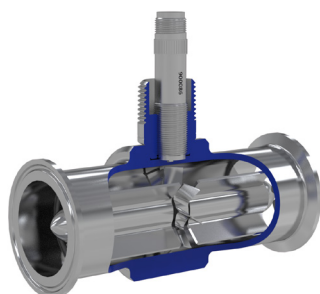


# 3A TURBINE FLOWMETER

**SANITARY TURBINE FLOWMETER FOR LIQUID MEASUREMENT**



**Turbines, Inc.** is the leader in the design and manufacture of reliable and accurate turbine flow metering equipment, electronic monitors, and accessories. All products are engineered, manufactured, and calibrated using premium quality materials by skilled tradesman with state-of-the-art equipment.

Turbines, Inc. maintains a team of dedicated engineers, technicians, and application specialists, who are on-call to assist with product/application guidance, technical assistance, and special configurations or modifications.

## Specifications

| Flow Meter ID (Inches) | Flow Range (GPM) |
|------------------------|------------------|
| 1/2"                   | 1.25-10          |
| 5/8"                   | 1.75-16          |
| 3/4"                   | 2.5-30           |
| 1"                     | 4-60             |
| 1-1/4"                 | 6-93             |
| 1-1/2"                 | 8-130            |
| 2"                     | 15-225           |
| 3"                     | 40-650           |

|                               |                                                     |
|-------------------------------|-----------------------------------------------------|
| Linearity                     | +/- 0.5% over standard flow range                   |
| Repeatability                 | +/- 0.1% over standard flow range                   |
| Operating Temperature         | -100°F to 450°F (consult factory for other options) |
| Flow Rate                     | From 1.25 to 650gpm                                 |
| Cleaning Methods              | CIP/SIP/COP/SOP                                     |
| Surface Finish                | Minimum 32 µin Ra                                   |
| <b>Materials</b>              |                                                     |
| Meter Body                    | 316 Stainless steel                                 |
| Rotor                         | 17-4 PH Stainless steel                             |
| Bearings                      | Hard Carbon Composite, Rulon 123                    |
| <b>Additional Information</b> |                                                     |
| Connections                   | Sanitary                                            |
| Certifications                | 3A Sanitary Standards 28-04, CRN Certified, NIST    |

**Model Number Designation for 3A Turbine Meter and 3A Rebuild Kit****TMS/TKSA0100X2-3A-G-2HUB****Style of Turbine Flow Meter**

|      |                                          |
|------|------------------------------------------|
| TMSA | Sanitary Style Turbine Meter             |
| TKSA | Sanitary Style Turbine Meter Rebuild Kit |

**Turbine Flow Meter Size**

|      |        |                                                          |
|------|--------|----------------------------------------------------------|
| 0050 | 1/2"   | (1" inlet diameter, 1.984" flange diameter standard)     |
| 0058 | 5/8"   | (1" inlet diameter, 1.984" flange diameter standard)     |
| 0075 | 3/4"   | (1" inlet diameter, 1.984" flange diameter standard)     |
| 0100 | 1"     | (1" inlet diameter, 1.984" flange diameter standard)     |
| 0125 | 1 1/4" | (1 1/2" inlet diameter, 1.984" flange diameter standard) |
| 0150 | 1 1/2" | (1 1/2" inlet diameter, 1.984" flange diameter standard) |
| 0200 | 2"     | (2" inlet diameter, 2.516" flange diameter standard)     |
| 0300 | 3"     | (3" inlet diameter, 3.579" flange diameter standard)     |

**Optional End Fitting Size**

|        |                                               |
|--------|-----------------------------------------------|
| Blank  | Standard End Fitting                          |
| X1/2   | 1/2" inlet diameter, 0.984" diameter flange   |
| X3/4   | 3/4" inlet diameter, 0.984" diameter flange   |
| X1 1/4 | 1 1/4" inlet diameter, 1.984" diameter flange |
| X1 1/2 | 1 1/2" inlet diameter, 1.984" diameter flange |
| X2     | 2" inlet diameter, 2.516" diameter flange     |
| X3     | 3" inlet diameter, 3.579" diameter flange     |

**3A Compliant Materials, Surface Finish, etc**

|       |                                    |
|-------|------------------------------------|
| Blank | non-3A Sanitary Standard compliant |
| 3A    | 3A Sanitary Standard compliant     |

**Bearing Material**

|   |                      |
|---|----------------------|
| G | Carbon Graphite M100 |
| R | Rulon® 123           |

**Pickup Coil**

|       |                                                    |
|-------|----------------------------------------------------|
| Blank | Standard Single Magnetic Coil                      |
| 2Hub  | Two Magnetic Pickup Coils                          |
| PAI   | Single Magnetic Coil w/ Integrated Pulse Amplifier |
| 2PAI  | Two Magnetic Coils w/ Integrated Pulse Amplifiers  |

**Service**

Our dedicated staff offers complete support and recertification for flow meters — whether our own or a competitor's brand. Our calibration services are performed by our trained technicians using the latest testing equipment.

Turbines, Inc. maintains extensive inventories in multiple locations to facilitate rapid, industry leading deliveries.

**Worldwide Support**

We serve customers globally with offices in Altus, OK; Seneca, SC; Odessa, TX; Cranston, RI; and Edmonton, Alberta, Canada.



**Turbines, Inc. products are proudly made in the U.S.A.**



15935 Highway 283 N.  
Altus, Oklahoma 73522, USA  
Tel: +1-580-477-3067  
[www.turbinesincorporated.com](http://www.turbinesincorporated.com)



112 Lumber Ln.  
Seneca, SC 29672 USA  
Tel: +1-864-882-4544  
[www.turbinesincorporated.com](http://www.turbinesincorporated.com)



960 South Meadow Ave.  
Odessa, TX 79761 USA  
Tel: +1-432-333-4800  
[www.turbinesodessa.com](http://www.turbinesodessa.com)



800 Wellington Avenue  
Cranston, RI 02910, USA  
Tel: +1-401-461-6366  
[www.primaryflowsignal.com](http://www.primaryflowsignal.com)



2236 80th Avenue NW,  
Edmonton, AB T6P 1N2  
Tel: 877-661-3569  
[www.pfscanada.ca](http://www.pfscanada.ca)