



DEPARTMENT OF TRADE AND COMMERCE  
STANDARDS BRANCH

OTTAWA, September 15, 1964

TYPE APPROVAL

CANADIAN METER COMPANY BASE PRESSURE INDEX, TYPE 4

The apparatus specified and illustrated herein has been duly approved by the Standards Branch under the provisions of the Gas Inspection Act, Chapter 129, R. S. 1952, and may be admitted to verification in Canada.

Apparatus Approved: Base Pressure Index, Type 4, manufactured and distributed in Canada by the Canadian Meter Company Limited, Milton, Ontario.

Rating of Apparatus:	Model and Pressure Element Designation	Static Pressure Range p.s.i.
	BP 30 Special	0-24" w.g. to 0-5 p.s.i.
	BP 30	0-12 to 0-15
	BP 45	0-25 to 0-30
	BP 60	0-35 to 0-45
	BP 120	0-90 to 0-100
	BP 180	0-125 to 0-165
	BP 300	0-230 to 0-300
	BP 360	0-270 to 0-350
	BP 600	0-500 to 0-600
	BP 1200	0-1,000 to 0-1,200

Description: The base Pressure Index is designed to sense and indicate, in some metering devices, the line pressure and automatically apply the required correction so that the volume passed through the meter is totalized at a predetermined base pressure. This function is achieved through the employment of a cylinder type integrator, whose raised cam is properly shaped to effect the required correction.

The device consists of the following main parts:-

- (a) a rear counter which indicates the volume passed through the meter at line pressure.
- (b) a pressure element with associated linkage and pointer which indicates the line pressure and in conjunction with the integrating cylinder actuates the gearing which drives the front counter.
- (c) the front counter which indicates the volume passed through the meter at a specified base pressure.



Description (cont'd) The integrating cylinder has a raised portion on its surface over which slides the stylus of the indicating pointer. During the time the stylus is on the raised portion a gearing arrangement engages the micrometer wheel which is permanently geared to the front counter. The duration of the engagement of the micrometer wheel increases with the increasing line pressure.

There are two types of the rear counters and three types of the front counters available for use with the Base Pressure Index. Proper multipliers are selected for each counter and these are stamped on the coefficient plate, together with the drive shaft rate in cubic feet per revolution and the instrument's serial number.

Base Pressure Indexes may be used on any approved diaphragm or rotary type positive displacement gas meter, provided the instrument base plate fits the meter properly and carries its designation. The Base Pressure Indexes are not intended for use on domestic type meters.

Base Pressure Indexes may be used in conjunction with any approved Volume and Pressure Gauge, or 'Telemike' or 'Tele-count' Transmitter manufactured by the Canadian Meter Company Limited.

Each instrument has a nameplate mounted on the inside of the front cover which contains information as to Type, Model, Serial number, Pressure range, Atmospheric and Base Pressure.

This Approval Circular consolidates and extends coverage of the Base Pressure Indexes previously approved under Circulars SD-GA.141 of July 3, 1958 and S-GA.268 of August 19, 1963.

Note: For more complete details of operation, refer to the Technical Bulletin #2.

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