INSTALLATION INSTRUCTIONS

Model 500 DPG

PISTON INSTRUMENTS

DIFFERENTIAL PRESSURE INSTRUMENTS

For efficient working of your instrument, please read all instructions carefully before attempting to install.

CAUTION: Do not exceed maximum operating pressure given on the instrument label.

Check fluid compatibility with wetted parts before use.

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 compartment 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.

Note: The instruments are calibrated to give \pm 3% full scale accuracy on ascending readings.

INSTALLATION

For better performance the instrument should be mounted horizontally by keeping the dial vertical.

Depressurize the system and connect the high and low pressure lines of your system to the "High" \oplus & "Low" \ominus ports of the instrument, respectively.

It is recommended to use "O" rings with male connectors to avoid excessive tightening and to prevent leakage (For parallel threads). The instrument is now ready for operation.

Apply "High" and "Low" pressures simultaneously, to avoid damage to the internal parts.

Model 500 DPG consists of a piston type mechanism to sense the pressure difference. It can withstand maximum operating pressure up to 200 bar for all ranges. If pressure exceeds the rated maximum pressure, "O" rings used on male connectors, and the Teflon seal inside the pressure chamber, will be damaged. If maximum operating pressure is within the allowable limit of 200 bar, but the differential pressure exceeds instrument range, there will be no damage to the gauge. Pointer will only go the extreme right end of the scale.

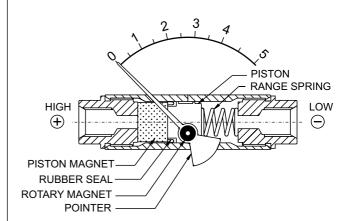
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PRECAUTIONS

Do not connect "High" and "Low" ports to wrong pipe ends. Do not subject the instrument to excessive vibration.

The instrument is never to be used in an area where a magnetic field is present. It may show wrong readings.

As the instrument works on magnetic coupling, use only non magnetic fittings, parts etc. in areas closer than 50 mm on all sides, Otherwise calibration will get effected. Panel mounted instruments should be installed in non-ferrous panel material. However instruments with 2" and 2.5" dials, mounted in steel panels, may require pointer adjustment. This is done by the manufacturer.

Do not try to open any part of the instrument for any reason, because if not reassembled properly calibration will be affected.

Form MKT:035/Ver 0 Page 1 of 1