Consumer and Corporate Affairs | Consommation et corporations
Standards | Normes

NOTICE OF APPROVAL
AVIS D'APPROBATION

G-123

Ottawa, April 21, 1978

National Meter Parts, Type 250N Standard and Temperature Compensating
Positive Displacement, Diaphragm, Gas Meters

Apparatus

Badged capacity	200 cu. ft/hr AIR
Diff. press. at badged capacity	0.5" w.c.
Capacity per tangent revolution	0.143 cu. ft.
Maximum working pressure	5 p.s.i.g.
Register description	Class 175-250
Register identification number	22-0051
Temperature compensation range	-30^0F to $+120^0$F
Base temperature (T.C.Meter)	60^0 F
Connections, male	1½" S.P.T.

Description

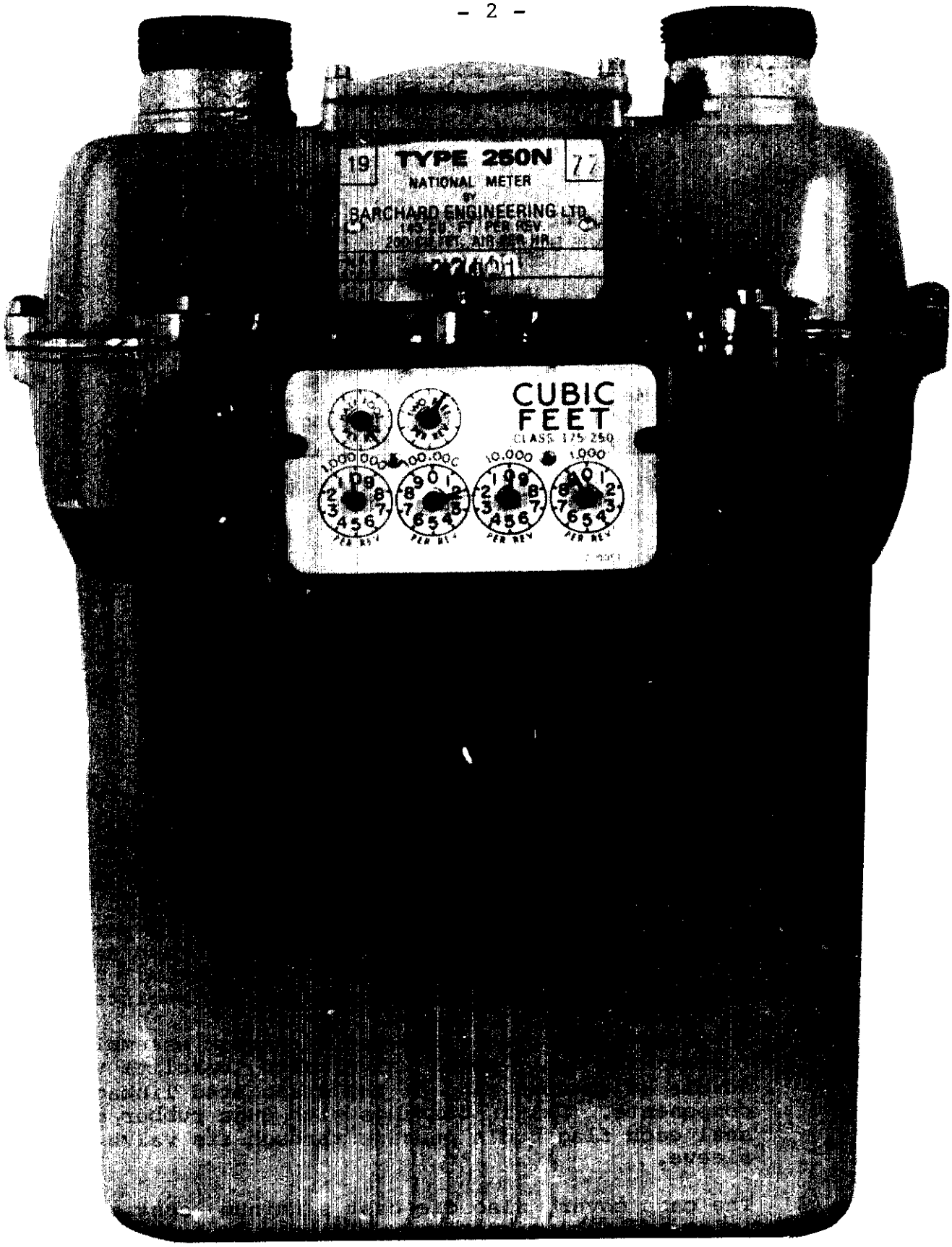
The type 250N gas meter is a conventional, domestic meter incorporating the standard, Glover-type, metering mechanism and consisting of three major assemblies:

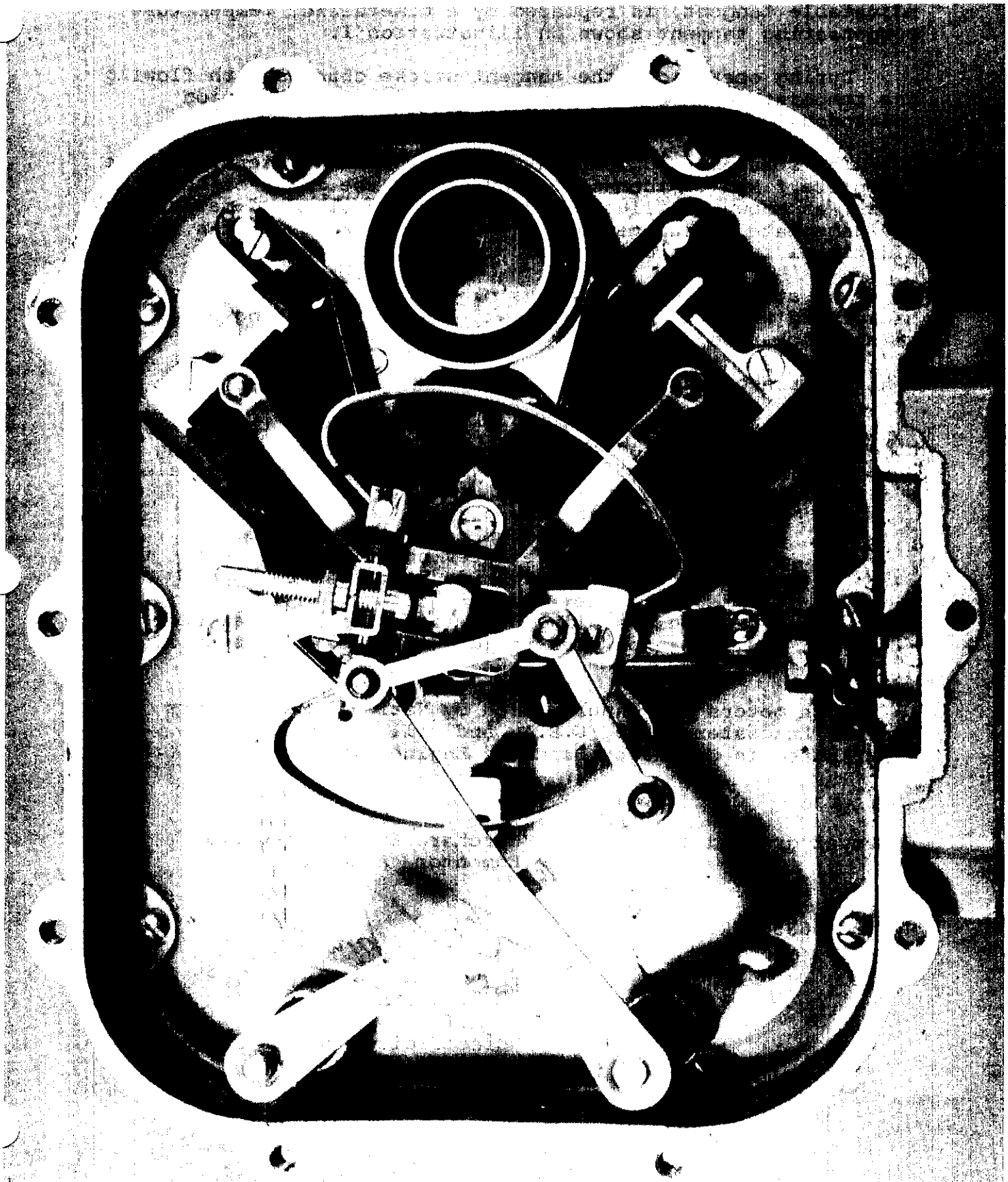
(1) the main body, of the die-cast aluminum, is partitioned in the middle for diaphragm positioning, and carries delrin flag rod step bearings in the bottom. It also contains the base for attachment of the register.

(2) the removable valve table and diaphragm assembly is fitted with white metal valve seats, bakelite valves, double adjustable tangent and associated linkages and components. Delrin bushings with Buna rubber grommets seal each flag rod's passage through its valve table sleeve.

(3) The case cover, also die-cast aluminum, contains the inlet and outlet ports as well as a 3¼ inch square handhole plate.

The diaphragms are fabricated from a synthetic rubber material.


19
TYPE 250N
77
NATIONAL METER
BARCHARD ENGINEERING LTD.
CUBIC
FEET
CLASS 175 250



In temperature compensating meters, the fixed, double-adjustable tangent, is replaced by a bimetallic, temperature compensating tangent shown on illustration I.

During operation, the tangent stroke changes with flowing gas temperature in order to effect a volume registration continuously referrenced to 60° F base.

The standard and temperature compensating meters have the nameplate fixed to the space provided on the front of the top cover, as shown on illustration II for the standard meter. The nameplate of the temperature compensating meter has additional inscription "Temp. Comp. at 60° F Base".

The standard nameplate has black lettering on a silver background while the T.C nameplate has red lettering on a silver background.

Sealing Arrangement:

In order to accomplish effective sealing of the meter, holes shall be drilled through the heads of the following bolts for the passage of sealing wire (or approved equivalent);

(1) Two bolts in handhole plate
(2) Centre bolt holding top cover to meter body
(3) Two bolts holding register cover to meter body (either right or left side bolts can be used)

A lead sealing disc, or other approved seal, shall then be used to join the ends of the sealing wire.

Both meters are manufactured by National Meter Parts Inc. of Lancaster, Ohio, U.S.A. and will be exclusively distributed in Canada by Barchard Engineering Ltd.

Approval granted to: Barchard Engineering Ltd.
Edmonton, Alberta

Ref. G 6635-B821

D.L. Smith,
Chief,
Electricity and Gas Division.