



## Magnetic Liquid-Level Gauges

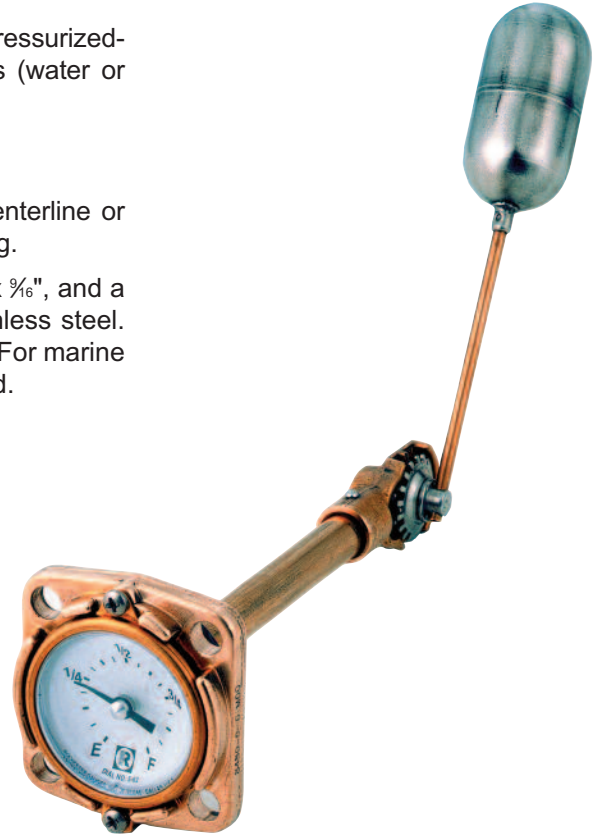
### Application

The 8400 Series Senior gauges were specially designed for hot and/or pressurized-water service on dishwashers, boilers, engine radiators, marine vessels (water or fuel), and fire trucks.

### General Information & Features

The 8400 Series gauges are available in gear-action models for top, centerline or angle mounting. Lever-action models are available for centerline mounting.

These gauges are mounted by using four #0040-00424 bolts,  $\frac{5}{16}$ " — 24 x  $\frac{5}{16}$ ", and a UL recognized #0015-00004 Buna-N gasket. The standard float is stainless steel. Nitrile rubber or an FDA approved polypropylene float are also available. For marine applications, #0040-00478 stainless-steel mounting bolts should be used.

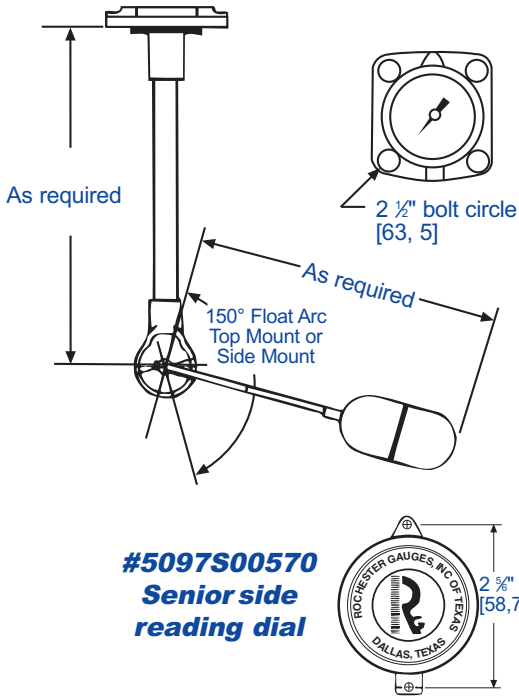


Model #	Action	Mounting	Dial, Sender or Switch Data
8450	Gear	Top	Standard switch #5023S00778 S.P.S.T., 150 VAC/50 VDC ½ Amp. Please furnish tank drawings and switch points so proper gauge and calibration can be supplied. Other switches available, see DS-364.
8453		C/L or Angle	
L8453	Lever	C/L	
8460	Gear	Top	#5097S00570 Senior side-reading fractional dial
8480		C/L or Angle	#5141S00062 Senior direct-reading fractional
8483		C/L or Angle	
L8483	Lever	C/L	#5141S00872 Senior direct-reading fractional

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

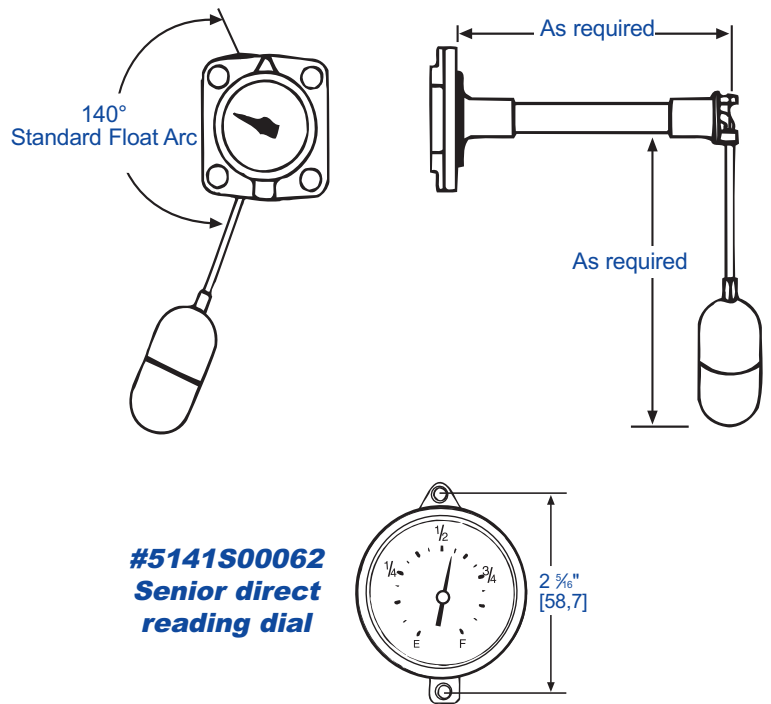
*The Measure of Excellence*

**Gear-Action Gauge**



**#5097S00570**  
**Senior side**  
**reading dial**

**Lever-Action Gauge**



**#5141S00062**  
**Senior direct**  
**reading dial**

**General Specifications\***

**Dial Data**

Dials & senders are hermetically sealed & tested in 8" Hg vacuum.

**Accuracy**

Accuracy depends upon proper gauge sizing and is typically  $\pm 6\%$  of dial indication. Accuracy may be less for some tank shapes and sizes. Accuracy may be less near full and empty. Accuracy may be less if tank is not level. This gauge is not to be used for filling. All accuracy estimates are expressed as a percent of full scale.

**Temperature Range**

Standard is  $-40^{\circ}\text{F}$  to  $212^{\circ}\text{F}$ ,  $-40^{\circ}\text{C}$  to  $100^{\circ}\text{C}$  with optional stainless steel mounting bolts which maybe required for temperatures below  $-20^{\circ}\text{F}$ ,  $-29^{\circ}\text{C}$ . Higher ratings and special construction available for coolant service.

**Humidity**

Exposed portion is suitable for high humidity and marine applications, if optional stainless steel mounting bolts are specified.

**Shock**

Suitable for mobile applications.

**Vibration**

Suitable for mobile applications.

**Tank Pressure**

0 to 250 psig [0 to 17 Bar].

**Approvals**

Some models are UL recognized for marine service applications.

Note: For installation instructions see MS-501/502 (mounting standard).  
For refrigerant service applications see HM8443.

**Materials of Construction\***

**Head & Gear Housing**

Brass forging.

**Centershaft, Support Tube & Float Rod**

Brass.

**Gears, Cross Stud, Float & Bearings**

Stainless steel.

**Drive Magnet**

Plated Alnico.

**Gasket**

Buna-N, 0015-00004.

**Direct-Reading Dial**

Aluminum with acrylic crystal and brass bezel.

**Side-Reading Dial**

Aluminum with polycarbonate crystal and brass bezel.

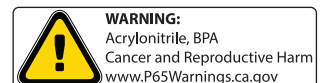
**Mounting Bolts**

Zinc-plated steel. (Stainless steel optional.)

**When ordering, specify:**

1. Gauge model number.
2. Tank diameter and riser height.
3. Mounting location.
4. Any listed options.

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



05/22/2018