

# DYNISCO MODEL 840-8

## Flush Diaphragm, Loop Powered Pressure Transducer

### Description

Dynisco's 840 - 8 flush diaphragm pressure transducer is designed for applications requiring a zero volume pressure port. The flush diaphragm improves frequency response and has excellent cleanability. The 840 - 8 has a loop powered, 4 to 20 mA output and offers reliable and accurate pressure measurements of gases, viscous liquids and slurries.

### Features

- Zero volume pressure port
- Flush diaphragm design
- Zero volume pressure port
- Loop powered, 4 to 20 mA output
- 15 to 10,000 psi

### Benefits

- Improved frequency response
- Meets cleanability standards
- Improved frequency response
- Output to DCS or computer systems
- Choice of ranges



## Specifications

### Performance Characteristics

**Ranges (psi):** 0 - 15, 0 - 25, 0 - 100, 0 - 250, 0 - 500, 0 - 750, 0 - 1,500, 0 - 2,500, 0 - 3,000, 0 - 5,000, 0 - 10,000

**Accuracy:**  $\pm 0.5\%$  FSO including linearity, hysteresis and repeatability

### Electrical Characteristics

**Full scale output:** 4 to 20 mA (2 - wire)

**Input voltage:** 12 to 36 Vdc

**Zero adjust:**  $\pm 5\%$  FSO

**Insulation resistance:** 100 megohms @ 50 Vdc

**Span adjustment:**  $\pm 5\%$

**Loop resistance:** 0 - 1,200 Ohms from 12 - 36 Vdc

### Temperature Characteristics

**Operating temperature range:**  $-20^{\circ}\text{F}$  to  $+185^{\circ}\text{F}$  ( $-29^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ )

**Compensated range:**  $0^{\circ}\text{F}$  to  $150^{\circ}\text{F}$  ( $-18^{\circ}\text{C}$  to  $+66^{\circ}\text{C}$ )

**Temperature effect on zero:**  $\pm 0.01\%$  full scale/ $^{\circ}\text{F}$  ( $\pm 0.018\%$  full scale/ $^{\circ}\text{C}$ )

**Temperature effect on span:**  $\pm 0.02\%$  full scale/ $^{\circ}\text{F}$  ( $\pm 0.036\%$  full scale/ $^{\circ}\text{C}$ )

### Mechanical Characteristics

**Safe overpressure:** 2 x rated pressure

**Burst pressure:** 4 x rated pressure

**Wetted material:** 17 - 4 PH stainless steel

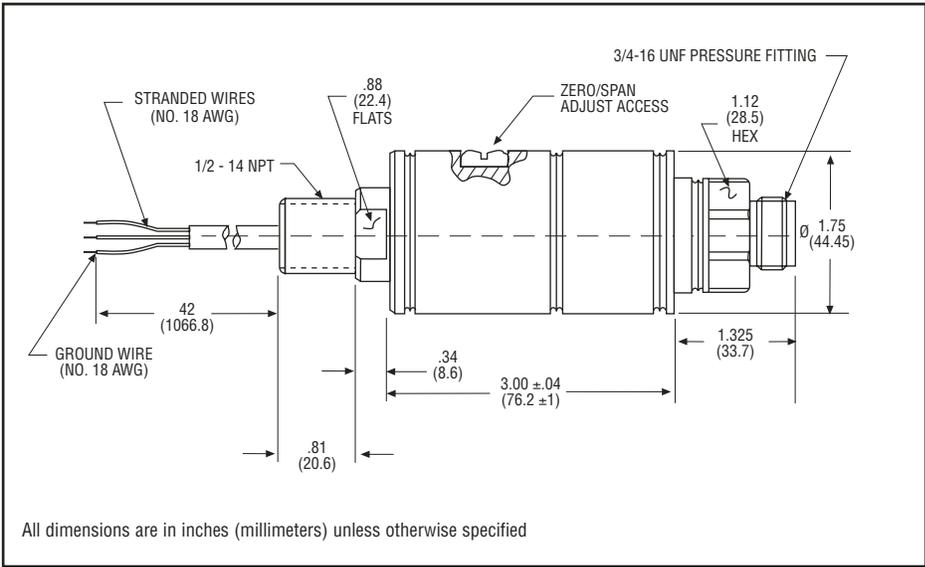
**Cover material:** 303, 304 stainless steel

**Pressure port seal:** Transducer supplied with DYNA-SEAL™ (P/N633014)

**Weight:** Approximately 17 ounces

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### Ordering Guide

Model	Pressure Port		Electrical Termination		Wiring		Pressure Range (psi)	
	Code	Description	Code	Description	Code	Wiring	Code	Range
G840	8	Flush diaphragm 3/4 - 16 UNF thread	4	2 - wire, 42" long, 1/2 - 14 NPT conduit fitting	4	red (+) black (-)	15	0 - 15
							25	0 - 25
							1C	0 - 100
							2.5C	0 - 250
							5C	0 - 500
							7.5C	0 - 750
							1.5M	0 - 1,500
							2.5M	0 - 2,500
							3M	0 - 3,000
							5M	0 - 5,000
10M	0 - 10,000							
<b>TO ORDER AN EXPLOSION-PROOF MODEL, REFER TO THE ORDERING GUIDE FOR HAZARDOUS AREA CERTIFICATION</b>								

Ordering Example: G840 - 844 - 5C

**ORDERING GUIDE FOR HAZARDOUS AREA CERTIFICATION**

If required, model G840 - 844 - XXX is available for operation in hazardous areas and certified explosion - proof by Factory Mutual (FM) for use in Class 1, Division 1, Groups A, B, C and D locations. When ordering you must add the suffix E to the basic model number: G840E - 844 - XXX.

### Delivery

Please call for specific delivery information.