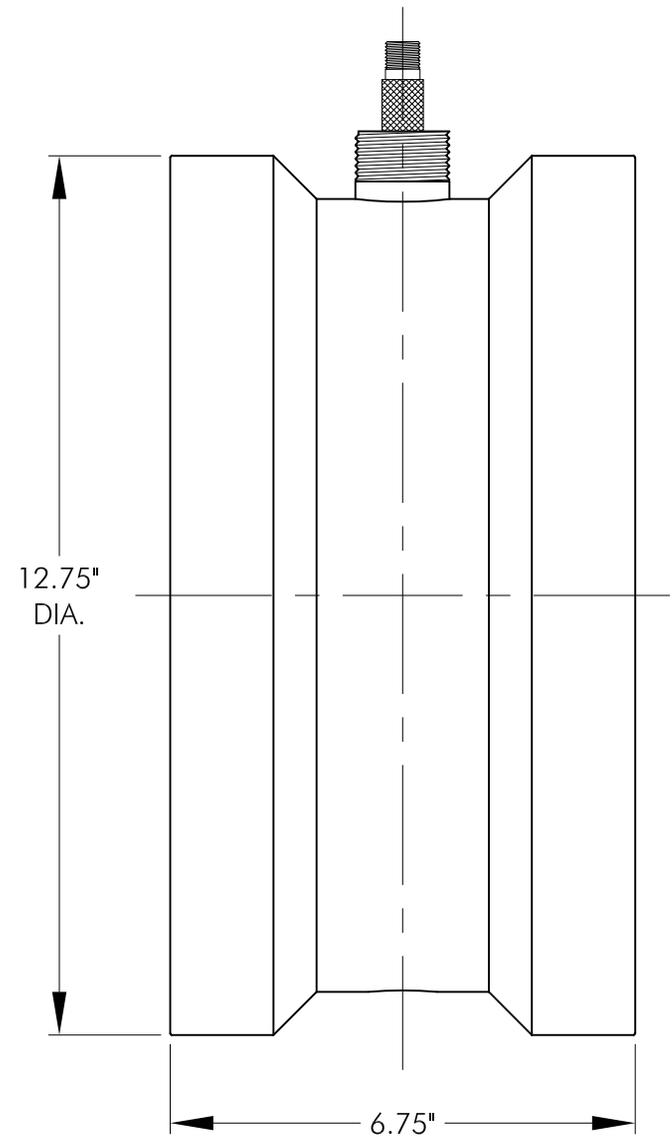
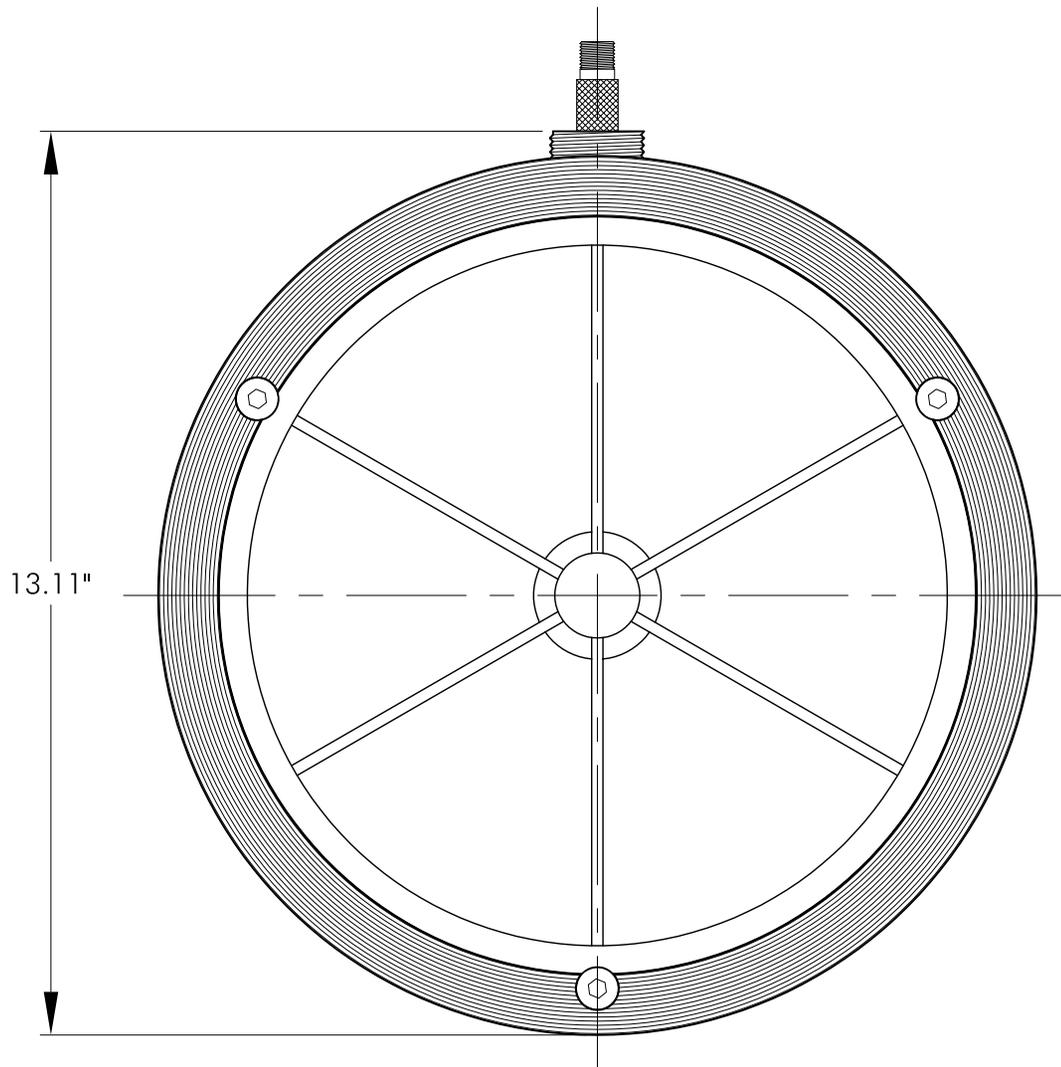
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SPECIFICATIONS:

FLOW RATE: 500-5500 GPM

PRESSURE RATING: AS PER FLANGE RATING

NOTE:

10" TURBINE REPAIR KIT PART NUMBER: 6.10500

FLOW METER INSTALLATION DRAWING

10" x 10" BETWEEN FLANGE FLOW METER WITH RAISED FACE ENDS, PART NO. 6.10000

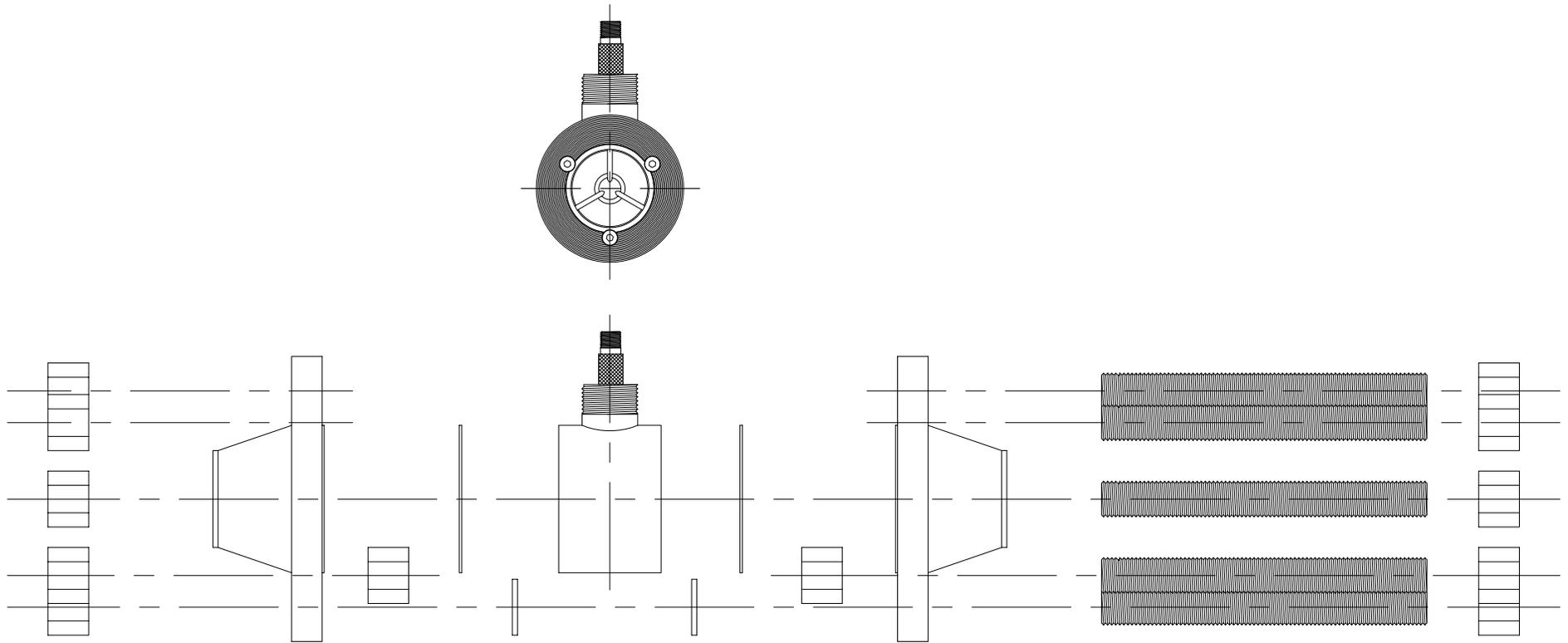
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:
 FLOW RATE: PER METER
 PRESSURE RATING: AS PER FLANGE RATING

NOTE:
 METER AND FLANGE ASSEMBLY SHOWN

FLOW METER ASSEMBLY DRAWING

1" - 8" BETWEEN FLANGE METER WITH RAISED FACE ENSD FOR 150- 1500 LBS. FLANGES

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Electronic Data Devices

Turbine Flow Meters



4" Long BF Turbine Flow Meters

Electronic Data Devices offers a complete line of between flange turbine flow meters that are available with ranges from 0.3 GPM to 50 GPM covering a wide range of measurement applications. Our turbine flow meters are manufactured to the highest quality standards. Some of the typical applications include: oilfield waterflood, production, well servicing, pipelines, mining, chemicals, food and beverage industry, and most other liquid applications.

4" long BF meters are available in the sizes below.

The working pressure for the meter is determined by the flanges used. All sizes are compatible with 150 pound to 1500 pound flanges.

3/8" x 1" x 4" 1/2" x 1" x 4" 3/4" x 1" x 4" 7/8" x 1" x 4" 1" x 1" x 4"

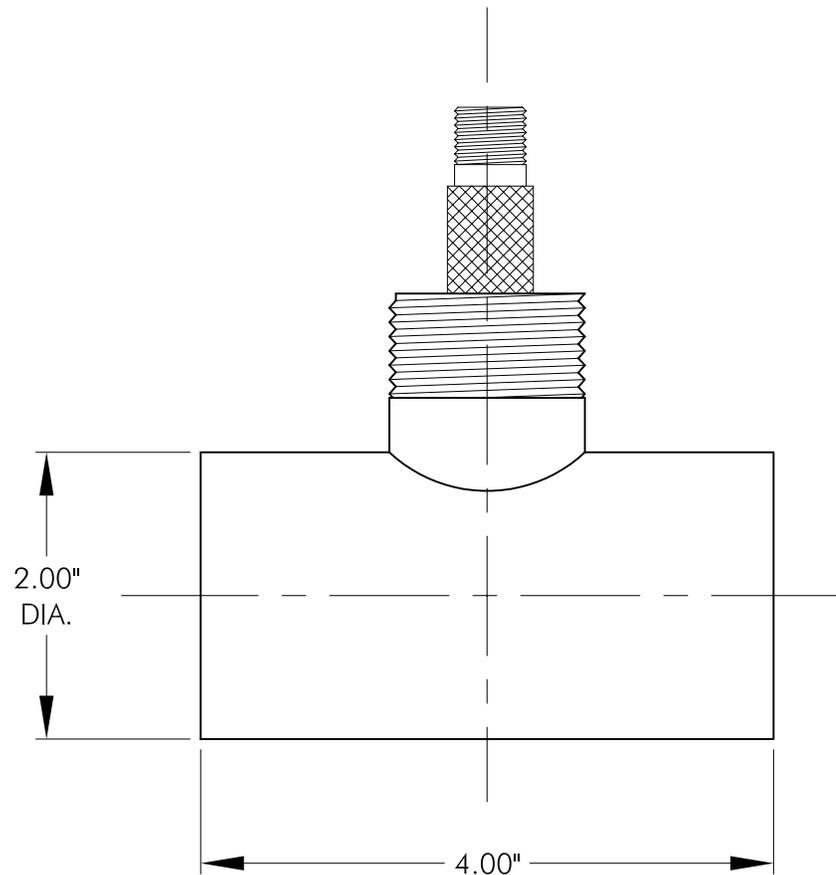
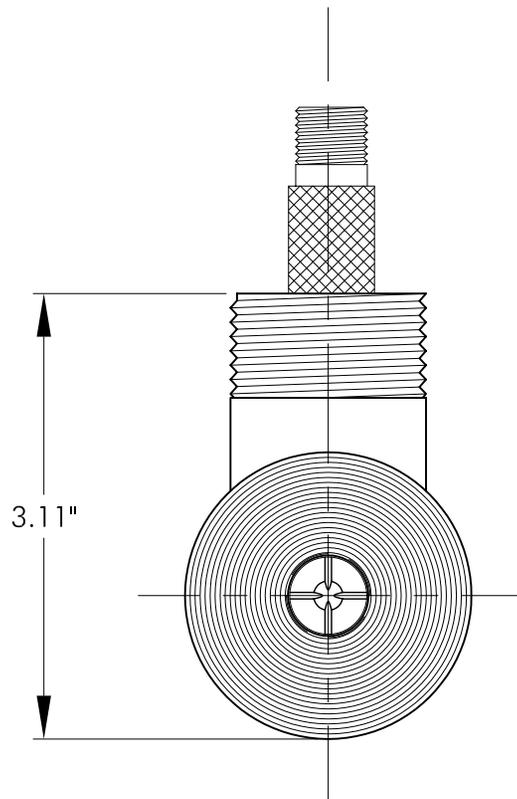
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Fax
432-366-1106

Email
rkw@eddevices.com

Website
www.eddevices.com



NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 0.3-3 GPM

PRESSURE RATING: AS PER FLANGE RATING

NOTE:

3/8" TURBINE REPAIR KIT PART NUMBER: 5.037

FLOW METER INSTALLATION DRAWING

3/8" x 1" x 4" BETWEEN FLANGE FLOW METER WITH RAISED FACE ENDS, PART NO. 5.0375BF4

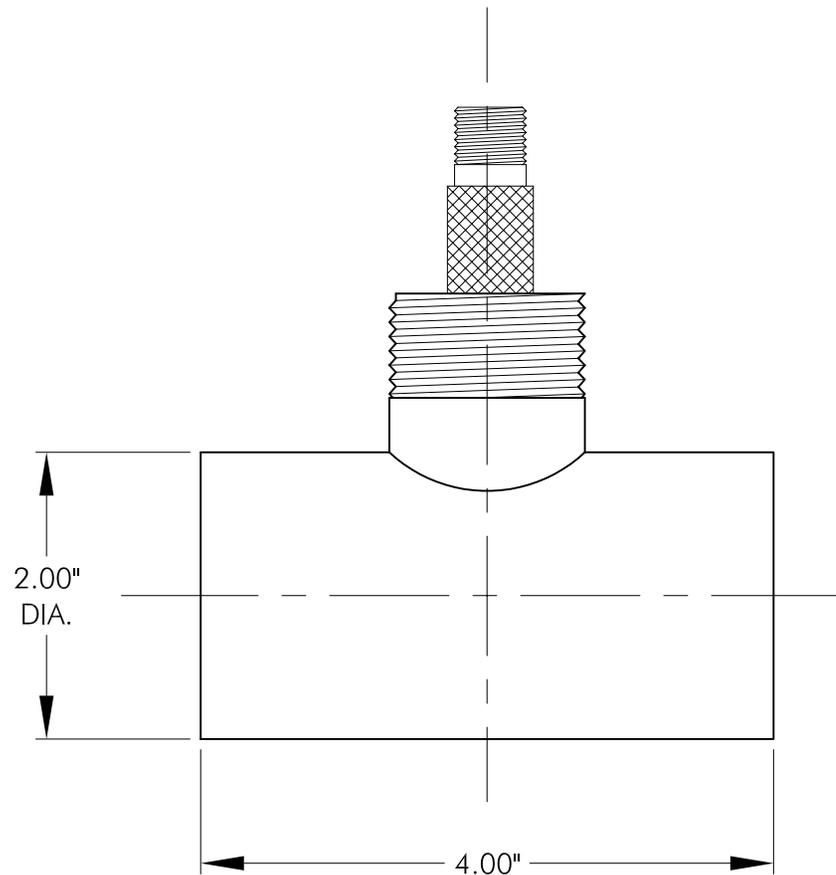
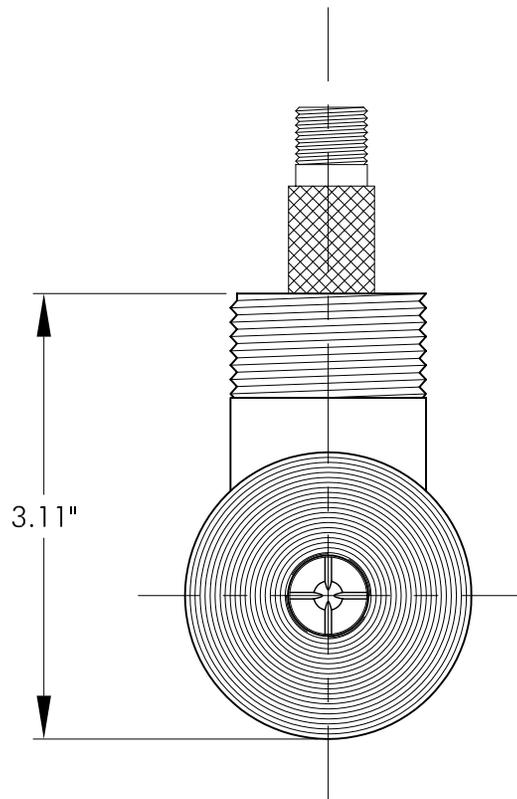
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 0.75-7.5 GPM

PRESSURE RATING: AS PER FLANGE RATING

NOTE:

1/2" TURBINE REPAIR KIT PART NUMBER: 5.050

FLOW METER INSTALLATION DRAWING

1/2" x 1" x 4" BETWEEN FLANGE FLOW METER WITH RAISED FACE ENDS, PART NO. 5.0500BF4

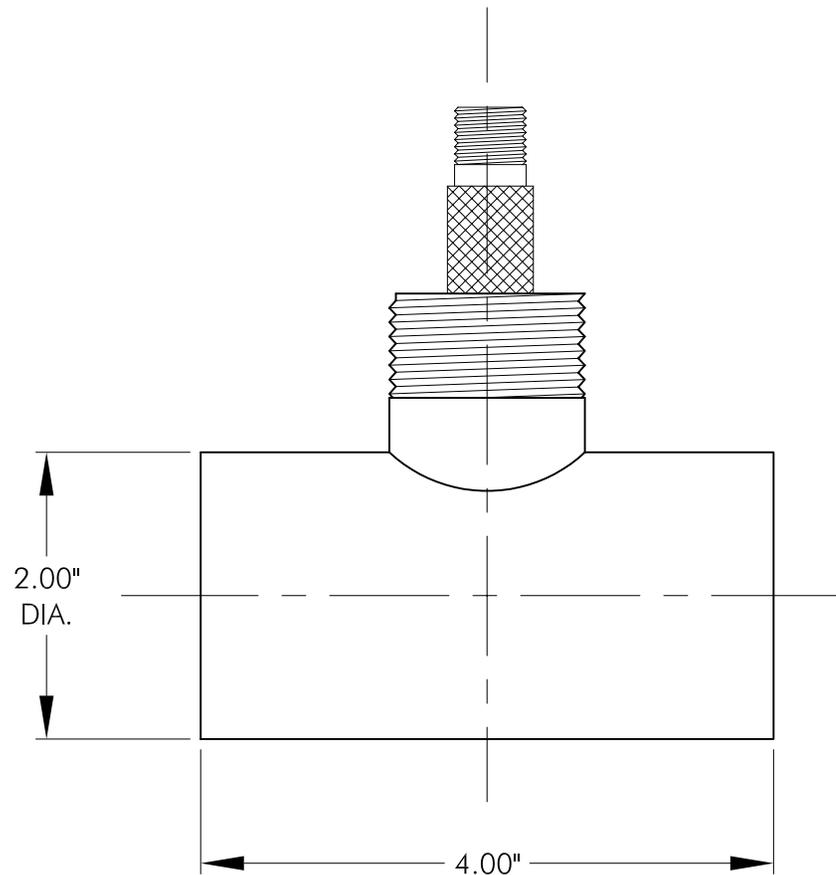
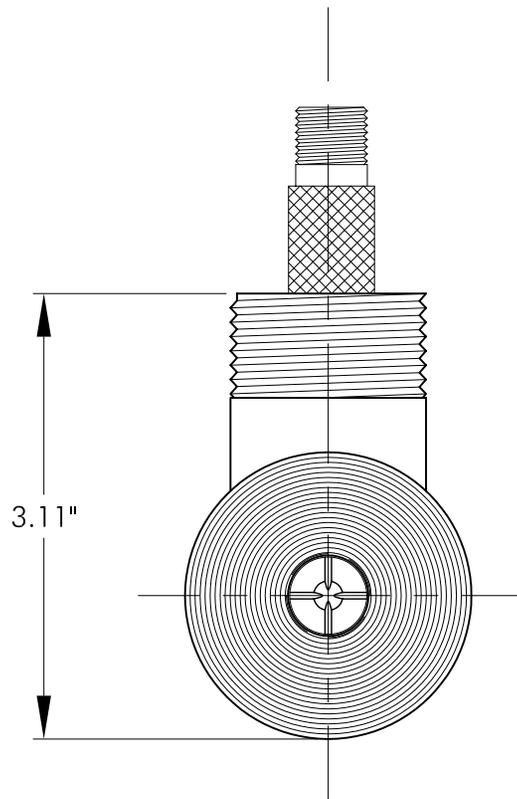
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 2-15 GPM

PRESSURE RATING: AS PER FLANGE RATING

NOTE:

3/4" TURBINE REPAIR KIT PART NUMBER: 5.075

FLOW METER INSTALLATION DRAWING

3/4" x 1" x 4" BETWEEN FLANGE FLOW METER WITH RAISED FACE ENDS, PART NO. 5.0750BF4

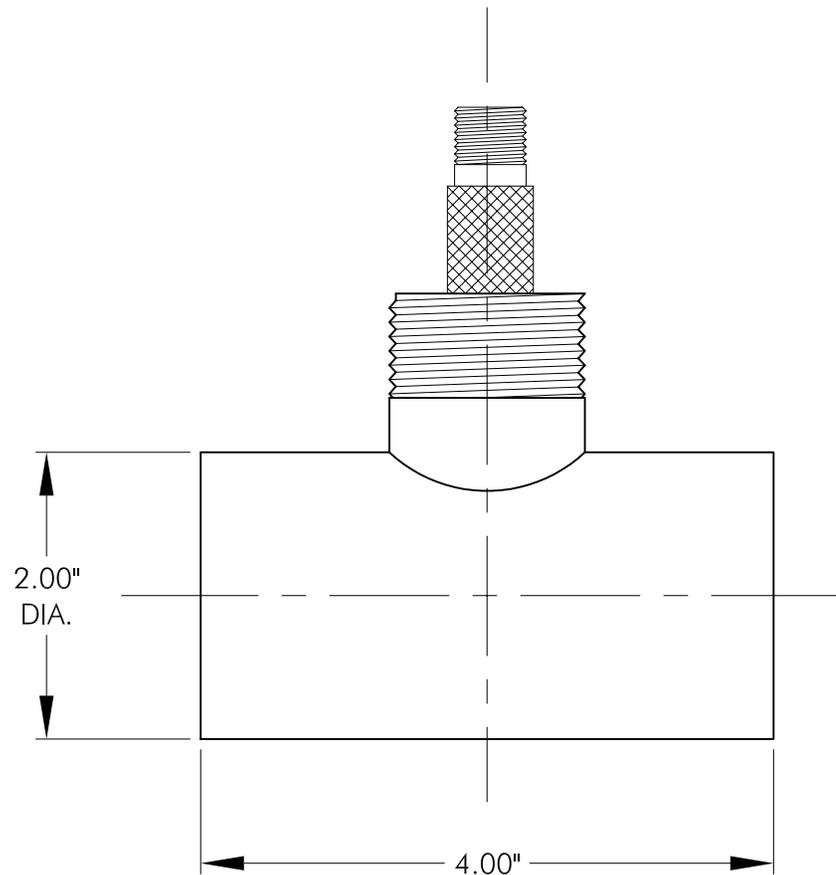
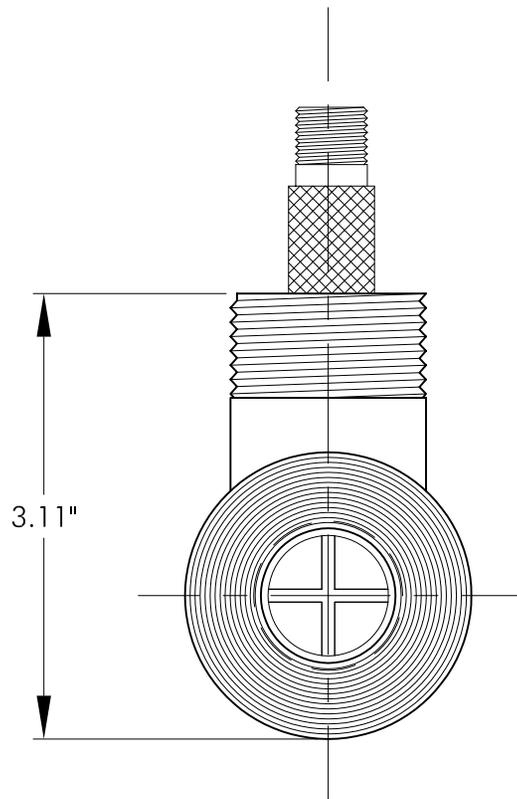
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 3-30 GPM

PRESSURE RATING: AS PER FLANGE RATING

NOTE:

7/8" TURBINE REPAIR KIT PART NUMBER: 5.087

FLOW METER INSTALLATION DRAWING

7/8" x 1" x 4" BETWEEN FLANGE FLOW METER WITH RAISED FACE ENDS, PART NO. 5.0875BF4

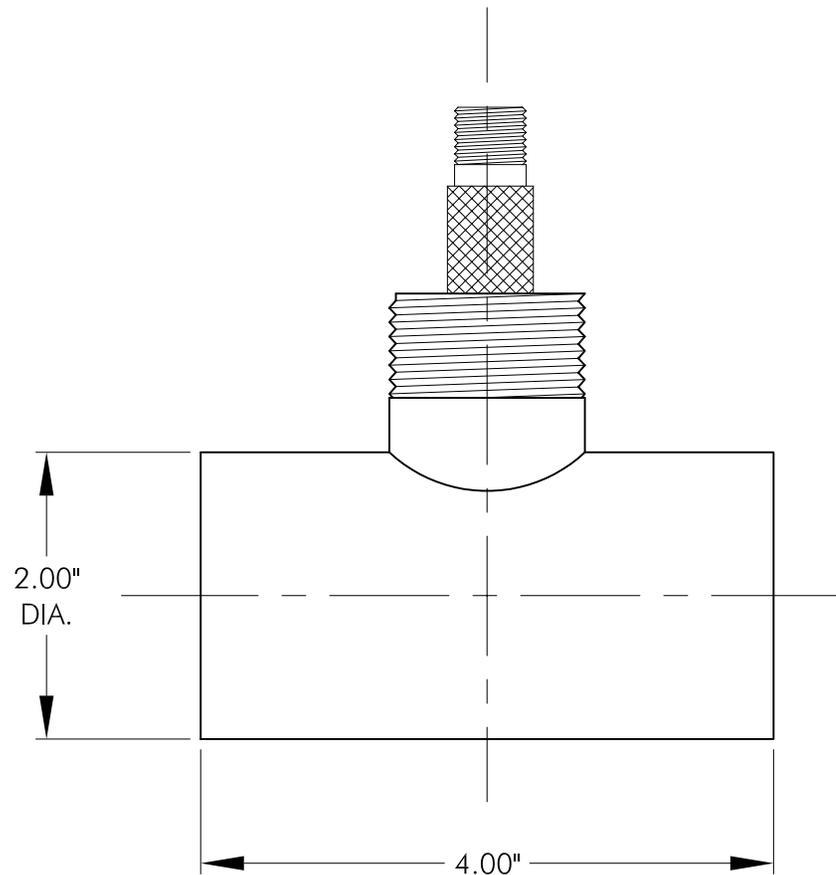
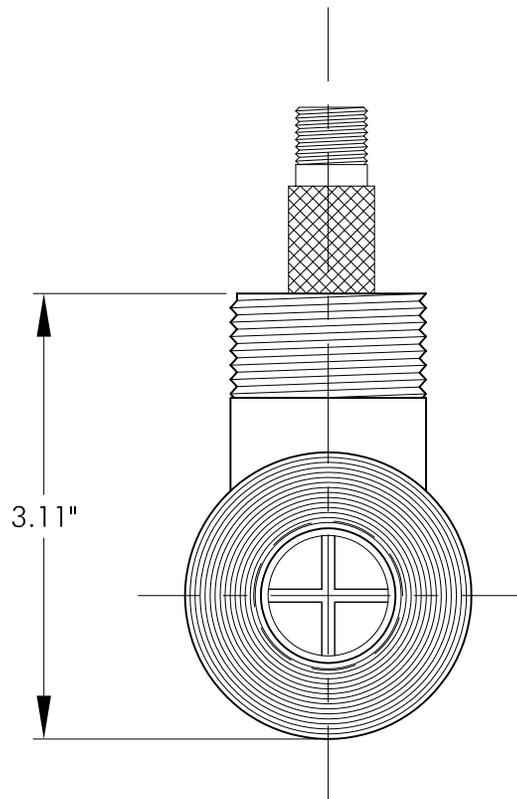
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 5-50 GPM

PRESSURE RATING: AS PER FLANGE RATING

NOTE:

1" TURBINE REPAIR KIT PART NUMBER: 5.100

FLOW METER INSTALLATION DRAWING

1" x 1" x 4" BETWEEN FLANGE TURBINE FLOW METER WITH RAISED FACE ENDS, PART NO. 5.1001BF4

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Electronic Data Devices

Turbine Flow Meters



Ring Joint Turbine Flow Meters

Electronic Data Devices offers a line of turbine flow meters that are available with ranges from 2 GPM to 400 GPM covering a wide range of measurement applications. Our turbine flow meters are manufactured to the highest quality standards. Some of the typical applications include: oilfield waterflood, production, well servicing, pipelines, mining, chemicals, food and beverage industry, and most other liquid applications.

Ring joint turbine flow meters are available in the following sizes: 3/4", 1", 1 1/2" and 2". Operating pressure is determined by the rating of the gasket and are available in either 1500 series or 2500 series ring joints.

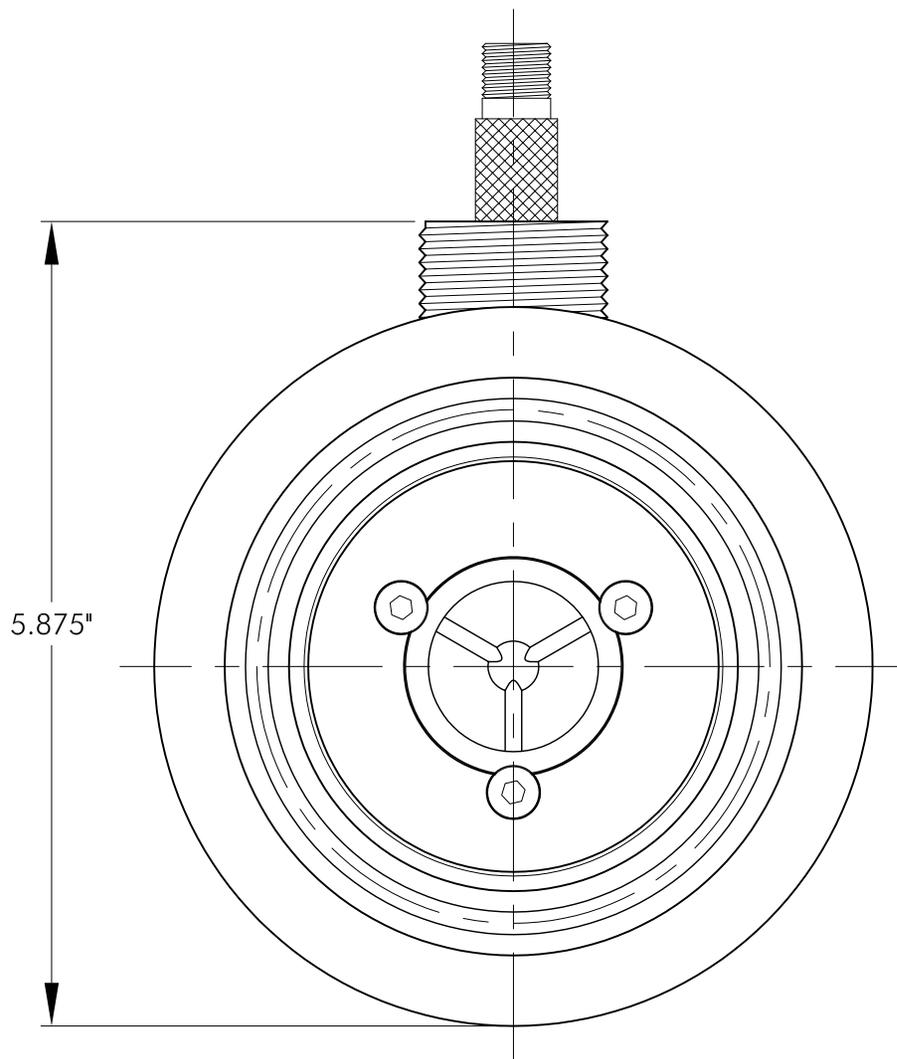
P.O. Box 12128
Odessa, Texas 79768
USA

• Phone
432-366-8699

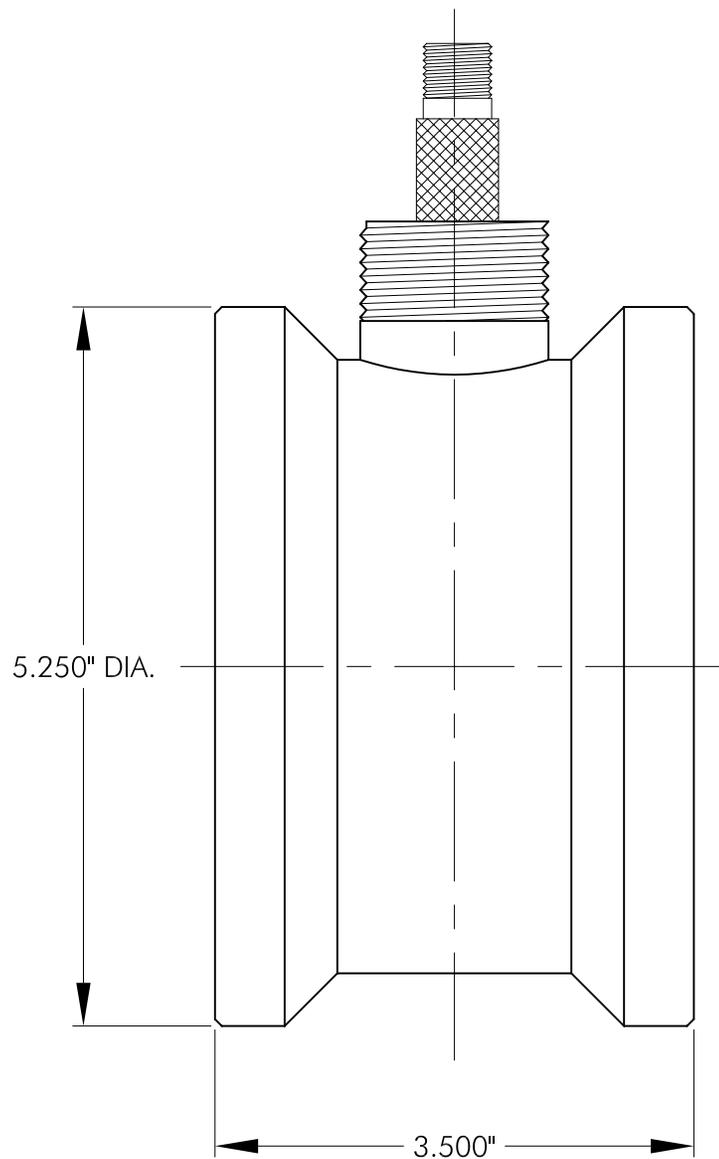
• Fax
432-366-1106

• Email
rkw@eddevices.com

• Website
www.eddevices.com



5.875"



5.250" DIA.

3.500"

NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 2-15 GPM

PRESSURE RATING: 1500 PSI

NOTE:

3/4" TURBINE REPAIR KIT PART NUMBER: 6.075

FLOW METER INSTALLATION DRAWING

3/4" x 2" RING JOINT FLOW METER , PART NO. 6.0750-1500#RJ

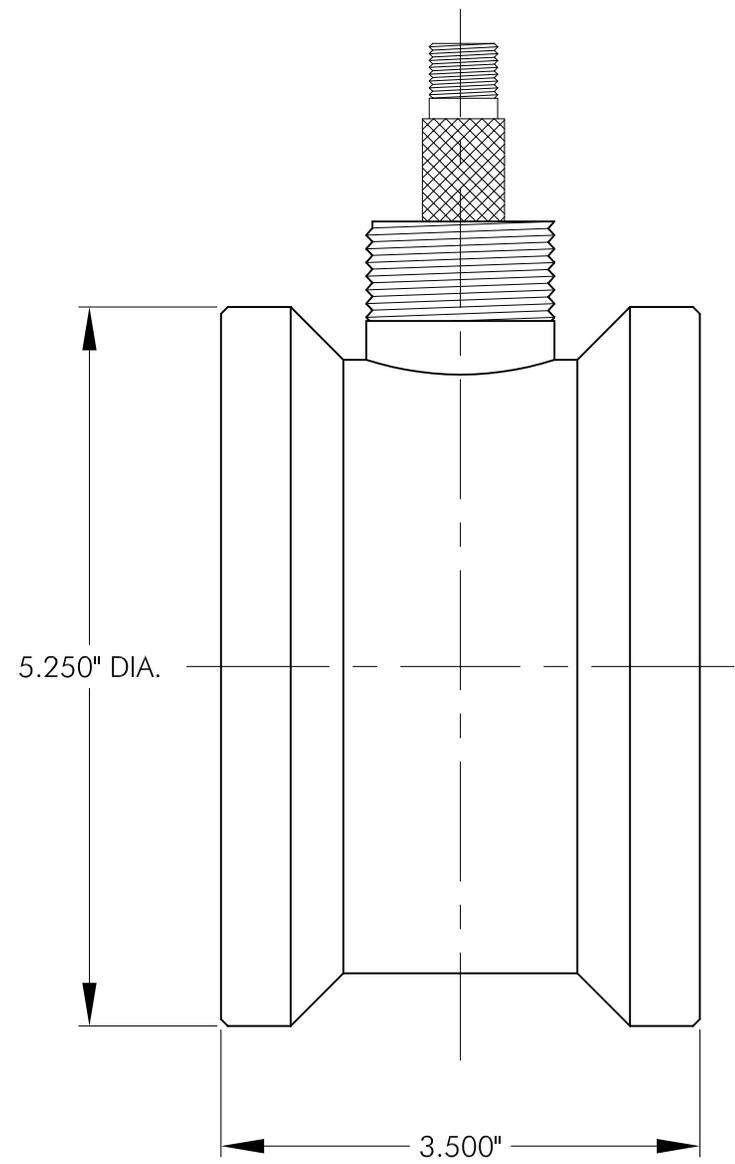
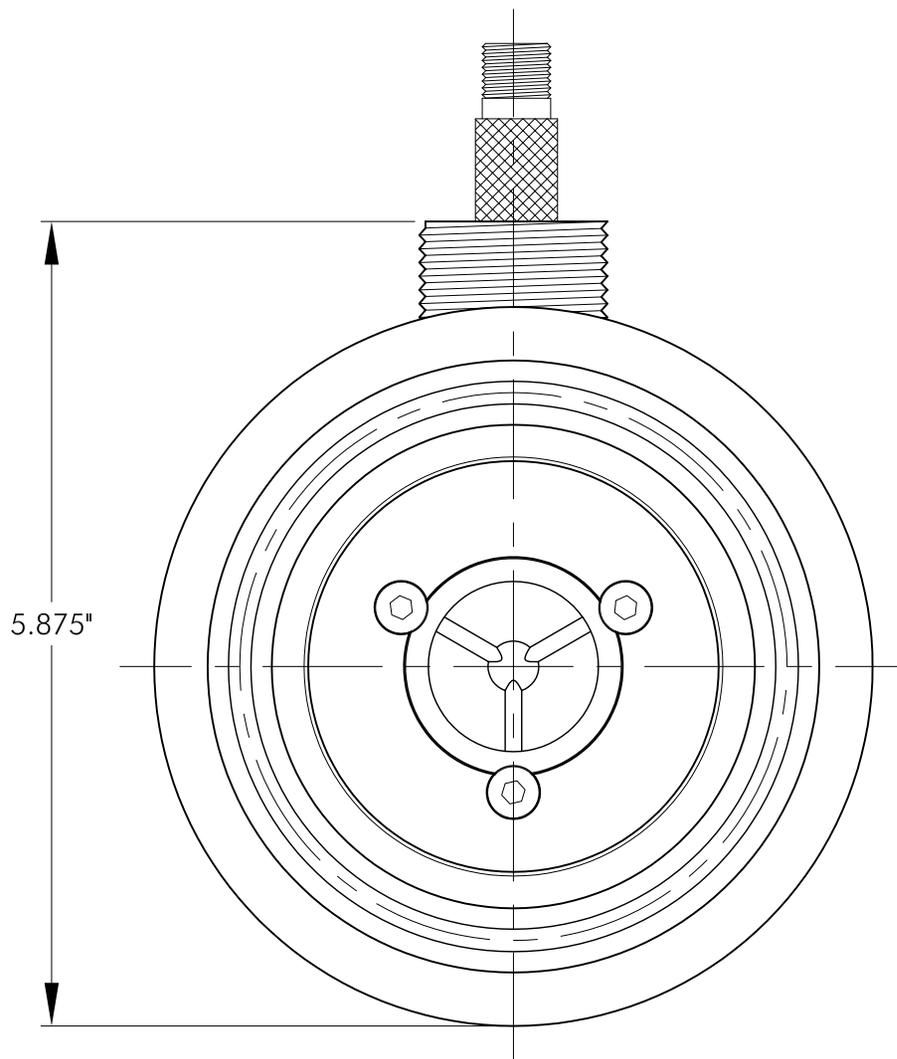
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NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:
 FLOW RATE: 2-15 GPM
 PRESSURE RATING: 2500 PSI

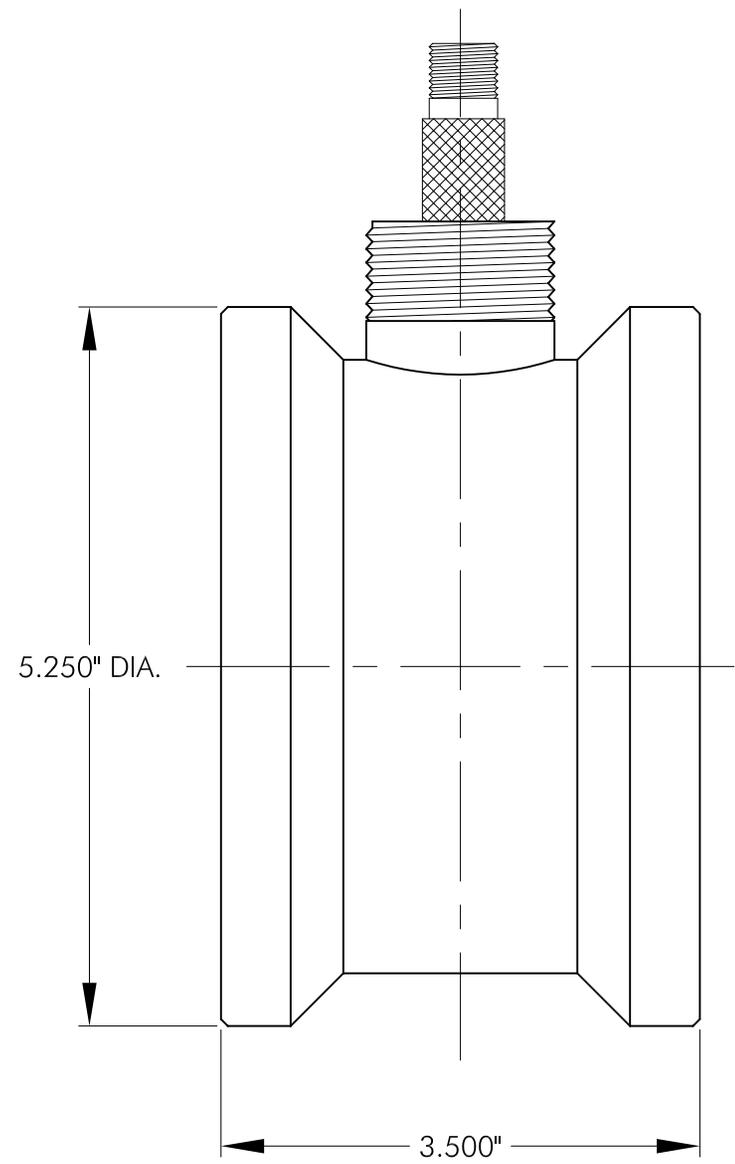
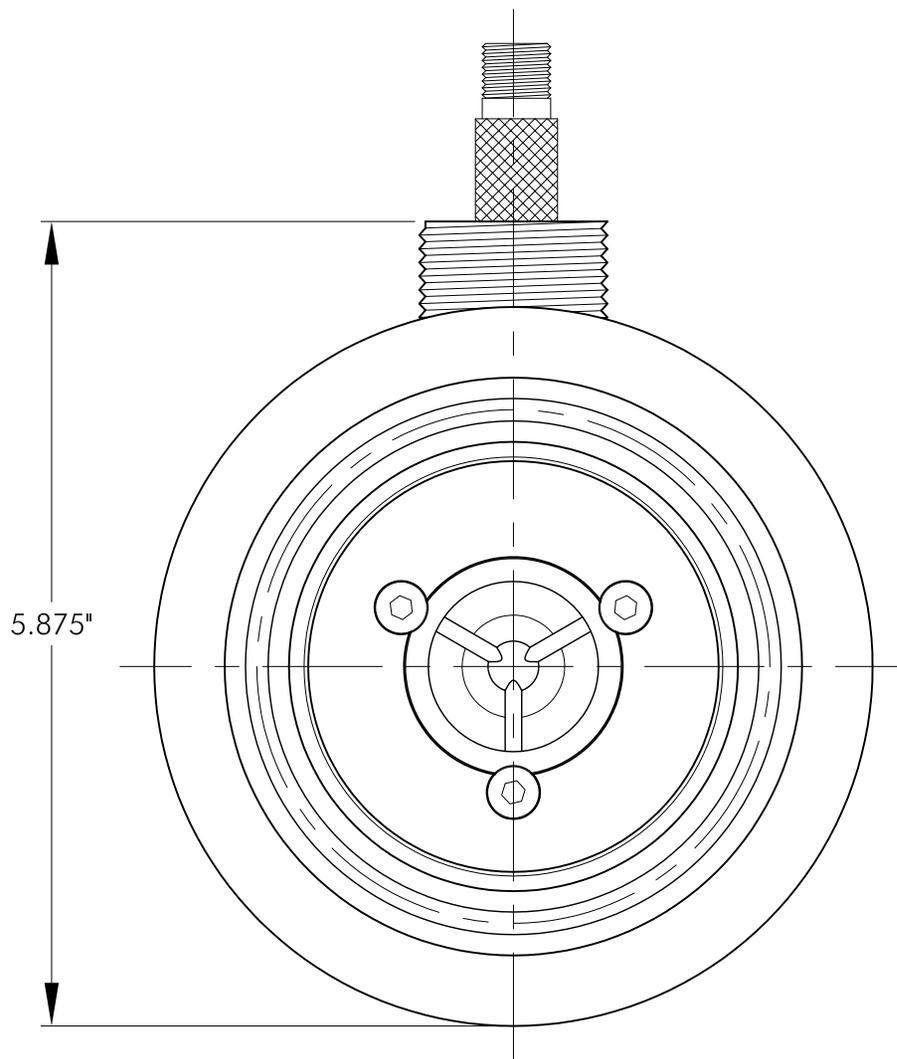
NOTE:
 3/4" TURBINE REPAIR KIT PART NUMBER: 6.075

FLOW METER INSTALLATION DRAWING

3/4" x 2" RING JOINT FLOW METER , PART NO. 6.0750-2500#RJ

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NOTE: DRAWING NOT TO SCALE

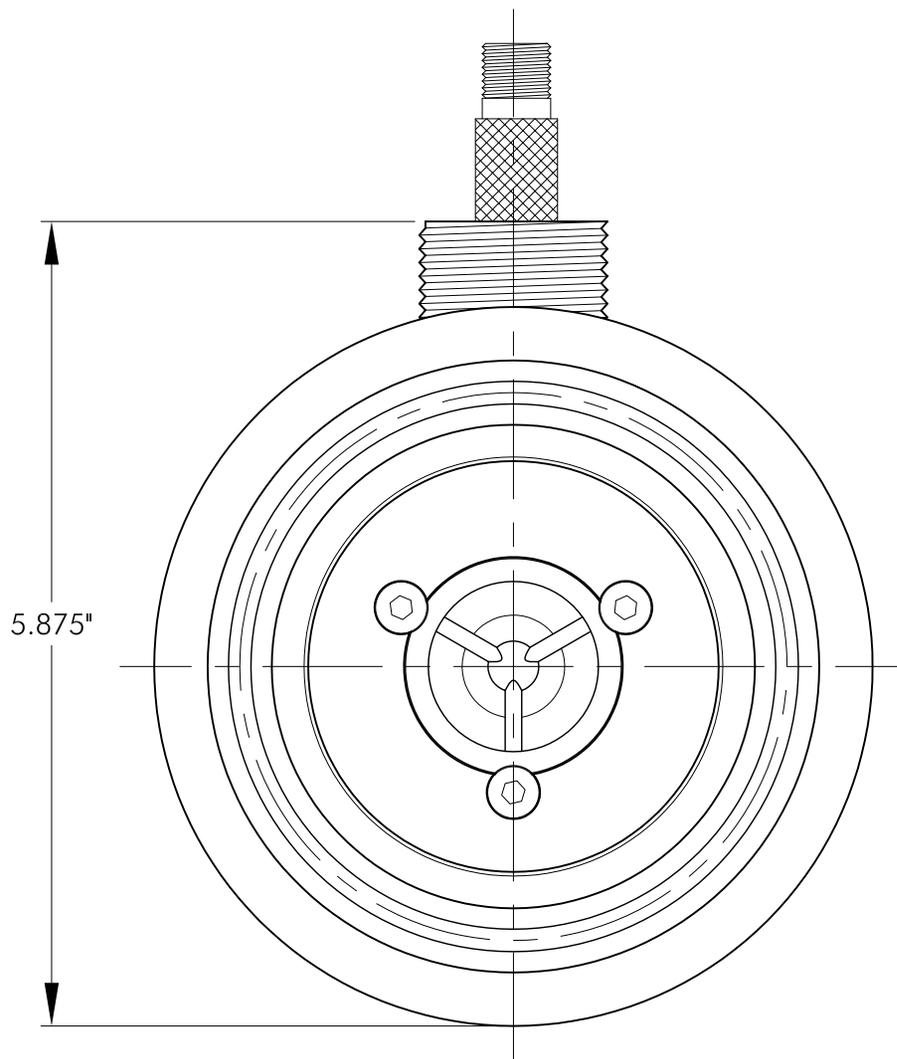
SPECIFICATIONS:
 FLOW RATE: 5-50 GPM
 PRESSURE RATING: 1500 PSI

NOTE:
 1" TURBINE REPAIR KIT PART NUMBER: 6.100

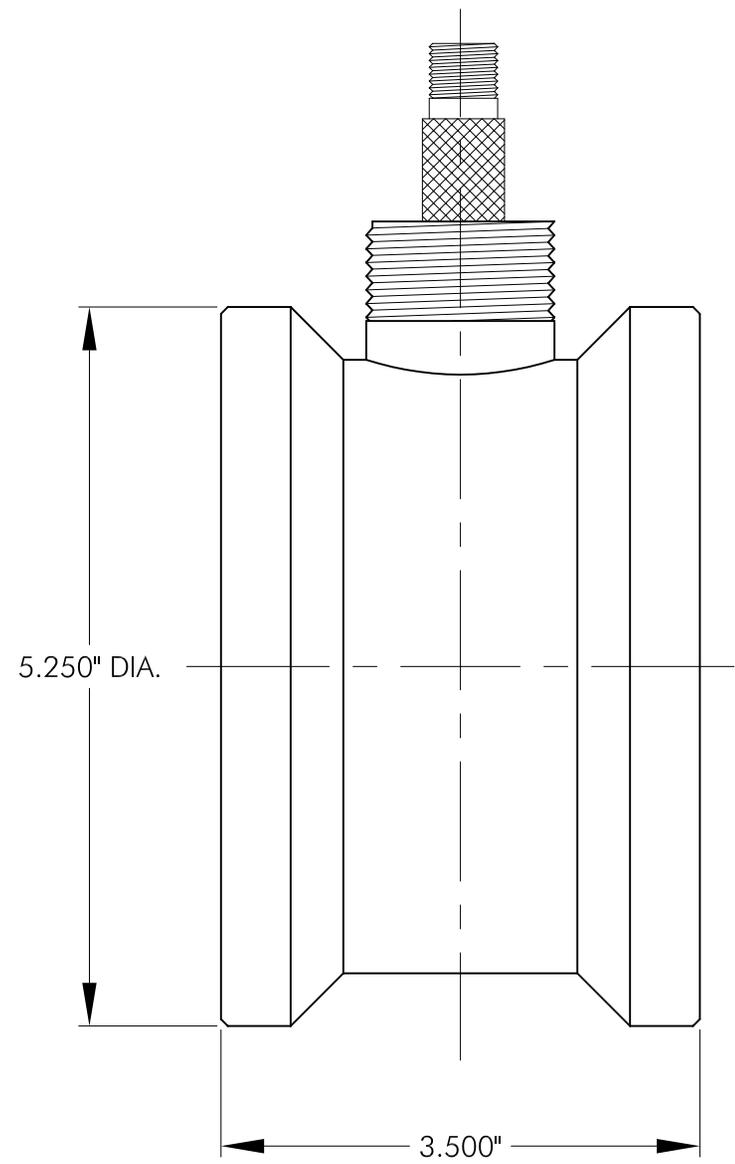
FLOW METER INSTALLATION DRAWING
 1" x 2" RING JOINT FLOW METER , PART NO. 6.1001-1500#RJ

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5.875"



5.250" DIA.

3.500"

NOTE: DRAWING NOT TO SCALE

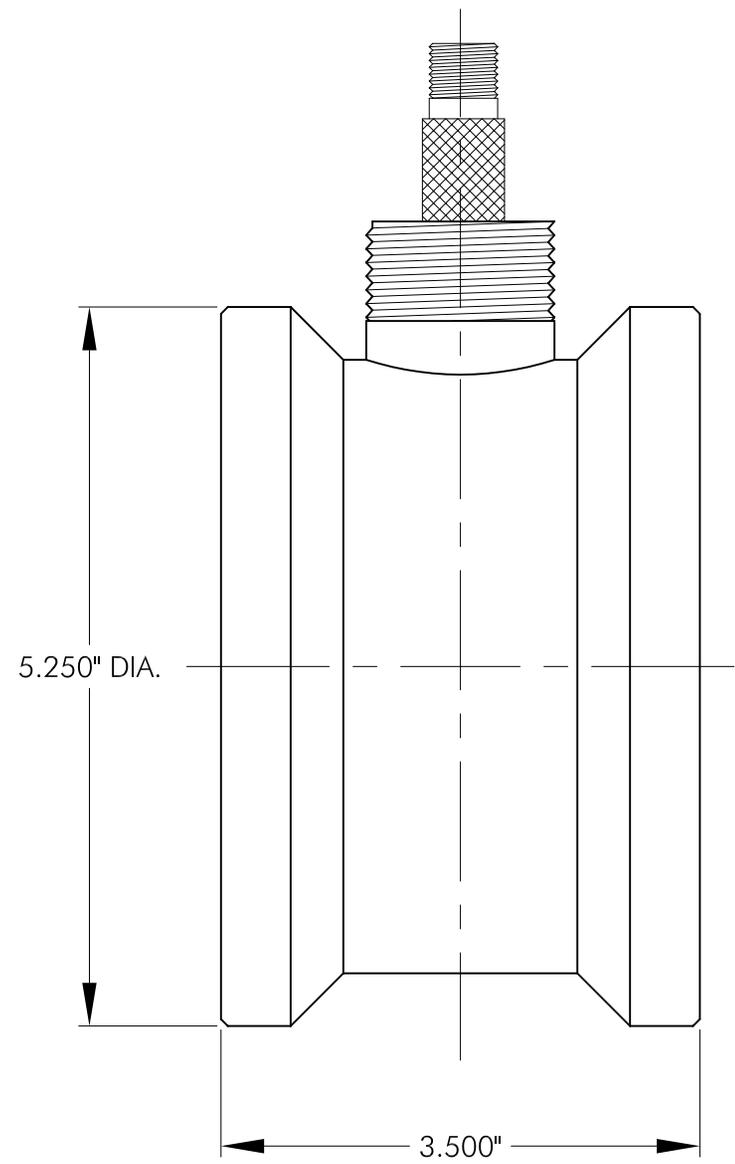
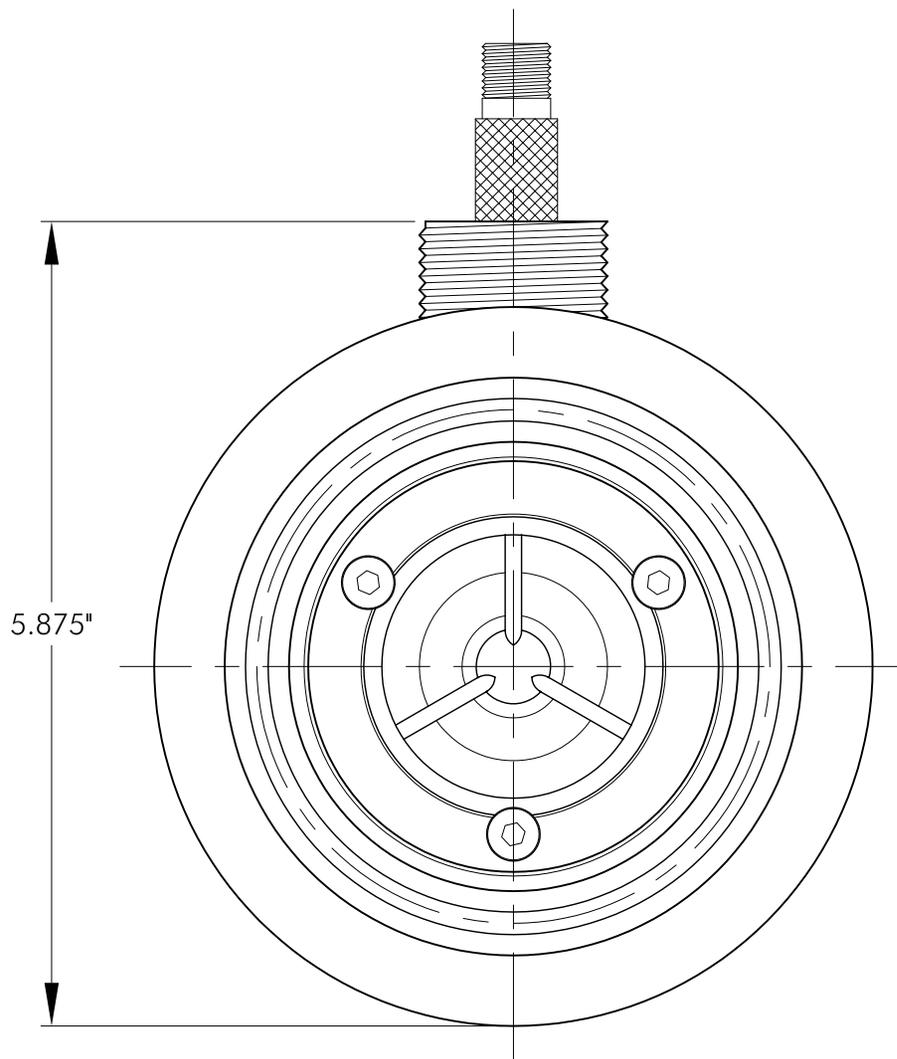
SPECIFICATIONS:
 FLOW RATE: 5-50 GPM
 PRESSURE RATING: 2500 PSI

NOTE:
 1" TURBINE REPAIR KIT PART NUMBER: 6.100

FLOW METER INSTALLATION DRAWING
 1" x 2" RING JOINT FLOW METER , PART NO. 6.1001-2500#RJ

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NOTE: DRAWING NOT TO SCALE

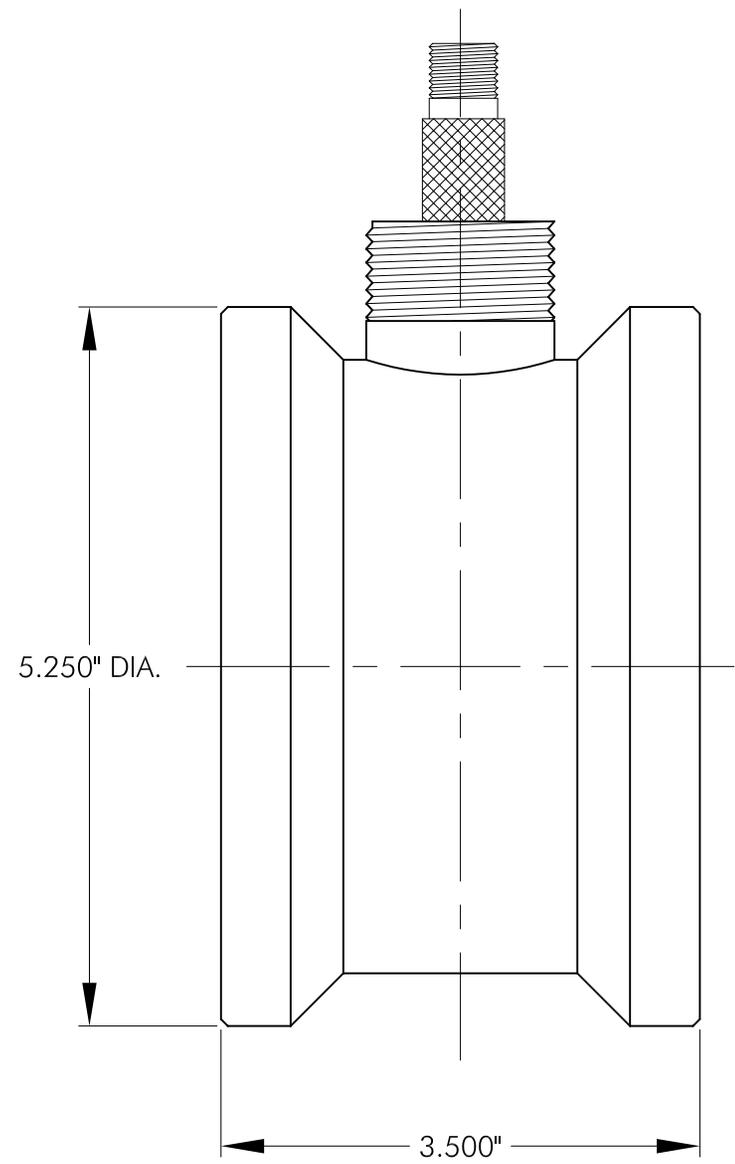
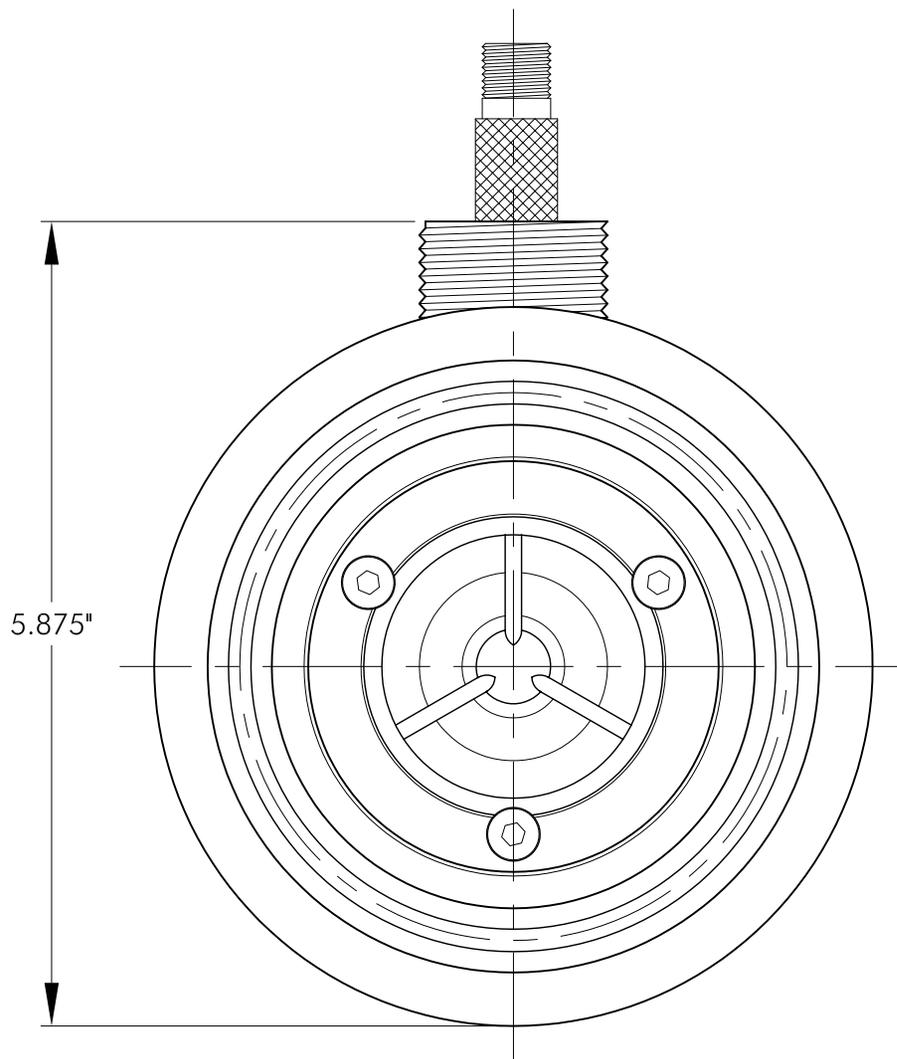
SPECIFICATIONS:
 FLOW RATE: 5-50 GPM
 PRESSURE RATING: 1500 PSI

NOTE:
 1" TURBINE REPAIR KIT PART NUMBER: 6.100

FLOW METER INSTALLATION DRAWING
 1" x 2" RING JOINT FLOW METER , PART NO. 6.1000-1500#RJ

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NOTE: DRAWING NOT TO SCALE

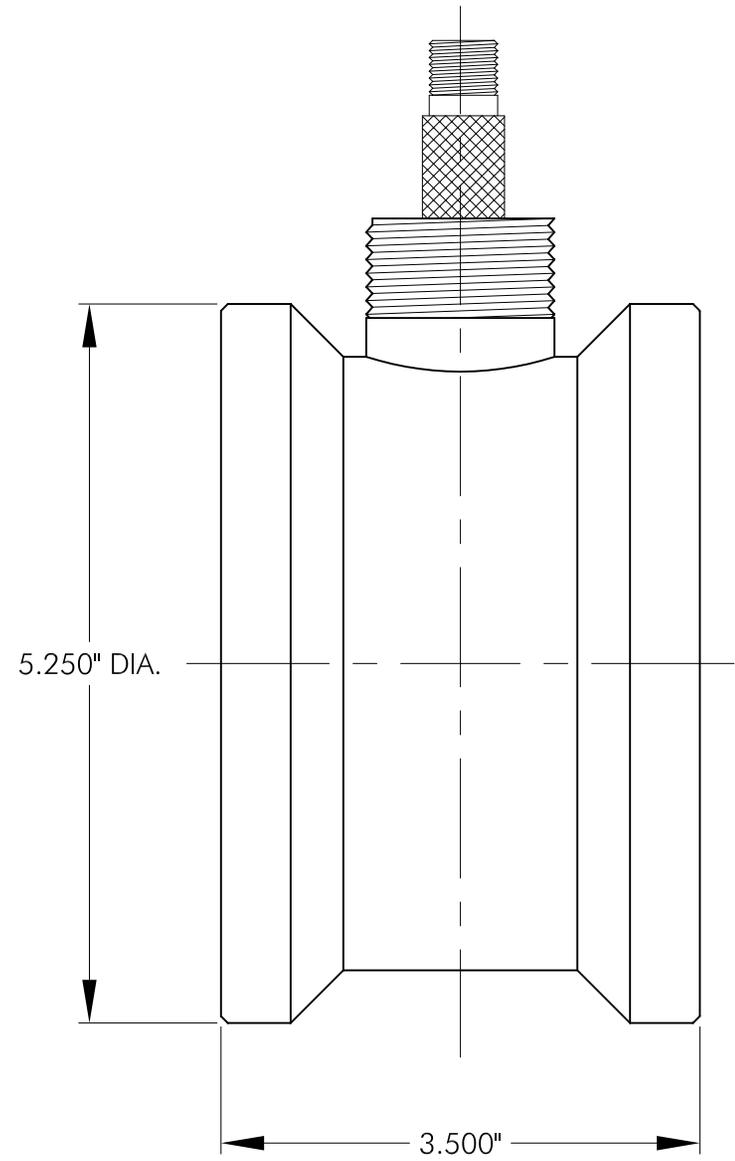
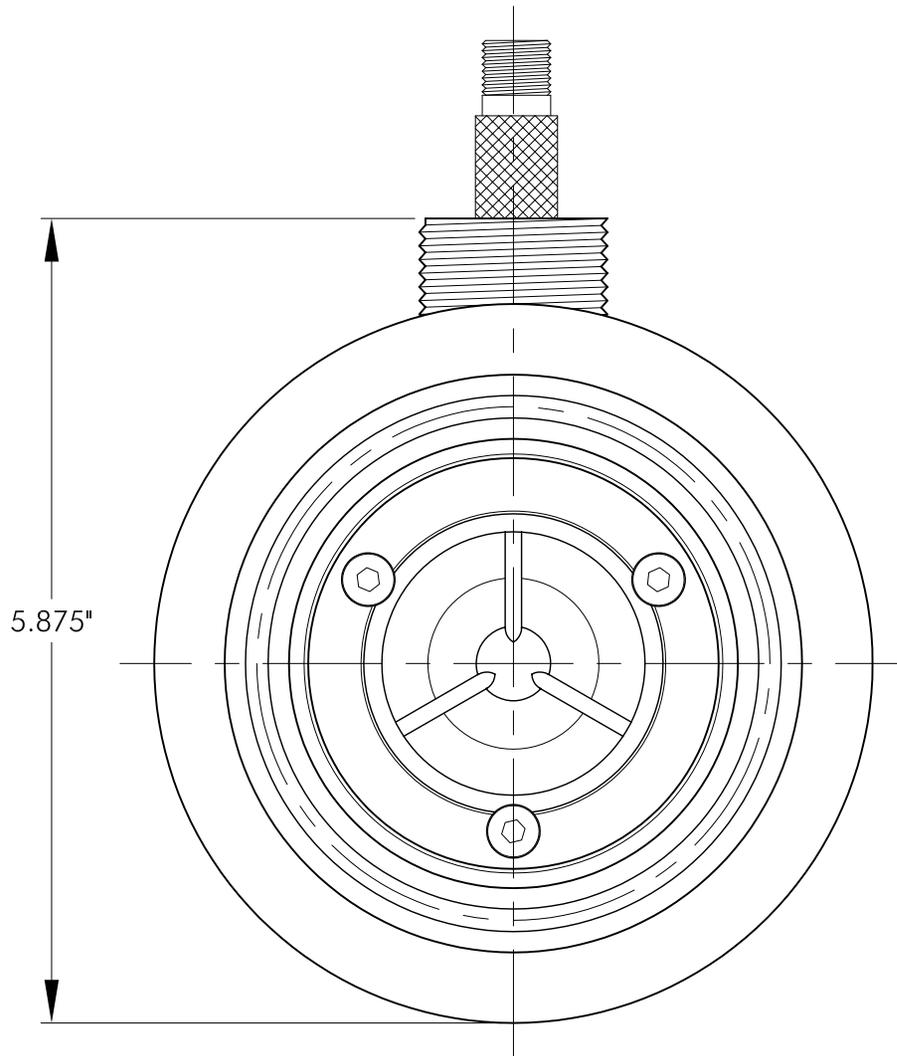
SPECIFICATIONS:
 FLOW RATE: 5-50 GPM
 PRESSURE RATING: 2500 PSI

NOTE:
 1" TURBINE REPAIR KIT PART NUMBER: 6.100

FLOW METER INSTALLATION DRAWING
 1" x 2" RING JOINT FLOW METER , PART NO. 6.1000-2500#RJ

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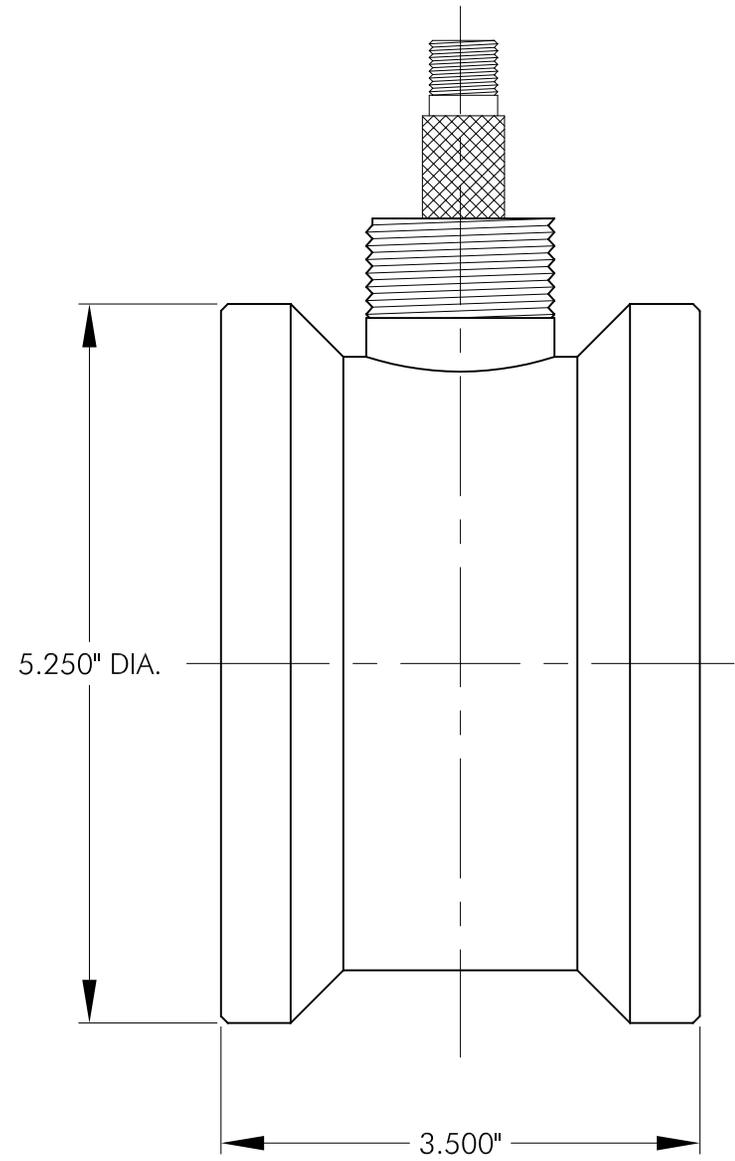
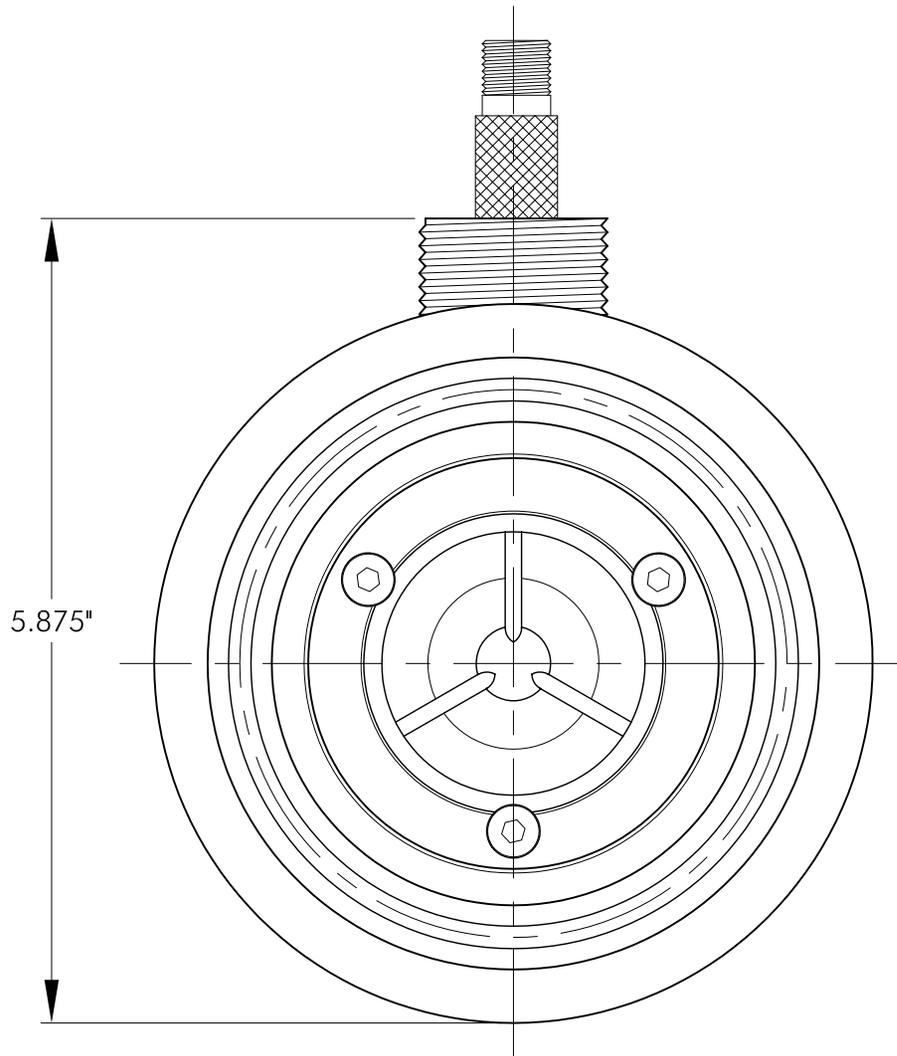
SPECIFICATIONS:
 FLOW RATE: 15-180 GPM
 PRESSURE RATING: 1500 PSI

NOTE:
 1.5" TURBINE REPAIR KIT PART NUMBER: 6.150

FLOW METER INSTALLATION DRAWING
 1.5" x 2" RING JOINT FLOW METER , PART NO. 6.1500-1500#RJ

P.O. Box 12128
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 E-mail: rkw@eddevices.com Website: www.eddevices.com





NOTE: DRAWING NOT TO SCALE

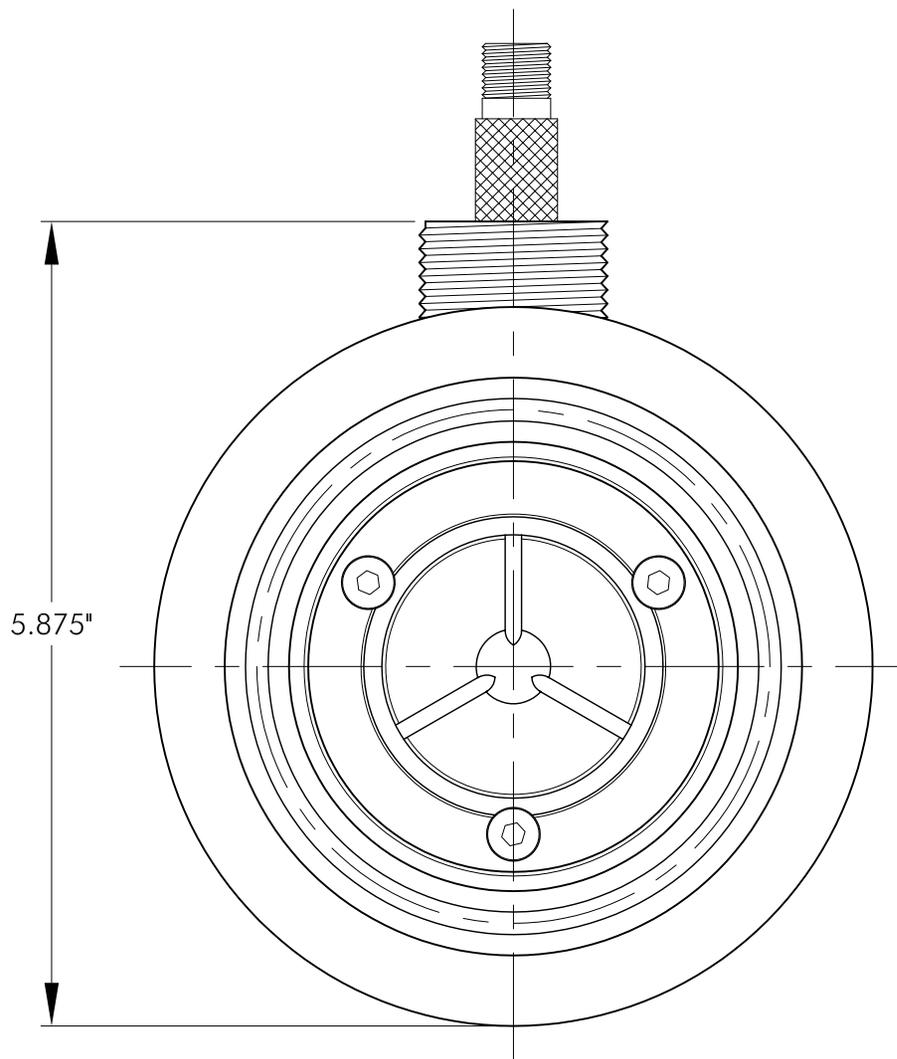
SPECIFICATIONS:
 FLOW RATE: 15-180 GPM
 PRESSURE RATING: 2500 PSI

NOTE:
 1.5" TURBINE REPAIR KIT PART NUMBER: 6.150

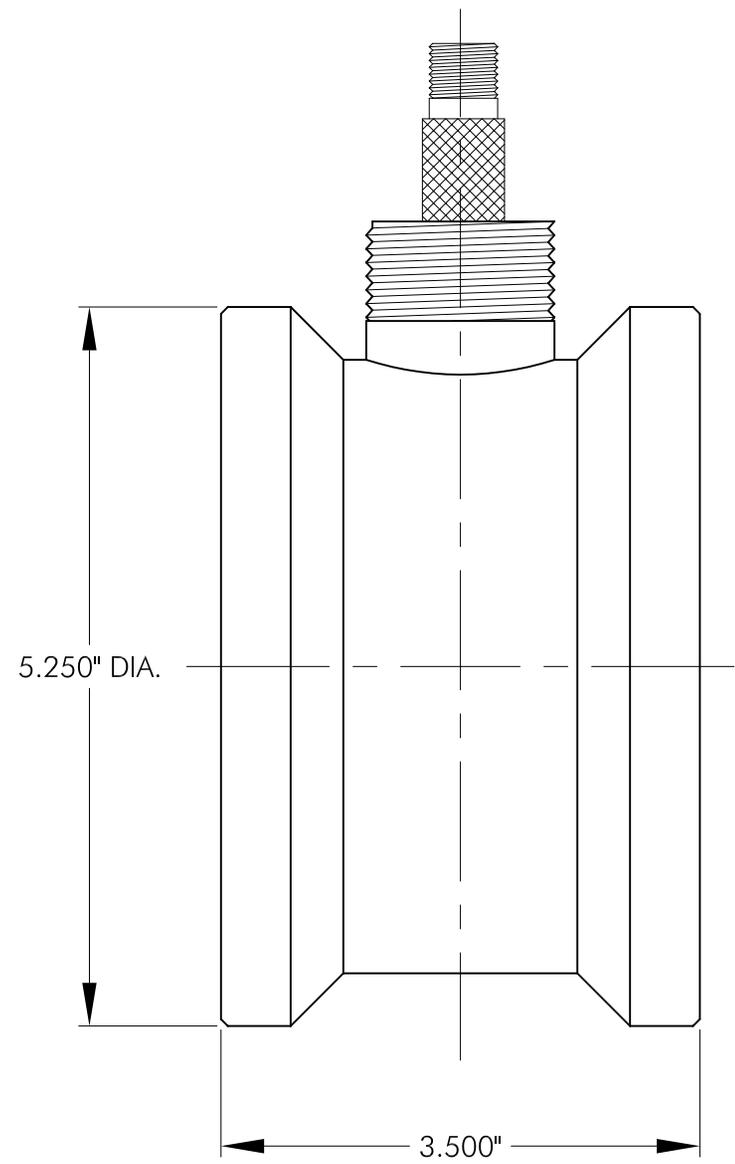
FLOW METER INSTALLATION DRAWING
 1.5" x 2" RING JOINT FLOW METER , PART NO. 6.1500-2500#RJ

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 E-mail: rkw@eddevices.com Website: www.eddevices.com





5.875"



5.250" DIA.

3.500"

NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 40-400 GPM

PRESSURE RATING: 1500 PSI

NOTE:

2" TURBINE REPAIR KIT PART NUMBER: 6.250

FLOW METER INSTALLATION DRAWING

2" x 2" RING JOINT FLOW METER , PART NO. 6.2000-1500#RJ

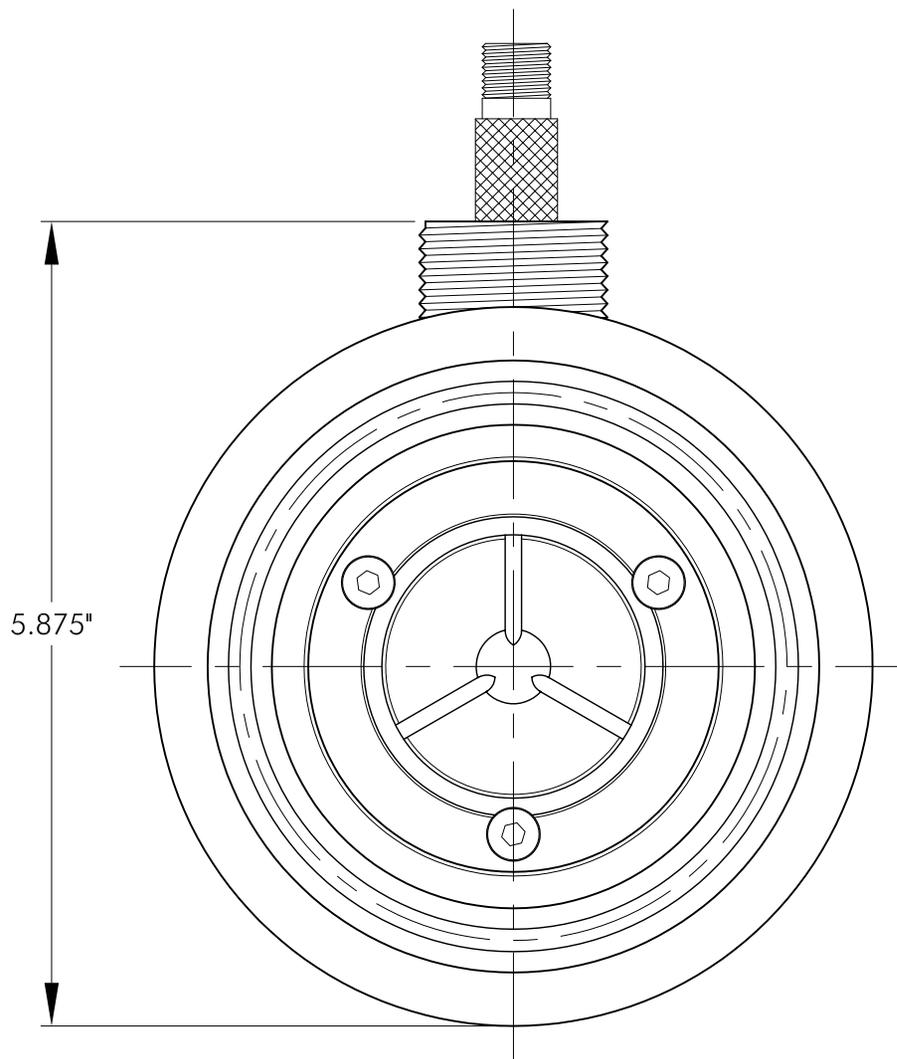
P.O. Box 12128

Odessa, TX 79768

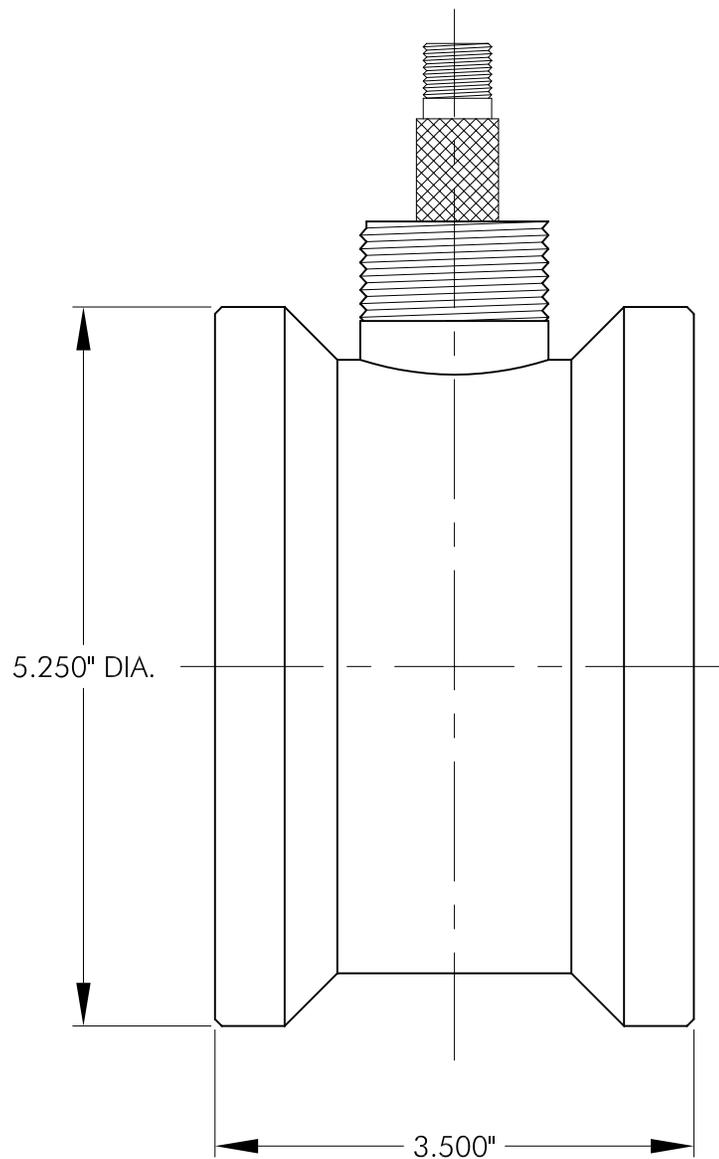
Phone: 432-366-8699 Fax: 432-366-1106

E-mail: rkw@eddevices.com Website: www.eddevices.com





5.875"



5.250" DIA.

3.500"

NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:

FLOW RATE: 40-400 GPM

PRESSURE RATING: 2500 PSI

NOTE:

2" TURBINE REPAIR KIT PART NUMBER: 6.250

FLOW METER INSTALLATION DRAWING

2" x 2" RING JOINT FLOW METER , PART NO. 6.2000-2500#RJ

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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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Electronic Data Devices

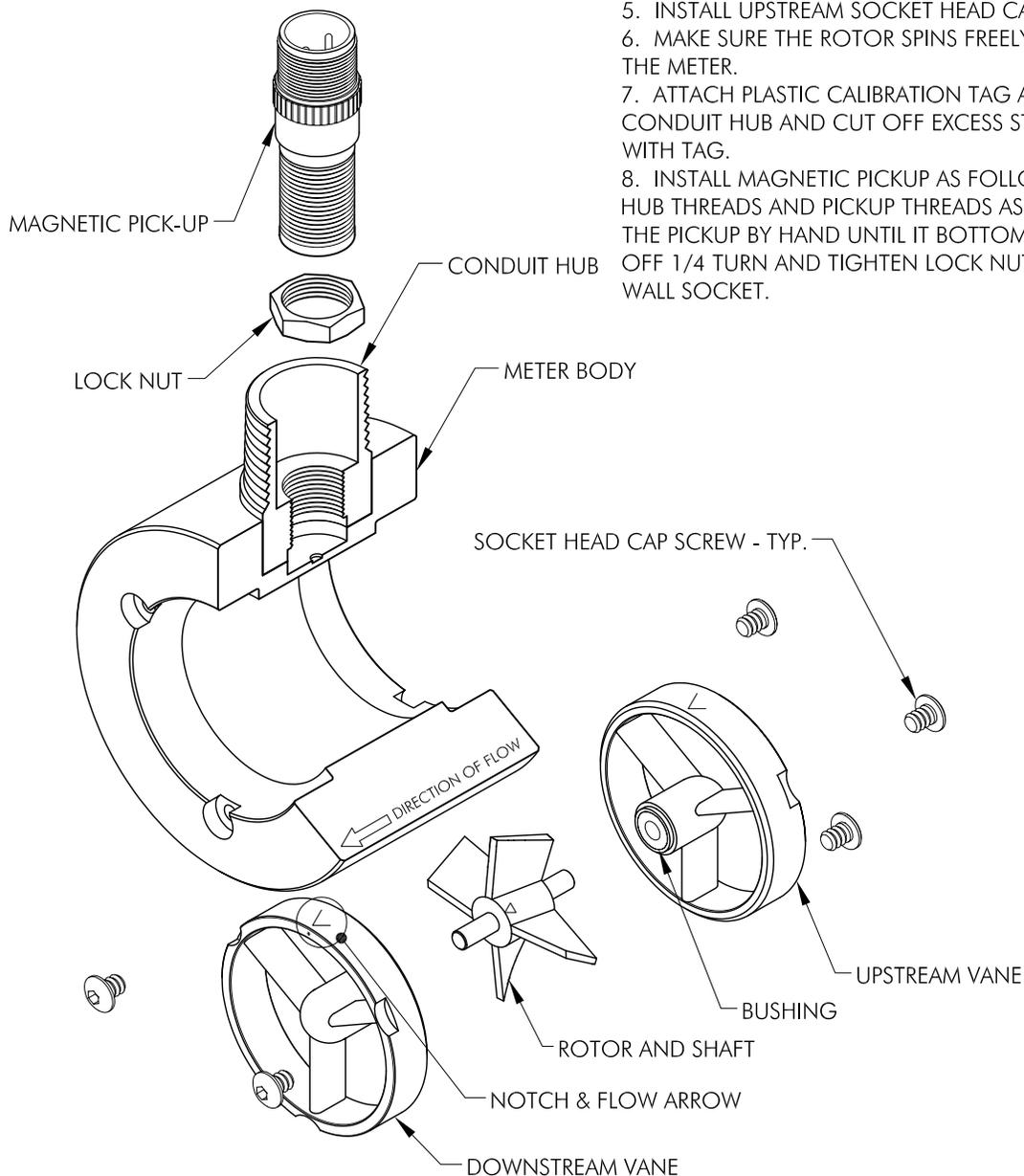
Between Flange & Ring Joint Repair Kit Installation Instructions

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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Electronic Data Devices

Turbine Flow Meters

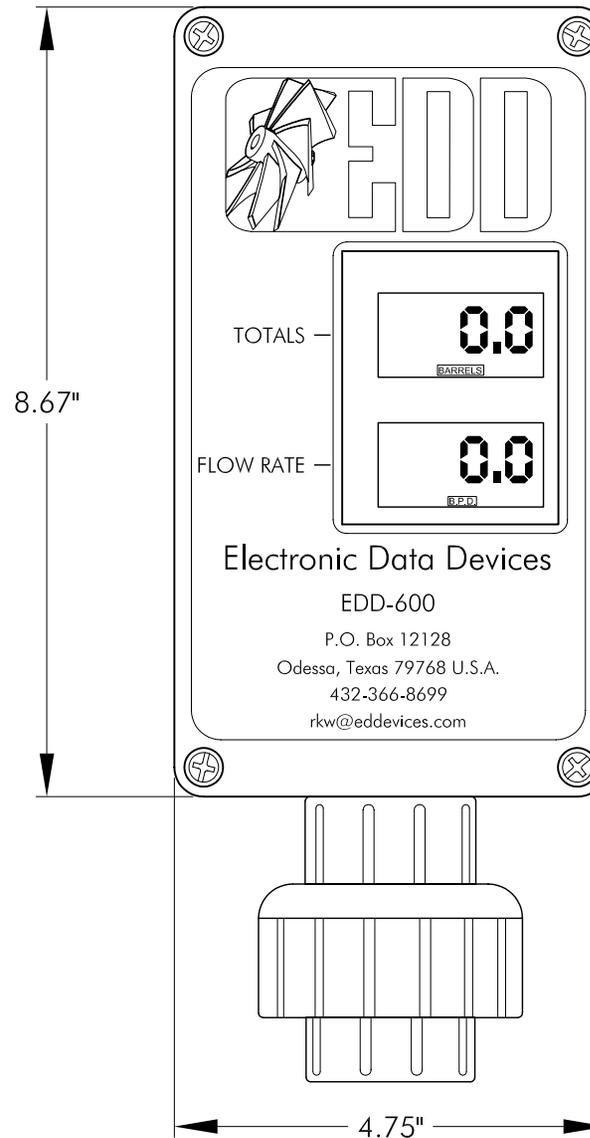
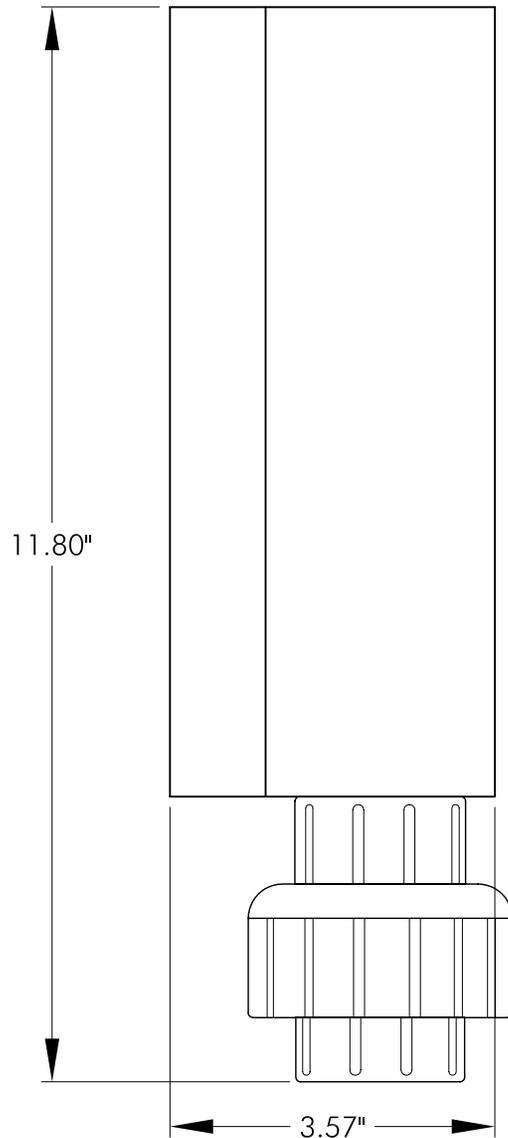


EDD-600 Totalizer

Electronic Data Devices' EDD-600 is a self-contained totalizer and flow rate indicator designed to mount directly on the turbine flow meter or remotely mounted with optional hardware. By using state of the art low power CMOS intergrated circuits and liquid crystal displays, long battery life is attained.

SPECIFICATIONS

Power	4 C Batteries	Battery Life	2 - 4 Years
Flow Rate	Digital 6 Digit	Flow Rate Units	Specified by customer
Totalizer	Digital 6 Digit	Totalizer Units	Specified by customer
Totalizer Reset	With optional switch	Divisor Capability	From 1 - 131071
Accuracy	± 1 Count	Mounting	Directly on meter
Temperature Range	-20° to 155° F	Housing	Polyester Weatherproof
Input Frequency	0 - 2500 Hz	Input Amplitude	20 - 5000 mVpp



NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:
 ACCURACY: ± 1 COUNT
 TEMPERATURE RATING: -20° F - $+150^{\circ}$ F

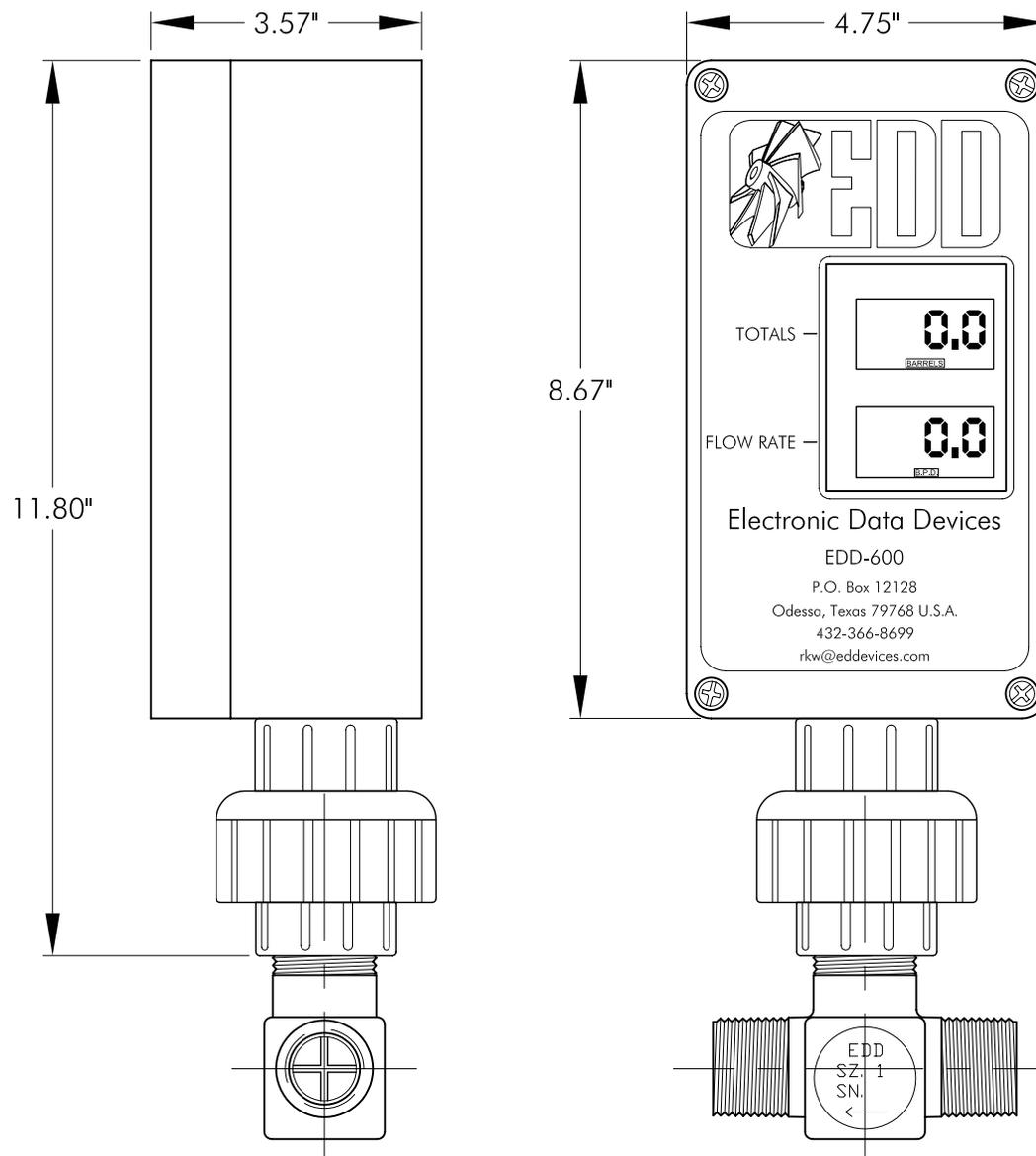
NOTE:

TOTALIZER INSTALLATION DRAWING

EDD-600, PART NO.9.600

P.O. Box 12128
 Odessa, TX 79768
 Phone: 432-366-8699 Fax: 432-366-1106
 E-mail: rkw@eddevices.com Website: www.eddevices.com





NOTE: DRAWING NOT TO SCALE

SPECIFICATIONS:
 ACCURACY: ± 1 COUNT
 TEMPERATURE RATING: -20° F - $+150^{\circ}$ F

NOTE:

TOTALIZER INSTALLATION DRAWING

EDD-600, PART NO.9.600

P.O. Box 12128
 Odessa, TX 79768

Phone: 432-366-8699 Fax: 432-366-1106

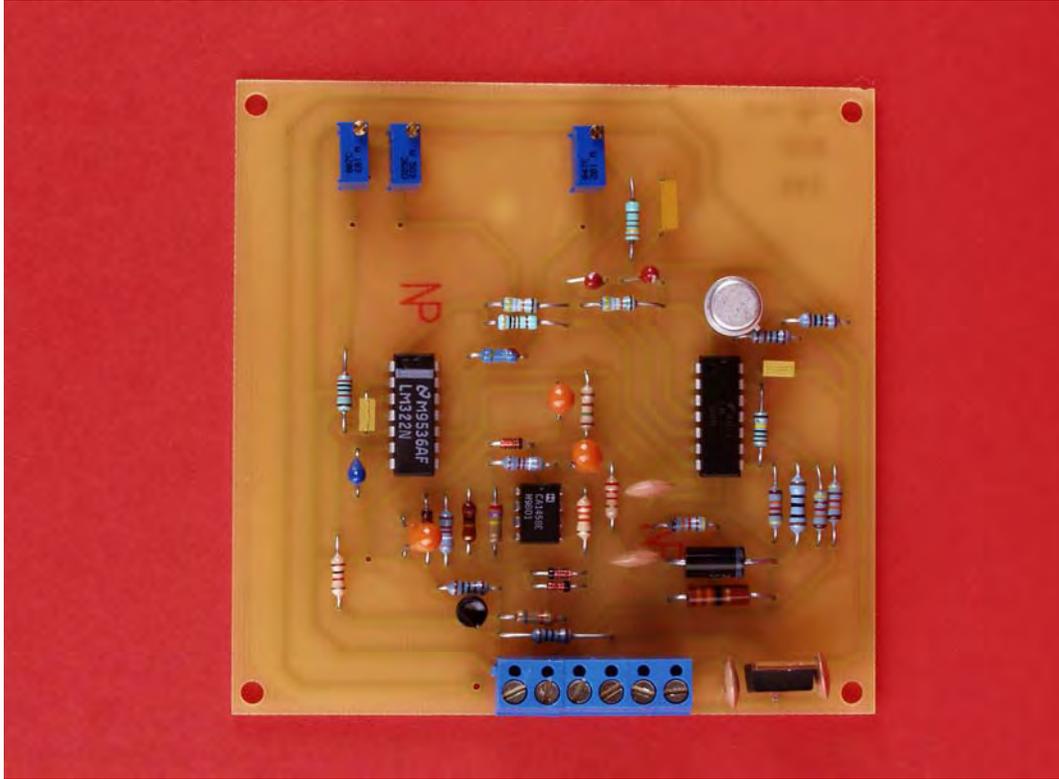
E-mail: rkw@eddevices.com Website: www.eddevices.com





Electronic Data Devices

Turbine Flow Meters



EDD-340 4-20 mA Converter

The EDD-340 circuit card will accept signal inputs from turbine flow meters or any pulsing device with acceptable wave forms and signal levels. The card has a 4 - 20 mA output. The card is 4" x 4" and mounts via 4 standoffs and screws to a backplate. Hookup is via 7 wire compression terminals. The card may be calibrated to any customer specified full scale output.

Power	24 Vdc or Optional 12 Vdc
Current Pull	50 mA Maximum
Input Frequency	0 - 2500 Hz
Input Amplitude	30 mV - 30 V peak to peak
Accuracy	± 1 Percent
Output	4 - 20 mA into a 250 Ohm Load

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USA

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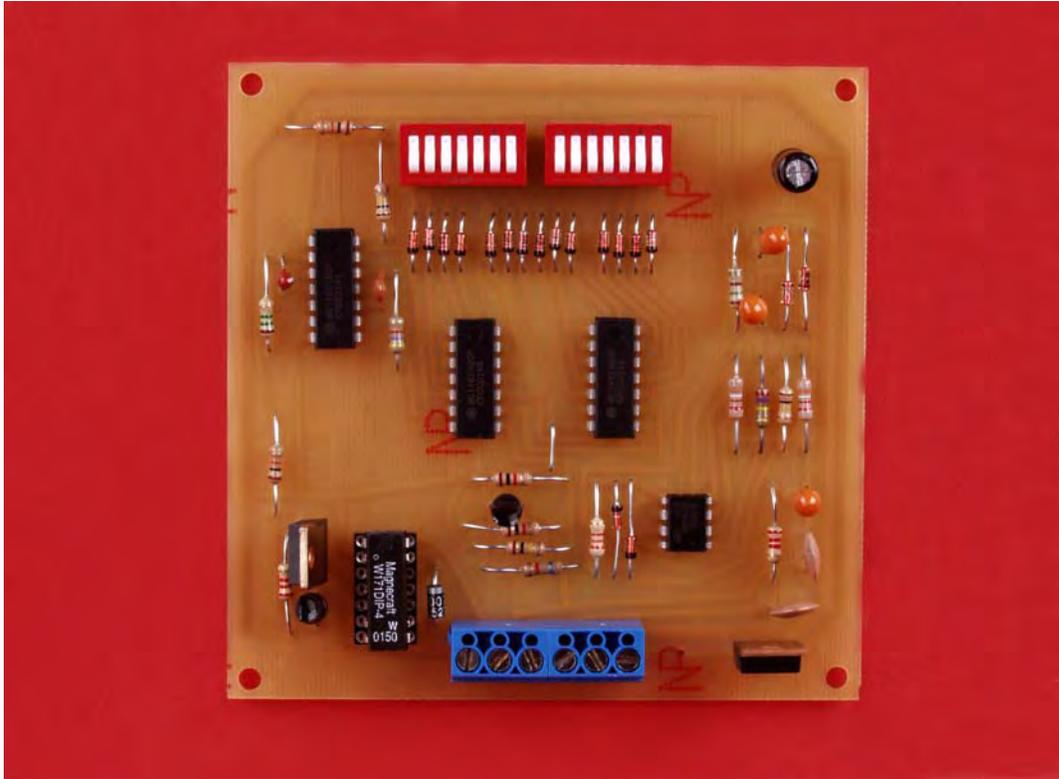
• Email rkw@eddevices.com

• Website www.eddevices.com



Electronic Data Devices

Turbine Flow Meters



EDD-530 Pulse Output Card

The EDD-530 card will accept signal inputs from turbine flow meters or any pulsing device with acceptable wave forms and signal levels. The output is a dry contact closure or an optional voltage output. The card is 4" x 4" and mounts via 4 standoffs and screws to a backplate. Hookup is via 6 wire compression terminals. The card may be calibrated in any customer specified engineering units up to a maximum divisor of 16383.

Power	12 or 24 Vdc (must spec.)	
Divisor Capability	1—16383	
Pulse Output Units	Specified by customer	
Accuracy	± 1 Count	
Temperature Range	-20° F - 140° F	
Input Frequency	0 - 2500 Hz	
Input Amplitude	30 mV - 30 V peak to peak	
Pulse Output Duration	150 ms or customer specified	Note: Circuit Current Pull 12 Vdc - 30mA 24 Vdc - 35 mA
Voltage Output Option	Discuss with Factory	

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PRODUCT DESCRIPTION

EDD's mag-preamps are designed to convert low level sinusoidal signals into stable square wave pulses. They can be used with all magnetic VR type pickups, allowing for greater pickup to target gaps and longer signal transmission distance. The pucks are built to fit compact "ELBY" and "Y" type explosion-proof enclosures, refer to bulletin 4001.

For Intrinsically Safe certified see brochure: IS4022, 29

* MICROPOWER versions are available in the ___ and ___ models for ultra low current draw, ideal for battery applications.

SPECIFICATIONS

Vs, Supply Voltage: 7.5 (12)to 30 Vdc regulated
 3.6 Vdc min., unregulated
 * MICROPOWER: 2 to 6 Vdc

Is, Supply Current: ≤ 2 mA @ 5 Vdc
 ≤ 4 mA @ 12 Vdc
 ≤ 10 mA @ 24 Vdc
 ≤ 20 mA @ 30 Vdc (OC)
 * MICROPOWER: ≤ 0.06 mA
 ≤ 5 mA (Current Loop, 4029)

Vo, Signal Out: 0 - 10 V NPN
 @ £ 20mA sink 0 - 5 V NPN
 0 - Vs NPN
 0 - Vs, NPN, OC, (Open Collector)
 0 - Vs, PNP, OC, 50 mA Sourcing

___ only: 4 to 20 mA current sink:
 ± 2 mA, 4 to 40 V supply, see page 2 for wiring diagram & R Load spec.

Input Sensitivity: 30, 12 or 5 mVpp
 * MICROPOWER: 12 to 40 mV

Frequency Range: 3 Hz to 10 kHz at specified sensitivity
 ≤ 40 kHz at increased signal level, varies with target size, distance and pickup sensitivity. (Option: ≤ 100 kHz)
 * MICROPOWER: ≤ 1 Hz to 30 kHz

Rise/Fall Time (N.L.): 04 / .18 μs (Nom.)

Distance: 500 ft. max. pickup to preamp
 Temperature Range: -40° to 221 °F (-40° to 105 °C)

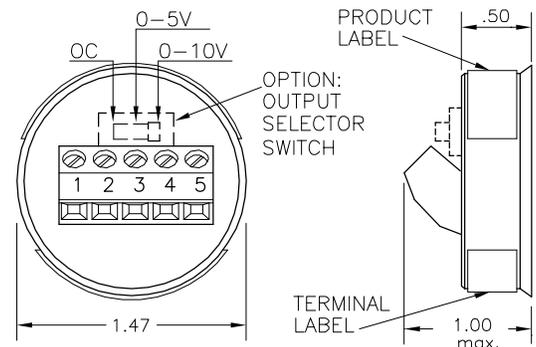
Compliance: CE: EN55011, EN50022-2

TERMINAL/PIN CONNECTIONS

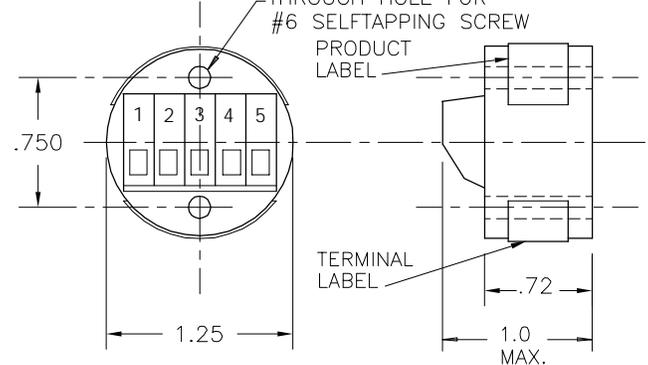
- ___ & ___:** 1. Input Vdc 4. Mag Pickup
 2. Common 5. Mag Pickup
 3. Pulse out (+)
- on ___:** 6. Pulse out (-)
- ___:** MS3106A-10SL-3S A: Input Vdc
 B: Common
 C: Pulse out

OPTIONS: Please contact sales.
 For junction boxes & adapters see spec. 4001
 For connector cable assemblies, please see spec. 3000

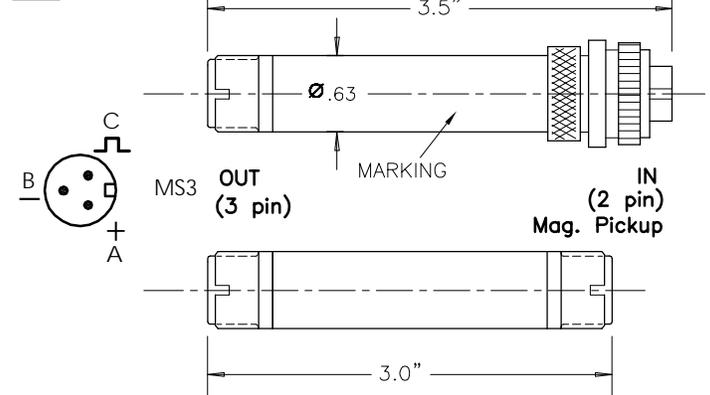
___ PUCK (for ELBY 1/2, 3/4 - Y2)



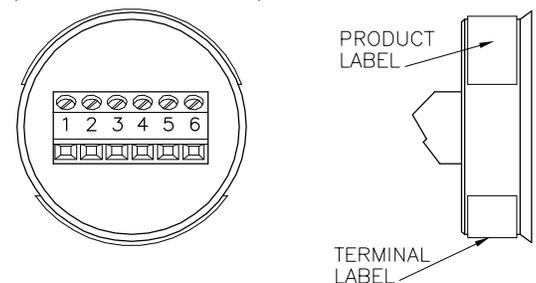
___ PUCK (for Y1)



___ TUBULAR



___ PUCK (for ELBY 1/2, 3/4 - Y2)
 Digital Opto-Isolated Current Loop



ORDER INFORMATION

_____ -	x	x	MAG PREAMP, PUCK ELBY TYPE
Output Signal			
		1	0 - 10V
		2	0 - 5V (TTL Compatible)
		5	Selectable (OC; 0-5V: 0-10V)
		6	0 - Vs, PNP, OC, 50mA (100 mA max) Sourcing
Input Sensitivity	0		30 mVpp
	1		12 mVpp

Junction Box for _____
90010-01 Y1 (1/2-14 NPT)

Junction Box for _____ & _____
90012-01 ELBY (1/2-14 NPT)

Other Junction Boxes and adapter hardware,
 Explosion proof UL & CSA certified, see spec. 4001

_____ -	x	x	MAG. PREAMP, PUCK Y1 TYPE
_____ -	x	x	MAG. PREAMP, TUBULAR IN-LINE TYPE
			Male Threaded & Female Threaded Connectors
_____ M -	x	x	MAG. PREAMP, TUBULAR IN-LINE TYPE
			Male Threaded Connectors, both ends
Output Signal	1		0 - 10V, NPN
	2		0 - 5V, NPN
	3		0 - Vs, NPN *
	4		0 - Vs, OC, NPN (Open Collector) *
Input Sensitivity	0		30 mVpp
	1		12 mVpp
	2		5 mVpp
	4		MICROPOWER 12 to 40 mVpp ONLY *

*OPTIONS AVAILABLE IN MICROPOWER VERSION

_____ -	x	x	MAG PREAMP, DIGITAL OPTO-ISOLATED CURRENT LOOP PUCK ELBY TYPE
Current Sink	1		4 - 20 mA
	2		10 - 50 mA
Input Sensitivity	0		30 mVpp
	1		12 mVpp

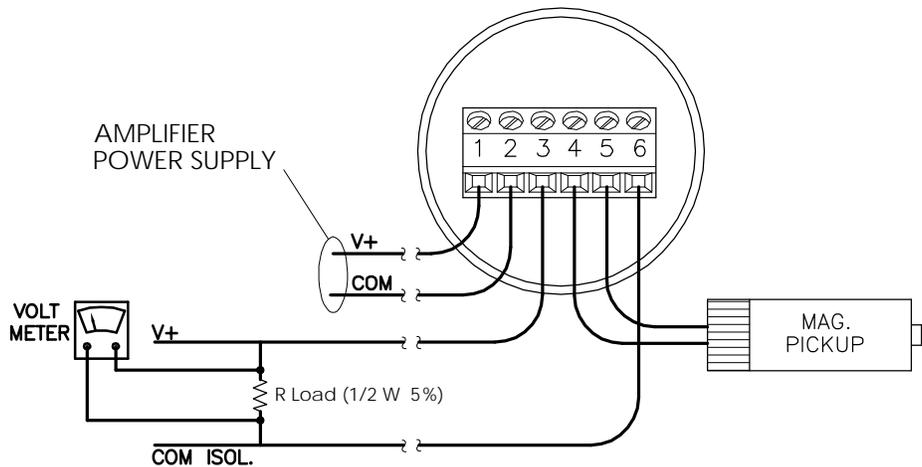
WIRING DIAGRAM, OPTION A

$$R \text{ Load} \leq \frac{V_s - 4}{.02A}$$

$$V_s \therefore 12 \text{ V} \leq 400 \Omega$$

$$24 \text{ V} \leq 1000 \Omega$$

DIGITAL OPTO-ISOLATED
CURRENT LOOP



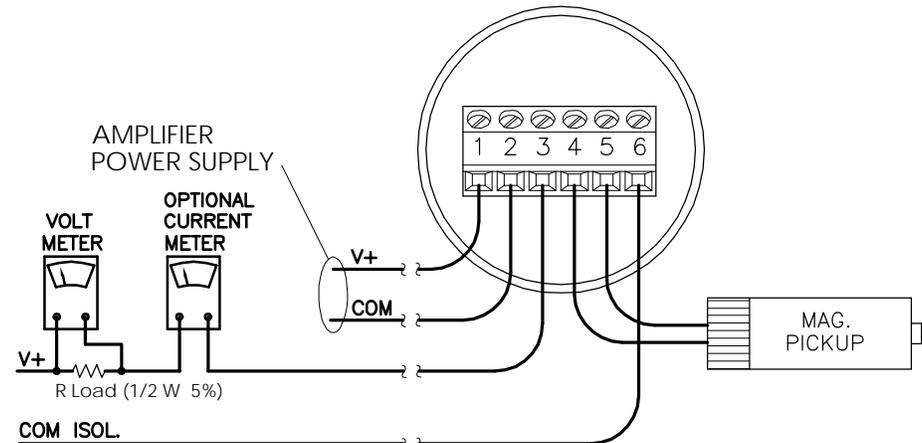
WIRING DIAGRAM, OPTION B

$$R \text{ Load} \leq \frac{V_s - 4}{.02A}$$

$$V_s \therefore 12 \text{ V} \leq 400 \Omega$$

$$24 \text{ V} \leq 1000 \Omega$$

DIGITAL OPTO-ISOLATED
CURRENT LOOP





Electronic Data Devices
 Odessa, Texas USA
 432-366-8699
 rkw@eddevices.com



4.0420
 FTC CONVERTER
 MAG TYPE
 CURRENT OUTPUT

PRODUCT DESCRIPTION

The FTC converter receives frequency input and converts it to a proportional 4-20mA output. It has been configured to fit a compact 1/2 & 3/4" NPT "ELBY" explosion proof enclosure. The frequency range is field selectable to fit most applications. ZERO and SPAN adjustments make it easy to calibrate to almost any measurement range, with little interaction between the adjustments.

The power supply input is designed to cover the entire range of commonly available DC power, with no selecting or adjusting.

SPECIFICATIONS

- Vs Supply Voltage:** 9 - 30 VDC @ ≤ 4mA
- Input Protection:** 100 VAC, reversed leads
- Output Protection:** Short to +VDC, Common or Signal out Continuous
- Frequency Input Range:**
 - F Hi:** Adjustable full scale: 1100 Hz to 10 KHz* (18 kHz with signal >50 mV, 1% linearity)
 - F Lo:** Adjustable full scale: 75 Hz to ≥1100 Hz
- Input Sensitivity:**
 - Standard 50 mVpp
 - High 12 mVpp
- Linearity:*** 0.5% max., 0.15% typ.
- Output Setting Time:*** Full scale change to 95% of final value 100mS to 3 sec.
- Output Ripple and Noise:*** .2 mA max p-p, 1% of Full Scale
.02 mA typ., .01% of Full Scale
- Temperature Coefficient:** 25° to 40 °C, 0.13 %/°C,
- Operating Temp. Range:** -40° to +85 °C (-40 to +185 ° F)
- ZERO/SPAN Adjustment Interaction:** < 1%

3 WIRE OUTPUT VERSION: 20 mA Range

Minimum Output Current: 0.07 mA

Maximum Output Current: 24.1 mA
 (Full Scale Min. Cal., Zero Cal. Set to 4 mA)

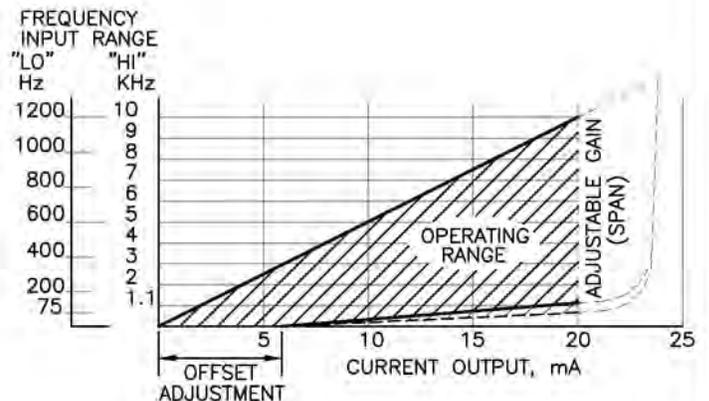
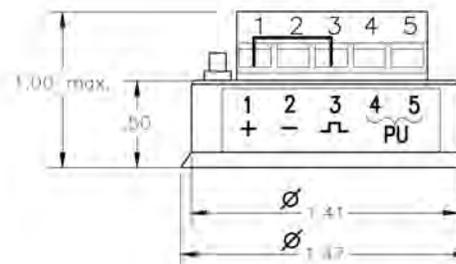
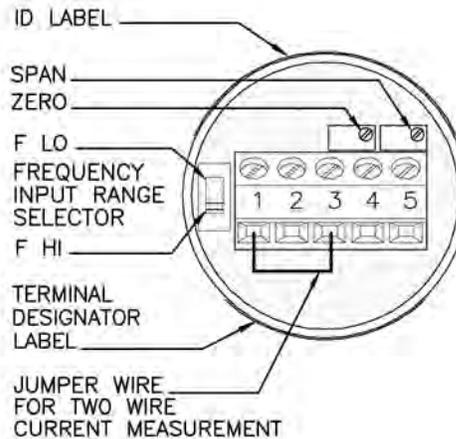
- Terminal Connections:**
- | | |
|---------------|----------------|
| 1. Input VDC | 4. Mag Pick-up |
| 2. Common | 5. Mag Pick-up |
| 3. Signal Out | |

Wiring Options & R Load specification: See page 2

Compliance: CE: EN55011, EN50022-2

(FM, CSA & CENELEC Pending)

**INTRINSICALLY SAFE
 CLASS I, II, III DIV 1
 GROUP ABCDEFG, ZONE 0**



EDD FREQUENCY-CURRENT CONVERTER 4.0420

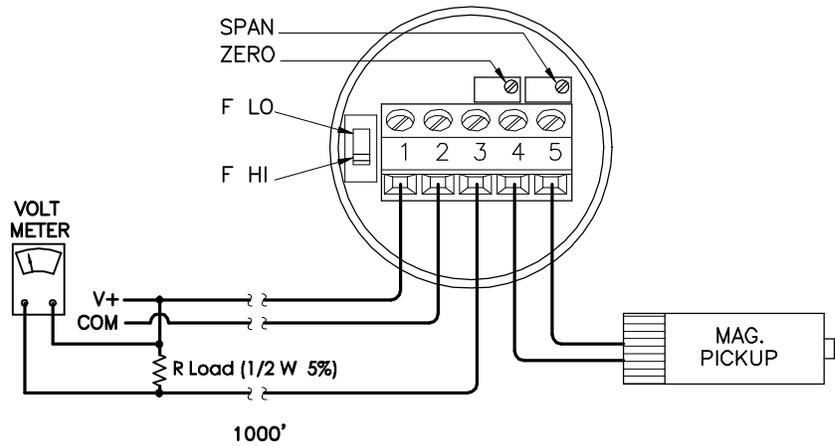
Installations must meet the requirements of intrinsically safe systems for hazardous (classified) locations and must follow details specified in FMRC engineering control drawing #85049

VOLTAGE MEASUREMENT, 3 WIRE FOR USE WITH LONG WIRE RUNS RESISTANT TO LINE LOSSES & EMI

SWITCH POSITIONS:
FREQ.: F LO
F HI

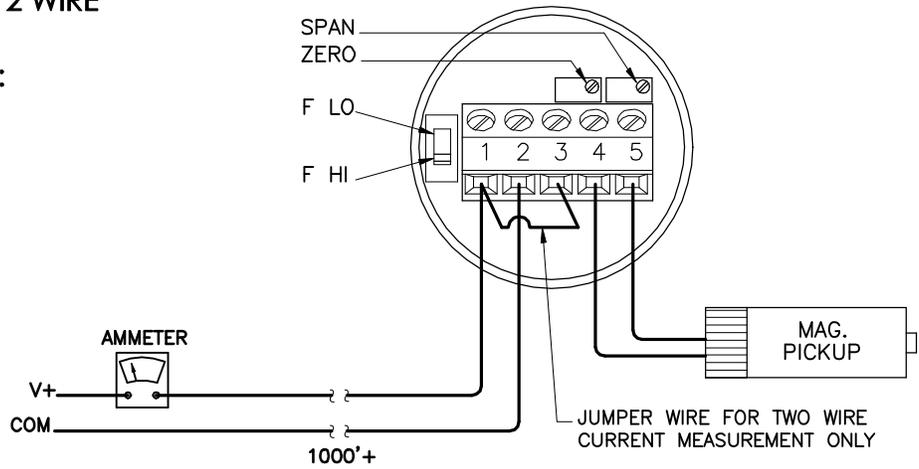
$$R_{Load} \leq \frac{V_s - 9}{.02A}$$

Vs.: 12 V ≤ 150 Ω
24 V ≤ 750 Ω



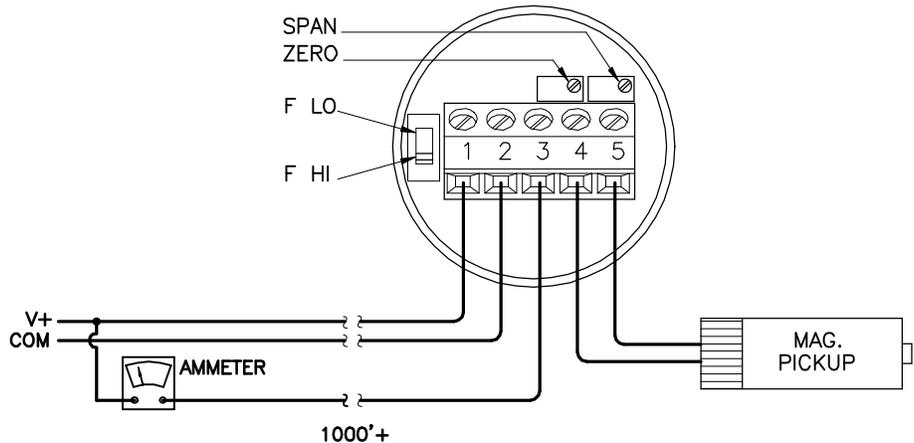
CURRENT MEASUREMENT, 2 WIRE

SWITCH POSITIONS:
FREQ.: F LO
F HI



CURRENT MEASUREMENT, 3 WIRE

SWITCH POSITIONS:
FREQ.: F LO
F HI





Electronic Data Devices

Turbine Flow Meters



4.303 MAGNETIC PICKUP

Electronic Data Devices' magnetic pickups are manufactured to cover a wide range of metering applications, including our meters and most others popular brands of meters.

SPECIFICATIONS

DC Coil Resistance	1450 ohms	Output Volts	2.5Vpp (turbine meters)
Inductance	800 mh	Pole Piece	Extended
Magnetization	900 Gauss	Construction	303/304 S>S> solid epoxy
Temperature Range	-150° to +250°F	Connection	2 pins gold plated
Overall length	2.25"	Mating Connector	MS 3106A-10SL-4S
Thread Size	5/8 X 18	Thread Length	1.13"

Product Description

Electronic Data Devices' Digital 2 PIN magnetic pick-ups feature high output voltage and great configuration diversity to meet a wide range of applications.

A sanitary version to NEMA 6, IP65 & IP67 is also offered.

All Models are also available with an optional temperature probe.

Specifications

DC-Coil: Resistance/Inductance/Output Voltage
 1500 Ohms/ 800 mH/ 240 Vpp

Magnetization: 950 GAUSS 0.106 DIA.

Temperature Range: -100° to 250° F (-73° to 120° C)

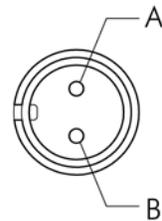
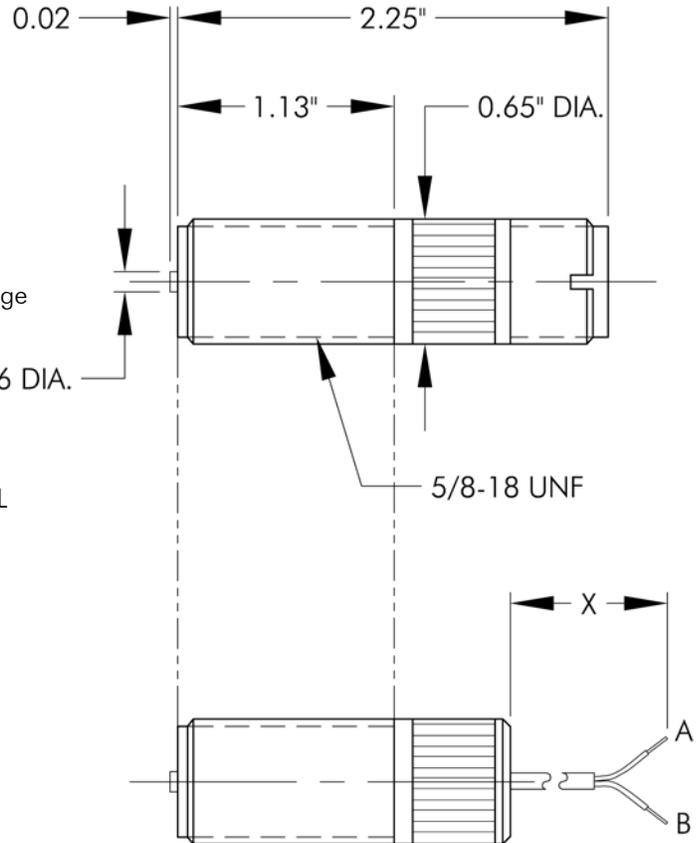
Pole Piece: Extended Pole, 0.106 dia. x 0.020 L

Construction: 303/304 Stainless Steel
 Solid Epoxy Encapsulation
 All standard connectors have gold plated pins.

Application: For gear pitch range of 24 DP or coarser depending on pole piece.

CE-Compliance: EN55011, EN50022-2

Options: For different length, material of construction, configuration, special pole piece type, thread size, hermetically sealed, precision custom magnetization, intergal temperature sensor, connector and/or cable termination, please contact factory.



PIN Out

A +Voltage
 B -Ground

Connector Type Pick-up Part Number: 4.303
 Wire Lead Pick-up Part Number: 4.303L
 Connector Part Number: MS3106-10SL-4S

Product Description

Electronic Data Devices' Digital 2 PIN magnetic pick-ups feature high output voltage and great configuration diversity to meet a wide range of applications.

A sanitary version to NEMA 6, IP65 & IP67 is also offered.

All Models are also available with an optional temperature probe.

Specifications

DC-Coil: Resistance/Inductance/Output Voltage
 1500 Ohms/ 800 mH/ 240 Vpp

Magnetization: 950 GAUSS 0.106 DIA.

Temperature Range: -100° to 250° F (-73° to 120° C)

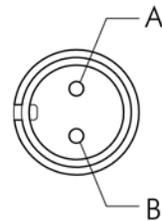
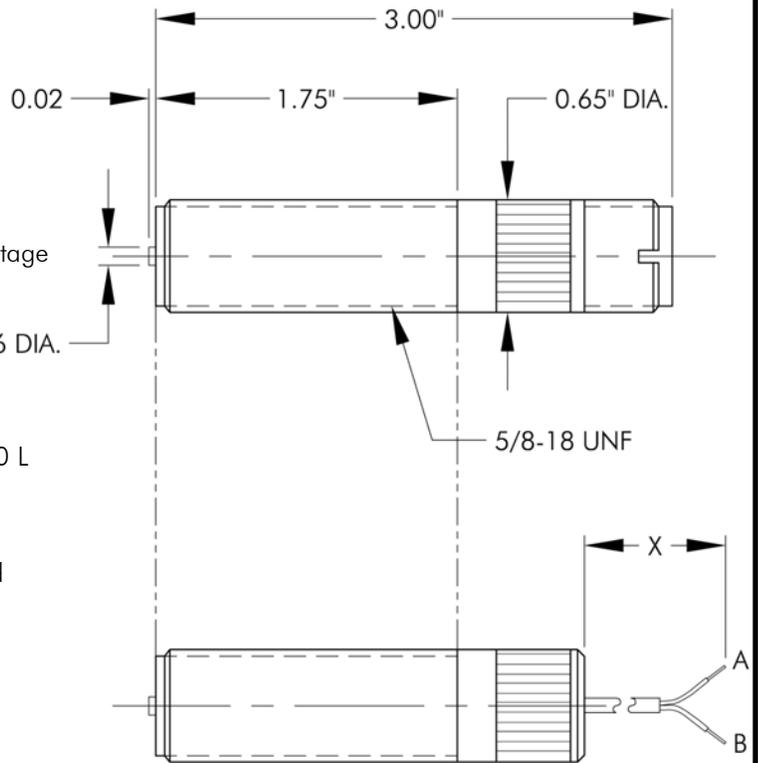
Pole Piece: Extended Pole, 0.106 dia. x 0.020 L

Construction: 303/304 Stainless Steel
 Solid Epoxy Encapsulation
 All standard connectors have gold plated pins.

Application: For gear pitch range of 24 DP or coarser depending on pole piece.

CE-Compliance: EN55011, EN50022-2

Options: For different length, material of construction, configuration, special pole piece type, thread size, hermetically sealed, precision custom magnetization, intergal temperature sensor, connector and/or cable termination, please contact factory.



PIN Out

A +Voltage
 B -Ground

Connector Type Pick-up Part Number: 4.304
 Wire Lead Pick-up Part Number: 4.304L
 Connector Part Number: MS3106-10SL-4S



Electronic Data Devices

Turbine Flow Meters



4.5015U MAGNETIC PICKUP

Electronic Data Devices' magnetic pickups are manufactured to cover a wide range of metering applications, including our meters and most others popular brands of meters.

SPECIFICATIONS

Supply Voltage	7.5 to 30 Vdc	Signal Output	0 - 10 V
Frequency Range	3 - 10 kHz	Pole Piece	Extended
Magnetization	900 Gauss	Input Sensitivity	30 mVpp
Temperature Range	-40° to +250°F	Connection	3 pins gold plated
Overall length	3.0"	Mating Connector	MS 3106A-10SL-3S
Thread Size	5/8 X 18 UNF	Thread Length	1.75"



Electronic Data Devices

Odessa, Texas USA
432-366-8966
rkw@eddevices.com

4.5015U
Digital Magnetic Pick-Up
5/8 x 18 UNF

Product Description

Electronic Data Devices' Digital 3 PIN magnetic pick-up produces a digital frequency output directly proportional to speed. The internal amplifier provides for constant pulse shaping, signal amplitude, logic-level output, improved signal-to-noise ratio, usable at lower RPM's and greater air gap between the sensor and the actuator.

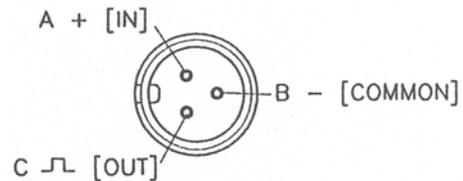
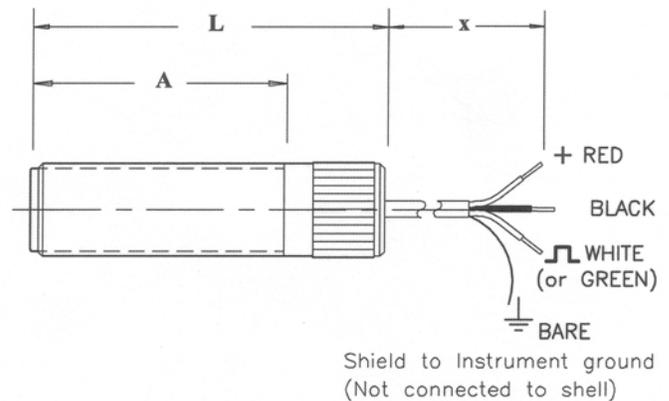
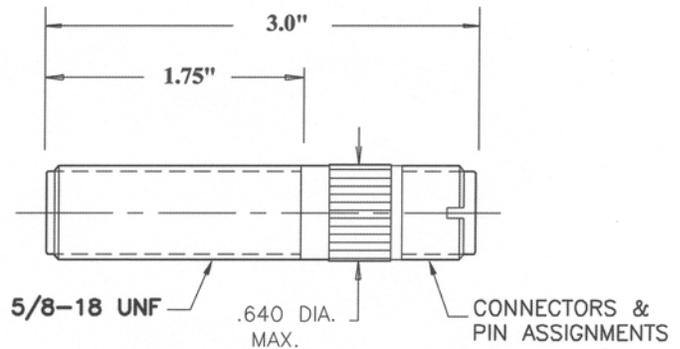
MICROPOWER versions are available for ultra low current draw, ideal for battery applications.

A sanitary version to NEMA 6, IP65 & IP67 is also offered.

All Models are also available with an optional temperature probe.

Specifications

V_S, Supply Voltage:	7.5 (12) to 30 Vdc regulated 3.6 Vdc min., unregulated MICROPOWER: 2 to 6 Vdc
I_S, Supply Current:	≤ 2 mA @ 5 Vdc ≤ 4 mA @ 12 Vdc ≤ 10 mA @ 24 Vdc ≤ 20 mA @ 30 Vdc (OC) MICROPOWER: ≤ 0.06 mA
V_O, Signal Out: @ ≤ 20 mA sink	0 - 10 V, NPN 0 - 5 V, NPN 0 - V _S , NPN 0 - V _S , NPN, OC (Open Collector)
Input Sensitivity:	30, 12 or 5 mVpp MICROPOWER: 12 - 40 mV
Frequency Range:	≤ 3 Hz to 10 kHz ≤ 40 kHz at increased signal level, varies with target size, distance and pick-up sensitivity. (Option: ≤ 100 kHz) MICROPOWER: ≤ 1 Hz to 30 kHz
Rise/Fall Time:	0.04 / 0.16 μs
Temperature Range:	-40° to 248° F (-40° to 120° C) (Option: -45° to 140° C)
Magetization:	Standard: ≥ 900 GAUSS Low Mag: 250 GAUSS, typ.
Sensor Body:	303 Stainless Steel



PIN Out

- A +Voltage
- B -Ground
- C Signal Output Square Wave

Connector Type Pick-up Part Number: 4.5015U
Wire Lead Pick-up Part Number: 4.5015L
Connector Part Number: MS3106A-10SL-3S

Product Description

Electronic Data Devices' Digital 3 PIN magnetic pick-up produces a digital frequency output directly proportional to speed. The internal amplifier provides for constant pulse shaping, signal amplitude, logic-level output, improved signal-to-noise ratio, usable at lower RPM's and greater air gap between the sensor and the actuator.

MICROPOWER versions are available for ultra low current draw, ideal for battery applications.

A sanitary version to NEMA 6, IP65 & IP67 is also offered.

All Models are also available with an optional temperature probe.

Specifications

V_S, Supply Voltage: 7.5 (12) to 30 Vdc regulated
 3.6 Vdc min., unregulated
 MICROPOWER: 2 to 6 Vdc

I_S, Supply Current: ≤ 2 mA @ 5 Vdc
 ≤ 4 mA @ 12 Vdc
 ≤ 10 mA @ 24 Vdc
 ≤ 20 mA @ 30 Vdc (OC)
 MICROPOWER: ≤ 0.06 mA

V_O, Signal Out: 0 - 10 V, NPN
 @ ≤ 20 mA sink
 0 - 5 V, NPN
 0 - V_S, NPN
 0 - V_S, NPN, OC (Open Collector)

Input Sensitivity: 30, 12 or 5 mVpp
 MICROPOWER: 12 - 40 mV

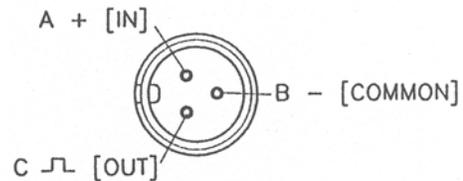
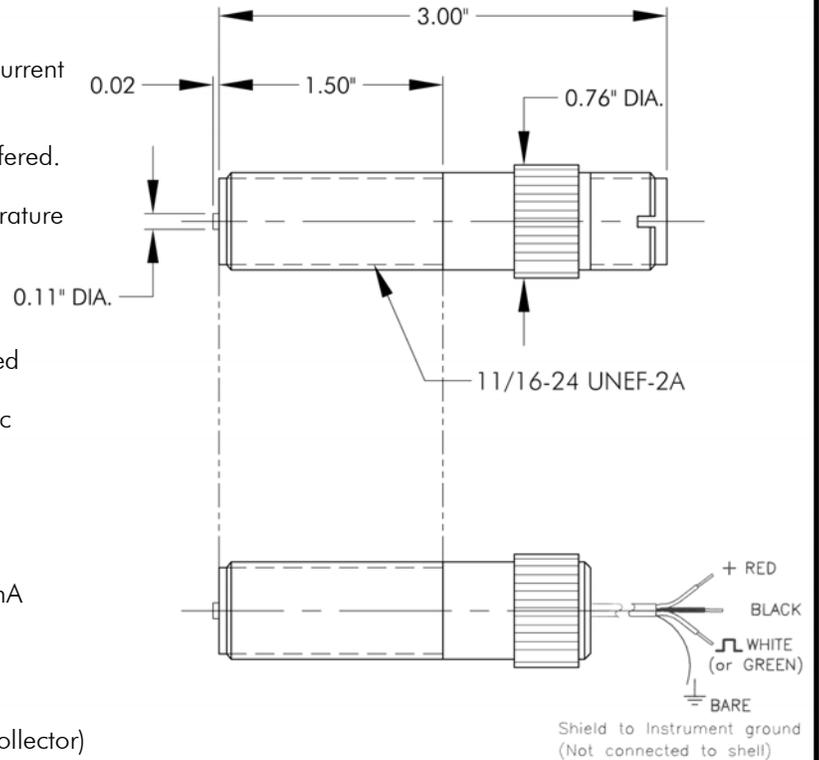
Frequency Range: ≤ 3 Hz to 10 kHz
 ≤ 40 kHz at increased signal level,
 varies with target size, distance and
 pick-up sensitivity.
 (Option: ≤ 100 kHz)
 MICROPOWER: ≤ 1 Hz to 30 kHz

Rise/Fall Time: 0.04 / 0.16 μs

Temperature Range: -40° to 257° F (-40° to 125° C)
 (Option: -45° to 140° C)

Magetization: Standard: ≥ 900 GAUSS
 Low Mag: 250 GAUSS, typ.

Sensor Body: 303 Stainless Steel



PIN Out

- A +Voltage
- B -Ground
- C Signal Output Square Wave

Connector Type Pick-up Part Number: 4.5024
 Wire Lead Pick-up Part Number: 4.5024L
 Connector Part Number: MS3106A-10SL-3S

Product Description

Electronic Data Devices' Digital 2 PIN magnetic pick-ups feature high output voltage and great configuration diversity to meet a wide range of applications.

A sanitary version to NEMA 6, IP65 & IP67 is also offered.

All Models are also available with an optional temperature probe.

Specifications

DC-Coil: Resistance/Inductance/Output Voltage
 3000 Ohms/ 1500 mH/ 290 Vpp

Magnetization: 600 GAUSS 0.106 DIA.

Temperature Range: -150° to 330° F (-101° to 165° C)

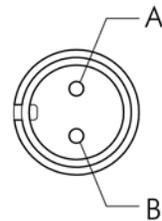
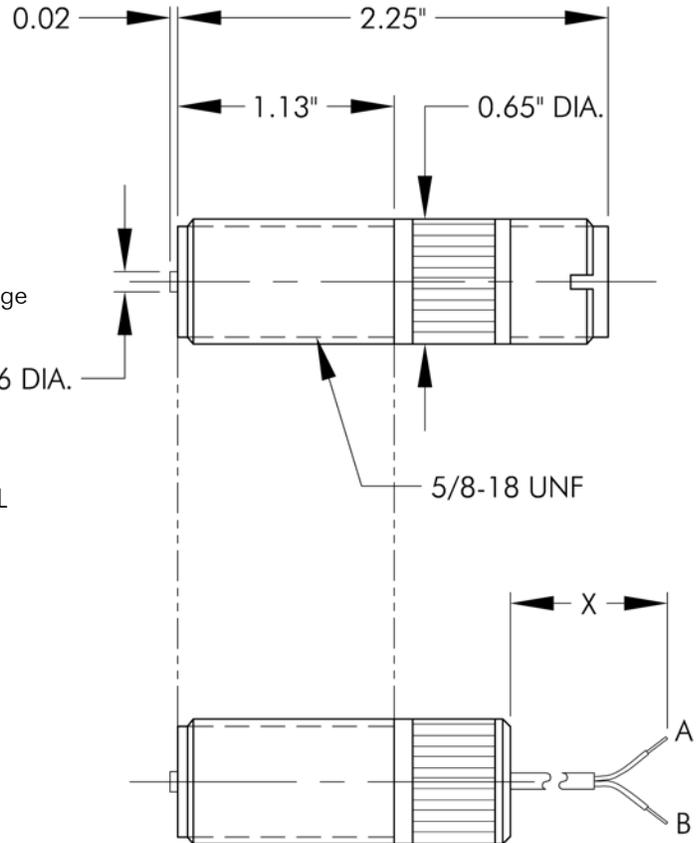
Pole Piece: Extended Pole, 0.106 dia. x 0.020 L

Construction: 303/304 Stainless Steel
 Solid Epoxy Encapsulation
 All standard connectors have gold plated pins.

Application: For gear pitch range of 24 DP or coarser depending on pole piece.

CE-Compliance: EN55011, EN50022-2

Options: For different length, material of construction, configuration, special pole piece type, thread size, hermetically sealed, precision custom magnetization, intergal temperature sensor, connector and/or cable termination, please contact factory.



PIN Out

A +Voltage
 B -Ground

Connector Type Pick-up Part Number: 4.5050
 Wire Lead Pick-up Part Number: 4.5050L
 Connector Part Number: MS3106-10SL-4S

Product Description

Electronic Data Devices' high temperature magnetic pick-ups are suited for adverse temperature conditions.

Specifications

DC-Coil: Resistance/Inductance:
 As tabulated in product details below.

Magnetization:
 Standard: 900 GAUSS, typ.
 Low Mag: 300 GAUSS, typ.

Temperature Range:
 8HT: -450° to +850° F
 (-270° to +458° C)

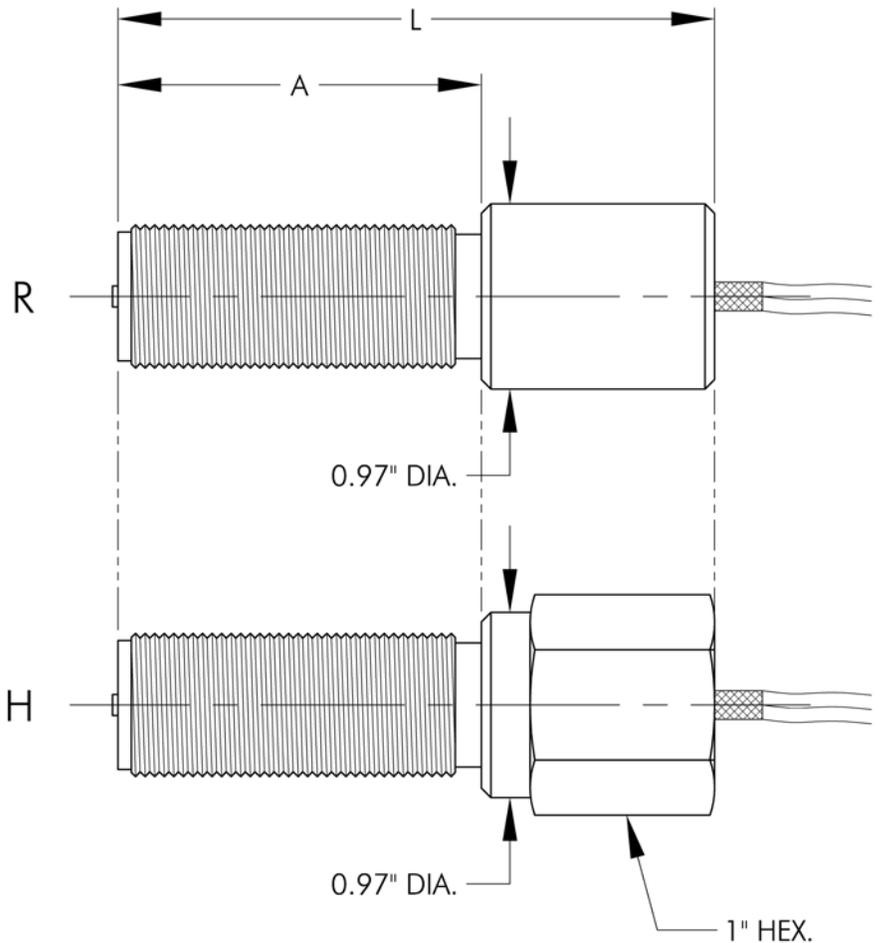
Pole Piece:
 Flush and extended are available.

Construction:
 303/304 Stainless Steel, Blindshell CF (closed face) design.
 Solid Ceramic Encapsulation
 Mica-Glass Insulated Lead Wires, 22AWG

Application:
 For gear pitch range of 24 DP or coarser depending on pole piece.

Options

For different length, material construction, configuration, special pole piece, thread size, hermetically sealed, precision custom magnetization, please contact factory.



Part Number	4.302T800, R or H
Lead Wires	L 36"
Thread	3/4 - 20 UNEF
Thread Length (A)	1.9" (46 mm)
Shell Length (L)	3.12" (79 mm)
Coil Resistance	160 Ohms
(Inductance)	(140 mH)
Pole Diameter	0.106"
Pole Length	0.020"