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Positive Displacement Flow Meters

➤ [Introduction](#)

The Blancett positive displacement flow meter provides high measurement accuracy for fluids over a wide viscosity range.

Applications include lubricants, fuels, chemicals and solvents, oils and greases. With only 2 moving parts, the positive displacement meter offers trouble free operation and long service life. The meter is bi-directional and it has an extremely large turndown ratio, up to 400:1 in some models - with full accuracy at extremely low flow rates.



[Click here](#) to download the Positive Displacement Flow Meter Technical Data Sheet (2.87 MB).

➤ [Operating Principle](#)

Fluid entering the meter drives two gears. A non-intrusive sensor detects the movement of the gears and produces a square wave pulse for each gear tooth that passes the path of the sensor face. The resulting pulse frequency is proportional to the actual flow rate, and it provides a highly accurate representation of the fluid flow. The meter is relatively insensitive to changes in viscosity and there is no need for straight run piping.

➤ [Specifications](#)

Accuracy:	±0.5% of reading
Repeatability:	±0.1%
Operating Temperature:	-20 °F to +300 °F (-29 °C to +149 °C) aluminum -20 °F to +400 °F (-29 °C to +204 °C) stainless steel
End Connections:	NPT (female), 0.25", 0.50", 1.25" options
Common Materials:	440 stainless steel, tungsten carbide, Teflon®

➤ [Ordering Information](#)

Part #	Flow Range (GPM)	K-Factor	Impulse per cc	Fluid Ports (NPT)	Filtration (micron)	Pressure Rating (psi max)
Aluminum Housing						
B175-A20	0.01-2.00	13,900	3.67	1/4"	30	5,000
B175-A60	0.05-20.0	1,850	0.49	3/4"	50	5,000
B175-A80*	0.5-60.0	1,630~	0.43	1-1/4"	200	5,000
Stainless Steel Housing						
B175-S20	0.01-2.00	13,900	3.67	1/4"	30	5,000
B175-S60	0.05-20.0	1,850	0.49	3/4"	50	5,000
B175-S80*	0.5-60.0	1,630~	0.43	1-1/4"	200	5,000

Magnetic Pick-up Sold Separately:

B170109 Standard, will interface with all Blancett electronics

B170210 with Preamplifier Optional

* Must use B170210 Magnetic Pick-up with Preamplifier

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