

TRADE AND COMMERCE
CANADA

STANDARDS BRANCH

OTTAWA February 24, 1961.

TYPE APPROVALCANADIAN METER COMPANY BASE VOLUME INDEX

The apparatus specified 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 Volume Index, manufactured by the American Meter Company, Erie, Pa., U.S.A., and distributed in Canada by the Canadian Meter Company Limited, Milton, Ontario.

Rating of Apparatus:

(i) Static Pressure Ranges: 0-15, 0-45, 0-100, 0-300, 0-1200 p.s.i.
Pressure Element Designation: BP30, BP60, BP120, BP300, BP1200

(ii) Temperature Ranges:

<u>Temperature Coverage</u>	<u>Base Temperature</u>	<u>Cam Factor</u>
-20° to +140°F	60°F	0.8333
-10° to +150°F	70°F	0.8333
-40° to +110°F	60° or 70°F	0.7500
-50° to +110°F*	60° or 70°F	0.7500

* Some base volume indexes with this range marked on the scale *only* have effective compensation range -40° to ~~+150°F~~ +110°F.

Application: For use in conjunction with a positive displacement meter for measurement of high pressure gases where both pressure and temperature are subject to variation.

Description: This is the same base volume index approved, illustrated and described in Circular SD-GA.8, January 26, 1951. Extension of approval was granted to include 0-1200 p.s.i. pressure range under Circular SD-GA.140, July 3, 1958. Under this new circular the approval is further extended to include models having temperature ranges below -20°F. In addition, the circular lists all ratings approved to date.

It will be noted that the instruments with range below -20°F have a different cam and a different gear ratio so that the cam factor becomes 0.7500 instead of 0.8333.

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