

bellows is transmitted to the recording mechanism by means of the torque-
tube assembly.

Dampening action is effected by the flow of the liquid from one
side of the central support plate to the other. The dampening is extarn-
ally adjustable.

When an excessive differential pressure is applied, liquid
transfer will continue until one of the valves mounted on the stem con-
necting the two bellows closes against its valve seat located on the
central plate. With this arrangement full line pressure may be imposed
across the bellows unit in either direction without damage, regardless
of the differential range of the instrument. The range of the unit may
be simply changed by changing the range spring assembly on the end of
the bellows valve stem.

The unit is temperature-compensated by means of an auxiliary,
free-floating bellows attached to one end of the main bellows and by
choosing a fill liquid with a low coefficient of thermal expansion. For
extreme temperature changes, bellows with special fill liquids may be
obtained. In addition, for increased accuracy special Iso-Elastic stain-
less steel range springs may be fitted.

The Model 202 Flow Meter combines the Model 199 Meter Body with a
rectangular die-cast aluminum case. Either spring-driven or electric chart
drives are available with chart speeds ranging from 96 seconds to 30 days.

The Model 208 Recorder is a multiple pen meter having two Model 199
Meter Bodies mounted on one case. This meter, which occupies essentially
the same volume as the Model 202, may be used to measure either two com-
pletely different flow rates or to measure a single flow over widely vary-
ing rates. In the latter instance, the two differential units are connected
in parallel and are calibrated to the minimum and maximum differential
ranges.

The Models 202 and 208 Recorders are also approved when fitted with
static pressure pens actuated by a brass, beryllium-copper or type 410
stainless steel pressure helix or when fitted with any other approved
static pressure device.

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