

The movement of the bellows is proportional to the differential pressure and is recorded on the chart.

A temperature compensator is attached to the high side bellows to compensate for changes in the volume of fill liquid resulting from ambient temperature variations from -20° to 175°F.

The bellows are protected against damage or distortion from over range by flat check valves. An externally-adjustable pulsation dampener is built into the meter body and is standard equipment.

Changing the range is quite simply done by changing the range spring. Removal of the low-pressure side cover of the differential cylinder gives access to the range spring assembly. Final calibration is made by adjusting the lever arm assembly connecting the range spring with the stuffing box shaft.

The "Slyphon" differential element may be associated with any approved pressure element to form a complete and approved orifice meter. American Water Company pressure elements approved to date per the "Instron" Bulletin for pressures up to 500 p.s.i. and air standards which qualify for pressure ranges 0-100 p.s.i. to 1000 p.s.i. (See Bulletin No. 33 of June 25, 1952.)

*E. F. Power*

E. F. Power,  
Assistant Director (ESG),  
Standards Division.

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