

# ECONOMICAL BALL-BEARING LIQUID TURBINE FLOWMETERS

## With Male NPT Ports

**FTB-900  
Series**



- ✓ **±0.5% of Reading Accuracy**
- ✓ **Economical Ball-Bearing Design**
- ✓ **440C Bearing Retainers for Durability**
- ✓ **Ball Bearings are Field Replaceable Without Loss of Calibration**
- ✓ **Deflector Cones Stabilize Low-Mass Rotor for Increased Bearing Life**
- ✓ **NIST Certificate Supplied Standard**

OMEGA® FTB-900 Series turbine meters have male NPT end fittings for easy connections. These units come with a mating 2-wire connector and can be ordered with FLSC-60 Series integrally mounted signal conditioners to provide 4 to 20 mA, 0 to 5 Vdc, or amplified pulse outputs.

These turbine meters are intended for clean fluid service only; when there is any question about the cleanliness of the process fluid, strainers are recommended. In addition, when using these units for fluids with viscosities other than 1 centistoke, special calibrations and universal viscosity curves are available—consult OMEGA's Flow Engineering Department.

### SPECIFICATIONS

**Accuracy:** ±0.5% rdg  
**Repeatability:** ±0.05%  
**Materials of Construction:**  
     **Body:** 304 SS  
     **Rotor:** 17-4 PH SS  
     **Bearings:** 440C SS

**Output:** 30 mV p-p sine wave minimum  
**Electrical:** 2-wire connector included  
**Maximum Pressure Drop:** 4 psid  
**Temperature Range:** -268 to 232°C  
                                   (-450 to 450°F)

FTB-909 turbine shown with FLSC-61 signal conditioner.



### To Order

Model No.	Linear Range Water LPM (GPM)	Nominal K Factor	Maximum Operating Pressure (psi)	Length mm (inch)	End Connections MNPT	Approx. Wt. kg (lb)
FTB-901B	1.9 to 9.5 (0.5 to 2.5)	15,000	5000	76 (3)	1/2	0.4 (1)
FTB-902	2.8 to 19 (0.75 to 5)	6000	5000	76 (3)	1/2	0.4 (1)
FTB-903	4.7 to 36 (1.25 to 9.5)	3160	5000	76 (3)	1/2	0.4 (1)
FTB-904	6.62 to 61 (1.75 to 16)	1875	5000	76 (3)	1/2	0.4 (1)
FTB-905	9.5 to 110 (2.5 to 29)	1035	5000	81 (3.25)	3/4	0.4 (1)
FTB-906	15 to 227 (4 to 60)	500	4000	89 (3.50)	1	0.9 (2)
FTB-907	23 to 352 (6 to 93)	322	3000	99 (3.88)	1 1/4	0.9 (2)
FTB-908	30 to 492 (8 to 130)	230	2000	111 (4.38)	1 1/2	1.4 (3)
FTB-909	57 to 852 (15 to 225)	133	1500	121 (4.75)	2	1.8 (4)
FTB-910	95 to 1514 (25 to 400)	75	1500	154 (6.06)	2 1/2	2.3 (5)
FTB-911	117 to 2460 (40 to 650)	46.1	1000	254 (10)	3	3.2 (7)

Comes complete with operator's manual and NIST certificate. Calibration is for water; for other viscosities please contact Flow Engineering Department.  
**Ordering Examples:** To order a scaled system including signal conditioner and turbine meter with MNPT end fittings, specify model number  
**SYS/FTB-901B/FLSC-61**, ball-bearing flowmeter with 0.5 to 2.5 gallon per minute range, plus 3-wire analog transmitter signal conditioner.  
**SYS/FTB-904/FLSC-62A**, ball-bearing flowmeter with 1.75 to 16 gallon per minute range, plus 2-wire analog transmitter signal conditioner.