Base Load Power Hub (BLPH)

NITROGEN GENERATION PACKAGE
ATEX DOCUMENTATION

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CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **KEMA 08ATEX0090X** Issue Number: **7**

(4) Product: **Transmitter Model 2051, Type 2051C, 2051L, 2051T, 2051CFA, 2051CFC and 2051CFP**

(5) Manufacturer: **Rosemount Inc.**

(6) Address: **6021 Innovation Blvd, Shakopee, MN 55379, USA**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential test report number NL/KEM/ExTR07.0072/06.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0 : 2018 **EN 60079-1 : 2014** **EN 60079-26 : 2015**

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:



II 1/2 G Ex db IIC T6...T4 Ga/Gb

Date of certification: 30 January 2024

DEKRA Certification B.V.



L.G. van Schie
Certification Manager

Throughout this document, a point is used as the decimal separator.

PRODUCTS RvA C 001

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DEKRA Certification B.V. Meander 1051, 6825 MJ Arnhem P.O. Box 5185, 6802 ED Arnhem The Netherlands
T +31 88 96 83000 F +31 88 96 83100 www.dekra-product-safety.com Registered Arnhem 09085396

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate KEMA 08ATEX0090X** Issue No. **7**

(15) **Description**

Transmitter Model 2051, Type 2051C, 2051L, 2051T, 2051CFA, 2051CFC and 2051CFP, are microprocessor based transmitters in type of protection flameproof “d” and used to convert the measured process pressure into digital or analog signals.

Type designation

2051	**C**	**A**	**…**
I	II	III	variants

Designation	Explanation	Value	Explanation
I	Model	2051	Transmitter
II	Type	C T L CFA CFC CFP	Coplanar Inline Liquid Level Annubar Flowmeter Compact Flowmeter Integral Orifice Flowmeter
III	Signal Output	A F W M	4-20 mA w/ HART Foundation fieldbus Profibus PA Low Power 1-5 V Hart

Variants

Static Pressure Ranges	0,1,2,3,4,5, 5A,P9	689 bar maximum pressure
Isolating diaphragm material	2 3 4 5 6 7	316L SST Alloy C-276 Alloy 400 Tantalum Gold Plated Alloy 400 Gold Plated SST
Ex d housing material and entries	A B E F J K	Aluminum ½ NPT Aluminum M20x1.5 Low Copper Aluminum ½ NPT Low Copper Aluminum M20x1.5 SST ½ NPT SST M20x1.5
Display and Interface Options	- M4 M5	No Display LCD Display with Operator interface LCD Display
Temperature option For Models 2051CFA, 2051CFC and 2051CFP only.	0 T R	No temperature option Integral RTD Remote thermowell and RTD
Conduit Electrical Connector	Custom	Not in scope of this certificate
Wireless Options	Custom	Not in scope of this certificate

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate KEMA 08ATEX0090X** Issue No. **7**

Non-standard paint	Custom	Condition as listed in the certificate applies
Note: Other variants may appear in the Type designation, but are not relevant for this certificate.		

Thermal data

The relation between process connection temperature, ambient temperature and temperature class is as follows:

Process connection temperature range [°C]	Ambient temperature range [°C]	Temperature class
-60 to +70	-60 to +70	T6
-60 to +80	-60 to +80	T5
-60 to +120	-60 to +80	T4

Electrical data

Power supply: 9 – 28 Vdc, 9 – 32 Vdc or 10.5 – 42.4 Vdc; 1 W
Output: 4 – 20 mA with digital HART, a fieldbus signal or a low power 1 – 5 Vdc signal

Installation instructions

The manufacturers instructions shall be followed in detail to assure safe operation.

(16) **Report Number**

NL/KEM/ExTR07.0072/06.

(17) **Specific conditions of use**

This device contains a thin wall diaphragm less than 1 mm thick that forms a boundary between Category 1G (process connection) and Category 2G (all other parts of the equipment). The model code and datasheet are to be consulted for details of the diaphragm material. During installation, maintenance and use the environmental conditions to which the diaphragm will be subjected shall be taken into account. The manufacturer's instructions for installation and maintenance shall be followed in detail to assure safety during its expected lifetime.

Flameproof joints are not intended for repair.

Non-standard paint options may cause risk from electrostatic discharge. Avoid installations that could cause electrostatic build-up on painted surfaces, and only clean the painted surfaces with a damp cloth. If paint is ordered a special option code, contact the manufacturer for more information.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/KEM/ExTR07.0072/06.

EU-Konformitätserklärung
EU Declaration of Conformity

Dokument Nr. / ***Document No.*** **11564220** — **Revision** / ***Issue*** **07**

Wir erklären in alleiniger Verantwortung, dass die mit CE gekennzeichneten Produkte
We declare under our sole responsibility that the CE marked products

Typenbezeichnung / ***Type Designation***

23a.50.063 + option ATEX | **23a.50.1*0 + option ATEX**
26a.50.063 + option ATEX | **26a.50.1*0 + option ATEX**
23a.30.063 + option ATEX | **23a.30.1*0 + option ATEX**
26a.30.063 + option ATEX | **26a.30.1*0 + option ATEX**
23a.53.063 + option ATEX | **23a.53.100 + option ATEX**
23a.54.063 + option ATEX | **23a.54.100 + option ATEX**
23a.36.1*0 + option ATEX
PG23LT.063 + option ATEX | **PG23LT.1*0 + option ATEX**
PG23CP.063 + option ATEX | **PG23CP.100 + option ATEX**
PG28.1*0 + option ATEX
PG23HP-S.1*0 + option ATEX | **PG23HP-P.1*0 + option ATEX**

*** Nominal size**
0 = 100mm
6 = 160mm

a Case filling
2 = Without case filling
3 = With case filling

Beschreibung / ***Description***: **Rohrfederdruckmessgerät** / ***Bourdon Tube Pressure Gauge***

gemäß gültigem Datenblatt / *according to the valid data sheet*: PM 02.02, PM 02.04, PM 02.12, PM 02.15, PM 02.22, PM 02.24, PM 02.32, PM 02.28, PM 02.29

mit den nachfolgenden relevanten Harmonisierungsvorschriften der Union übereinstimmen
are in conformity with the following relevant Union harmonisation legislation

Angewandte harmonisierte Normen oder sonstige technische Spezifikationen:
Applied harmonised standards or other technical specifications:

2014/68/EU	Druckgeräterichtlinie (DGRL) (1) *Pressure Equipment Directive (PED)* (1)	
2014/34/EU	Explosionsschutz (ATEX) (2) *Explosion protection (ATEX)* (2)	
Ex	II 2G Ex h IIC T6 … T1 Gb X II 2D Ex h IIIC T85 °C … T450 °C Db X	EN ISO 80079-36 :2016 EN ISO 80079-37 :2016

(1) PS > 200 bar; Modul A, druckhaltendes Ausrüstungsteil
PS > 200 bar; Module A, pressure accessory

(2) Modul A „interne Fertigungskontrolle“. Die Dokumentation ist hinterlegt unter der Nummer 074/24 bei der Notifizierten Stelle der EU, IBExU Institut für Sicherheitstechnik GmbH (EU ID-Nr. 0637).
Module A “Internal Control of Production”. The Documentation is deposited under registration number 074/24 at Notified Body of EU, IBExU Institut für Sicherheitstechnik GmbH (EU ID 0637). .

Unterzeichnet für und im Namen von / *Signed for and on behalf of*

WIKA Alexander Wiegand SE & Co. KG

Klingenberg, 2024-04-24

Sascha Schnellbacher, Vice President
CoE Gauges, Sensors & Instruments

Mariusz Lubomski, Director of Quality
CoE Gauges, Sensors & Instruments

2 **Appareil ou système de protection destiné à être utilisé en atmosphères explosibles**
Equipment and protective systems intended for use in potentially explosive atmospheres

Directive 2014/34/UE
Directive 2014/34/EU

1 # ATTESTATION D'EXAMEN UE DE TYPE
EU-TYPE EXAMINATION CERTIFICATE

3 Numéro de l'attestation d'examen UE de type / *Number of the EU-Type Examination Certificate*

INERIS 21ATEX0021X INDICE / *ISSUE* : 00

4 Appareil ou système de protection / *Equipment or protective system*:

Analyseur de gaz TYPE XMTC & Analyseur d'oxygène TYPE XMO2
Gas analyzer TYPE XMTC & Oxygen analyzer TYPE XMO2

5 Fabricant / *Manufacturer*: **Panametrics LLC**

6 Adresse / *Address*: **1100 Technology Park Drive**
Billerica MA 01821
United States of America

7 Cet appareil ou système de protection et toute autre variante acceptable de celui-ci sont décrits dans l'annexe de la présente attestation et dans les documents descriptifs cités dans cette annexe.

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

8 L'Ineris, organisme notifié et identifié sous le numéro 0080, conformément aux articles 17 and 21 de la directive 2014/34/UE du parlement européen et du conseil, datée du 26 février 2014, et accrédité par le Cofrac sous le n° 5-0045 dans le cadre de l'activité de certification de produits et services (portée disponible sur www.cofrac.fr) certifie que cet appareil ou système de protection répond aux exigences essentielles de sécurité et de santé en ce qui concerne la conception et la construction des appareils et des systèmes de protection destinés à être utilisés en atmosphères explosibles, décrites en annexe ii de la directive.

Ineris, notified body and identified under number 0080, in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, and accredited by COFRAC under number 5-0045 for certification of products and services (scope of accreditation available on the website www.cofrac.fr), certifies that this equipment or protective system fulfils the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

Les procédures de certification sont disponibles sur www.ineris.fr.
The rules of certification are available on Ineris website on: www.ineris.fr.

Les examens et les essais sont consignés dans le rapport :
The examinations and the tests are recorded in report:

N° **036541**

IM-1915AD - Mise en application le 06 mars 2020

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Only the entire document including annexes may be reprinted.

Institut national de l'environnement industriel et des risques
Parc technologique Alata • BP 2 • F-60550 Verneuil-en-Halatte
www.ineris.fr
Établissement public à caractère industriel et commercial • RCS Compiègne B 381 984 921 - Siret 381 984 921 00019 • 7120B - TVA Intracom FR 73 381 984 921

9 Le respect des exigences essentielles de sécurité et de santé est assuré par :

The respect of the Essential Health and Safety Requirements has been assured by:

- la conformité à / *Conformity with:*

  EN IEC 60079-0 : 2018
  EN 60079-1 : 2014

- les solutions spécifiques adoptées par le fabricant pour satisfaire aux exigences essentielles de sécurité et de santé décrites dans les documents descriptifs /

  Specific solutions adopted by the manufacturer to meet the Essential Health and Safety Requirements described in the descriptive documents

10 Si le signe X est placé à la suite du numéro de l'attestation d'examen UE de type, il indique que cet appareil ou système de protection est soumis à des conditions spéciales d'utilisation, mentionnées dans l'annexe de la présente attestation.

If the sign X is placed after the number of the EU type examination certificate, it indicates that this equipment and protective system is subject to the Specific Conditions of Use, mentioned in the annex of this certificate.

11 Cette attestation d'examen UE de type se rapporte uniquement à la conception, aux examens et essais de l'appareil ou système de protection spécifié conformément à la directive 2014/34/UE. D'autres exigences de cette directive s'appliquent à la fabrication et à la fourniture de cet appareil ou système de protection, celles-ci ne sont pas couvertes par cette attestation.

This EU-Type Examination Certificate relates only to the design, examinations 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 requirements are not covered by this certificate.

12 Le marquage de l'appareil ou du système de protection doit contenir :

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

Ex II 2 G

Verneuil-en-Halatte, 2022-02-14

Le directeur général de l'Ineris
Par délégation
The Chief Executive Officer of Ineris
By delegation

IM-1915AD - Mise en application le 06 mars 2020

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13 A N N E X E

15 DESCRIPTION DE L'APPAREIL OU DU SYSTEME DE PROTECTION :

Le XMTC et le XMO2 sont des boîtiers cylindriques antidéflagrants qui peuvent être fabriqués en acier inoxydable ou d'un alliage d'aluminium. Les pare-flammes sont certifiés et couverts par le numéro de certificat INERIS 12ATEX9013U selon les normes EN IEC 60079-0:2018 et EN 60079-1:2014.

Le XMTC mesure la concentration d'un gaz dans un mélange de gaz binaire en mesurant la conductivité thermique du gaz échantillon et en la comparant à la conductivité thermique du gaz de référence sélectionné. Le XMO2 mesure la concentration d'oxygène dans un mélange gazeux en utilisant les propriétés paramagnétiques uniques de l'oxygène.

Les deux modèles utilisent des entrées ¾" de NPT. L'équipement est mis à la terre intérieurement et extérieurement par des connexions de terre vissées et sont clairement marqués sur les enveloppes. Le XMO2 et le XMTC sont tous deux évalués à 24 Vdc, 25 Watts.

PARAMETRES RELATIFS A LA SECURITE :

Tension nominale : 24 VDC
Puissance nominale : 25 W
Pour le système de confinement, la pression maximale interne est 2 barg / 0.3 MPa.

MARQUAGE :

Le marquage doit être lisible et indélébile ; il doit comporter les indications suivantes :

Panametrics LLC
Billerica MA 01821, USA
XMTC ou XMO2
INERIS 21ATEX0021X
(Numéro de série)
(Année de construction)
⟨Ex⟩ II 2 G
Ex db IIC T6 Gb
T. Amb = -20°C à + 65°C pour XMTC
T. Amb = -20°C à + 55°C pour XMO2

AVERTISSEMENTS :
NE PAS OUVRIR EN PRESENCE D'UNE ATMOSPHERE EXPLOSIVE

L'ensemble du marquage peut être réalisé dans la langue du pays d'utilisation.

L'appareil ou le système de protection doit aussi porter le marquage normalement prévu par les normes de construction qui le concernent.

13 A N N E X

15 DESCRIPTION OF THE EQUIPMENT OR THE PROTECTIVE SYSTEM:

The XMTC and XMO2 are cylindrical flameproof enclosures that can be made from either stainless steel or aluminum alloy. The flame arrestors are certified and covered by the certificate number INERIS 12ATEX9013U in accordance with the standards EN IEC 60079-0:2018 and EN 60079-1:2014.

The XMTC measures the concentration of a gas in a binary gas mixture by measuring the thermal conductivity of the sample gas and comparing it to the thermal conductivity of selected gas reference. The XMO2 measures the concentration of oxygen in a gas mixture by utilizing the unique paramagnetic properties of oxygen.

Both models utilize ¾" NPT entries. The equipment is earthed internally and externally via screwed earthing connections and are clearly marked on the enclosures. Both the XMO2 and XMTC are rated 24 Vdc, 25 Watts.

PARAMETERS RELATING TO THE SAFETY:

Rated voltage: 24 VDC
Maximum power: 25 W
For the containment system, the maximum internal pressure is 2 barg / 0.3MPa.

MARKING:

Marking has to be readable and indelible; it has to include the following indications:

Panametrics LLC
Billerica MA 01821, USA
XMTC or XMO2
INERIS 21ATEX0021X
(Serial Number)
(Year of Construction)
⟨Ex⟩ *II 2 G*
Ex db IIC T6 Gb
T. Amb. = -20°C to +65°C for XMTC
T. Amb. = -20°C to +55°C for XMO2

WARNINGS :
DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

Marking may be carried out in the language of the country of use.

The protective system or equipment has also to carry the marking normally stipulated by its construction standards.

IM-1915AD - Mise en application le 06 mars 2020

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EXAMENS ET ESSAIS INDIVIDUELS :

Conformément au § 16.2 de la norme EN 60079-1, le matériel est dispensé de l'épreuve individuelle compte tenu du fait qu'il a subi un essai de type sous 19.92 bar (soit 4 fois la pression de référence).

Conformément au § G.4.1 de la norme EN 60079-1, le système de confinement est dispensé de l'épreuve individuelle compte tenu du fait qu'il a subi un essai de type sous 8 bar (soit 4 fois la pression interne maximum).

ROUTINE EXAMINATIONS AND TESTS:

In accordance with clause 16.2 of the EN 60079-1 standard, the equipment is exempted of routine test due to the fact that it has undergone a static type test at 19.92 bar (i.e. 4 times the reference pressure).

In accordance with clause G.4.1 of the EN 60079-1 standard, the containment system is exempted of routine test due to the fact that it has undergone a static type test at 8 bar (i.e. 4 times the maximum internal pressure).

16 DOCUMENTS DESCRIPTIFS :

Les documents descriptifs cités ci-après, constituent la documentation technique de l'appareil, objet de la présente attestation.

16 DESCRIPTIVE DOCUMENTS:

The descriptive documents quoted hereafter constitute the technical documentation of the equipment, subject of this certificate.

Titre / *Title*	Réf. / *Ref.*	Rév. / *Rev.*	Date / *Date*
Certification drawing XMO2 XMTC (sheets 1 to 4)	752-168 rev G – SWD/000/00	G	2022.01.14
Certification and Safety statements for the Panametrics XMO2 Gas Analyzer (Sheets 1 & 2)	CSS-0007B (XMO2)	B	2022.01
Certification and Safety statements for the Panametrics XMTC Gas Analyzer (Sheets 1 & 2)	CSS-0006B (XMTC)	B	2022.01

17 CONDITIONS SPECIALES D'UTILISATION :

- Les joints antidéflagrants ont des valeurs différentes de celles spécifiées dans la norme EN 60079-1. Contactez le fabricant pour toute réparation.
- Le débit d'entrée maximum est de 2.667 L/min. Un limiteur de débit en amont est requis.
- Pour XMO2, la concentration maximale d'oxygène est de 21%.

Les autres conditions d'utilisation sont définies dans la notice d'instructions.

17 SPECIFIC CONDITIONS OF USE:

- *The flameproof joints have different values from those specified in the EN 60079-1 standard. Contact manufacturer before attempting any repairs.*
- *The maximum inlet flow rate is 2.667 L/min. An up-stream flow limiting device is required.*
- *For XMO2, the maximum oxygen concentration is 21%.*

The other conditions of use are stipulated in the instructions.

18 EXIGENCES ESSENTIELLES DE SECURITE ET DE SANTE :

Le respect des exigences essentielles de sécurité et de santé est assuré par :

- La conformité aux normes listées au paragraphe (9).
- L'ensemble des dispositions adoptées par le constructeur et décrites dans les documents descriptifs.

18 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS:

The respect of the Essential Health and Safety Requirements is ensured by:

- *Conformity to the standards quoted in clause (9).*
- *All provisions adopted by the manufacturer and defined in the descriptive documents.*

IM-1915AD - Mise en application le 06 mars 2020

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eurofins | Product Testing

[1] # EU-TYPE EXAMINATION CERTIFICATE

[2] **Equipment and Protective System intended for use in potentially explosive atmospheres Directive 2014/34/EU – Annex III**

[3] Certificate Number: **EPT 12 ATEX 0784** **Issue 2**

[4] Equipment: **Solenoid valves and Electromagnetic devices**

Series: **L, C, D, E, F, G, VL, VC, VD, VE, VF, VG, H, VH** ($-20 \leq T_{amb} \leq +xx$)

Manufacturer: **NADI S.r.l.**

[6] Address: Via Risorgimento, 10 – 20017 Mazzo di Rho (MI) – Italy

[7] This equipment and its accepted variations are specified in the annex to this Certificate.

[8] Eurofins Product Testing Italy S.r.l., Notified Body n. 0477 in accordance with Article 21 of the Directive 2014/34/EU of the European Parliament and of the Council 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 of the Directive.
The examination and test results are recorded in the confidential Report N° EPT.19.REL.01/1319026

[9] Compliance with the essential health and safety requirements is assured through the verification of them and by compliance with the harmonized standards :

EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-31:2014,
EN 60079-26:2015, EN ISO 80079-36:2016, EN ISO 80079-37:2016
and with the standard **EN 60079-0:2018**

[10] If the sign "X" is placed after the Certificate number, it indicates that the equipment is subject to the special conditions for safe use specified in the annex to this Certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design, the exam and the tests of the specified equipment.
Further requirements of the Directive 2014/34/EU apply to the manufacture and supply of this equipment. These requirements are not object of this Certificate.

[12] The equipment shall include the symbols Ⓔx **II 1G/2GD** and at least one of the following strings:

Ex h IIC (or IIB+H2 *) TX Ga **$-20°C \leq T_{amb} \leq +xx°C$**
Ex db IIC (or IIB+H2 *) TX Ga/Gb
Ex tb IIIC TX°C Db
* See the equipment description for more details

Place and date of issue:
Torino, 2019-08-28

CE

Dionisio Bucchieri
Directive Responsible

Paolo Trisoglio
Managing Director

Eurofins Product Testing Italy
eurofins
Notified Body N. 0477

ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO
PRD N° 119B
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

This Certificate has 4 pages and it is reproducible only in its entirety. Conditions of validity are reported below.

[13] [14] **ANNEX**
EU-TYPE EXAMINATION CERTIFICATE N. EPT 12 ATEX 0784 Issue 2

[15] **Equipment description**

The solenoid valves and electromagnetic devices are divided into the following series, identifiable through the first alphabetical letters of the product code:
Solenoid valves: **L, C, D, E, F, G, VL, VC, VD, VE, VF, VG**
Electromagnetic devices series: **H, VH**
They are used to control the flow of flammable and/or inert gas or liquids in a potential explosive atmosphere.

The solenoid valve is composed of a flameproof enclosure (which contains the electromagnetic device) and a valve.
The electromagnetic device is composed of a flameproof enclosure (which contains the solenoid).

The flameproof enclosure is made of light alloy GAlSi4.5MnMg colored anodized (colored) or painted (if painted the paint used has a maximum thickness of 200 µm) and silicone gaskets.
The body of the valve can be made of brass UNI 5705/ UNI 4893, nickel-plated brass UNI 5705/ UNI 4893, bronze UNI 7013 (only for gas group IIB+H2), stainless steel AISI 303/AISI 304/AISI 316/AISI 316L, Al light alloys (not permitted for inflammable gas or liquids), or Carbon steel while the seals materials can be NBR, viton, urepan, PTFE, rulon, metallic, neoprene, EPDM, HNBR, kalrez or special.

The equipment is suitable for groups IIC, IIB+H2 and group IIIC. It has respectively the type of protection "Ex db", "Ex h" and "Ex tb".

Electrical characteristics

Maximum voltage: from 6 V to 400 Vdc or 400 Vac
Rated frequency: 50 or 60 Hz
Maximum power dissipation: 11W or 26W

Degree of protection: IP 67 (1m of depth 40 min, according to EN 60079-0 and IEC 60529)
Ambient temperature. from -20 to +40 °C (or from -20°C to +60 °C)

The temperature class and maximum surface temperature depends on the ambient temperature and on the nominal power of the solenoid valve coil according to the following table:

Maximum ambient temperature	P≤11W	P≤26W
+40°C	T6 and T65°C	T5 and T87°C
+60°C	T5 and T85°C	T4 and T107°C

Cable entries

The cable entry devices used on the enclosures must be suitably ATEX certified. They must be chosen according to the type of protection, the type of thread, the degree of protection of the equipment and with suitable operative temperatures as detailed in the following table.

Range of ambient temperature of the equipment	Operative temperature for cable glands
From -20°C to +40 °C	From -20°C to +65 °C
From -20°C to +60 °C	From -20°C to +85 °C

Screws
None

[13] [14]

ANNEX
EU-TYPE EXAMINATION CERTIFICATE N. EPT 12 ATEX 0784 Issue 2

The solenoid valves are identified by the code:	①	00÷99	②	00÷99	③	④	⑤	⑥
The electromagnetic devices are identified by the code:	H	②	0000÷9999	⑤	⑥			
While customized codes are identified by the code:	V	①	②	0000÷9999		④	⑤	⑥

Where:

DIGITS	①	②	③	④	⑤	⑥

Device type

L	2 way solenoid valves
C	3 way solenoid valves
D	5 way solenoid valve
E	2 way manual reset sol. valves
F	3 way manual reset sol. valves
G	5 way manual reset sol. valves
H	Electromagnetic devices

Body material

T	Brass UNI-5705/ UNI-4893
N	Nickel plated brass UNI5703 / UNI4893
B	Bronze UNI 7013 (Gas group IIB+H2)
H	Stainless steel AISI 303 UNI -X10CrNiS1810 AISI 304 UNI -X10CrNiS1810
I	Stainless steel AISI 316 UNI -X5CrNiMo1712 AISI315L UNI –X2CrNiMo1712
L	Al Light Alloys
C	Carbon steel

Connection types
(See safety instructions document)

Seals material

0	NBR (Buna N)
1	VITON
2	UREPAN
3	PTFE o RULON
4	Metallic
5	Neoprene
6	EPDM
7	HNBR
8	KALREZ
9	SPECIAL

Protection degree

C	Ex-db h IIC IP67 Ex tb IIIC

Options

	No option
W	Stable Manual Operator
X	Instable Manual Operator
Y	Transmission pin
/Ap	High pressure version
/SG	Degreasing for O2
/LT	ATEX Housing for Tamb -60°C
/C	Antinoise Condenser
/V	Varistor (spikes suppressor)
/LC	Low consumption coil
/SF	Silicone Lubricants free

Numbers "**00÷99**" and "**0000÷9999**" aren't relevant for the types of protection, details contained in manufacturer's documents.

[13] [14] **ANNEX**
EU-TYPE EXAMINATION CERTIFICATE N. EPT 12 ATEX 0784 Issue 2

Warning label
After de-energizing delay 15 min before opening.
Joints cannot be repaired

Routine tests
None

[16] **Assessment Report n° EPT.19.REL.01/1319026**
This EU-Type Examination Certificate is released after the positive result of the conformity assessment of the Council Directive 2014/34/EU and to harmonized technical standards listed in this Certificate; performed by the Notified Body Eurofins Product Testing Italy S.r.l., and reported in the Assessment Report above cited.

[17] **Special condition of use**
Not present

[18] **Essential Health and Safety Requirements**
Assured by compliance with harmonized standards.

[19] **Descriptive documents**
The equipment object of this Certificate is described by the following documents that are scheduled documents and therefore they cannot be modified without the explicit authorization of the Notified Body.

Document	Name	Rev	Date
Safety instructions	3860	5	2019/02
Drawing	3870	1	2019/02/19
Drawing	3870A	1	2019/02/19
Drawing	3870B	0	2003/01/09
Marking plate Atex	3880	3	2019/02/19

[20] **Terms and conditions**
The product liability rests with the Manufacturer, his representative or, in the absence of a representative, with the importer, in accordance with the General Product Safety Directive 2001/95/EC.
The following conditions may render this certificate invalid:
- changes in the design or construction of the product;
- changes or amendments to the 2014/34/EU Directive;
- changes or amendments in the standards which form the basis for documenting compliance with the essential requirements of the 2014/34/EU Directive.

[21] **Certificate History**
This Certificate is at its first issue and replace the EC-TYPE EXAMINATION CERTIFICATE n. EUM1 12 ATEX 0784 and its Supplement n. 1.

Issue	Description	Issue date
0	First issue	2012-09-07
1	Change of o-rings material and standard update	2015-06-06
2	Standard update (EN 60079-0, EN 60079-26, EN ISO 80079-36, EN ISO 80079-37)	2019-08-28

ACCREDIA L'ENTE ITALIANO DI ACCREDITAMENTO
PRD N° 119B
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

Dionisio Bucchieri
Directive Responsible

End of Certificate