

## **Installation**

Prior to installing a strainer into a pressurized piping system, the following steps should be taken to ensure safe installation and operation.

1. Verify strainer part and model number, codes, and pressure and temperature ratings on strainer nameplate. Compare paperwork to the original purchase order to verify that the correct strainer is being installed.
2. Before installation, inspect the following:
  - a. Inspect flange raised face for damage. If scratches or dents appear in gasket seating area which will impair gasket sealing, repair surface before installation. Protect raised face surface from corrosion.
  - b. Inspect all attached threaded components such as tube fittings, nipples, valves, or plugs to ensure a leak-tight seal.
  - c. Inspect closure for proper leak-tight seal. Refer to the appropriate closure I/O instructions.
3. Do not allow the weight of the strainer to rest on gauges, tubing, valves, or fittings attached to the strainer body.
4. Do not move or lift strainer by attaching straps, cables, or slings around gauges, tubing, valves, fittings, closure handles, davits, or air relief devices.

Lift or move strainer by attaching lifting devices around strainer body or nozzles, away from components which may be damaged.
5. Do not stand strainer on either the inlet or outlet flange without protection between flange raised face and resting surface.
6. When bolting strainer into piping system, use a staggered tightening sequence.
7. Do not attach clips, walkways, ladders, or other items to the strainer body or nozzles by bolting or welding which will impose additional stresses on or impair the pressure vessel integrity of the strainer.

## **Operation**

1. Before pressurizing the strainer, read and understand all installation, operation, and maintenance bulletins for gauges, closures, pressure relief valves, and air release valves provided with the strainer.
2. Most strainers are purchased with a 10 mesh or finer start-up liner to remove debris encountered in the start-up of a new line. Once the line has been cleared of debris smaller than the basket perforations, the liner may be removed to reduce pressure drop. A strainer used in a metering line protects the meter from costly damage and must never operate without a basket.
3. A strainer basket must be cleaned when it creates a 30 psig differential across itself. Use of a differential pressure gauge or two pressure gauges, one on each nozzle, will indicate when the basket should be cleaned.
4. Before attempting to remove a strainer basket from the strainer body, internal pressure must be completely relieved. As a safety feature, quick closures are designed to relieve internal pressure before they can be opened, but internal pressure must be relieved by isolating the strainer from line pressure and either opening the drain valve or other relief valve rather than relying on the closure's pressure relief mechanism.

Follow closure manufacturer procedures for opening and closing quick closures.

## **Related Publications**

The following manufacturer manuals are available - consult factory.

Huber Swing Bolt Closures .....	MN03018A1
Huber-Yale Threaded Closures .....	MN03018A2
Mid-West Instrument Model 120	
Differential Pressure Switch .....	MN03018A3
Tube Turns Inc. Yoke-Type	
Hinged Closures .....	MN03018A4

The specifications contained herein are subject to change without notice and any user of said specifications should verify from the manufacturer that the specifications are currently in effect. Otherwise, the manufacturer assumes no responsibility for the use of specifications which may have been changed and are no longer in effect.

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**Headquarters:**

1803 Gears Road, Houston, TX 77067 USA, Phone: 281/260-2190, Fax: 281/260-2191

**Gas Measurement Products:**

**Erie, PA USA** Phone 814/898-5000

**Thetford, England** Phone (44) 1842-82-2900

**Kongsberg, Norway** Phone (47) 32/286-700

**Buenos Aires, Argentina** Phone 54 (11) 4312-4736

**Integrated Measurement Systems:**

**Corpus Christi, TX USA** Phone 361/289-3400

**Kongsberg, Norway** Phone (47) 32/286-700

**San Juan, Puerto Rico** Phone 787/274-3760

**United Arab Emirates, Dubai** Phone 971 +4/331-3646

**Liquid Measurement Products:**

**Erie, PA USA** Phone 814/898-5000

**Los Angeles, CA USA** Phone 661/702-8660

**Slough, England** Phone (44) 1753-57-1515

**Ellerbek, Germany** Phone (49) 4101-3040

**Barcelona, Spain** Phone (34) 93/201-0989

**Moscow, Russia** Phone (7) 495/564-8705

**Melbourne, Australia** Phone (61) 3/9807-2818

**Beijing, China** Phone (86) 10/6500-2251

**Singapore** Phone (65) 6861-3011

**Chennai, India** Phone (91) 44/450-4400

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