

(Black Plastic 4 Bolt Gauge)

ISO 9001:2008 CERTIFIED

MS-530 (Mounting Standard)

500 Series

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 0015-00004 Buna'N gasket. Use 1/4 - 28 UNF (or equivalent) bolts to secure the gauge head to the tank or gauge mounting pad. Torque bolts to 20 in. lbs. torque. For the most consistent results, torque using calibrated torque application device.

SIDE OR BOTTOM MOUNTED SENDERS

Must not be used on tanks containing flammable liquids. See 8500 Series technical data sheet for intended applications.

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 20 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.

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.

05/27/2016

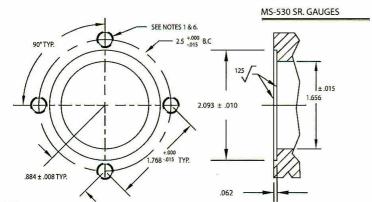
^{*} Materials and specifications are subject to change without notice.

MANTENANCE 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 TOROUE APPLICATION DEVICE. SINCE THIS IS NOT A METAL TO METAL JOINT, THE TORQUE AND BOLT CLAMP LOAD WILL NATURALLY RELAX AS THE GASKET FLOWS TO A NORMAL CONDITION. DO NOT USE A TORQUE WRENCH TO VERIFY THE CORRECT BOLT INSTALLATION TORQUE AFTER THE INITIAL INSTALLATION. NEVER RE-TORQUE JUST TO RESTORE TO 20 IN-LBS.

CAUTION:

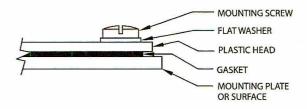
DO NOT OVER TORQUE. DO NOT RE-TORQUE LATER UNLESS LEAKING. EXCESSIVE TORQUE/OR RE-TORQUING WILL WARP OR DISTORT THE GAUGE HEAD. THE GASKETS UNDERNEATH GAUGE HEADS THAT ARE WARPED DURING INSTALLATION OR RE-TORQUING ARE PROBABLY OVER-COMPRESSED OR PINCHED IN AT LEAST ONE AREA. PINCHING OR OVER-COMPRESSION OF GASKETS CAN DRAMATICALLY REDUCE THEIR SERVICE-LIFE AND MAY RESULT IN FAILURE (LEAKAGE) IN SERVICE, ESPECIALLY AFTER EXPOSURE TO TEMPERATURE AND VIBRATION.



DRAWING NUMBER

DS-1785

INSTALLATION INSTRUCTIONS FOR GAUGES EQUIPPED WITH PLASTIC HEADS AS USED ON 8500 SERIES.



- 1. FLAT WASHER IS REQUIRED.
- 2. TOROUE IN CROSSING PATTERN.
- 3. OVER TOROUING OR PLACING A LOCK-WASHER AGAINST THE PLASTIC HEAD MAY CAUSE STRESS CRACKING AFTER UNIT IS PUT INTO SERVICE.
- 4. TOROUE TO APPROXIMATELY 20 IN. LBS.
- 5. FOR BEST RESULTS USE A CALIBRATED TOROUING DEVICE.

- 1. DRILL 5.5MM [.216/.221] DIA. X 3/4" +0/-1/16" CYL. DEPTH. TAP 1/4-28 NF-2 X 1/2 +1/16/-0 FULL TH'D DEPTH, TYP, 4 PLCS.
- 2. DRILL LETTER I [.272/.279] DIA. X 3/4" +0/-1/16 CYL. DEPTH. TAP 5/16-24 NF-2 X 1/2" +1/16/-0 FULL TH'D DEPTH, TYP. 4 PLCS.
- 3. TAPPED HOLES TO BE __ TO FACE WITHIN 1/2°.
- 4. GASKET RECESS TO BE @ TO BORE WITHIN .030 T.I.R.
- 5. TAPPED HOLES TO BE @ TO GASKET RECESS WITHIN .025 T.I.R.
- 6. ALL SR. GAUGES REQUIRE THE 2-1/2" B.C. AND GASKET RECESS, BUT SOME SR. GAUGES USE 5/16-24 TAPPED HOLES INSTEAD OF THE 1/4-28 HOLES. (REF: NOTES 1 & 2).

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ROCHESTER GAUGES, INC., OF TEXAS DALLAS, TEXAS, U.S.A.						SCALE NONE	2000	ATE P/ 2/16	PART NAME INSTALLATION INSTRUCTIONS				DRAWING NU	IMBER DS-1785	