[1] # EU-TYPE EXAMINATION CERTIFICATE

[2] **Equipment or Protective System intended for use in potentially explosive atmospheres - Directive 2014/34/EU – Annex III – MODULE B: EU-TYPE EXAMINATION**

[3] EU-type Examination Certificate number: **IMQ 24 ATEX 049X**

[4] PRODUCT: **Cable glands and Protection Tap**
TYPE/SERIES: **GHG960 9249 P****; GHG960 9250 P000***

[5] MANUFACTURER: **Cooper Crouse-Hinds GmbH**

[6] ADDRESS: **Neuer Weg-Nord 49 - D69412 Eberbach - Germany**

[7] This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documents therein referred to.

[8] IMQ, notified body N° 0051, 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 equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in Report No.: **AT24-0103556-01**

[9] Compliance with Essential Health and Safety Requirements, except in respect of those listed at item 18 of the annex, has been assured by compliance with:

EN IEC 60079-0:2018; EN 60079-7:2015; EN IEC 60079-7:2015/A1:2018; EN 60079-31:2014

Other reference standard: EN IEC 60079-31:2024

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe 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 equipment or protective system shall include the following:

II 2 GD **Ex eb IIC Gb**
Ex tb IIIC Db

THIS CERTIFICATE CANCELS AND REPLACES THE PREVIOUS ONE. IT INCLUDES 1 ANNEX.

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CURRENT ISSUE	2024/08/02
PREVIOUS ISSUE	-
EXPIRING DATE	2034/06/13

B.U. PRODUCT
CERTIFICATION SECTOR - MANAGER

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[15] **Description of product:**

The polyamide cable gland type GHG960 9249 P**** are used to introduce permanently circular cables into enclosure.
Cable glands are suitable for electrical equipment either with type of protection Ex-e or type of protection Ex-t. Cable glands could be also used for intrinsically safe circuits Ex-i.
Cable glands GHG960 9249 P**** are provided with single (S1) or double (S1+S2) sealing rings.
Cable glands can be supplied with protective tap, polyamide made, as accessory (GHG960 9250 P000*), suitable to guarantee IP degree when installed according to manufacturer's instructions.
Additionally, dust plugs are used for Ex polyamide cable glands to protect the glands from dust during the shipment. It is taken out during installation.
Details on sealing rings material, flat washer (placed between the body and the cover of enclosures) materials and limitations are listed in Table 1.
List of all models and further details are included in the Operating instructions/ GHG 960 7004 P0001 D/GB/F (-).
The cable glands and plugs can be factory made with the following threads:
•Metric ISO pitch 1,5 (ISO 965/1, ISO 965/2, ISO 965/3)

Table 1: materials and service temperatures

Series	Service temperature [1]	Sealing rings material	Flat washer materials	Oring materials	Mechanical risk
GHG960 9249 P****	-55 ÷ +70 °C	silicone	silicone	silicone	Low (4J)
	-45 ÷ +70 °C				High (7J)
	-20 ÷ +70 °C				Low (4J)

Notes
[1] Service temperature is related to material of sealing rings and polyamide which cable glands body is made of, but can be additionally limited by material of flat washer silicone (-60÷180 °C. The use of these materials in flat washer has to be taken into account in determination of lower limit of service temperature of cable glands, while upper limit is 70°C for all other models.

The cable glands, fitted with insert cap or not, are suitable for gas and dust atmosphere (II2GD).
The temperature range is detailed in Table 1 above.
All cable glands must be supplied with flat washer/O-ring for IP protection.

[15.1] **Models/Series Identification:**

Sizes of models, recommended torque and (for cable glands) range of diameter for suitable cables are shown in following tables. S1 means single sealing ring mounted inside cable gland. S1+S2 means double sealing rings mounted inside cable gland.

GHG960 9249 P**** Models			
Eaton Model	Min-max cable [mm]		Mechanical risk
	S1+S2	S1	
GHG960 9249 P0012 GHG960 9249 P0112	4-6	6-10	4J @ -20°C÷+70°C
GHG960 9249 P0002 GHG960 9249 P0102	4-6	6-10	4J @ -20°C÷+70°C
GHG960 9249 P0013 GHG960 9249 P0113	6-7.5	7.5-11	7J @ -45°C÷+70°C 4J @ -55°C÷+70°C
GHG960 9249 P0003 GHG960 9249 P0103	6-7.5	7.5-11	7J @ -45°C÷+70°C 4J @ -55°C÷+70°C
GHG960 9249 P0019 GHG960 9249 P0119	9-13	13-15	7J @ -45°C÷+70°C 4J @ -55°C÷+70°C
GHG960 9249 P0014 GHG960 9249 P0114	9-13	13-17	4J @ -55°C÷+70°C
GHG960 9249 P0009 GHG960 9249 P0109	9-13	13-15	7J @ -45°C÷+70°C 4J @ -55°C÷+70°C
GHG960 9249 P0004 GHG960 9249 P0104	9-13	13-17	4J @ -55°C÷+70°C
GHG960 9249 P0015 GHG960 9249 P0115	12-16	16-21	7J @ -45°C÷+70°C 4J @ -55°C÷+70°C
GHG960 9249 P0005 GHG960 9249 P0105	12-16	16-21	7J @ -45°C÷+70°C 4J @ -55°C÷+70°C

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GHG960 9249 P0016 GHG960 9249 P0116	17-21	21-28	7J @ -45°C÷+70°C 4J @ -55°C÷+70°C
GHG960 9249 P0006 GHG960 9249 P0106	17-21	21-28	7J @ -45°C÷+70°C 4J @ -55°C÷+70°C
GHG960 9249 P0007 GHG960 9249 P0107	24-31	31-38	7J @ -45°C÷+70°C 4J @ -55°C÷+70°C
GHG960 9249 P0008 GHG960 9249 P0108	28-35	35-44	7J @ -45°C÷+70°C 4J @ -55°C÷+70°C

HG960 9250 P000* Models			
Model	**Type**	**Material**	**Service temperature and Mechanical risk**
GHG960 9250 P0002	M16	Polyamide	The mechanical risk shall be in accordance with ones of cable glands on which the blanking plugs are installed.
GHG960 9250 P0003	M20		
GHG960 9250 P0004	M25		
GHG960 9250 P0005	M32		
GHG960 9250 P0006	M40		
GHG960 9250 P0007	M50		
GHG960 9250 P0008	M63		

Key code:

Table 2: key code		
GHG960 9249 P 1 2 3 4	1 : Material	0 : Polyamide
	2 : Cap color	0 : Black 1 : Light Blue
	3 : Thread length	1 : Short 0 : Long
	4 : Gland Size	2 : M16 3 : M20 4 : M25 5 : M32 6 : M40 7 : M50 8 : M63 9 : M25
	Thread type:	"M" – Metric ISO pitch 1,5 (ISO 965/1 and ISO 965/3)
	Size and dimensions	According to EA3-X2
	Sealing Material	Silicone seal
GHG960 9250 P000 1	1 : Plug Size	2 : M16 3 : M20 4 : M25 5 : M32 6 : M40 7 : M50 8 : M63
		According to EA3-14-IEC.21
		Black colour

Locknut can be used to tight the cable gland on enclosure, in case of plain hole.

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[15.2] **Ratings:**

For minimal and maximal diameters of permitted cables and torque values, see instructions manual GHG 960 7004 P0001 D/GB/F (-).

[15.3] **Safety Ratings:**

None

[15.4] **Ambient temperature and temperature classes:**

See "GHG960 9249 P**** Models Table" on page 2

[15.5] **Degree of protection (IP code):** IP66/68 (5 bar; 0.5 h)

[15.6] **Warnings:**

For gas installations (only for cable glands with M50 threads and following) and dust installations: Warning. Potential electrostatic charging hazard - See instructions. Clean only with antistatic clothes.

[16] **Report**: AT24-0103556-01

[16.1] **Routine (factory) tests:**

The manufacturer shall carry out the routine test prescribed at clauses 27 of the EN 60079-0.

[16.2] **Conformity with the documentation:**

The manufacturer shall carry out the verifications or tests necessary to ensure that the product complies with the documentation.
Marking the equipment in accordance with Clause 29 of EN 60079-0, the manufacturer attests on his own responsibility that:

- the equipment has been constructed in accordance with the applicable requirements of the relevant standards in safety matters;
- the routine verifications and routine tests in 28.1 of EN 60079-0 have been successfully completed with positive results.

[16.3] **Installation conditions:**

Above referred equipment is foreseen to be installed in locations where there are environmental conditions, as clearly specified at clause 1, par. 2 of EN 60079-0.
Installation and use in atmospheric and environmental conditions that are out of above-mentioned intervals request special considerations and additional measures by the side of installer or user.
These should be specified to the manufacturer by the user;
It is not a required by applicable standard listed in [9] that the certification body confirm suitability for the adverse conditions.
Installation of equipment has to proceed according to EN 60079-14.
The installation shall be done according to safety manufacturer instructions to maintain degree of protection.

[17] **Special Condition of use (X):**

•The cable glands are only suitable for fixed installations. Cables shall be effectively clamped to prevent pulling or twisting.
•The cable glands/protective tap and the relevant cables, shall be used where a protection

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against risk of mechanical damage is provided.
•The cable gland installation shall be done according to safety manufacturer instructions to maintain degree of protection.
•For gas installations (only for cable glands with M50 thread and following) and dust installations: Warning. Potential electrostatic charging hazard - See instructions. Clean only with antistatic clothes.
•When cable glands are installed with polyamide protection tap GHG960 9250 P000*, mechanical risk have to be taken into account, depending on cable gland and insert cap. When insert cap is removed in order to install the proper cable, the integrity of sealing rings have to be checked, in order to guarantee the correct tightness. If necessary, sealing rings have to be replaced with new ones (original spare parts only).

[18] **Essential Health and safety Requirements:**
This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed in [9].
This Certificate does not cover hazards coming from environmental conditions different from those clearly and precisely indicated and covered in clause 1 of EN 60079-0.

ESHR 1.2.7 According Annex VIII of the Directive
ESHR 1.4 Not verified.
ESHR 1.5 Not verified.
ESHR 3 Not applied.

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at [9], the following are considered relevant to this product, and conformity is demonstrated in the report:
N/A

[19] **Descriptive documents:**
DL-AT24-0103556-01 dated 2024-07-31.

[20] **Certification Validity Conditions:**
The use of this Certificate is subject to the Certification Scheme and to the Regulation applicable to holders of IMQ Certificates.
The validity of this certificate is subject to the condition that the manufacturer complies with the results of the document review and of the pertinent requirement if any included, recorded in the relevant copy of documentation as per 19.
One copy of the mentioned documentation is kept in IMQ file.

[21] **Variations**
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