

DIFFERENTIAL PRESSURE GAUGES WITH MAGNETIC PISTON

172 series

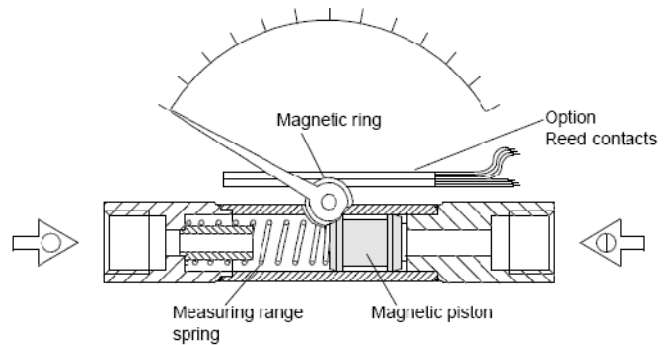
APPLICATIONS

Used with all liquid and gas process media, provided that these do not corrode stainless steel, do not crystallize and are not highly viscous, moreover, they must not contain magnetic material. Particularly used in filter plants, pipeline systems, monitoring of pumps and cooling circuits.



DESCRIPTION

Pressure p_1 and p_2 are given in the (+) and (-) measuring medium chambers separated by magnetic piston. The differential pressure causes axial movement of the piston supported by a measuring range spring. A magnetic ring mounted on the instrument pointer follows the movement of the magnetic piston so that each piston position is appropriated to a defined pointer position. This design ensures mechanical separation of the measuring system and the case, and eliminates external leakage. The volume flow from (+) to (-) media chambers is minimized by the constructive design and will not interfere with the process. For applications for heavily contaminated media, a "separation diaphragm" assembled on (+) side is suitable and this appliance isolates completely the volume flow from (+) to (-) media chambers.



SPECIFICATIONS

Dial diameter Ø	3" (80mm)
Case	Die-casting aluminum, IP54
Lens	Acrylic, snap-in
Dial	Aluminum, black and red markings on white background
Measuring principle	Magnetic piston & compression spring, stainless steel 316 and ferrite
Movement	Stainless steel
Pointer	Aluminum, black
Connection	Female thread 1/4" PT(BSPT) / NPT / PF(BSP), stainless steel 316 other thread size available made-to-order
Accuracy	±3% F.S. ; ±5% F.S. if separation diaphragm assembled
Temperature limits	medium +100°C ; ambient 0 to 60°C
Static Pressure	100 kg/cm ² (bar)
Ranges	0 / 1 ~ 0 / 10 kg/cm ² (bar) < other units available >
Optional extras	Reed contacts Separation diaphragm assembled on (+) side

HOW TO ORDER (Please specify additionally the special custom-made specifications or option items)

