



Certificate of Compliance

Certificate: 1127056

Master Contract: 154490

Project: 2658569

Date Issued: October 22, 2013

Issued to: Fisher Controls International LLC

205 S Center St
Marshalltown, IA 50158
USA

Attention: Daniel G. Moyer

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



James Lim

Issued by: James Lim

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, Div. 1, Groups B, C and D; Class II, Div. 1, Groups E, F and G; Class II, Div 2, Groups F and G; Class III, Div. 1; Class I, Div. 2, Groups A, B, C and D; Ex d IIC; Ex nC IIC, Type 4X; IP66; Single Seal Device:

Digital Valve Controllers, Types DVC6010, DVC6020, DVC6030, DVC6010S, DVC6020S, DVC6030S, DVC6005, DVC6200, DVC6200S, DVC6205 (HART Communication Protocol); rated input 30Vmax, 20mA; - 52 Deg. C < Ambient < + 80 Deg. C; Temperature Code T5 at Tamb = 80 Deg. C; T6 at Tamb = 75 Deg. C, Max inlet pressure 145 psig (air or natural gas).

Digital Valve Controllers, Types DVC6010, DVC6020, DVC6030, DVC6010S, DVC6020S, DVC6030S, DVC6005, DVC6200, DVC6200S, DVC6205 (HART Communication Protocol – c/w HW2 Electronics); rated input 30Vmax, 20mA; - 52 Deg. C < Ambient < + 80 Deg. C; Temperature Code T5 at Tamb = 80 Deg. C; T6 at Tamb = 75 Deg. C, Max inlet pressure 145 psig (air or natural gas).

Digital Valve Controllers, Types DVC6010F, DVC6020F, DVC6030F, DVC6010FS, DVC6020FS, DVC6030FS, DVC6005F, DVC6200F, DVC6200FS, DVC6205F (FIELD BUS Communication Protocol); rated input 30Vmax, 20mA; - 52 Deg. C < Ambient < + 80 Deg. C; Temperature Code T5 at Tamb = 80 Deg. C; T6 at Tamb = 75 Deg. C, Max inlet pressure 145 psig (air or natural gas).



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Digital Valve Controllers, Types DVC6200P, DVC6200PS, DVC6205P (PROFIBUS Communication Protocol); rated input 30Vmax, 20mA; - 52 Deg. C < Ambient < + 80 Deg. C; Temperature Code T5 at Tamb = 80 Deg. C; T6 at Tamb = 75 Deg. C, Max inlet pressure 145 psig (air or natural gas).

Class I, Div. 1, Groups B, C and D; Class II, Div. 1, Groups E, F and G; Class I, Div. 2, Groups A, B, C and D; Class II, Div 2, Groups F and G; Class III, Div. 1; Ex d IIC; Ex nA IIC, Type 4X; IP66:

Feedback Assembly, Types DVC6015, DVC6025, DVC6035; rated input 10Vmax, 5mA; -60 Deg. C < Ambient < + 125 Deg. C; Temperature Code T4 at Tamb = 125 Deg. C, T5 at Tamb = 95 Deg. C, T6 at Tamb = 80 Deg. C

Class I, Div. 1, Groups A, B, C and D; Class II, Div. 1, Groups E, F and G; Class I, Div. 2, Groups A, B, C and D; Class II, Div 2, Groups F and G; Class III, Div. 1; Ex d IIC; Ex nA IIC, Type 4X; IP66:

Feedback Assembly, Types DVC6215; rated input 30Vmax, 20mA; -52 Deg. C < Ambient < + 125 Deg. C; Temperature Code T4 at Tamb = 125 Deg. C, T5 at Tamb = 90 Deg. C, T6 at Tamb = 75 Deg. C

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

Class I, Div. 1, Groups A, B, C and D; Class II, Div. 1, Groups E, F and G; Class III, Div. 1; Ex ia IIC; Type 4X; IP66 Single Seal Device:

Digital Valve Controllers, Types DVC6010, DVC6020, DVC6030, DVC6010S, DVC6020S, DVC6030S, DVC6200, DVC6200S (HART Communication Protocol); rated input 30Vmax, 20mA; intrinsically safe when connected per Installation Drawing No. GE42818. Entity parameters: (Loop Terminals) Vmax = 30V, Imax = 226mA, Pi = 1.4W, Ci = 5nF, Li = 0.55mH; - 52 Deg. C < Ambient < + 80 Deg. C; Temperature Code T5 at Tamb = 80 Deg. C; T6 at Tamb = 75 Deg. C, Max inlet pressure 145 psig (air or natural gas).

Digital Valve Controllers, Types DVC6005 (HART Communication Protocol); rated input 30Vmax, 20mA; intrinsically safe when connected per Installation Drawing No. GE42818. Entity parameters: (Loop Terminals) Vmax = 30V, Imax = 226mA, Pi = 1.4W, Ci = 5nF, Li = 0.55mH; (Remote Feedback Terminals) Voc = 30V, Isc = 12mA, Po = 86mW, Ca = 66nF, La = 246mH; - 52 Deg. C < Ambient < + 80 Deg. C; Temperature Code T5 at Tamb = 80 Deg. C; T6 at Tamb = 75 Deg. C, Max inlet pressure 145 psig (air or natural gas).

Digital Valve Controllers, Types DVC6010, DVC6020, DVC6030, DVC6010S, DVC6020S, DVC6030S, DVC6200, DVC6200S (HART Communication Protocol – c/w HW2 Electronics); rated input 30Vmax, 20mA; intrinsically safe when connected per Installation Drawing No. GE42818. Entity parameters: (Loop Terminals) Vmax = 30V, Imax = 130mA, Pi = 1.0W, Ci = 15nF, Li = 0.55mH; (Output Terminals) Vmax = 28V, Imax =



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100mA, $P_i = 1.0W$, $C_i = 15nF$, $L_i = 0.50mH$; - 52 Deg. C < Ambient < + 80 Deg. C; Temperature Code T5 at Tamb = 80 Deg. C; T6 at Tamb = 74 Deg. C (without I/O package) and T5 at Tamb = 80 Deg. C; T6 at Tamb = 61 Deg. C (with I/O package), Max inlet pressure 145 psig (air or natural gas).

Digital Valve Controllers, Types DVC6005, DVC6205 (HART Communication Protocol – c/w HW2 Electronics); rated input 30Vmax, 20mA; intrinsically safe when connected per Installation Drawing No. GE42818. Entity parameters: (Loop Terminals) $V_{max} = 30V$, $I_{max} = 130mA$, $P_i = 1.0W$, $C_i = 15nF$, $L_i = 0.55mH$; (Output Terminals) $V_{max} = 28V$, $I_{max} = 100mA$, $P_i = 1.0W$, $C_i = 15nF$, $L_i = 0.5mH$; (Remote Feedback Terminals) $V_{oc} = 30V$, $I_{sc} = 21.2mA$, $P_o = 160mW$, $C_a = 55nF$, $L_a = 78mH$; - 52 Deg. C < Ambient < + 80 Deg. C; Temperature Code T5 at Tamb = 80 Deg. C; T6 at Tamb = 74 Deg. C (without I/O package) and T5 at Tamb = 80 Deg. C; T6 at Tamb = 61 Deg. C (with I/O package), Max inlet pressure 145 psig (air or natural gas).

Digital Valve Controllers, Types DVC6010F, DVC6020F, DVC6030F, DVC6010FS, DVC6020FS, DVC6030FS, DVC6200F, DVC6200FS (FIELDBUS Communication Protocol), DVC6200P, DVC6200PS (PROFIBUS Communication Protocol); rated input 30Vmax, 20mA; intrinsically safe when connected per Installation Drawing No. GE42818. Entity parameters, Fieldbus version: (Loop Terminals) $V_{max} = 24V$, $I_{max} = 380mA$, $P_i = 1.4W$, $C_i = 5nF$, $L_i = 0mH$; FISCO version: (Loop Terminals) $V_{max} = 17.5V$, $I_{max} = 380mA$, $P_i = 5.32W$, $C_i = 5nF$, $L_i = 0mH$; Temperature Code T4 at Tamb = 80 Deg. C, T5 at Tamb = 77 Deg. C, T6 at Tamb = 62 Deg. C, Max inlet pressure 145 psig (air or natural gas).

Digital Valve Controllers, Types DVC6005F, DVC6205F (FIELDBUS Communication Protocol), DVC6205P (PROFIBUS Communication Protocol); rated input 30Vmax, 20mA; intrinsically safe when connected per Installation Drawing No. GE42818. Entity parameters, Fieldbus version: (Loop Terminals) $V_{max} = 24V$, $I_{max} = 380mA$, $P_i = 1.4W$, $C_i = 5nF$, $L_i = 0mH$; (Remote Feedback Terminals) $V_{oc} = 24V$, $I_{sc} = 17.5mA$, $P_o = 105mW$, $C_a = 121nF$, $L_a = 100mH$; FISCO version: (Loop Terminals) $V_{max} = 17.5V$, $I_{max} = 380mA$, $P_i = 5.32W$, $C_i = 5nF$, $L_i = 0mH$; (Remote Feedback Terminals) $V_{oc} = 17.5V$, $I_{sc} = 17.5mA$, $P_o = 105mW$, $C_a = 121nF$, $L_a = 100mH$; Temperature Code T4 at Tamb = 80 Deg. C, T5 at Tamb = 77 Deg. C, T6 at Tamb = 62 Deg. C, Max inlet pressure 145 psig (air or natural gas).

Class I, Div. 1, Groups A, B, C and D; Class II, Div. 1, Groups E, F and G; Class III, Div. 1; Ex ia IIC; Type 4X; IP66:

Feedback Assembly, Types DVC6015, DVC6025, DVC6035; rated input 10Vmax, 5mA; intrinsically safe when connected per Installation Drawing No. GE42818. Entity parameters, $V_{max} = 30V$, $I_{max} = 100mA$, $P_i = 160mW$, $C_i = 0nF$, $L_i = 0mH$; -60 Deg. C < Ambient < + 125 Deg. C; Temperature Code T4 at Tamb = 125 Deg. C, T5 at Tamb = 95 Deg. C, T6 at Tamb = 80 Deg. C



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Feedback Assembly, Types DVC6215; rated input 30Vmax, 20mA; intrinsically safe when connected per Installation Drawing No. GE42818. Entity parameters, Vmax = 30V, Imax = 226mA, Pi = 1.4W, Ci = 50nF, Li = 0mH; -52 Deg. C < Ambient < + 125 Deg. C; Temperature Code T4 at Tamb = 125 Deg. C, T5 at Tamb = 90 Deg. C, T6 at Tamb = 75 Deg. C

APPLICABLE REQUIREMENTS

C22.2 No. 0-10 - General Requirements - Canadian Electrical Code, Part II

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

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

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

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

C22.2 No. 157-92 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations

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

C22.2 No. 60529:05 - Degrees of protection provided by enclosures (IP Code)

ISA 12.27.01:2011 - Requirements for Process Sealing Between Electrical Systems and Flammable or Combustible Process Fluids

CAN/CSA- C22.2 No. 60079-0:11 - Explosive atmospheres - part 0: Equipment - General requirements

CAN/CSA- C22.2 No. 60079-1:11 - Explosive atmospheres - part 1: Equipment protection by flameproof enclosures "d"

CAN/CSA- C22.2 No. 60079-11:11 - Explosive atmospheres - part 11: Equipment protection by intrinsic safety "i"

CAN/CSA- C22.2 No. 60079-15:12 - Electrical apparatus for explosive gas atmospheres - Part 15: Construction, test and marking of type of protection "n" electrical apparatus.



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

Project	Date	Description
2658569	Oct 22, 2013	Update to report 1127056 to add CSA Zone approvals to all models based upon data from IECEx Certificate CSA04.0004X, and update of descriptive documents.
2577935	Dec 7, 2012	Update to report 1127056 to include revised IS t-codes for the HW2 Electronics
2450272	Jul 18, 2012	Update report 1127056 to include hardware revision 2 (HW2) electronics changes to the Model 6000 Series.
2409342	May 29, 2012	(EDM37-FEB) Evaluation of new models, DVC6200S, DVC6200FS, DVC6200PS, DVC6205, DVC6205F, DVC6205P and DVC6215 for FM standards. Update and submission of revised FM report 3010030 under CSA/FM agreement.
2409344	Dec 16, 2011	update to report 1127056 to include new SST models DVC6200S, DVC6200FS, DVC6200PS and DVC6205, DVC6205F, DVC6205P, DVC6215.
2331104	Jul 26, 2010	Update of Report 1127056 to add new model DVC6200P.
2276950	Feb 24, 2010	Update to include new versions (Models DVC6200 and DVC6200F) with new "non-contact" Sensor.
2212661	Oct 30, 2009	Update Report 1127056 to include alternate slotted pin flame arrestor assembly and Report typo corrections.
2147023	Mar 30, 2009	Update to cover revisions to the main electronics assembly and the terminal box electronics for the fieldbus versions.
2062813	Oct 21, 2008	update to report 1127053 to include design change to DVC6005x remote mount unit
1921176	Mar 5, 2008	Update to report 1127053 to evaluate new terminal box design, evaluation to LTR-001 and to ISA 12.27.01 .
1948836	Sep 25, 2007	Update to include revised drawings.
1794269	May 30, 2006	Update to CSA Report 1127056 to include revised drawings.
1686265	Aug 23, 2005	Update to CSA Report to allow Natural Gas as a process medium (LTR HazLoc-001-2003) exproof, IS, Div 2.
1633509	Mar 22, 2005	Update of Report 1127056 to Cover Revised Circuitry and Drawings
1507981	Feb 11, 2004	Update of Report 1127056 to Cover Addition of DVC6000f & XP Version of DVC60x5
1448402	Jul 2, 2003	Addition of Models DVC6005, DVC6015, DVC6025 and DVC6035
1708604	Jan 1, 0001	Update to CSA Report to correct inconsistencies with Lab report.



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History

- 1343707 July 31, 2002 Update to cover revised circuitry, alternative enclosure material (SST) and revised drawings.
- 1214439 June 28, 2001 Update to cover evaluation of modified flame arrestor assemblies
- 1127056 Dec. 4, 2000 Original Certification.