Installation Requirements (ANSI 12.27.01)
The One Series Dual Seal (option M041) contains a fixed header with attached wiring. The sensor and unit head must never be rotated more than 360° in either direction (clockwise/counterclockwise) from the original factory position or permanent wiring damage could occur. To prevent damage due to rotation never loosen the 1 ¾” union nuts (2) located on the dual seal prior to installing the unit. The installation steps below must be followed in the sequence given:

1. **Connect unit to pressure port:** The unit must be connected to the pressure port using the wrench hex(s) at the sensor only. The gage pressure sensor has a 1 1/6” wrench hex. The differential pressure sensor has (2) ¾” wrench hexes.

2. **Mount the Dual Seal housing:** Loosen (but do not remove) the lower 1 ¾” union nut located on the dual seal to allow orientation of the union housing up to 180° in either direction (clockwise/counter clockwise). The head of the unit must then be securely mounted to a back plane support as instructed in either IM_ONEX-04 or IM_ONE_SAFETY-03. The sensor & dual seal are not designed to support the weight of the unit head when installed.

3. **Orient the Dual seal vent:** Loosen (but do not remove) the upper 1 ¾” union nut located on the dual seal. With the sensor & unit head secured, and with both the upper & lower union nuts loosened, the union housing (containing the vent) may be oriented as desired. The two union nuts must be tightened to 15-20 ft-lbs to complete the installation.

4. **Connect the vent (optional):** The vent provides visual annunciation of a primary seal failure. The vent must be kept free of any debris. The vent may be left open to the atmosphere. If desired, the vent may also be connected to a collection system using the 1/8” NPT thread provided.

**NOTE:** ALL WARNINGS REFERENCED IN IM_ONEX-04 AND IM_ONE_SAFETY-03 APPLY TO DUAL SEAL OPTION M041.

**THIS INSTRUCTIONAL SHEET IS TO INFORM YOU THAT WHEN YOU CHOOSE DUAL SEAL OPTION M041, THE INSTRUMENT WILL NOT COVER GAS GROUP A “ACETYLENE” FOR cULus APPROVAL.

**THIS EQUIPMENT IS SUITABLE FOR USE IN NON-HAZARDOUS LOCATIONS AND THE FOLLOWING HAZARDOUS LOCATIONS:**

- Class I, Div. 1, GRPS B, C, D
- Class II, Div. 1, GRPS E, F, G
- Class III
- Class I, Zone 1, AEx d IIC T3/T5*
- Class I, Zone 1, Ex d IIC T3/T5*
- Enclosure Type 4X, IP66

\[ \begin{align*}
2X2D, 2X3A, 2X4D: & -40°C ≤ TAMB ≤ +85°C (-40°F TO +185°F) \\
2XLP, 8X2D: & -40°C ≤ TAMB ≤ +80°C (-40°F TO +176°F) \\
4X3A: & -40°C ≤ TAMB ≤ +70°C (-40°F TO +158°F)
\end{align*} \]

**THIS EQUIPMENT IS ATEX CERTIFIED SUITABLE FOR APPROPRIATE USE IN GAS ZONE 1 & DUST ZONE 21 APPLICATIONS.**

DEMKO 09 ATEX 0813748X
Il 2 G Ex d IIC T3/T5*
Il 2 D Ex tb IIC T+90°C Db, IP66

\[ \begin{align*}
2X2D, 2X3A, 2X4D: & -40°C ≤ TAMB ≤ +85°C (-40°F TO +185°F) \\
2XLP, 8X2D: & -40°C ≤ TAMB ≤ +80°C (-40°F TO +176°F) \\
4X3A: & -40°C ≤ TAMB ≤ +70°C (-40°F TO +158°F)
\end{align*} \]

**THIS EQUIPMENT IS IECEx CERTIFIED, SUITABLE FOR APPROPRIATE USE IN GAS ZONE 1 APPLICATIONS.**

IECEx UL 08.0017X
Ex d IIC T3/T5*
Ex d db IIC T+90°C Db, IP66

\[ \begin{align*}
2X2D, 2X3A, 2X4D: & -40°C ≤ TAMB ≤ +85°C (-40°F TO +185°F) \\
2XLP, 8X2D: & -40°C ≤ TAMB ≤ +80°C (-40°F TO +176°F) \\
4X3A: & -40°C ≤ TAMB ≤ +70°C (-40°F TO +158°F)
\end{align*} \]

* Straight pressure sensor models 10-16 have a temperature class of T3, all others T5.