



# Certificate of Compliance

**Certificate:** 70037749

**Master Contract:** 202638

**Project:** 70037749

**Date Issued:** 2015-07-21

**Issued to:** Dynisco Instruments  
38 Forge Pky  
Franklin, Massachusetts 02038  
USA

**Attention:** Lara Rapport

*The products listed below are eligible to bear the CSA Mark shown*



**Issued by:** Semyon Baum  
Semyon Baum

## **PRODUCTS**

**CLASS - C225803 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations**

**Class I, Division 1, Groups B, C, and D; Class II, Division 1, Groups E, F, and G; Class III, Division 1:**

Series SPX-T Smart Pressure Transmitters rated 33 Vdc max, 45 mA max; T5 Ta=85C, T6 Ta=60C; Type 4X; Ingress Protection IP67 Enclosure is Explosionproof and Dust-Ignitionproof with Intrinsically Safe probe. Maximum Working Pressure = 30,000 psi for SPX-T series 3a42 and 3a43. Maximum Working Pressure = 10,000 psi for SPX-T series 3a9b. Install per control drawing 000611. Model numbers follow:

3a42Cbcd efghijk where:

a = Accuracy Code: 2 or 3.

b = Process Diaphragm Material Code: A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S, T, U, V, W, X, or Y.

c = Process Connection Code: 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, or 15.

d = Engineering Units Code: B, C, K, M, or P.

e = Pressure Range Code: 08 to 27.

f = Rigid Snout Length Code: Any two alpha digit representing 1.19" to 36.5".

g = Flex Length Code: Any two alpha digit representing 0" to 35.3".

h = Hart Communications Code: A, B, or C.

i = Electrical Connections Code: CA, CB, CC, CD, CE, CF, CG, CW, CX, or CY.

j = Temperature Sensors Code: ZZ or TB.

Dynisco P/N 975170  
Rev B  
ECO 49367



**Certificate:** 70037749

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k = Option Code: B106, B116, B300, B636, B676, B941, M493, M625, M640, M654, M792, M950, M998, and Zxxx (where xxx = any three digit code pertaining to output calibration settings).

Notes:

1. The combined length of variables “f” and “g” shall not be longer than 36.5”
2. Refer to certification drawing 000651 for model options.

3a43Cbcdefghijk where:

a = Accuracy Code: 2 or 3.

b = Process Diaphragm Material Code: A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S, T, U, V, W, X, or Y.

c = Process Connection Code: 25 to 46.

d = Engineering Units Code: B, C, K, M, or P.

e = Pressure Range Code: 08 to 27.

f = Rigid Snout Length Code: Any two alpha digit representing 1.19” to 36.5”.

g = Flex Length Code: Any two alpha digit representing 0” to 35.3”.

h = Hart Communications Code: A, B, or C.

i = Electrical Connections Code: CA, CB, CC, CD, CE, CF, CG, CW, CX, or CY.

j = Temperature Sensors Code: ZZ or TB.

k = Option Code: B106, B300, B676, M498, M625, M634, and Zxxx (where xxx = any three digit code pertaining to output calibration settings).

Notes:

1. The combined length of variables “f” and “g” shall not be longer than 36.5”
2. Refer to certification drawing 000654 for model options.

3a9bCcdefghijkl where:

a = Accuracy Code: 2 or 3.

b = Mounting Configuration Code: 0 or 1.

c = Process Diaphragm Material Code: A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S, T, U, V, W, X, or Y.

d = Process Connection Code: 24, 48-68, 70-79.

e = Engineering Units Code: B, C, K, M, or P.

f = Pressure Range Code: 08 to 23.

g = Rigid Snout Length Code: Any two alpha digit 1.19” to 18”.

h = Flex Length Code: Any two alpha digit 0” to 35.3”.

i = Hart Communications Code: A, B, or C.

j = Electrical Connections Code: CA, CB, CC, CD, CE, CF, CG, CW, CX, or CY.

k = Temperature Sensors Code: ZZ or TB.

l = Option Code: B106, B300, B676, M625, and Zxxx (where xxx = any three digit code pertaining to output calibration settings).

Notes:

1. The combined length of variables “g” and “h” shall not be longer than 36.5”
2. Refer to certification drawing 000658 for model options.

### **APPLICABLE REQUIREMENTS**

CAN/CSA Standard C22.2 No. 0-M91

General Requirements - Canadian Electrical Code, Part II

CSA Std C22.2 No. 25-1966

Enclosures for Use in Class II Groups E, F, and G

Dynisco P/N 975170

Rev B

ECO 49367



**Certificate:** 70037749

**Project:** 70037749

**Master Contract:** 202638

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CSA Std C22.2 No. 30-M1986	Hazardous Locations Explosion Proof Enclosures for Use in Class I Hazardous Locations
CSA Std C22.2 No. 94.1-07	Enclosures for Electrical Equipment, Non-Environmental Considerations
CSA Std C22.2 No. 94.2-07	Enclosures for Electrical Equipment, Environmental Considerations
CSA Std C22.2 No. 142-M1987	Process Control Equipment
CAN/CSA C22.2 No. 157-92	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
CAN/CSA C22.2 No. 60529:05	Degrees of Protection Provided by Enclosures (IP Code)

## **MARKINGS**

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The following markings appear on a CSA Accepted 3M 468 MP adhesive backed nameplate applied to stainless steel located on the housing of the equipment:

- Manufacturer's name: "Dynisco Instruments", or CSA Master Contract Number "202638", adjacent to the CSA Mark in lieu of manufacturer's name.
- Model number: As specified in the PRODUCTS section, above.
- Electrical ratings: As specified in the PRODUCTS section, above.
- Ambient temperature rating: As specified in the PRODUCTS section, above.
- Manufacturing date in MMY format, or serial number, traceable to month of manufacture.
- Enclosure ratings: "TYPE 4X", and "IP 67".
- The CSA Mark, as shown on the Certificate of Conformity.
- Hazardous Location designation, as specified in the PRODUCTS section, above.
- Temperature code: As specified in the PRODUCTS section, above.
- Rated maximum working pressure, as specified in the PRODUCTS section, above.
- The words "Factory Sealed"
- The following words:
  - "Exia".
  - "Explosionproof with Intrinsically Safe Output" and "L'épreuve des Explosions avec sortie de Sécurité Intrinsèque"
  - Install per drawing 000611

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An installation manual or data sheet shall be supplied with each unit, containing the following minimum marking information:

- Manufacturers name and address
- Specification for electrical ratings.
- Specification for ambient temperature rating.
- Specification for appropriate wiring to the equipment leads, including specification for wire gauge.
- Specification for maximum process pressure rating.
- The following words, or suitable equivalent (for models):
  - “Exia”.
  - “Explosionproof with Intrinsically Safe Output” and “L'épreuve des Explosions avec sortie de Sécurité Intrinsèque”
  - Maximum non-hazardous voltage not to exceed 250 V.

A copy of control drawing 000611 shall be provided with each model SPX-T series 3a42, 3a43, and 3a9b when shipped.



## *Supplement to Certificate of Compliance*

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*The products listed, including the latest revision described below,  
are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

<b>Project</b>	<b>Date</b>	<b>Description</b>
70037749	July 21, 2015	Reissue Report 2227147 for SPX-T Pressure Transmitter(s) under MC 202638 with reinstalling MC 202638
<b>History</b>		
2702969	Mar 10, 2014	Update to report 2227147 to include updated drawing for the Series SPX-T Pressure Transmitters.
2684053	Dec 20, 2013	Update to report 2227147 to include updated and new drawings for the Series SPX-T Pressure Transmitters that was initiated by an FIR on Jan. 16, 2013.
2227147	Feb 3, 2010	Original Certification of the SPX-T Smart Pressure Transmitters as explosionproof/dust ignitionproof with intrinsically safe probe.