IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx CSA 19.0008X

Issue No: 0

Certificate history:
Issue No. 0 (2019-03-19)

Status: **Current**

Date of Issue: **2019-03-19**

Applicant: **Tescom Corporation (Emerson)**
12616 Industrial Blvd
Elk River, MN 55330
United States of America

Equipment: **44-6800 Series Pressure Regulator**
Optional accessory:

Type of Protection: **Ex db Ex tb**

Marking:

Ex db IIB+H_2 T3 Gb; Ex tb IIIC T200°C Db

Integral versions:

T_{amb}: -40 °C to +65 °C

Remotely installed Pressure Regulator:

T_{amb}: -40 °C to +85 °C

Inlet Pressure: 0 to 6,000 Psi; Outlet Pressure: 0 to 500 Psi.

Process Sealed; Process Temperature: -40°C to 200°C

Approved for issue on behalf of the IECEx Certification Body: Dorin Stochitoiu

Position: Technical Advisor

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

CSA Group
178 Rexdale Boulevard
Toronto, Ontario M9W IR3
Canada

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Manufacturer: **Tescom Corporation (Emerson)**
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Elk River, MN 55330
United States of America

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC TS 60079-40 : 2015 Edition:1.0	Explosive atmospheres - Part 40: Requirements for process sealing between flammable process fluids

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

CA/CSA/ExTR19.0009/00

Quality Assessment Report:

NL/DEK/QAR12.0027/04

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The 44-6800 Series vaporizing regulator is a self-contained, spring loaded, pressure-reducing regulator and it is designed to supply heat to sample media entering different instrumentation systems. The regulator is made of two major components – pressure regulator (Bonnet) and the electronics enclosure. The pressure regulator is where the heat exchange is taking place. It contains a cartridge heater and thermocouple assembly. The pressure regulator is connected to the electronics enclosure by use of tapered threads enclosure entry. The electronics enclosure houses the electronics and the temperature controller and is installed in an ambient of +65°C. The pressure regulator or Bonnet may be installed remotely away from the electronics enclosure, in elevated ambient temperature up to +85°C, closer to the process installation.

The optical radiation of the status and backlighting LEDs within the apparatus, with respect to explosion protection, is covered in this certificate based on exception 1) to the scope of IEC 60079-28:2015.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Flameproof joints are not to be repaired.
2. Wiring entering and exiting the enclosure must be suitable for 95°C or higher.
3. The products covered by this certificate incorporate previously certified devices, therefore it is the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform CSA Group / Sira of any modifications of the devices that may impinge upon the explosion safety design of their products.
4. Unclosed conduit entry must be provided with Stopping Plugs suitable for Ex db IIB+H2 and Ex tb IIIC or better.

Annex:

Annex to IECEx CSA 19.0008X Issue 0.pdf

44-68	Pressure Regulator									
	-a-	Body Material								
	F	316 SST, Dursan coated								
	G	316 SST, Silconert 2000 coated								
	5	Hastelloy, not coated								
	6	316 SST, not coated								
	9	Monel, not coated								
		-b-	Outlet Pressure							
		0	0-25 Psi (0-172 kPa)							
		1	0-50 Psi (0-344 kPa)							
		2	0-100 Psi (0-688 kPa)							
		3	0-250 Psi (0-1720 kPa)							
		4	0-500 Psi (0-3440 kPa)							
			-c-	Heater rating (W)						
			D	100	400					
				-d-	Inlet and Outlet port Type					
				2	NPT					
				T	Tube Stub (104-107 MM end to end)					
				A	Internal Dual Ferrule Compression Tube					
				H	HPIC					
				1	SAE					
				6	Medium Pressure					
				R	VCR					
					-e-	Inlet and Outlet port Size				
					4	1/4” (6.35 mm)				
					6	3/8” (9.525 mm)				
					8	1/2 “ (12.7 mm)				
						-f-	Inlet Pressure			
						1	6,000 Psi (41,368 kPa)			
						2	3,500 Psi (24,132 kPa)			
							-gg-	Options		
							E-	Solid Cover without Display		
							E1	Glass Cover with LED Display		
							E2	Solid Cover with LED Display		
							E3	Separable Regulator and Enclosure (solid cover, no LED) (4 feet separation)		
							E4	Separable Regulator and Enclosure (glass cover, LED) (4 feet separation)		
							E5	Separable Regulator and Enclosure (solid cover, LED) (4 feet separation)		
								-h-	Gauge Port Options	
								--	Any, may denote LH, RH inlets, inlet angle, etc.	
									-iii-	Additional modifications within the scope of certification
									---	Three digit numerical value