



- **Balanced Pressure Chambers**
- **Safe Against Pressure Surges**
- **Unbalanced Pressure Protection**
- **Accuracy Unaffected by Static Pressure Changes**
- **Calibrated to Read Both Rising and Falling Pressures**
- **Can be Calibrated to have a Center Zero Indicating Pointer**

## Applications

Differential Pressure Gauges are used to monitor the difference in pressure between two points. They can be used to monitor the condition of filters as when filters become contaminated the flow through the filter hence the pressure across the filter becomes less. They can be used to monitor the condition of boilers and pumps as the less efficient they become the pressure drop across them increases. They can even be used to measure flow through pipes, orifice plates etc.

The instrument can be fitted with a 'maximum finger' mounted on the window. This red 'slave pointer' is driven round the dial by the indicating pointer and remains to indicate the maximum differential pressure reached if the indicating pointer drops back with reducing differential.

## Specification

The two pressures are applied to either side of a spring diaphragm. The accuracy of these gauges does not vary with changes in line pressure because the two pressures act on opposite sides of the one element that has equal areas.

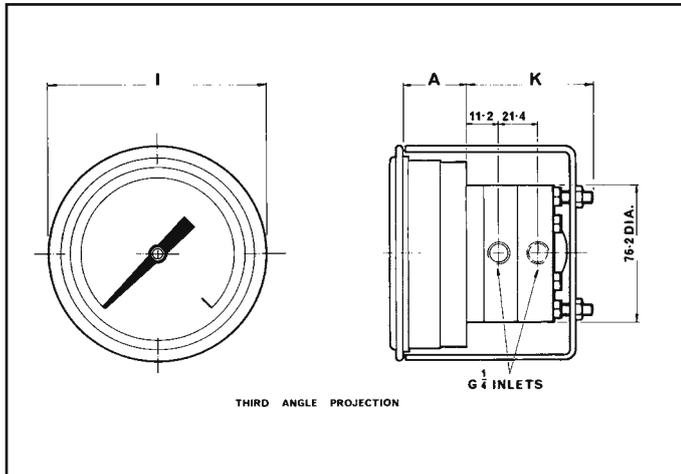
The diaphragm chamber is machined to restrict movement of the diaphragm under out-of-balance pressures greater than the maximum calibration of the gauge.

## Chemical Protection

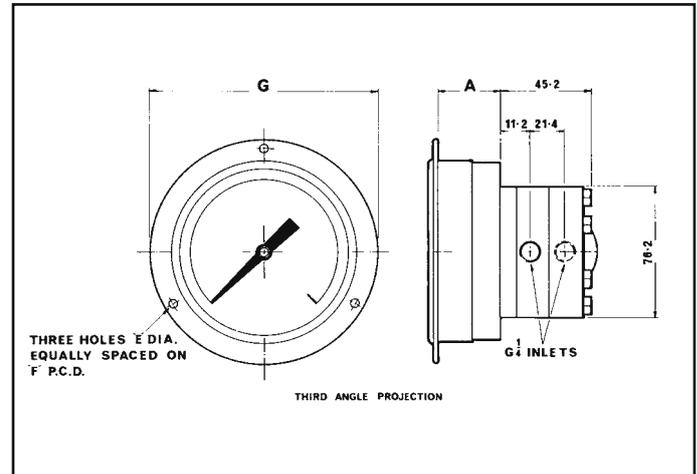
For aggressive chemicals both sides of the differential pressure gauges can be fitted with diaphragm seals which protect the gauges from chemical attack. (see page 12 for chemical compatibility charts)



## Type 91 Panel Mounting 3 Hole Fixing



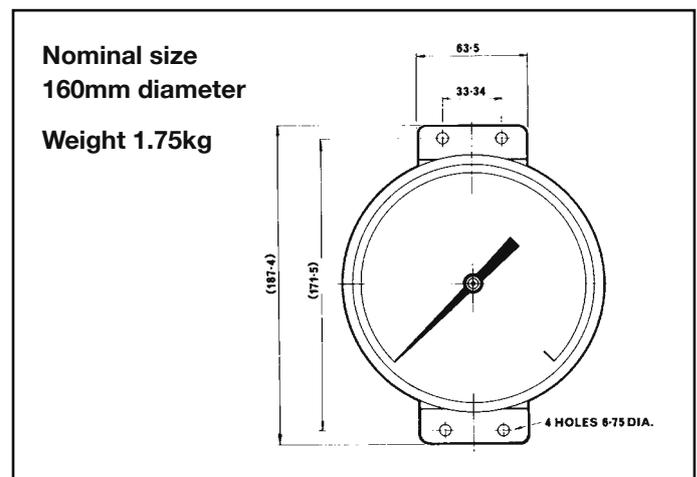
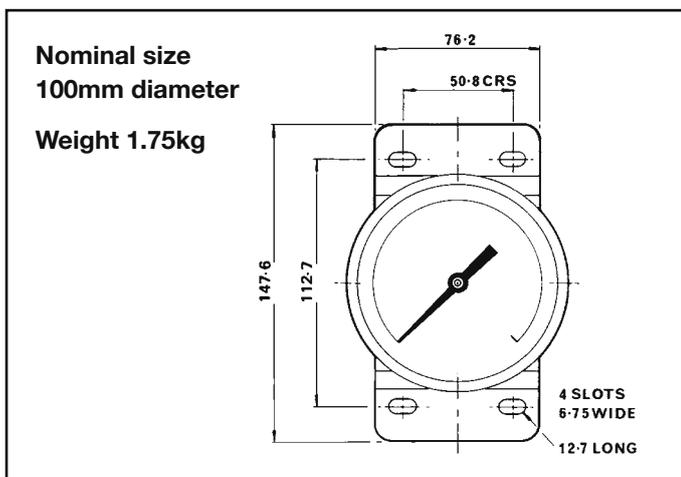
## Type 92 Panel Mounting Clamp Fixing



Nominal Size	A	E	F	G	I	K	No of Clamps	Panel Cut-out	Weight
80mm	21mm	4.8mm	94mm	102mm	95mm	70mm	1	86mm	1.1kg
100mm	27mm	5.2mm	121mm	134mm	118.4mm	70mm	1	112mm	1.8kg
160mm	36.5mm	5.2mm	175mm	184.2mm	169.1mm	45.2mm	3	165mm	1.8mm

Pressure Connections are at 3 o'clock and 9 o'clock when viewed from the front of the gauge the high pressure port is on the left side of the gauge and the low pressure port is on the right side of the gauge

## Type 93 Direct Mounting with optional wall fixing brackets attached



For Type 93 all other dimensions are as for Type 91 above except that the panel mounting bezel is replaced by a plain bezel.