

INSTALLATION, OPERATION, AND MAINTENANCE INSTRUCTIONS FOR PD-2, PD-2/SW, PD-2/HT, & PD-2/SW HT PRESSURE DIFFERENTIAL GAUGE KITS RECOMMENDED FOR INSTALLATION ON F101 SERIES FILTERS

SPECIFICATIONS

PD-2 KIT p/n 84-0129

MAX. OPERATING PRESSURE 200 PSIG
 MAX. OPERATING TEMPERATURE 150°F
 OPERATING RANGE 0-15 PSID
 GAUGE DIMENSIONS..... 4"L, 1.5"W, 2.0625"H
 PRESSURE PORT CONNECTIONS 1/8" NPT

PD-2/HT KIT p/n 84-0130 (Same as 84-0129 except)

MAX. OPERATING PRESSURE 3000 PSIG*
 MAX. OPERATING TEMPERATURE 175°F*
 *NOTE: SEE F101 SERIES FILTER RATINGS.

PD-2/SW KIT p/n 84-0131

MAX. OPERATING PRESSURE 200 PSIG
 MAX. OPERATING TEMPERATURE 150°F
 OPERATING RANGE 0-15 PSID
 GAUGE DIMENSIONS..... 4"L, 2.375"W, 3.75"H
 PRESSURE PORT CONNECTIONS 1/8" NPT
 CONDUIT PORT CONNECTION 1/2" NPT
SWITCH RATINGS
 SET POINT (adjustable) 0-15 PSID
 ELECTRICAL 110V/1PH/60Hz, 1/2 AMP, 50 WATTS
 TYPE SPST (Single Pole Single Throw)

PD-2/SW HT KIT p/n 84-0211 (Same as 84-0131 except)

MAX. OPERATING PRESSURE 3000 PSIG
 MAX. OPERATING TEMPERATURE 175°F

INSTALLATION

WARNING

CAREFULLY READ THESE INSTRUCTIONS BEFORE INSTALLING THE PRESSURE DIFFERENTIAL KIT.

MAKE SURE THAT THE COMPONENT OR PIPING IS DEPRESSURIZED BEFORE INSTALLING THE PRESSURE DIFFERENTIAL KIT.

COMPLY WITH ALL APPLICABLE ELECTRICAL CODES IF INSTALLING A PD-2/SW OR PD-2/SW HT KIT.

Completely depressurize the piping and component that the kit is to be installed on.

Figure 1 shows a typical assembly/installation of the PD-2 series pressure differential gauge on a VAN AIR F101 series filter housing.

Mount the gauge on the mounting bracket. Use the fasteners provided with the kit. Mount the kit to the desired surface.

IMPORTANT

To ensure an accurate reading, make sure that both tubing lines to the gauge are equal in length. Use as few bends as possible in the tubing lines.

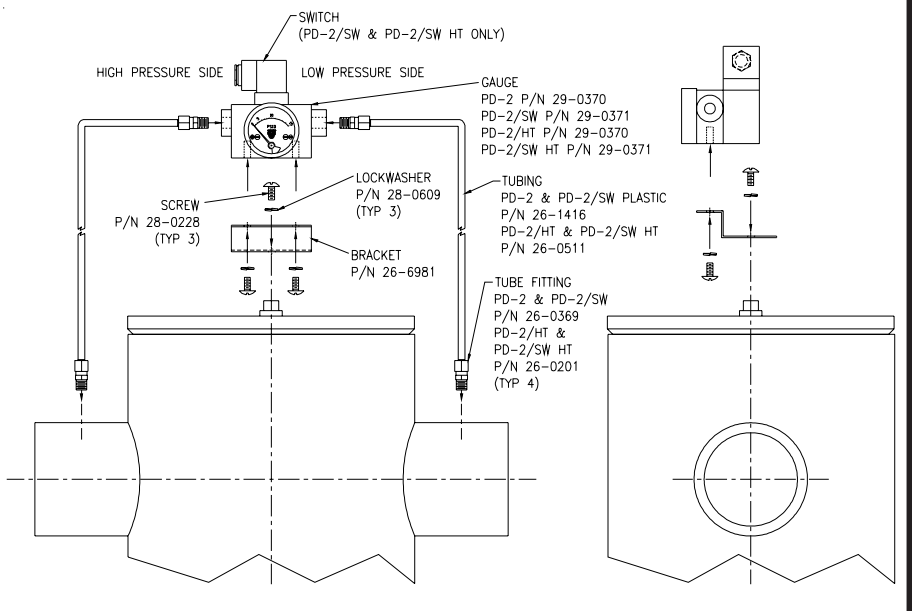
Install the necessary tubing from the inlet side of the vessel or piping to be measured to the HIGH PRESSURE port of the gauge. Use the tubing and fittings as shown in FIGURE 1. Use pipe sealant on all threaded pipe connections.

Complete the tubing connection from the outlet side of the vessel or piping to be measured to the LOW PRESSURE port of the gauge. Use the tubing and fittings as shown in FIGURE 1. Use pipe sealant on all threaded pipe connections.

SWITCH CONNECTIONS AND ADJUSTMENTS (PD-2/SW PD-2/SW HT) CONNECTING THE SWITCH

The gauges are equipped with an electric switch. This switch can be used to activate

FIGURE 1 INSTALLATION



an alarm to alert personnel that the pressure differential across the measure piping or vessel has reached an unacceptable level. The set point of the switch is adjustable.

The valve is tapped with 1/2" NPT conduit connections. Conduit can be run from the gauge to the alarm panel.

Make the necessary wiring connections from the gauge to the alarm panel. Reference FIGURE 1.

ADJUSTING THE SWITCH SET POINT

The gauge switch is adjustable. It should be set at the pressure differential reading that you want to activate the alarm device. If the gauge is installed on a filter set it at the recommended element replacement pressure differential, reference filter manual for this setting.

Make sure that the piping or vessel that the gauge is connected to is depressurized.

Disconnect the tubing from the HIGH PRESSURE port on the gauge.

Using a clean, dryer source of compressed air and a pressure regulator slowly apply pressure to the HIGH PRESSURE port until the gauge reads the desired set point.

Loosen the adjustment screw on the top of the gauge. Use a voltmeter to check the position of the switch. Slide the adjustment screw until the switch is closed at the desired pressure on the gauge. NOTE, The screw may be difficult to slide. This is normal.

Once the switch is properly set, tighten the adjustment screw. Reconnect the sample tubing to the HIGH PRESSURE port.

MAINTENANCE: PER GAUGE INSTRUCTIONS.

WARRANTY: PER TERMS AND CONDITIONS OF SALE.