



STANDARDS DIVISION

OTTAWA, November 4, 1952.

TYPE APPROVALFOXBORO TYPES "27" AND "28" FLOW METERS

The apparatus specified and illustrated herein has been duly approved by the Standards Division under the provisions of the Gas Inspection Act, Chapter 82, R.S. 1927, as amended, and may be admitted to verification in Canada.

Apparatus Approved: Types "27" and "28" Flow Meters, manufactured by The Foxboro Company Limited, Ville LaSalle, P.Q., and distributed in Canada by Peacock Brothers Limited, Montreal, P.Q.

Application: Measurement of fluids in conjunction with standard orifice plates and approved pressure gauges.

Rating of Apparatus:	<u>Type 27</u>	<u>Type 28</u>
Differential Ranges (inches of water)	10,20,50,80,100,150,200, 250,320,400,5-0-5,10-0-10, 25-0-25,50-0-50	50,100,200,320, 25-0-25,50-0-50
Working Pressure	up to 2000 p.s.i.	up to 2000 p.s.i.
Float Travel	0.957"	1.845"
Float Diameter	3.25"	3.25"
Mercury	8 pounds	13 pounds
Superseding	Type "17"	Type "8"

Description: As far as this approval is concerned, the type designations "27" and "28" refer to the differential element, the differential recording element and the associated chart driving mechanism. No static pressure element is included in the designation or is covered by this approval. However, the types "27" and "28" flow meters may be used in conjunction with any approved pressure element mounted in the same case or separately. The types "27" and "28" are of similar design except for the difference in float travel and the greater number of ranges available with the former. The differential element, which is the essential part of the meter, consists of two parts: the high pressure or float chamber and the low pressure chamber or range tube. To adapt the meter to a different range merely requires changing of the range tube. The motion of the float due to changes in differential are transmitted by a straight line motion mechanism to the pen. The chart is actuated by a spring-wound clock. Automatic check floats operate in both chambers to protect against loss of mercury. Also provided is a calibrated damping plug which is fitted at the bottom of the U joining both chambers. This adjustable device acts to damp out rapid fluctuations. Full rotation of the adjusting knob opens a drain port at the lowest point in the system.

The type "27" supersedes the type "17"; the type "28" supersedes the type "8".

R. W. MacLean
R. W. MacLean,
Director,
Standards Division.

Ref: A-259

E. F. Power
E. F. Power,
Assistant Director (E&G),
Standards Division.