

1 EU-TYPE EXAMINATION CERTIFICATE



2 **Equipment or Protective systems intended for use in Potentially
Explosive Atmospheres - Directive 2014/34/EU**

3 **EU-Type Examination Certificate No:** FM16ATEX0006X

4 **Equipment or protective system:
(Type Reference and Name)** Logix 3200MD+
Digital Valve Positioner

5 **Name of Applicant:** Flowserve US Inc. - Springville Operations

6 **Address of Applicant:** 1350 Mountain Springs Pkwy
Springville UT, 84663
United States of America

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

8 FM Approvals Ltd, notified body number 1725 in accordance with Article 17 of Directive 2014/34/EU of 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number:

3056447 dated 20th May 2016

9 Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-31:2014 and EN 60529:1991+A2:2013

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

11 This EU-Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include:



II 2 G Ex db IIB+H2 T4 Ta = -52°C to 80°C, T6 Ta = -52°C to 45°C Gb; IP65

II 2 D Ex tb IIIC T95°C Db Ta = -52°C to +55°C; IP65

Mick Gower
Certification Manager, FM Approvals Ltd.

Issue date: 07th June 2016

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

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SCHEDULE



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to EU-Type Examination Certificate No. FM16ATEX0006X

13 Description of Equipment or Protective System:

The Logix 3200MD+ Digital Positioner is an electro-pneumatic positioner designed to control a variety of pneumatic actuators. Positioning is based on a balance of two signals; one proportional to the command input signal and the other proportional to the valve stem position. The positioner utilizes Hart Communications protocol via a two-wire 4-20 mA input signal. The Logix 3200MD+ is available in either painted cast aluminium or stainless steel.

Electrical data:

The Logix 3200MD+ Digital Valve Positioner has the following electrical ratings; 30Vdc, 4-20mA.

Model Code

32aaMD+bcde0fghi, Digital Valve Positioner.

aa = Diagnostics: 00 (Standard Diagnostics), 10 (Advanced w/ Pressure Sensor) or 20 (Pro Diagnostics w/ pressure sensing and Full ValveSight Diagnostics)

b = Certification: 28 (ATEX/IEC).

c = Housing: W (Aluminum, White Paint), S (Stainless Steel, No Paint), B (Aluminum, Black Paint, Automax), A (Aluminum, Black Paint, Accord).

d = Conduit Connections: 1 (NPT), 2 (Metric).

e = Feedback shaft: V (DD-316 Stainless Steel Shaft), R (NAMUR-316 Stainless Steel Shaft), D (316 Stainless Steel Shaft, 3rd party actuators).

f = Action: 1 (Four-way), 2 (Three-way), 3 (Three-way Purge), 4 (Four-way Vented), 5 (Three-way Vented).

g = Pressure Gauges: 0 (No gauge), 1 (SS with Brass Internals, bar/kPa), 2 (SS with SS internals, bar/kPa), 3 (SS with Brass Internals, kg/cm²), 4 (SS with SS internals, kg/cm²), A (UCC Press Test Plug), B (Valve, Tank).

h = Auxiliary Card Slot: 0 (no card), 1 (Multi-function Card)

i = Remote Mount: 0 (No Remote Mount Feedback), 1 (Aluminium Remote Mount Feedback), S (SS Remote Mount Feedback).

14 Specific Conditions of Use:

1. The flamepaths of the equipment are not intended to be repaired. Consult the manufacturer if repair of the flamepath joints is necessary.
2. To avoid the possibility of static discharge clean only with a damp cloth.
3. Using the box provided on the nameplate, the User shall permanently mark the type of protection chosen for the specific installation. Once the type of protection has been marked it shall not be changed.

15 Essential Health and Safety Requirements:

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

16 Test and Assessment Procedure and Conditions:

This EU-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Ltd's ATEX Certification Scheme.

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17 **Schedule Drawings**

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by the Notified Body.

18 **Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
07 th June 2016	Original Issue.



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Blueprint Report

Flowserve US Inc (100002350)

Class No 3615

Original Project I.D. 3056447

Certificate I.D. FM16ATEX0006X

<u>Drawing No.</u>	<u>Revision Level</u>	<u>Drawing Title</u>	<u>Last Report</u>	<u>Electronic Drawing</u>
126165	9	Flame Paths of the Logix 1000&3000 Digital Positioner	3056447	Yes (pdf)
126173	3	Cover, Main Housing, Round Window, Logix 1000 Digital Positioner, Die Cast	3056447	Yes (pdf)
130821	4	Flame Arrestor, 0.625 Dia, 0.50 Logng, Logix 3000 Positioner	3056447	Yes (pdf)
130822	3	Flame Arrestor, 0.25 Dia, 0.50 Logng, Logix 1000 Positioner	3056447	Yes (pdf)
130911	1	Washer, Seal Ring LED Display, Logix 3000 Digital Positioner	3056447	Yes (pdf)
130912	2	Retaining Ring, Internal, Bowed, Waldes Traurc N5001-175	3056447	Yes (pdf)
130913	2	Window, LED Display, .25 Thick Glass, Lgoix 1000 Digital Positioner	3056447	Yes (pdf)
130914	3	Bearing, Positioner Feedback, Logix 1000 Digital Positioner	3056447	Yes (pdf)
137745	0	Cover, Spool Valve Logix 1000 Digital Positioner, Die Cast	3056447	Yes (pdf)
137747	1	Casting, Cover, User Interface, Logix 3000 Digital Positioner Die Cast	3056447	Yes (pdf)
137748	0	Cover, Customer Interface Logix 1000 Digital Positioner, Die Cast	3056447	Yes (pdf)
141390	3	Cover, Driver Module Logix 1000 Digital Positioner	3056447	Yes (pdf)
192039	0	Manifold, Driver Module, Detachable Spool, Logix 1000 Digital Positioner	3056447	Yes (pdf)
283434	5	Logix 520 Plus, 420, 3000+ Schedule Drawing	3056447	Yes (pdf)
283499	3	Auxiliary Schedule Drawing	3056447	Yes (pdf)
314975	0	Housing, Machining, NPT, Logix 3000 Plus Positioner	3056447	Yes (pdf)
331834	0	Shaft, Feedback, D, Logix 3200 Plus Positioner	3056447	Yes (pdf)
331840	0	Shaft, Feedback, Namur, Logix 3200 Plus Positioner	3056447	Yes (pdf)
331841	0	Shaft, Feedback, Remote Mount, Logix 3200 Plus Positioner	3056447	Yes (pdf)
331842	0	Housing, Machining, M20, Logix 3000 Plus Positioner	3056447	Yes (pdf)
346483	0	Sticker, Model Number, Logix 3000MD+ Positioner	3056447	Yes (pdf)
346484	0	Sticer, Certification Label, +28, Logix 3000MD+	3056447	Yes (pdf)
346485	0	Sticer, Certification Label, +34, Logix 3000MD+	3056447	Yes (pdf)
LGENIM0110-0	C	IOM, Instruction Manual	3056447	Yes (pdf)