



ITT

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ITT Neo-Dyn

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INSTALLATION AND OPERATING INSTRUCTIONS
SERIES 117P/119P ADJUSTABLE PRESSURE SWITCHES
ENCLOSURE 6 (NEMA TYPE 7 AND 9)

SUITABLE FOR USE IN FLAMMABLE/COMBUSTIBLE ATMOSPHERES

CLASS I: GROUPS A, B, C, AND D
CLASS II: GROUPS E, F AND G
AS DEFINED BY THE NATIONAL ELECTRICAL CODE

NOTICE

1. For industrial use only, not a consumer product.
2. This item should be installed, operated, and maintained by technical personnel knowledgeable in local and national electrical and mechanical codes.
3. Always use wrench flats provided.
4. Avoid excessive torque on any threaded connection.
5. When surface mounting is used, insure surface is flat.
6. Manual operation of the electrical assembly may result in the unit becoming nonfunctional.



WARNING: Before proceeding, read and understand the following:

1. Hazardous electrical power may cause severe personal injury or death.
 - a. Do not make electrical connections while electrical power is on.
 - b. Do not remove conduit connections or make wiring repairs while electrical power is on. Check for multiple circuits.
 - c. Provide adequate electrical grounding.
 2. Excessive pressure may rupture the pressure switch; severe injury, death, or property damage may result. Do not subject this item to pressures in excess of nameplate listed proof pressure.
- A. Mounting:
1. Units are to be port mounted in any position directly to pressure connection. See (Pressure Connection).
- B. Pressure Connection (See Warning 2):
1. Units are supplied with 1 1/2" sanitary fittings and require a Tri-Clamp® fitting and clamp or other similar brand to interface with your system.
- C. Electrical Connections (See Warning 1):
1. Units are supplied with 18 AWG free leads exiting from a 1/2-14 NPT male conduit connection. The leads are color coded and marked for proper electrical circuitry.
 - a. Splices to main wiring should be accomplished in accordance with "National Electrical Code" (NEC) and local code instructions.
 - b. Grounding: Proper grounding must be accomplished by use of green ground wire or by connection to grounded metal conduit.
 - c. Conduit Connections: Install conduit. If surface mounting is used, it is recommended that flexible conduit be used for the final connection.
 - d. Flammable/Combustible Locations: Since the unit is "factory sealed", a sealing fitting is not required.
- D. Adjustment:
1. Pressure settings are internally adjustable, however, electrical power may remain on.
 - a. On the 117P, loosen access cover screws, swing cover away to expose the adjustment wheel.
 - b. On the 119P, unscrew the access cover and lift to expose the adjustment wheel.
 - c. Using a common blade screw driver, rotate;
 1. Clockwise to increase settings.
 2. Counterclockwise to decrease settings.

NOTE: When range scale is provided, increasing set point is indicated at bottom of adjustment wheel.
 - d. Reattach the access cover.