



TRADE AND COMMERCE  
CANADA

SD-GA.137

## STANDARDS DIVISION

OTTAWA, April 18, 1958.

TYPE APPROVALFOXBORO TYPE 37 DIAPHRAGM RECORDING FLOWMETER

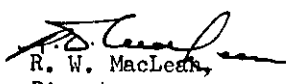
The apparatus specified and illustrated herein has been duly approved by the Standards Division under the provisions of the Gas Inspection Act, Chapter 129, R.S. 1952, and may be admitted to verification in Canada.

Apparatus Approved: Type 37 Diaphragm Recording Flowmeter, manufactured by the Foxboro Company Limited, Town of LaSalle, Montreal 32, Canada.

## Rating of Apparatus:

Differential Ranges ..... 20", 50", 100", 200" water gauge  
Working Pressure ..... up to 2000 p.s.i.  
Static Pressure Range ..... 0-4000 p.s.i.

Description: Type 37 Diaphragm Meter primarily refers to the differential unit. It consists of a high pressure chamber, a low pressure chamber, two liquid-filled diaphragms - one located in each chamber and interconnected with an adjustable passage, referred to as the damper - and a range spring and lever assembly to transmit the differential pressure to the pen linkage system for recording purposes. The linkage incorporates suitable calibration adjustments referred to as "zero", "multi-Span" and "angularity" adjustments. The liquid-filled diaphragm in the high pressure chamber includes a bimetallic temperature compensator which adjusts the capacity of the diaphragm assembly to the changing volume of the fill liquid resulting from any change in the ambient temperature. The adjustable damper permits damping of flow disturbances and pulsations. Both 1/4" and 1/2" NPT taps for the differential pressure piping are provided in the high and low pressure chambers. The range of the meter may be altered by changing the range spring which is located on the low pressure side. The type 37 diaphragm meter may be assembled with either a circular (UC-12) or a rectangular (UR-13C) case which may be yoke or flush mounted, and with either a mechanical spring-alarm clock or a synchronous electric chart drive. The static pressure unit included in this meter consists of a helical element which transmits the pressure variations into a recording pen movement through a suitable linkage system.

  
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