



**ROCHESTER
GAUGES, INC.**

1" Magnetic Liquid-Level Gauges For LP Gas Service

B8900

ISO 9001:2008 CERTIFIED

Application

Gauging LP Gas levels in ASME tanks and DOT Cylinders.

General Information & Features

This series of 1" NPTF Junior gauges is available with forged brass head.

Now with R³D[®].

The Rochester Remote Ready Dial, R³D[®], is a magnetically-driven, Hall Effect compatible dial. Dials are utilized on stationary applications where direct reading plus an electrical signal to a remote fuel level monitor may be required.

Rochester's Hall Effect Module is designed to snap-fit into the recess in the Remote Ready Dial lens. Once installed, the module can provide ratiometric voltage output proportional to the liquid volume inside the tank.

Model Selection Chart

Model	Head Material	Mounting	Dial Type
B8981	Brass	Top	R ³ D [®] Direct Read, Screw-on
B8981-02000			R ³ D [®] Direct Read, Snap-on



**1" Magnetic Liquid-Level
Gauges For LP Gas Service**

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See reverse side for dimensional data, materials of construction, performance, and advice on how to order.

The Measure of Excellence

B8900

1" Magnetic Liquid-Level Gauges For LP Gas Service

General Specifications*

Temperature Range

Extremes are -40°F to 158°F, -40°C to 70°C.

Working pressure

375 psig [25, 8 Bar].

Accuracy

Accuracy depends upon proper gauge sizing and is typically $\pm 5\%$ of R3D® dial indication. Accuracy may be less due to variations in liquid temperature. Accuracy may be less for some tank shapes and sizes. Accuracy may be less if tank is not level. Accuracy may be less near empty and full. This gauge is not to be used for filling. R3D® dial output voltage is typically $\pm 4\%$ of indicated reading. All accuracy estimates are percent of full scale.

Approvals

Gauge is UL listed for LP Gas service applications.

R³D® Module is UL Classified as intrinsically safe.

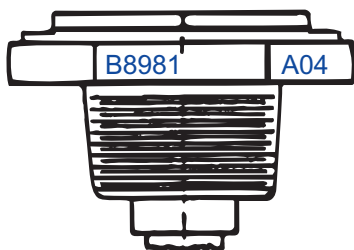
When ordering, specify:

1. Specify tank diameter (shown on tank nameplate).
2. Specify the gauge mounting location.
3. State the type of cylinder, horizontal or vertical.
4. Specify the "H" dimension. This is the distance in inches from the surface of the tank to the top of the threaded opening.

To order replacement gauge, simply furnish the information stamped on the hex wrenching flats, as shown in the example.

Note: For installation instructions see DS-629.

For threaded gauge installation instructions see MS-516.



**Typical 1" gauge
Model B8900**

Dials are attached to head with two screws.

Materials of Construction*

Head

Brass forging.

Centershaft Bearings, Pinion Gear, Cross Stud & Bearing, Sector Gear

Stainless steel.

Gear Housing

Acetal.

Support, Centershaft, & Float Rod

Tempered aluminum.

Float

Nitrile rubber.

Counterweight

Lead.

Magnet

Neo.

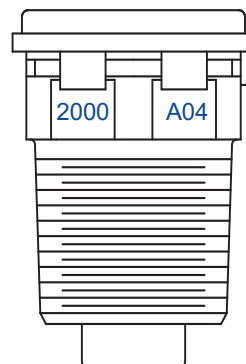
Direct Reading Dials

Hermetically sealed polycarbonate.

R³D® Direct Reading Dial

Hermetically sealed polycarbonate.

* Materials and specifications are subject to change without notice.
Pressure ratings subject to change due to temperature and other environmental considerations.



**Typical 1" Snap-on gauge head
Model B8900-02000**

Snap-On dials are attached to groove or recesses in head.