IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

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

Certificate No.:	**IECEx TPS 22.0057X**	Page 1 of 3	Certificate history:
Status:	**Current**	Issue No: 0	
Date of Issue:	2023-08-01		
Applicant:	**ATOS S.p.A.** via alla Piana, 57 I - 21018 Sesto Calende (VA) **Italy**		
Equipment:	**Intrinsically safe solenoids, types COW-100, COW-150, COW-100/M, COW-150/M**		
Optional accessory:			
Type of Protection:	**Intrinsic Safety "i"**		
Marking:	Ex ia IIC T6 Ga or Ex ia IIC T5 Ga or Ex ia I Ma (only /M version)		

Approved for issue on behalf of the IECEx Certification Body: **Dipl.-Ing. Ulrich Jacobs**

Position: **Technical Certifier**

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.

Certificate issued by:

TÜV SÜD Product Service GmbH
Ridlerstr. 65
D-80339 Munich
Germany

Product Service

IECEx Certificate of Conformity

Certificate No.: **IECEx TPS 22.0057X**

Date of issue: 2023-08-01 Issue No: 0

Manufacturer: **ATOS S.p.A.**
via alla Piana, 57
I - 21018 Sesto Calende (VA)
Italy

Manufacturing locations:

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 equipment 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 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2023 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:7.0

This Certificate **does not** indicate compliance with 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:

DE/TPS/ExTR22.0058/00

Quality Assessment Report:

IT/CES/QAR10.0003/12

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The intrinsically safe coils are permanently mounted device powered by intrinsically safe associate apparatus. These coils are used to command control valves, operating in hazardous areas with explosive environment.

The models are:

COW	(1)	(2)

COW	Coil for solenoid spool valves
(1)	Electrical details: "**100**" or "**150**". "**100**" stands for a rated coil resistance of 108Ω ± 5% (two poles, + and -) "**150**" stands for a rated coil resistance of 157Ω ± 5% (two poles, + and -)
(2)	Versions: "**/M**" or "**No character"** "**/M**" stands for mines, Ma, application "**No character**": stands for surface industry, Ga, application

EPL Ga : flammable gas, vapours, mists	**EPL Ma : firedamp mines**
Ui = 30V Ii = 800mA Pi = 3W Ci≈0, Li≈0 Ri = 149,15 Ω (150 Version) or Ri = 102,6 Ω (100 Version) T6: Tamb = -40°C ≤ Tamb ≤ 60°C	Ui = 30V Ii = 2200mA Pi = 6,82W Ci≈0 Li≈0 Ri = 149,15 Ω (150 Version) or Ri = 102,6 Ω (100 Version) Tamb = -40°C ≤ Tamb ≤ 60°C
Ui = 30V Ii = 2200mA Pi = 6,82W Ci≈0, Li≈0 Ri = 149,15 Ω (150 Version) or Ri = 102,6 Ω (100 Version) T5: Tamb = -40°C ≤ Tamb ≤ 60°C T6: Tamb = -40°C ≤ Tamb ≤ 45°C	-

Ingress protection: IP65 or IP66/67 with a mating connector suitable for the protection class

SPECIFIC CONDITIONS OF USE: YES as shown below:
- The ambient temperature can be: Tamb = -40°C to +60°C or -40°C to +45°C.

- In order to avoid electrostatic charges: clean only with wet clothes or antistatic products with off power supply.