



CSA INTERNATIONAL

# Certificate of Compliance

**Certificate:** 1132834 (LR 83363)

**Master Contract:** 179783

**Project:** 1763873

**Date Issued:** 2006/03/21

**Issued to:** Flowserve Corporation

Flow Control Division  
1350 North Mountain Springs Pky  
Springville, UT 84663-0903  
USA  
Attention: Jeffery Olson

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



**Issued by:** Wesley Van Hill

**Authorized by:** Patricia Pasemko, Operations  
Manager

## **PRODUCTS**

**CLASS 2258 02** - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

**CLASS 2258 03** - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non -  
Incendive Systems - For Hazardous Locations

**CLASS 2258 02** - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

Class I, Division 1, Groups B, C, D; Class II, Groups E, F, G; Class III; Ex d II B + H2, T4, -25° C ≤ Ta ≤ + 80°  
C, Enclosure Type 4x:

NT3000 I/P Transducer



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Models NT-30AB-10-C,D,E,F, G, HH

A = 0 (None)

B = 0 (Aluminium w/ Stainless Steel Label)

1 (Stainless Steel)

2 (Aluminium w/ mylar label)

C = 2 (Standard BAR/PSI/KPA Stainless w/brass wetted parts)

4 (BAR/PSI/KPA Stainless w/stainless wetted parts)

6 (KG/CM2/PSI stainless w/brass wetted parts)

8 (KG/CM2/PSI Stainless w/stainless wetted parts)

9 (None)

D = S (Buna N Fluorosilicon -40 to 185° F / -40 to 85° C)

V (Viton -20 to 185 ° F / -29 to 85 ° C)

E (EPDM -40 to 185° F / -40 to 85° C)

E = N (1/2 inch NPT)

M (M20)

F = 1 (Non-vented)

2 (Vented)

G = W (White)

B (Black)

F (Food Grade White)

S (No Paint Stainless Steel)

HH = Any alpha numeric designation indicating special options. **(Special Options Cannot Affect Certification)**

Control Signal Input: 4-20 mA

Supply Pressure: 30-150 psi



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Output Pressure: 3-15 psi

**CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non Incendive Systems - For Hazardous Locations**

Class I, Groups A, B, C, D; Class II, Groups E, F, G; Class III; Ex ia IIC, T4, Enclosure Type 4x:  $-25^{\circ} C \leq Ta \leq + 80^{\circ} C$ ,

NT3000M I/P Transducer Intrinsically Safe when installed as shown in Control Dwg 97195:

Models NT-30AB-10-C,D,E,F,G, HH

A = 0 (None)

B = 0 (Aluminium w/ Stainless Steel Label)

1 (Stainless Steel)

2 (Aluminium w/ mylar label)

C = 2 (Standard BAR/PSI/KPA Stainless w/brass wetted parts)

4 (BAR/PSI/KPA Stainless w/stainless wetted parts)

6 (KG/CM2/PSI stainless w/brass wetted parts)

8 (KG/CM2/PSI Stainless w/stainless wetted parts)

9 (None)

D = S (Buna N Fluorosilicon  $-40$  to  $185^{\circ} F$  /  $-40$  to  $85^{\circ} C$ )

V (Viton  $-20$  to  $185^{\circ} F$  /  $-29$  to  $85^{\circ} C$ )

E (EPDM  $-40$  to  $185^{\circ} F$  /  $-40$  to  $85^{\circ} C$ )

E = N (1/2 inch NPT)

M (M20)

F = Blank (Non-vented)

1 (Vented)

G = W (White)

B (Black)



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F (Food Grade White)

S = (No Paint Stainless Steel)

HH = Any alpha numeric designation indicating special options. **(Special Options Cannot Affect Certification)**

Control Signal Input: 4-20 mA

Supply Pressure: 30-150 psi

Output Pressure: 3-15 psi

**APPLICABLE REQUIREMENTS**

CAN/CSA C22.2 No. 0-M91 - General Requirements - Canadian Electrical Code, Part II

CSA C22.2 No. 0.4-M2004 - Bonding and Grounding of Electrical Equipment (Protective Grounding).

CSA C22.2 No. 0.5-1982 - Threaded Conduit Entries

CSA C22.2 No. 25-1966 - Enclosures for Use in Class II Groups E, F, and G Hazardous Locations

CSA C22.2 No. 30-M1986 - Explosion-Proof Enclosures for Use in Class I Hazardous Locations

CSA C22.2 No. 94-M91 - Special Purpose Enclosures

CSA 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

CSA C22.2 No. 213-M1987 - Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

CAN/CSA E60079-0:02 - Electrical apparatus for explosive gas atmospheres Part 0: General Requirements

CAN/CSA E60079-1:02 - Electrical apparatus for explosive gas atmospheres Part 1 Flameproof enclosures "d"

CAN/CSA E60079-11:02 - Electrical apparatus for explosive gas atmospheres – Part II Intrinsic Safety "i"



## *Supplement to Certificate of Compliance*

**Certificate:** 1132834

**Master Contract:** 179783

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
1763873	2006/03/21	Update to report 1132834 to include updated Model number, drawings and alternate label material.

### **History**

1132834 August 24, 2000 - NT3000 I/P Transducer Models NT-30XY-10. Supersedes Reports LR 83363-6 and LR 83363-7.

1460043 July 30, 2003 - Update to Report 1132834 to amend Model numbering scheme. Approval for use in Zone 0 and Zone 1 locations.