INSTONNIC

THE FIELD INSTRUMENTATION PEOPLE

DPG- 50 / 200

Piston Instruments

TECHNICAL DATA (MODEL DPG)

Ranges	: 0-0.25 to 0-10 bar
Units of calibration	: Kg/cm^2 , kPa, bar, mbar, psi.
Operating principle	: Magnetic coupling using piston & spring.
Working pressure	: 50bar /750psi & 200 bar / 3000 psi for Aluminum & 400 bar / 6000 psi for SS-316
Accuracy	: ± 2 % of FSD (Ascending)
Dial sizes	: 4"(100mm), 4.5"(115mm), & 6" (150mm)
Body Material	: Aluminum & SS-316,
Temperature	: 80°C Max. for the media.
Protection	: IP 65 for gauge.
Migration of media	: Marginal
Connections	: ¼" NPT(F) or ¼" BSP(F) (
Wetted parts	: Body material, PTFE, SS 302 spring, screw, and ceramic magnet.
Seals	: Buna-N (Standard), Viton
Porting	: In-line, Bottom, or Back
Switch	: SPST or SPDT, one or two. Switches are field adjustable. The set points can be increased or decreased externally with simple screwdriver adjustments. When two switches are used, either switch can be adjusted independently.
Dial case	: Stainless steel case
Window	: Glass (Standard) Acrylic, Toughened glass on request.
Mounting	: Direct, front panel flange, 2" pipe mounting.
Other options	: Glycerine filling, red resettable follower pointer,dual scale, strainer in (+) connection, dual scale.(on request,longer lead time)

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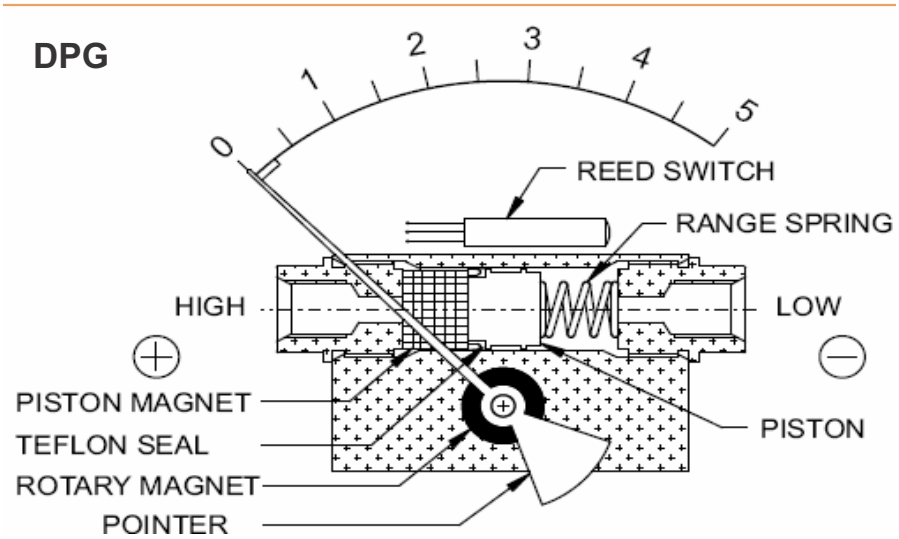
APPLICATIONS :

Filters, Hydraulic systems, Water treatment plants, Chemical plants, Natural gas processing, Heat exchangers, Gasoline / Diesel engine filters, Pumps and Valves, Compressors.



OPERATING PRINCIPLE

High and Low pressures are separated by a sensor assembly consisting of a magnet, piston, Teflon seal and a range spring. The difference in pressure causes the sensor assembly to move in proportion to the change against a range spring. A rotary magnet, located in a separate body cavity and isolated from the acting pressures, is rotated by magnetic coupling as per the linear movement of the sensor assembly. A pointer attached to the rotary magnet indicates differential pressure on the dial.

Switch : Reed switches are located adjacent to the pressure chamber and are activated by the magnetic field of the sensor assembly.

Product & Concept
By

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GF - 23, Windsor Plaza,
R. C. Dutt Road, Alkapuri,
Vadodara - 390 007.
Phone : (0265) 6541678,
Telefax : (0265) 2323684
Mobile : 093762 20417
E-mail : contact@instonnic.com
instonnic@gmail.com