



Lube and gear pistol grip meter LM 1800 PG-B

Technical Bulletin

General description

The Badger Meter pistol grip models are designed specifically for servicing automobiles, trucks, busses, construction equipment, and similar applications. Their perfect balance, lightweight, ruggedness, and comfortable grip make them the best choice for use on overhead hose reels. They can handle a variety of petroleum products such as automatic transmission fluid, S.A.E. 5 to 50 motor oils, S.A.E. 80 to 240 gear oils, and anti-freeze fluid (ethylene glycol). Cast aluminium housings are coated with a oven baked epoxy finish to resist scratches. A high impact resistant nylon shroud protects the knob and dial from damage. Dials are available in a variety of English and metric units of measure. Inventory control is easily maintained with the non-resettable totalizing register.



Operation

After all entrapped air and/or foreign particles are removed from the supply line, clean oil continuously passes through the metering chamber by entering the inlet port, displacing the piston, and exiting the outlet port. Each oscillation of the piston equates to a given amount of fluid. Controlled clearances between the piston and chamber wall insure minimum leakage. As the piston oscillates, its center hub rotates the output shaft through a gear train. A pointer knob affixed to the output shaft rotates around a graduated dial, indicating the amount dispensed. On the standard model LM 1800 PG, the knob is reset counter-clockwise to zero after delivery. However, on the preset batch model LM 1800 PG-B, the knob is turned counter-clockwise to the desired value, the trigger is depressed and locked in the "on" position. The pointer knob rotates clockwise toward zero, releasing the trigger latch, which automatically stops the flow.

Technical data

Dial capacity	Totalizer
16 Quarts	Quarts
16 Qt-Liter	Quarts
60 Quarts	Quarts
60 Quarts	Gallons
16 Liters	Liters
30 Liters	Liters
60 Liters	Liters
15 Gallons	Gallons
60 Gallons	Gallons

Flow (Max) *	15 liters/min
Flow (Min) *	1.5 liters/min
Operating pressure (max.)	70 bar
Operating temperature (max.)	70° C
Pressure loss at max. flow *	2 bar
Accuracy	±0.65%
Weight	1.5 kg
Inlet and outlet connections	1/2" BSPP
Viscosity range	50 50000 mPas

* Tested with Mobil DTE-25 motor oil. Min-max. flow rates and pressure loss will vary with fluid viscosity.

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