Dynisco

*From lab to production,*
*providing a window into the process*


# EPR3 Push Rod Melt Pressure Sensors

*Enhanced Push-Rod Design*
*Melt Pressure Transducer*

## Description

Dynisco's model EPR3 high - temperature melt pressure transducer is offered as an alternative to its PT420 and PT460 series. The push - rod design is suitable for applications where the use of a filled system may not be desirable, such as the extrusion of food and medical products and the manufacture of photographic film. Model EPR3 is available in pressure ranges from 0 - 1,500 through 0 - 10,000 psi.

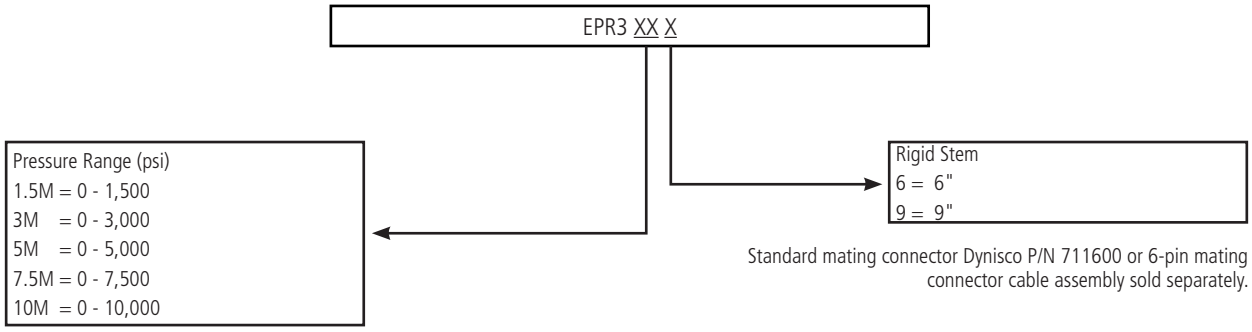
## Features

- Better than ±0.5% accuracy
- Push - rod design
- Measures up to 750°F (400°C)
- All stainless steel, wetted parts
- Internal 80% shunt calibration

| Performance Characteristics | |
|---|---|
| **Ranges (psi):** | 0 - 1,500, 0 - 3,000, 0 - 5,000, 0 - 7,500, 0 - 10,000 |
| **Accuracy:** | ±0.5% FSO |
| **Repeatability** | ±0.2% FSO |
| **Mounting Torque:** | 100 inch - lbs. recommended, 250 inch - lbs. maximum |
| **Maximum Pressure:** | 150% full scale |
| **Material In Contact With Pressure Media:** | 17 - 4 PH stainless steel, Dymax® coated |
| **Weight:** | 13.25 oz. |
| **Electrical Characteristics** | |
| **Configuration:** | Four active arm bonded Wheatstone bridge strain gage |
| **Bridge Resistance:** | Input: 345 Ohms minimum; Output: 350 Ohms ±10% |
| **Full Scale Output:** | ±5% full scale |
| **Zero Balance:** | Melt Flow Index |
| **Excitation:** | 10 Vdc recommended, 12 Vdc maximum |
| **Internal Shunt Calibration (R-Cal):** | 80% FSO ±1.0% |
| **Insulation Resistance:** | 1,000 megohms at 50 VDC |

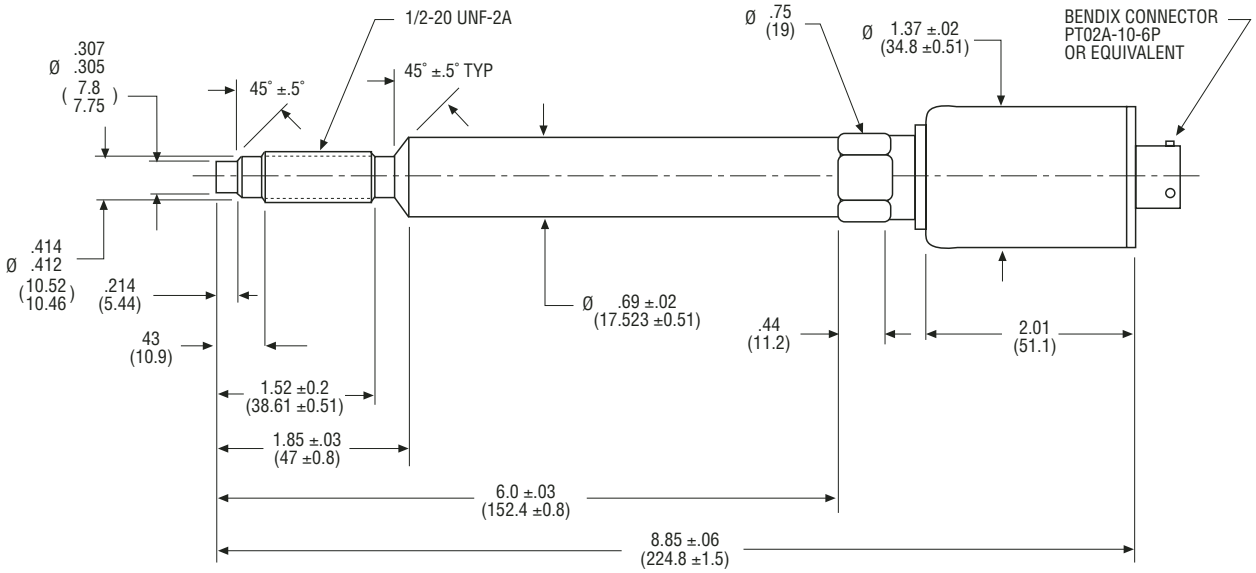
| Temperature Characteristics | |
|---|---|
| **Transducer Diaphragm:** | |
| **Maximum Diaphragm Temperature:** | 750°F (400°C) |
| **Zero Shift Due To Temperature Change:** | ±1.0% full scale/100°F (±2.0% full scale/100°C) |
| **Sensitivity Shift Due To Temperature Change:** | ±1.0% full scale/100°F (±2.0% full scale/100°C) |
| **Electronics Housing:** | |
| **Maximum Temperature:** | 250°F (121°C) |
| **Zero Shift Due To Temperature Change:** | ±1.0% full scale/100°F (±2.0% full scale/100°C) |
| **Sensitivity Shift Due To Temperature Change:** | ±1.0% full scale/100°F (±2.0% full scale/100°C) |

## Ordering Guide for EPR3




Standard mating connector Dynisco P/N 711600 or 6-pin mating connector cable assembly sold separately.

## Dimensions




All dimensions are in inches (millimeters) unless otherwise specified


DSEPR3
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CE

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