The Series CLG Cryogenic Level Gage uses a flexible elastomer diaphragm design that provides a simple, accurate, direct acting, low range differential pressure indicator. The CLG is a dry gage, as opposed to liquid filled models which may be damaged or lose accuracy from expansion or contraction when exposed to temperature shocks, typical in cryogenic applications. The Series CLG is available with an aluminum, brass, or stainless steel body, and is perfect for liquid level, line loss, and valve drop applications.

A flexible elastomer diaphragm and calibrated range spring are moved by differential pressure. A pair of magnets, coupled with the diaphragm, transmit this motion through the wall of the pressure housing to a follower magnet attached to an indicating pointer. The rotation of the follower magnet causes the pointer to track the movement of the internal magnet and indicate the differential on the dial scale.

INSTALLATION
The Series CLG is ready for immediate installation upon receipt. Use of the following installation procedures should eliminate potential damage and provide optimum trouble-free operation.

Process Connections: 1/4" female NPT are the standard pressure connections for the Series CLG. There are two connections on the housing identified as "hi" and "lo" for high pressure and low pressure, respectively. Be sure these pressure connections get plumbed to the proper connections on your system. Improper connection will not damage the instrument, but it will not function properly. Flexible tubing is recommended to minimize the effect of possible vibration.

Instrument Position: On liquid service, the CLG dial should be mounted below the process connections to facilitate self-bleeding. On gas service, the dial should be mounted above the process connections to facilitate self-draining. If the process contains particulate, a "pigtail" loop or drop leg in the tubing will minimize the possibility of the particulate migrating into the instrument.

SPECIFICATIONS
Service: Compatible gases and liquids.
Wetted Parts: 316SS, Fluoroelastomer (FKM).
Pressure Limits:
Brass body: 1500 psi (103 bar).
Aluminum/SS body: 3000 psi (207 bar).
Temperature Limits: -40°F (-40°C) to 200°F (93°C).
Accuracy: ±3-2-3%.
Size: 6" (150 mm) dial face.
Process Connections: 1/4" female NPT back connections.
Weight: 6.5 lbs (2.95 kg).
Agency Approvals: CE.

CAUTION: Due to the magnetic nature of the dial control of the CLG, be sure not to install the gage in a high magnetic/electromagnetic environment, i.e. close proximity to high current power lines.

MAINTENANCE
Upon final installation of the Series CLG Cryogenic Level Gage, no routine maintenance is required. A periodic check of system calibration is recommended. The Series CLG is not field serviceable and should be returned if repair is needed (field repair should not be attempted and may void warranty). Be sure to include a brief description of the problem plus any relevant application notes. Contact customer service to receive a return goods authorization number before shipping.