

Model 1100 Series Turbine Flow Meter

➤ Introduction

The Blancett Model 1100 Turbine Flow Meter is designed to meet the demands of the most rigorous flow measurement applications. Originally developed for the secondary oil recovery market, the Model 1100 is an ideal meter for liquid flow measurement on or off the oilfield. The meter features a 316 stainless steel housing and rotor support, CD4MCU stainless steel rotor, and abrasion-resistant tungsten carbide rotor shaft and journal bearings. These materials help the meter to maintain accuracy and mechanical integrity when measuring the corrosive and abrasive fluids found in many industries.



[Click here](#) to download the Model 1100 Turbine Flow Meter Technical Data Sheet (3.30 MB).

➤ Operating Principle

Fluid entering the meter first passes through an inlet flow straightener that reduces its turbulent flow pattern. Fluid then passes through the turbine, causing the turbine to rotate at a speed proportional to fluid velocity. As each turbine blade passes through the magnetic field generated by the meter's magnetic pick-up, an AC voltage pulse is generated. These pulses provide an output frequency that is proportional to volumetric flow.

➤ Specifications

Accuracy:	±1% of reading
Repeatability:	±0.1%
Operating Temperature:	-150 °F to +350 °F (-101 °C to +177 °C) standard Temperatures to +425 °F (+232 °C) with high-temp pick-up
Turndown Ratio:	About 10:1
End Connections:	NPT, BSP, Flange, Grooved End

➤ Ordering Information

Part #	Bore Size	End Connections	Max PSI.	Flow Ranges		Approx. K-Factor Pulses/Gal
				GPM	BPD	
B110-375-1/2	3/8"	1/2' x 1/2' male NPT	5,000	.6-3	20-100	20,000
B110-500-1/2	1/2"	1/2' x 1/2' male NPT	5,000	.75-7.50	25-250	11,500
B110-750-1/2	3/4"	1/2' x 1/2' male NPT	5,000	2-15	68-515	3,300
B110-375	3/8"	1 X 1" Male NPT	5,000	.6-3	20-100	20,000

B110-500	1/2"	1 X 1" Male NPT	5,000	.75-7.50	25-250	11,500
B110-750	3/4"	1 X 1" Male NPT	5,000	2-15	68-515	3,300
B110-875	7/8"	1 X 1" Male NPT	5,000	3-30	100-1000	3,100
B111-110	1"	1 X 1" Male NPT	5,000	5-50	170-1700	870
B111-115	1-1/2"	1.5 X 1.5" Male NPT	5,000	15-180	515-6000	310
B111-121	1-1/2"	2 X 2" Male NPT	5,000	15-180	515-6000	310
B111-120	2"	2 X 2" Female NPT	5,000	40-400	1300-13000	52
B111-130	3"	Grooved End	800	60-600	2100-21000	57
B111-140	4"	Grooved End	800	100-1200	3400-41000	29
B111-160	6"	Grooved End	800	200-2500	6800-86000	7
B111-180	8"	Grooved End	800	250-3500	12000-120,000	3
B111-200	10"	Grooved End	800	500-5000	17143-171,423	1.6