

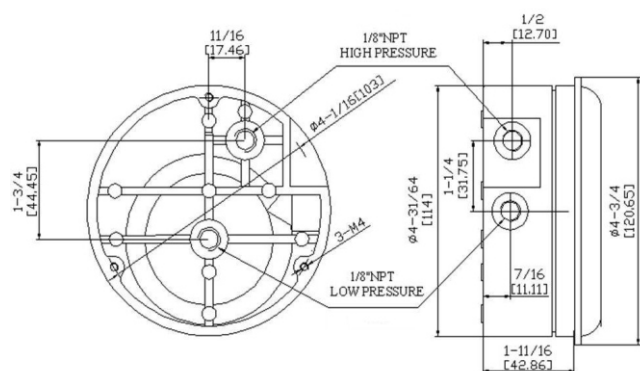
### 三.维护 C.MAINTENANCE

维护：无需润滑,不要求定期维护，保持外壳及面板清洁。必要时，拆去导压管，使引压口同时通大气，重新调整零点。

标定检查：选择一台量程相同已知精度的差压计或气压计作为标准仪表，用短的橡胶管或聚氯乙烯管经三通，连接到被测差压计和标准仪表的高压口，然后从三通的第三口缓慢地供压力几秒后压力平衡，比较读数。如果与技术指标不符，可将差压计退回工厂重新标定。

No need lubrication and regular maintenance. Keep case exterior and cover clean. When necessary, disconnect pressure lines to vent all ports of gage to atmosphere and re-zero. Optional vent valves should be used in permanent installations. The Series D2000 is not field serviceable and should be returned if repair is needed (field repair should not be attempted and may void warranty). Be sure to include a brief description of the problem plus any relevant application notes. Contact customer service to receive a return goods authorization number before shipping.

### 四.尺寸图 D.Dimensional Drawing



A390不锈钢免拆校验盒



A380不锈钢安装盒

## D2000系列差压计安装使用说明书 Series D2000 Differential Pressure Gages

### 一.安装方法 A.INSTALLATION

1. 选择一个没有振动，环境温度在-7~60°C的地方，避免太阳直晒（会造成塑料面板老化）。引压管可根据需要任选，走线任意，引压管长度不会影响精度，只影响时间响应。如果脉动压力或振动引起指针极度振荡，请与厂商联系，以便提供其他减振方法。



1. Selected a location free from excessive vibration and where the ambient temperature will not exceed 140°F (60°C). Also, avoid direct sunlight which accelerates discoloration of the clear plastic cover. Tubing lines can be run any necessary distance and unrestricted. The long tubing lengths will not affect accuracy but will increase response time slightly. If pulsating pressures or vibration cause pointer excessive oscillation, please consult the manufacturer for ways to damping method.

2. 所有差压计都是在膜片垂直位置时进行标定的，在此位置上，测量精度最高。如果不是用在垂直位置，请在订单上特别注明。量程比较高的差压计可以用在其他位置，只要调好零位，仍可保持在误差范围之内。量程低到250Pa (25mmH<sub>2</sub>O)时, 差压计只能用在垂直位置。

2. All standard differential Pressure Gages are calibrated with the diaphragm vertical and should be used in that position for maximum accuracy. If gages are not to be used in the vertical position, it should be specified on the order. Many higher range gages will perform within tolerance in other positions with only re-zeroing. Low range models of 0.5" w.c. plus 0.25" w.c. and metric equivalents must be used in the vertical position only.

3. 表面安装  
三个安装孔均布在背面的圆周上，用安装附件包里的螺钉配合安装。

3. Surface Mounting  
Locate mounting holes, 120° apart on a 4-1/8" diameter circle. Fixed with NO.6-32 appropriate lengths machine screws.

#### 4. 嵌入安装

如需嵌入安装, 需开直径为114mm的孔, 将差压计嵌入平板, 并用配件包中附件安装。

#### 4. Flush Mounting

Provide a 4-9/16" dia. (114mm) plat panel. Provide a 4-3/4" diameter. (120mm) opening for MP and HP models. Insert gage and secure in place with No. 6-32 machine screws of appropriate length, with adapters, firmly secured in place. To mount gage on 1-1/4" - 2" pipe, order optional A-610 pipe mounting kit.

#### 5. 安装后调零

借助面板上的调零螺钉仔细调整指针, 使其精确到零刻度上。

注: 只有在高压口和低压口同时通大气时才能进行零点检查和调整。

#### 5.To zero the gage after Installation

Set the indicating pointer exactly on the zero mark, using the external zero adjust screw on the cover at the bottom. Note that the zero checker adjustment can only be made with the high and low pressure taps both open to atmosphere.

#### 6. 引压管连接

为便于导管连接, 仪表左侧和背面开有四个1/8NPT的压力接口, 侧面和背面的两个高压 (HIGH) 口相通, 连接时只需使用其中任意一个, 而另一个用闷头螺塞堵上; 同样, 侧面和背面的两个低压 (LOW) 口也相通, 连接时也应先堵上其中的一个。差压计附件中配有两个宝塔接头, 高、低压各用一个。为防止泄漏, 螺纹接头上最好用聚四氟乙烯密封带缠绕。引压管可选用内径为3~4mm橡胶管连接。永久安装可以直接用带有1/8NPT锥管螺纹的铜或铝导管连接。

#### 6. Citation pressure conduit connector

To facilitate catheter connection, instrumnet is opened with four 1/8NPT pressure port on the left and back. Side and back of the two high pressure are interlinked, just use one to connect, while another with plug to block. Similarly, side and back of the two low-voltages also interlinked. One of them should firstly be blocked when we connect them. Differential pressure gage is equipped with two annexes with a barbed tube 1/8NPT tapered pipe thread connectors, high and low pressure have

Each one. To prevent leakage, the nipple is best to use PTFE sealing tape winding. Citation pressure pipe can be chosen for the 3 ~ 4mm diameter rubber hose to connect. Permanent installation can be used directly with a 1/8" NPT taper pipe thread of copper or aluminum conduit connector.

## 二.使用操作

### B.OPERATION :

正压测量: 用导管将被测压力接到差压计两个高压 (HIGH) 口的任意一个, 另一个高压口用闷头螺塞 (配件袋中) 堵上打开一个或两个低压 (LOW) 口通大气。为防止泄漏, 螺纹接头上最好用聚四氟乙烯密封带缠绕。引压管可选用内径为3~4mm橡胶管连接。永久安装可以直接用带有1/8NPT锥管螺纹的铜或铝导管连接。

Positive Pressure: Connect tubing from source of pressure to either of the two high pressure ports. Plug the port not used. Vent one or both low Pressure ports to atmosphere.

负压测量: 用导管将被测负压或真空源接到差压计两个低压 (LOW) 口中的任意一个, 另一个低压口用闷头螺塞堵上。打开一个或两个高压 (HIGH) 口通大气。

Negative Pressure: Connect tubing from source of vacuum or negative Pressure to either of the two low pressure ports. Plug the port not used. Vent one or both high pressure ports to atmosphere.

差压测量: 用导管将较高的被测压力接到差压计的一个高压 (HIGH) 口, 用导管将较低的被测压力接到一个低压 (LOW) 口, 堵上其他不用的两个口

Differential Pressure: Connect tubing from the greater of two pressure sources to either high pressure port or the lower to either low pressure port. Plug both unused ports.

便携使用或临时安装时, 用1/8 (3.175mm) 管接头与橡皮管套上并连通被测压力。

For portable use or temporary installation use 1/8" pipe thread to rubber tubing adapter and connect to source of pressure with flexible rubber or vinyl tubing.

永久性安装, 建议采用1/4直径或更大的铜或铝导管。

For permanent installation, 1/4" O.D., or larger, copper or aluminum tubing is recommended.