



# Certificate of Compliance

**Certificate:** 1192744 (LR 83363)

**Master Contract:** 179783

**Project:** 2184472

**Date Issued:** 2009/09/24

**Issued to:** **Flowserve Corporation**

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

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



**Issued by:** Matthew Brock

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

## **PRODUCTS**

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

**CLASS 2258 04** - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations

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

Class I, Groups B, C and D; Class II, Groups E, F and G; Class III; Ex d IIB + H2, T4, Encl Type 4x: ambient = -25°C to +40°C,

Logix 3200 Digital Positioner. Rated: 9-32Vdc, 4-20mA. MWP 150 psi.

Class I, Groups B, C and D; Class II, Groups E, F and G; Class III; Ex d IIB + H2, T5, Encl Type 4x: ambient = -20°C to +55°C,



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Logix 3400 Digital Positioner. Rated: 9-32Vdc, 4-20mA. MWP 150 psi.

**CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations**

Class I, Groups A, B, C and D; Class II, Groups E, F and G; Class III; Exia IIC T4; IP65; ambient = -20°C to +60°C

Logix 3400 Digital Valve Positioner; intrinsically safe when using the following entity parameters:  $V_{max}$ ,  $U_i$  = 24V,  $I_{max}$ ,  $I_i$  = 250mA,  $P_{max}$ ,  $P_i$  = 1.2W,  $C_i$  = 3300pF,  $L_i$  = 10 $\mu$ H; FISCO Parameters:  $V_{max}$ ,  $U_i$  = 17.5V,  $I_{max}$ ,  $I_i$  = 380mA,  $P_{max}$ ,  $P_i$  = 5.32W,  $C_i$  = 3300pF,  $L_i$  = 10 $\mu$ H

**APPLICABLE REQUIREMENTS**

C22.2 No. 0 - M 1991 - General Requirements - Canadian Electrical Code Part II.

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

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

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

C22.2 No. 94 - M1991 - Special Purpose Enclosures

C22.2 No. 142 - M1987 - Process Control Equipment

C22.2 No. 157 - M1992 - Intrinsically Safe and Non-incendive Equipment for Use in 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 11 Intrinsic Safety "i"

The following standards were used in whole or in part as a guideline:

IEC 60079-27 - Explosive atmospheres – Part 27: Fieldbus intrinsically safe concept (FISCO)



## *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**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
2184472	2009/09/24	Update to report 1192744 to incorporate construction changes and FISCO parameters from IEC ExTR and to alter naming convention.
1970431	2008/01/25	Revision to add Ex-ia protection based on IECEx and FM report.
1798337	2006/06/29	Update to 1192744 to include new similar model LOGIX 3400IQ Digital Positioner.
1667545	2005/05/02	Update to report 1192744 to include minor circuit revisions.
1656698	2005/03/23	Corrections to C of C to show Division 1 & Zone 1
1534986	2004/03/30	Update to 1192744 to change Model number from LOGIX 1200IQ to LOGIX 3200IQ and minor revisions to pcb's.

### **History**

1469549	2003/08/19	Update to 1192744 to include name change from Logix 1200 to Logix 1200IQ (nominal change only.) and addition of Zone markings.
1459690	2003/07/30	Update to 1192744 to facilitate alternate construction - Drawing updates.
1390437	2003/02/26	Update to 1192744 to include optional flame arrestor in cover.
1192744	2002/01/24	Supersedes Report LR 83363-15 to include changes to Circuitry and Enclosure; Name change from Logix 1000 to Logix 1200. Explosion Proof.
LR 83363-15	1998/01/30	Model LOGIX 1000 Digital Positioner. EX-proof for Cl I, II, III Gr BCDEFG. Superseded by Report 1192744.