

## Instruction Sheet

PN 51A-PRES/rev.A

February 2004

# Pressurized Mounting Assembly

## SPECIFICATIONS

**Wetted Parts:** Stainless Steel (type AISI-ASTM 316 Ti; B.S. 320 S17) and Viton<sup>1</sup>

**Maximum Temperature:** 130°C (266°F)

**Maximum Pressure:** 72 psig (600 kPa, 6 bar)

<sup>1</sup> Viton is a registered trademark of E.I. du Pont de Nemours & Co



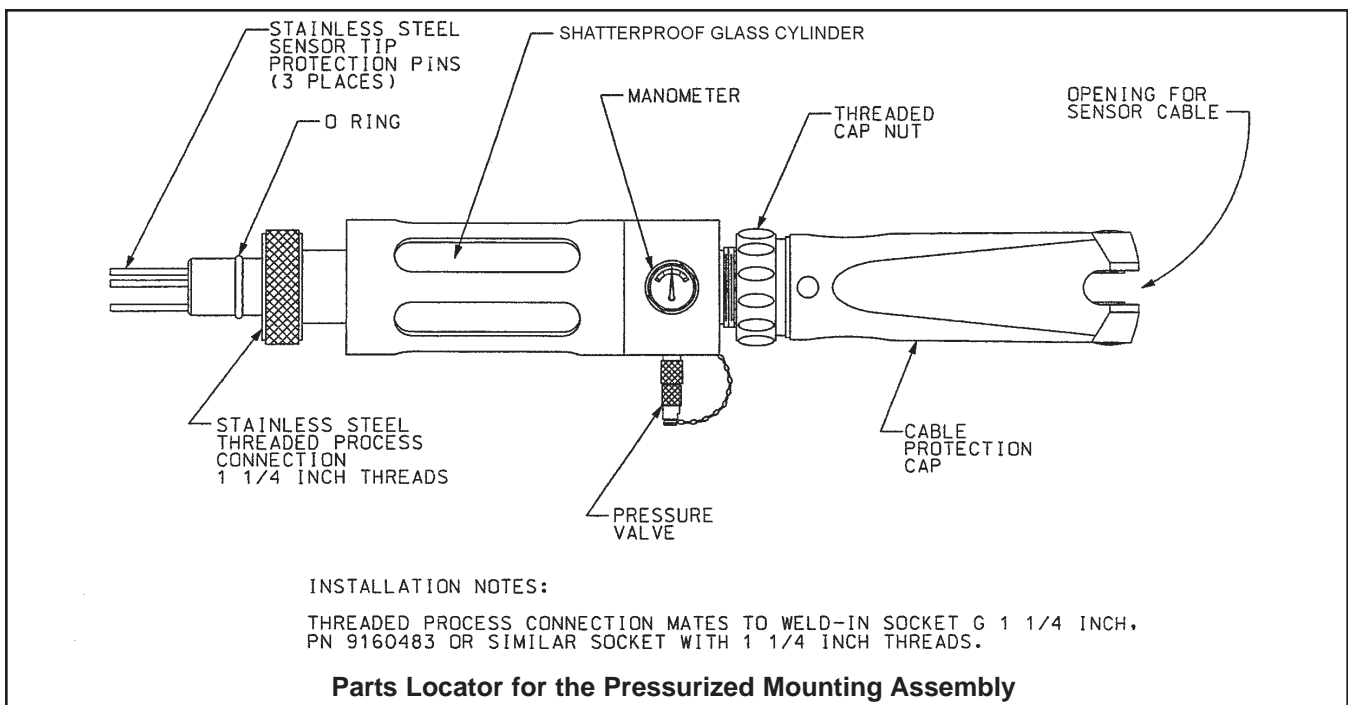
### CAUTION

The pressure in the assembly should not exceed 72 psig (600 kPa, 6 bar).

## INSTALLATION

### MOUNTING THE SENSOR INTO THE PRESSURIZED MOUNTING ASSEMBLY

The Pressurized Mounting Assembly is designed for use with Model Hx348 or sensors with a lower sensor shaft that has a 12-mm diameter with a pressurized or disposable reference design.



NOTE: The cable protection cap (PN's 9160479, 9160478, and 9160477) must be modified for use with the VP 6.0 cable. The aperture must be enlarged to 7 mm diameter to accommodate this cable.

Install the sensor into the mounting assembly:

1. Turn the threaded cap nut clockwise until you can remove the cable protection cap. The unit should now look like Figure 1.
2. Release the inner lever by turning it 90 degrees. See Figure 2.
3. Hold the glass cylinder section and unscrew the upper part (with the manometer and pressure valve). See Figure 3.



FIGURE 1



FIGURE 2



FIGURE 3

- Gently shake the pH electrode (as you would a clinical thermometer) so that the blue buffer inside is completely at the bottom by the pH glass bulb.
- If using a pressurizable sensor, remove the cap of the sensor and the reference electrolyte locking plug on the sensor.
- Carefully insert the sensor into the mounting assembly.

**NOTE**

Never mechanically overload the sensor tip.

- Keep the assembly oriented so that fill solution does not leak out of the filling port.
- Carefully guide the upper part of the assembly (with the manometer) over the sensor. See Figure 3.
- Relock the lever by moving it back up to the original position, as seen in Figure 1.

To install the cable:

- Place the sensor cable through the hinged opening of the cable cap.
- Connect the cable to the sensor
- Mount the cable cap back onto the mounting assembly.
- Close the cable cap and check the central positioning of the cable.
- Turn the threaded cap nut counter-clockwise to attach the cable cap back onto the mounting assembly.

**MOUNTING THE MOUNTING ASSEMBLY INTO THE PROCESS:**

The Pressurized Mounting Assembly mounts into the G 1-1/4 in. weld-in socket (PN 9160483 or similar). Make sure that the weld-in socket is clean. Tighten the stainless steel process connection nut onto the weld-in socket.

**NOTE**

The refill opening of the sensor should face upwards.

Pressurize the assembly to the desired pressure. This pressure should be 14 psi (100 kPa, 1 bar) above the pressure of the tank or fermenter.

**CLEANING AND MAINTENANCE**

**Cleaning:** The Pressurized Mounting Assembly can be cleaned with general-purpose cleaning fluids. Never use scouring agents that contain hard particles.

**Replacing the o-rings:** Occasionally check the Viton o-rings and replace if necessary with o-rings found in the Pressurizable Assembly Servicing Kit (PN 9160485). The large o-ring provides a watertight seal between the unit and the weld-in socket. The smaller o-ring is used on the inner part of the immersion tube (for the sensor). Both of these o-rings need occasional replacement.



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