



ISO 9001:2008 CERTIFIED



## 8700 Series Five Bolt Gauge Installation

MS-533  
Formerly  
MS-514

### **READ COMPLETELY BEFORE ATTEMPTING INSTALLATION\***

**WARNING:** Improper installation or use of this product may cause serious injury or property damage.

**These instructions are prepared to assist tradesmen and others generally familiar with liquid storage tank equipment. Most consumers are not qualified to perform the installation described below. If you have any questions concerning installation or operation of the sender or gauge, contact Rochester Gauges, Inc. or one of our authorized distributors for assistance.**

#### **TOP MOUNTED SENDERS**

Install sender or gauge using 0015-00716 Buna'N gasket. Use #10-32 UNF (or equivalent) screws to secure the gauge head to the tank or gauge mounting pad. Torque screws to 10 in. lbs. torque, except for black plastic gauge heads, use 10 in. lbs. torque. For the most consistent results, torque using calibrated torque application device.

#### **SIDE OR BOTTOM MOUNTED SENDERS**

Install sender or gauge using 0015-00716 Buna'N gasket. Use #10-32 UNC (or equivalent) screws to secure the gauge head to the gauge mounting pad. See DS-1799 for mounting pad details.

**CAUTION:** To prevent leakage at the mounting screws, one or more of the following options must be utilized:

- A. Use mounting pad with blind screw holes.
- B. Use screws with integral O-Ring seals under the heads.

Torque mounting screws to 10 in. lbs. torque except for black plastic gauge heads, see DS-1799. Torque must be applied using calibrated and certified torque application device.

#### **MAINTENANCE AND QUALITY ASSURANCE CONSIDERATIONS**

For Quality Assurance applications, installation torque should be controlled at initial installation and application of torque using a calibrated torque device. Regularly verify the calibration and functional condition of the torque application device. Since this is not a metal to metal joint, the torque and screw clamp load will naturally relax as the gasket flows to a normal condition. Do not use a torque wrench to verify the correct screw installation torque after the initial installation. Never re-torque just to restore to 10 in. lbs.

**CAUTION:** Do not over torque. Do not re-torque later unless leaking. Excessive torque/or re-torquing will warp or distort the gauge head. The gaskets underneath gauge heads that are warped during installation or re-torquing are probably over-compressed or pinched in at least one area. Pinching or over-compression of gaskets can dramatically reduce their service-life and may result in failure (leakage) in service, especially after exposure to temperature and vibration.

#### **GENERAL RECOMMENDATIONS**

For critical applications, installation should be specifically engineered for your application. Use of safety wires on the screw heads is usually recommended.

#### **SENDER ELECTRICAL CONNECTIONS**

System voltage should not be applied to the Sender output terminal or lead.

#### **SENDER AND GAUGE REMOVAL WARNING:**

Should it appear necessary, for any reason, to remove the gauge from the tank, do not attempt removal unless under competent supervision with all due precautions taken against the hazards of escaping liquid or vapor.

\* Materials and specifications are subject to change without notice.

8700 Series Five Bolt Gauge Installation

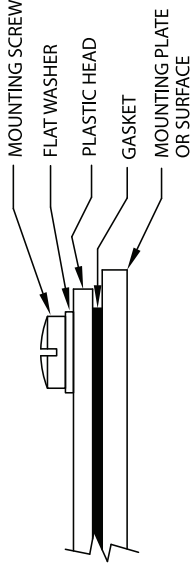
05/12/2016

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

The Measure of Excellence

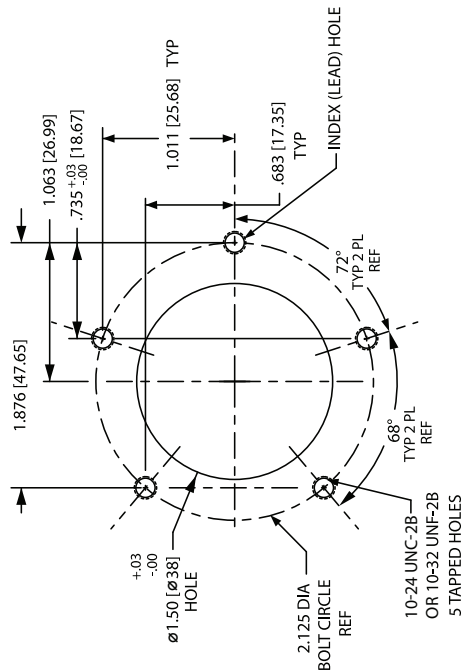
DRAWING NUMBER  
DS-1799

INSTALLATION INSTRUCTIONS FOR GAUGES EQUIPPED WITH PLASTIC HEADS AS USED ON 8700 SERIES.



1. FLAT WASHER IS REQUIRED.
2. TORQUE IN CROSSING PATTERN.
3. OVER TORQUING OR PLACING A LOCK-WASHER AGAINST THE PLASTIC HEAD MAY CAUSE STRESS CRACKING AFTER UNIT IS PUT INTO SERVICE.
4. 8700 SERIES:  
TORQUE TO APPROXIMATELY 10 IN. LBS.
5. FOR BEST RESULTS USE A CALIBRATED TORQUING DEVICE.

SEE MS-514 FOR 5 BOLT HOLE GAUGES



LET	REVISIONS	E.R.#	DATE	LET	REVISIONS	E.R.#	DATE	LET	REVISIONS	E.R.#	DATE
TOLERANCES NOT SHOWN	.DD ±.015	.DDD ±.005		DO NOT SCALE DRAWING	SCALE NONE			CHK.	REVISIONS		
ANGLES	±1°			SUPERSEDES	DATE				E.R.#		
MAT'L: COMMERCIAL TOLERANCES				PART NAME	INSTALLATION INSTRUCTIONS			USED ON			
<b>ROCHESTER GAUGES, INC.,</b> DALLAS, TEXAS, U.S.A.											DRAWING NUMBER DS-1799

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