





Type Examination Certificate

for Electrical Equipment used in Potentially Explosive Atmosphere

Issued by Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK	
Applicant	Swagelok Company 29500 Solon Road, Solon Ohio 44139 USA
Manufacturer name	Swagelok Company 29500 Solon Road, Solon Ohio 44139 USA
Product name	Electrically Vaporising Regulator
Type/model code	KEV***** See attachment 1
Type of protection	Flameproof
Group, Temperature Class and EPL	IIB+H2, T3, Gb
The equipment shall be marked with the following	Ex db IIB+H2 T3 Gb
Ratings	Ta = -20°C to +60°C 120/240 Vac, 50/60 Hz, 200 W max
Special condition for safe use	See attachment 2
Certificate number	CML 20JPN1269X
Term of validity	From 08-02-2021 to 07-02-2024 
	From 08-02-2024 to 07-02-2027 

This is to certify that the equipment specified above complies with the requirements stipulated in Ordinance on Examination of Machines and Other Equipment of the Ministry of Health, Labour and Welfare, Japan.

Issue date: 08-02-2024

Signature of chief examiner:



Attachment 1:Type/model code

Electrically Vaporising Regulator

KEV	1	F	R	A	3	2	2	A	X	0	0	0	G	H
	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV

I. Body Material

1 = 316 SS

4 = N04400 (Monel)

5 = N10276 (Hastelloy)

Note: Additional suffices denote special cleaning options. Not critical to the protection method.

II. Pressure Control Range

Diaphragm Sensing

C = 0 to 10 psig (0 to 0.68 bar) D = 0 to 25 psig (0 to 1.7 bar)

E = 0 to 50 psig (0 to 3.4 bar)

F = 0 to 100 psig (0 to 6.8 bar)

G = 0 to 250 psig (0 to 17.2 bar) J = 0 to 500

psig (0 to 34.4 bar)

Piston Sensing

L = 0 to 1000 psig (0 to 68.9 bar) M = 0 to 1500

psig (0 to 103 bar) N = 0 to 2000 psig (0 to 137

bar) P = 0 to 3000 psig (0 to 206 bar) R = 0 to

3600 psig (0 to 248 bar)

III. Maximum Inlet pressure

F = 100 psig (6.8 bar) (diaphragm sensing only)

J = 500 psig (34.4 bar) (diaphragm sensing only)

L = 1000 psig (68.9 bar) (diaphragm sensing only) R = 3600 psig (248 bar)

IV. Port Configuration

Not critical to the protection method

V. Ports

Not critical to the protection method

VI. Seat Material

Not critical to the protection method

VII. Flow Coefficient (C_v)

Not critical to the protection method



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Issue: 1

- VIII. Sensing Mechanism
Not critical to the protection method
- IX. Handle, Mounting
Not critical to the protection method
- X. Valves
Not critical to the protection method
- XI. Cylinder Connections
Not critical to the protection method
- XII. Gauges
Not critical to the protection method
- XIII. Heater, Controller
Not critical to the protection method
- XIV. Additional Characters
Not critical to the protection method
e.g. Any special order requirements not conflicting with protection method

Attachment 2: Special condition for safe use

1. Contact your authorized sales and service representative for any maintenance or repair beyond the maintenance of the heater sheath. Do not alter or disassemble any of the flameproof joints within a KEV Series Regulator.
2. There is a potential for air to be trapped within the piping system, thus creating the possibility of a combustible mixture. This could occur during system startup or shutdown. In order to allow the KEV heater tube to stabilize at ambient temperature, turn off power to the regulator during system startup and shutdown. The amount of time for the system to reach ambient conditions depends on several system parameters including (but not limited to): set point, flow rate, ambient temperature, and thermal properties of the system and fluid.