Diaphragm Sensing Pressure Gauges

Diaphragm sensing pressure gauges are generally used for low pressures where bourdon is insensitive. The sensing element is diaphragm which is connected to movement assembly through a 'ball & socket' arrangement. Pressure is transmitted through the diaphragm to transmission shaft. Irrecoverable accuracy loss is due to too many mechanical linkages thereby leading to an accuracy of ±2% FSD (±1.6% FSD can however be offered on request). Coincidently constructioin isolates the process as well. Screwed or flanged process connection can be offered. Lowest span of 250mm WC is possible.

Specifications

Dial	: 100/150mm, aluminium , black marking on white background
Case	: Diecast aluminium with screwed bezel / SS304, SS316 with bayonet bezel
Protection	: IP-67 (IS : 13947 part I)
Top Flange	: CS/SS304/SS316
Diaphragm	: SS316, PTFE lined SS316 (other material optionally)
Bottom flange	: SS304/SS316, SS316 + PTFE Block, PTFE lined SS316 (other material optionally)
Connection	: 1/2" NPT (M) or flanged (specify size & rating)
Range	: Refer table - 2
Accuracy	: ±2% FSD (1.6% FSD on request)
Overrange	: 130% FSD
Zero adjustment	: Micrometer pointer
Blow out disc	: Provided
Optional	: 1) Flushing connection on the bottom flange to facilitate cleaning 2) Glycerine filled SS304 or SS316 case 3) Solid front SS304 or SS316 case
Note	: 1) PTFE block construction possible in flange connection alone. 2) Flushing connection on PTFE lined (or SS316 + PTFE block) bottom flange not possible.

Table 2

0-400 mm WC	(-) 400 to 0 mm WC
0-600 mm WC	(-) 600 to 0 mm WC
0-1000 mm WC	(-) 1000 to 0 mm WC
0-1600 mm WC	(-) 1600 to 0 mm WC
0-2500 mm WC	(-) 2500 to 0 mm WC
0-4000 mm WC	(-) 4000 to 0 mm WC
0-6000 mm WC	(-) 6000 to 0 mm WC
0-1.0 Bar or 0-10000 mm WC	0 - 250 mm WC

Special : Combination for compound ranges available.

Under Technical Collaboration with M/s. Gauges Bourdon, U.K.