



Department of consumer and corporate affairs / Ministère de la consommation et des corporations



STANDARDS BRANCH - DIRECTION DES NORMES

NOTICE OF APPROVAL

G-44

OTTAWA March 12, 1969.

SPRAGUE METER DIVISION, TYPES 400, 675 and 1,000
STANDARD POSITIVE DISPLACEMENT
GAS METERS

Apparatus

	<u>Type 400</u>	<u>Type 675</u>	<u>Type 1,000</u>
Badged capacity, cu. ft./hr (air)	320	540	800
Differential Pressure at badged capacity	0.5 w.g.	0.5 w.g.	0.5 w.g.
Capacity per revolution, cu. ft.	0.25	0.556	0.667
Maximum working pressure, psig	10	25	25
Diaphragm designation	G-5	G-5	G-5
Tangent to 5 cu. ft. test dial rev. ratio	20:1	N.A.	N.A.
Tangent to 10 cu. ft. test dial rev. ratio	N.A.	18:1	15:1
Meter connections, top	male 1½" or 1¼"	male 1½"	female 2"

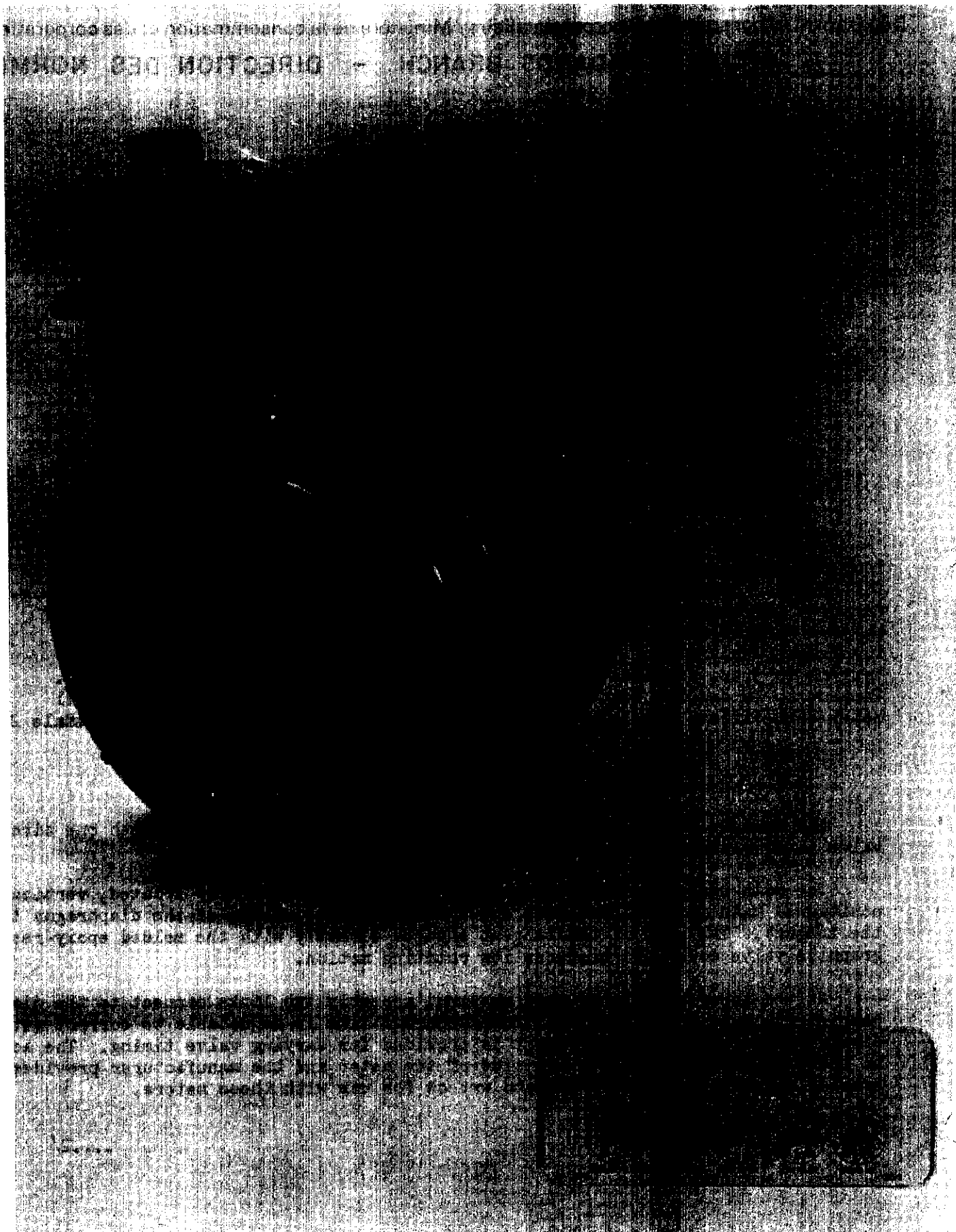
Description

The Sprague meters are of a unique, three-compartment design, with one circular valve cover rotating on a single, sectionalised valve seat.

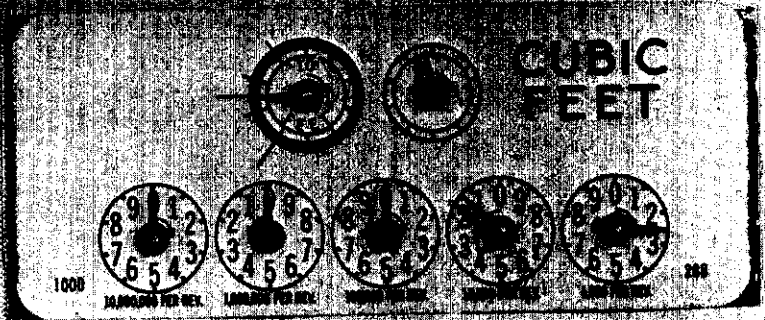
The main centre casting of the meter carries one centrally located, vertically positioned main movement assembly which transmits the motion of the diaphragms to the tangent. The post of the tangent engages directly with the molded epoxy-resinated graphite valve cover and produces its rotating motion.

At the lower end of the main movement assembly two links connect to the diaphragm carrier brackets. The length of one diaphragm link is adjustable to correct meter displacement. Separate adjustment is provided for varying valve timing. The access to these adjustments is from the side of the meter and the manufacturer provides a special adjustment screw finder and wrench for use with these meters.

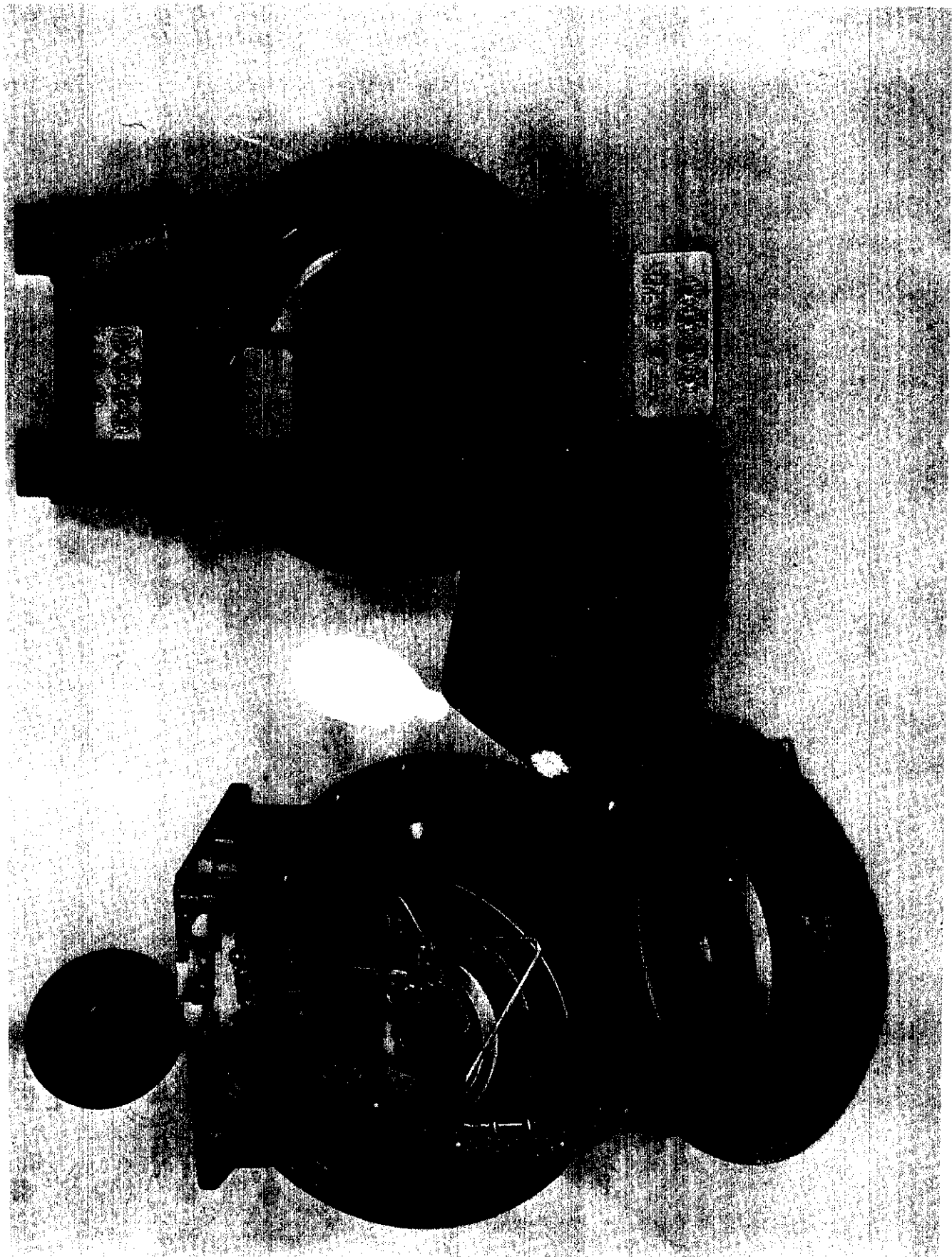
SPRAGUE METER DIVISION, TYPES 400, 675 and 1,000 STANDARD POSITIVE DISPLACEMENT GAS METERS



SPRAGUE METER DIVISION, TYPES 400, 675 and 1,000 STANDARD POSITIVE DISPLACEMENT GAS METERS



SPRAGUE METERS DIVISION, TYPES 400, 675⁻⁴⁻ and 1,000 STANDARD POSITIVE DISPLACEMENT GAS METERS



The diaphragms are held between the centre casting and its two covers, and they are supported by two carrier wires which attach, through suitable brackets, to the centre casting at one end, and to the diaphragm plates at the other.

The top casting of the meter, carries an index box assembly and two meter connections. A nylon worm and gear index driving movement transfers rotational motion from the valve cover to the meter index.

The three types of Sprague meters approved herein are made of cast aluminum and have the same design features, but different dimensions.

Each meter shall have a nameplate which contains the name of the manufacturer, meter's type designation, its rated capacity in cubic feet per revolution and cubic feet per hour, air at $\frac{1}{2}$ " W.C., meter's working pressure in psi and serial number of the meter.

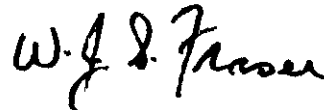
These higher capacity meters shall be sealed in the same manner as meters, types 175, 240 and 250 approved under Circular G-43.

Approval granted to:

Sprague Meter Division of
Textron Canada Ltd.,
Hamilton, Ontario.



J.S.T. Swanson,
Chief, Standards Laboratory,
Standards Branch.



W.J.S. Fraser,
Chief, Electricity and Gas Division,
Standards Branch.

Ref: SL-100-597G