



[1] EU-TYPE EXAMINATION CERTIFICATE

[2] **Equipment or Protective System intended for use
in potentially explosive atmospheres
Directive 2014/34/EU**

[3] EU-Type Examination Certificate number:
CESI 19 ATEX 038 X

[4] Product: **Cable glands 501/321/.. series**

[5] Manufacturer: **Hawke International, a Division of Hubbell Limited
A Member of the Hubbell Group of Companies**

[6] Address: **Oxford Street West, Ashton Under Lyne, Lancashire, OL7 0NA
United Kingdom**

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

[8] CESI, notified body n. 0722 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and Council of 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 Product intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report n. EX-B9016048.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013 EN 60079-7:2015 EN 60079-31:2014

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 special conditions for safe use specified in the schedule to this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified Product in accordance to the Directive 2014/34/EU. 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 2 GD Ex eb IIC Gb and
Ex tb IIIC Db
IP66/68**

This certificate may only be reproduced in its entirety and without any change, schedule included.

Date 2019.10.22 - Translation issued the 2019.10.22

Prepared
Alessandro Fedato

Verified
Mirko Balaz

Approved
Roberto Piccin

CESI S.p.A.

Testing & Certification Division
Business Area Certification

Il Responsabile

(Roberto Piccin)

[13]

Schedule

[14] EU-TYPE EXAMINATION CERTIFICATE n. CESI 19 ATEX 038 X

[15] **Description of equipment**

The Cable glands **501/321/..** types are suitable for inserting circular non-armoured cables into Ex eb or Ex tb enclosures having either threaded or plane entries. Cable glands **501/321/..** types are comprised of a male body, O-Ring seal and cap. Attachment of the glands to an enclosure is by means of the male threaded portion on the male body.

The cable glands **501/321/..** sizes are only suitable for fixed installations. The cables must be effectively clamped to prevent cable pulling and twisting.

The cable glands **501/321/..** "O", "A", "B" and "C" sizes only, can be provided with Clamp accessory. In this case, no further cable clamping arrangements are needed.

Cable glands **501/321/..** types are admitted for temperature range of use from -60°C up to +80°C.

Ingress protection of IP66/68 (50 m for 30 min.) is maintained when the glands are installed in accordance with the manufacturer's instructions.

Cable glands **501/321/..** types mounting threads are cylindrical ISO Metric 965/1 and ISO 965/3 from M20x1.5 up to M100x1.5 and tapered series NPT ANSI/ASME B1.20.1 from 1/2" up to 4".

To guarantee the IP 66/68 degree of protection, the Cable glands **501/321/..** types with cylindrical threads use a Silicon flat washer placed in-between the male threaded gland body and the enclosure wall, while for all other threads the IP 66/68 degree of protection is achieved with sealant put at least on two complete threads engaged of the threaded coupling.

The Cable glands are generally made in Brass (CuZn39Pb3 EN 12164). The following alternative materials can be supplied on demand:

- Nickel-plated Brass type CuZn39Pb3 EN 12164.
- Stainless steel type AISI316; AISI304; AISI303.

The cable glands should be also used for intrinsically safe circuits Ex i and should have a part painted in light blue.

Ambient/service temperature ranges:

All the types are admitted for use within:

- 60 ÷ + 80 °C;

This certificate may only be reproduced in its entirety and without any change, schedule included.

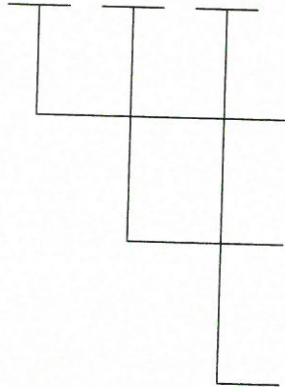
[13]

Schedule

[14] EU-TYPE EXAMINATION CERTIFICATE n. CESI 19 ATEX 038 X

Identification of Cable glands 501/321/** types:

501/321/ **** / *** / *



Code that identifies the thread size and clamping range
(see Table 1)

Type of thread:

- M: ISO 261 pitch 1.5
- N: NPT ANSI/ASME B1.20.1

Manufacturing material:

- None: brass
- NP: nickel-plated brass
- SS: stainless steel

Types and thread sizes of cable glands are listed on the followings Table 1.

Table 1:

Code		Thread size		Cable Dia. ranges (mm)
For ISO thread	For NPT thread	ISO pitch 1.5	NPT	
O/M20	O/1/2"NP	M 20	1/2"	6.5÷12.5
A/M20	A/1/2"NP	M 20	1/2"	9.0÷16.0
B/M25	B/3/4"NP	M 25	3/4"	12.0÷20.0
C/M32	C/1"NP	M 32	1"	16.0÷26.0
C2/M40	C2/1 1/4"NP	M 40	1 1/4"	23.0÷33.0
D/M50	D/1 1/2"NP	M 50	1 1/2"	31.0÷41.0
E/M63	E/2"NP	M 63	2"	36.0÷51.0
F/M75	F/2 1/2"NP	M 75	2 1/2"	51.0÷64.0
G/M80	G/3"NP	M 80	3"	51.0÷64.0
H/M90	H/3 1/2"NP	M 90	3 1/2"	62.0÷77.0
J/M100	J/4"NP	M 100	4"	74.0÷88.0

[16] Report n. EX- B9016048.

Routine tests

None.

This certificate may only be reproduced in its entirety and without any change, schedule included.

[13]

Schedule

[14] **EU-TYPE EXAMINATION CERTIFICATE n. CESI 19 ATEX 038 X**

[17] **Special conditions for safe use (X)**

- The cable glands 501/321/.. sizes are only suitable for fixed installations. The cables must be effectively clamped to prevent cable pulling and twisting.
- The cable glands 501/321/.. "O", "A", "B" and "C" sizes, can be provided with Clamp accessory. In this case, no further cable clamping arrangements are needed.
- The coupling of the cable glands with the enclosures shall be made as indicated by the manufacturer in the documents annexed to this certificate in order to respect the type of protection of the electrical apparatus on which cable glands are mounted.
- The cable glands shall be mounted at the electrical apparatus in such a way that accidental rotation and loosening will be prevented.
- The cable glands shall be installed in such a way that the temperature at the mounting point will remain within the service temperature ranges accordingly to the marking.
- The degree of protection IP 66/68 according to the EN 60529 standard will be guaranteed for the cable glands if the holes into which cable glands are mounted are suitably sealed. To this scope the correct positioning of the gaskets (for cylindrical threads) or the application of sealant on the threads (for tapered threads), shall be done as indicated in the manufacturer instruction.

[18] **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements has been assured by compliance to the following standards:

- EN 60079-0: 2012 Explosive atmospheres – Part 0: Equipment - General requirements;
- EN 60079-0/A11: 2013 Explosive atmospheres – Part 0: Equipment - General requirements;
- EN 60079-7: 2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e";
- EN 60079-31: 2014 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t".

[19] **Descriptive documents (prot. EX- B9016057).**

- Technical note HA4-TN-321 (6 pg.)	rev.00	dated	2019.06.29
- Safety, Maintenance and Mounting Instructions HA4-MI-321 (9 pg.)	rev.0	dated	2019.06.29
- EU Declaration of Conformity FACSIMILE			
- Drawing HA3-501/321(M)	rev.0	dated	2019.06.29
- Drawing HA3-501/321(NPT)	rev.0	dated	2019.06.29
- Drawing HA3-IEC.200	rev.0	dated	2019.06.29
- Drawing HA3-IEC.201	rev.0	dated	2019.06.29
- Drawing HA3-IEC.202	rev.0	dated	2019.06.29
- Drawing HA3-IEC.203	rev.0	dated	2019.06.29
- Drawing HA3-IEC.204	rev.0	dated	2019.06.29
- Drawing HA3-IEC.205	rev.0	dated	2019.06.29
- Drawing HA3-IEC.206	rev.0	dated	2019.06.29
- Manufacturing and materials HA3-IEC.207 (15 sheets)	rev.00	dated	2019.06.29

One copy of all documents is kept in CESI files.

CESI

ISMES

IPH
BERLIN

FGH

CESI S.p.A.
Via Rubattino 54
I-20134 Milano - Italy
Tel: +39 02 21251
Fax: +39 02 2125440
e-mail: info@cesi.it
www.cesi.it

Schema di certificazione
CESI-ATEX

ACCREDIA
ENTE ITALIANO DI ACCREDITAMENTO

PRD N. 018B
Membro degli Accordi di Mutuo
Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC
Mutual Recognition Agreements

CERTIFICATO



[1] CERTIFICATO DI ESAME UE DEL TIPO

[2] **Apparecchiature o Sistemi di Protezione destinati ad essere utilizzati
in atmosfere potenzialmente esplosive
Direttiva 2014/34/UE**

[3] Numero del Certificato di Esame UE del tipo:

CESI 19 ATEX 038 X

[4] Prodotto: **Pressacavi serie 501/321/..**

[5] Costruttore: **Hawke International, a Division of Hubbell Limited
A Member of the Hubbell Group of Companies**

[6] Indirizzo: **Oxford Street West, Ashton Under Lyne, Lancashire, OL7 0NA
United Kingdom**

[7] Questo prodotto e le sue eventuali varianti accettate sono descritti nell'allegato al presente certificato e nei documenti descrittivi pure riportati in esso.

[8] Il CESI, organismo notificato n. 0722 in conformità all' articolo 17 della Direttiva 2014/34/UE del Parlamento Europeo e del Consiglio del 26 Febbraio 2014, certifica che questo prodotto è conforme ai requisiti essenziali di sicurezza e salute per il progetto e la costruzione di prodotti destinati ad essere utilizzati in atmosfere potenzialmente esplosive, definiti nell'Allegato II della Direttiva.

Le verifiche ed i risultati di prova sono registrati nel rapporto a carattere riservato n. EX- B9016048.

[9] La conformità ai Requisiti Essenziali di Sicurezza e Salute è assicurata dalla conformità alle:

EN 60079-0:2012+A11:2013 EN 60079-7:2015 EN 60079-31:2014

ad eccezione di quanto indicato all'art. 18 dell'allegato al presente attestato.

[10] Il simbolo "X" posto dopo il numero del certificato indica che il prodotto è soggetto a condizioni speciali per un utilizzo sicuro, specificate nell'allegato al presente certificato.

[11] Questo CERTIFICATO DI ESAME UE DEL TIPO è relativo soltanto al progetto, all'esame ed alle prove del prodotto specificato in accordo con la Direttiva 2014/34/UE. Ulteriori requisiti di questa Direttiva si applicano al processo di produzione e fornitura del prodotto. Questi requisiti non sono oggetto del presente certificato.

[12] Il prodotto deve riportare almeno i seguenti contrassegni:

**II 2 GD Ex eb IIC Gb ed
Ex tb IIIC Db
IP66/68**

Questo certificato, allegato incluso, può essere riprodotto solo integralmente e senza alcuna variazione.

Data di emissione 22/10/2019

Elaborato
Alessandro Fedato

Verificato
Mirko Balaz

Approvato
Roberto Piccin
CESI S.p.A.

Testing & Certification Division
Business Area Certification

Il Responsabile

(Roberto Piccin)

[13]

Allegato

[14] **CERTIFICATO DI ESAME UE DEL TIPO n. CESI 19 ATEX 038 X**

[15] **Descrizione dell'apparecchiatura**

I pressacavi tipo **501/321/..** sono impiegata per l'inserimento di cavi circolari non armati all'interno di custodie Ex eb oppure Ex tb aventi entrate sia filettate che lisce. I pressacavi tipo **501/321/..** sono costituiti da un corpo maschio, O-Ring di tenuta e un cappuccio. Il montaggio dei pressacavi alle custodie è ottenuto mediante la parte filettata maschio del corpo.

I pressacavi tipo **501/321/..** sono idonei solo per installazioni fisse. I cavi devono essere bloccati efficacemente, per prevenire trazioni e torsioni al cavo.

Solo le grandezze "O", "A", "B" e "C" dei pressacavi **501/321/..**, possono essere provviste con un accessorio di bloccaggio. In questo caso, non sono necessari ulteriori sistemi di bloccaggio del cavo.

Per le grandezze M20x1.5 (O, A), M25x1.5 (B) ed M32x1.5 (C), un accessorio di bloccaggio deve essere utilizzato durante l'assemblaggio, per assicurare il cavo al pressacavo. In questo caso, non sono necessari ulteriori accorgimenti per il bloccaggio del cavo. Le altre grandezze dei pressacavi **501/321/..**, sono idonee solo per installazioni fisse. I cavi devono essere bloccati efficacemente, per prevenire trazioni e torsioni al cavo.

I pressacavi tipo **501/321/..** sono ammessi per utilizzo con campo di temperatura da -40°C fino a +80°C.

Il grado di protezione IP66/68 (50 m per 30 min.) è mantenuto quando i pressacavi sono installati in accordo con le istruzioni del costruttore.

I tipi delle filettature di montaggio dei pressacavi della serie **501/321/..** sono cilindriche ISO Metriche 965/1 ed ISO 965/3 da M20x1.5 fino a M100x1.5 e coniche tipo NPT ANSI/ASME B1.20.1 da 1/2" fino a 4".

Per garantire il grado di protezione IP 66/68 pressacavi serie **501/321/..** con filettatura cilindrica, usano una rondella piana in Silicone, posizionata tra il corpo filettato maschio e la parete della custodia, mentre per tutte le altre filettature, il grado di protezione IP 66/68 è ottenuto con del sigillante posizionato su almeno due filetti completi dell'accoppiamento filettato.

I pressacavi sono generalmente costruiti in Ottone (CuZn39Pb3 EN 12164). I seguenti materiali alternativi possono essere forniti su richiesta:

- Ottone nichelato tipo CuZn39Pb3 EN 12164.
- Acciaio inossidabile tipo AISI316; AISI304; AISI303.

I pressacavi possono essere anche utilizzati per circuiti a sicurezza intrinseca Ex i e devono avere una parte dipinta in blu chiaro.

Campi di temperature ambiente/servizio:

Tutti i tipi sono ammessi per l'uso tra:

- 60 ÷ + 80 °C.

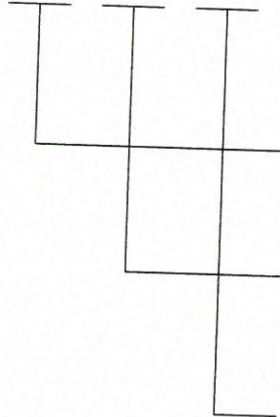
[13]

Allegato

[14] CERTIFICATO DI ESAME UE DEL TIPO n. CESI 19 ATEX 038 X

Identificazione dei pressacavi tipo 501/321/..:

501/321/ **** / *** / *



Codice che identifica la grandezza del filetto e il campo di serraggio
(vedi Tabella 1)

Tipo di filettatura\:

- M: ISO 261 passo 1.5
- N: NPT ANSI/ASME B1.20.1

Materiale di costruzione:

- **in bianco:** ottone
- NP: ottone nichelato
- SS: acciaio inossidabile

Tipi e grandezze delle filettature dei pressacavi sono elencati nella seguente Tabella 1.

Tabella 1:

Codice		Grandezza filettatura		Campi diametri cavi (mm)
Per filettatura ISO	Per filettatura NPT	ISO passo 1.5	NPT	
O/M20	O/1/2"NP	M 20	1/2"	6.5÷12.5
A/M20	A/1/2"NP	M 20	1/2"	9.0÷16.0
B/M25	B/3/4"NP	M 25	3/4"	12.0÷20.0
C/M32	C/1"NP	M 32	1"	16.0÷26.0
C2/M40	C2/1 1/4"NP	M 40	1 1/4"	23.0÷33.0
D/M50	D/1 1/2"NP	M 50	1 1/2"	31.0÷41.0
E/M63	E/2"NP	M 63	2"	36.0÷51.0
F/M75	F/2 1/2"NP	M 75	2 1/2"	51.0÷64.0
G/M80	G/3"NP	M 80	3"	51.0÷64.0
H/M90	H/3 1/2"NP	M 90	3 1/2"	62.0÷77.0
J/M100	J/4"NP	M 100	4"	74.0÷88.0

[16] Rapporto n° EX- B9016048.

Prove individuali
Nessuna.

Questo certificato, allegato incluso, può essere riprodotto solo integralmente e senza alcuna variazione.

[13]

Allegato

[14] **CERTIFICATO DI ESAME UE DEL TIPO n. CESI 19 ATEX 038 X**

[17] **Condizioni speciali per un utilizzo sicuro (X)**

- I pressacavi tipo **501/321/..** sono idonei solo per installazioni fisse. I cavi devono essere bloccati efficacemente, per prevenire trazioni e torsioni al cavo.
- Solo le grandezze dei pressacavi **501/321/..** “O”, “A”, “B” e “C”, possono essere provviste con un accessorio di bloccaggio. In questo caso, non sono necessari ulteriori accorgimenti per il bloccaggio del cavo.
- L'accoppiamento dei pressacavi con le custodie deve essere realizzato come indicato dal costruttore nei documenti allegati a questo certificato, in modo da rispettare il modo di protezione dell'apparecchiature su cui i pressacavi sono montati.
- I pressacavi devono essere montati alle apparecchiature elettriche in modo tale da prevenirne la rotazione o lo smontaggio accidentale.
- I pressacavi devono essere montati in modo tale che la temperatura al punto di installazione rimanga nei campi di temperature di esercizio in accordo alla marcatura.
- Il grado di protezione IP 66/68 in accordo alla norma EN 60529 sarà garantito per i pressacavi se i fori in cui sono montati saranno correttamente sigillati. A questo scopo, il corretto posizionamento delle guarnizioni (per le filettature cilindriche) o l'applicazione del sigillante sui filetti (per le filettature coniche) dovranno essere fatti come indicato nelle istruzioni del costruttore.

[18] **Requisiti Essenziali di Sicurezza e Salute**

I requisiti essenziali di salute e sicurezza sono assicurati dalla conformità alle seguenti norme:

EN 60079-0: 2012 Atmosfere esplosive – Parte 0: Apparecchiature - Prescrizioni generali;

EN 60079-0/A11: 2013 Atmosfere esplosive – Parte 0: Apparecchiature - Prescrizioni generali;

EN 60079-7: 2015 Atmosfere esplosive – Parte 7: Apparecchi con modo di protezione a sicurezza aumentata “e”;

EN 60079-31: 2014 Atmosfere esplosive – Parte 31: Apparecchi con modo di protezione mediante custodie “t” destinati ad essere utilizzati in presenza di polveri combustibili.

[19] **Documenti descrittivi** (prot. EX- B9016057).

- Nota Tecnica HA4-TN-321 (6 pag.)	rev.00	del	29.06.2019
- Istruzioni di sicurezza, manutenzione e installazione HA4-MI-321 (9 pag.)	rev.0	del	29.06.2019
- Dichiarazione di Conformità UE FACSIMILE			
- Disegno HA3-501/321 (M)	rev.0	del	29.06.2019
- Disegno HA3-501/321 (NPT)	rev.0	del	29.06.2019
- Disegno HA3-IEC.200	rev.0	del	29.06.2019
- Disegno HA3-IEC.201	rev.0	del	29.06.2019
- Disegno HA3-IEC.202	rev.0	del	29.06.2019
- Disegno HA3-IEC.203	rev.0	del	29.06.2019
- Disegno HA3-IEC.204	rev.0	del	29.06.2019
- Disegno HA3-IEC.205	rev.0	del	29.06.2019
- Disegno HA3-IEC.206	rev.0	del	29.06.2019
- Materiali e costruzione HA3-IEC.207 (15 fogli)	rev.0	del	29.06.2019

Una copia dei documenti sopra citati è conservata presso l'archivio del CESI.



- [1] **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE**
- [2] **Equipment or Protective System intended for use
in potentially explosive atmospheres
Directive 2014/34/EU**
- [3] Supplementary EU-Type Examination Certificate number:
CESI 19 ATEX 038 X /01
- [4] **Product: Cable glands 501/321/.. series**
- [5] **Manufacturer: Hawke International, a Division of Hubbell Limited
A Member of the Hubbell Group of Companies**
- [6] **Address: Oxford Street West, Ashton Under Lyne, Lancashire, OL7 0NA
United Kingdom**
- [7] This supplementary certificate extends EU-Type Examination Certificate CESI 19 ATEX 038 X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.
- [8] CESI, notified body n. 0722 in accordance with Article 17 of the Directive 2014/34/EU of the Parliament and Council of 26 February 2014, certifies that this equipment or protective system 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 confidential report n. EX- C0013473.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0: 2018 EN 60079-7: 2015 EN 60079-31: 2014
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 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, examination and tests of the specified product in accordance to the Directive 2014/34/EU. 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 2 GD Ex eb IIC Gb and
Ex tb IIIC Db
IP66/67/68**

This certificate may only be reproduced in its entirety and without any change, schedule included.

Date 06.10.2020 - Translation issued the 06.10.2020

Prepared
Alessandro Fedato

Verified
Mirko Balaz

Approved
Roberto Piccin

Alessandro Fedato *Mirko Balaz* *Roberto Piccin*

[13]

Schedule

[14]

SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. 19 ATEX 038 X /01

[15] **Description of the variation to the product**

Variation 1.1 The cable gland **501/321/..** types were reassessed with the new edition of EN IEC 60079-0:2018 Standard.

Variation 1.2 New M16x1.5, 3/8"NPT and M20x1.5, 1/2"NPT sizes with Ø3.5÷8.0 clamping range have been added.

Variation 1.3 Minor mechanical changes were applied.

Variation 1.4 To the cable gland **501/321/..** types IP67 degree of protection was applied.

Description of equipment

The Cable glands **501/321/..** types are suitable for inserting circular non-armoured cables into Ex eb or Ex tb enclosures having either threaded or plane entries. Cable glands **501/321/..** types are comprised of a male body, O-Ring seal and cap. Attachment of the glands to an enclosure is by means of the male threaded portion on the male body.

The cable glands **501/321/..** sizes are only suitable for fixed installations. The cables must be effectively clamped to prevent cable pulling and twisting.

The cable glands **501/321/..** "Os", "O", "A", "B" and "C" sizes only, can be provided with Clamp accessory. In this case, no further cable clamping arrangements are needed.

Cable glands **501/321/..** types are admitted for temperature range of use from -60°C up to +80°C.

Ingress protection of IP66/67 and IP68 (50 m for 30 min.) is maintained when the glands are installed in accordance with the manufacturer's instructions.

Cable glands **501/321/..** types mounting threads are cylindrical ISO Metric 965/1 and ISO 965/3 from M16x1.5 up to M100x1.5 and tapered series NPT ANSI/ASME B1.20.1 from 3/8" up to 4".

To guarantee the IP 66/67 and IP68 degree of protection, the Cable glands **501/321/..** types with cylindrical threads use a Silicon flat washer placed in-between the male threaded gland body and the enclosure wall, while for all other threads the IP 66/67 and IP68 degree of protection is achieved with sealant put at least on two complete threads engaged of the threaded coupling.

The Cable glands are generally made in Brass (CuZn39Pb3 EN 12164). The following alternative materials can be supplied on demand:

- Nickel-plated Brass type CuZn39Pb3 EN 12164.
- Stainless steel type AISI316; AISI304; AISI303.

The cable glands should be also used for intrinsically safe circuits Ex i and should have a part painted in light blue.

Ambient/service temperature ranges:

All the types are admitted for use within:

- 60 ÷ + 80 °C;

This certificate may only be reproduced in its entirety and without any change, schedule included.

[13]

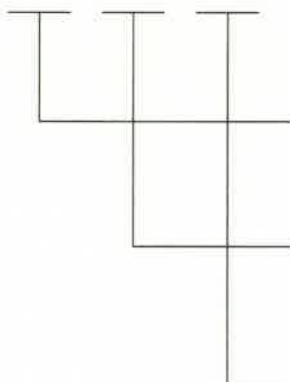
Schedule

[14]

SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. 19 ATEX 038 X /01

Identification of Cable glands 501/321/** types:

501/321/ ** / *** / ***



Code that identifies the thread size and clamping range
(see Table 1)

Type of thread:

- M: ISO 261 pitch 1.5
- N: NPT ANSI/ASME B1.20.1

Manufacturing material:

- None: brass
- NP: nickel-plated brass
- SS: stainless steel

Types and thread sizes of cable glands are listed on the following Table 1.

Table 1:

Code		Thread size		Cable Dia. ranges (mm)
For ISO thread	For NPT thread	ISO pitch 1.5	NPT	
Os/M16	Os/3/8"NP	M 16	3/8"	3.5÷8.0
Os/M20	Os/1/2"NP	M 20	1/2"	3.5÷8.0
O/M20	O/1/2"NP	M 20	1/2"	6.5÷12.0
A/M20	A/1/2"NP	M 20	1/2"	9.0÷16.0
B/M25	B/3/4"NP	M 25	3/4"	12.0÷20.0
C/M32	C/1"NP	M 32	1"	16.0÷26.0
C2/M40	C2/1 1/4"NP	M 40	1 1/4"	23.0÷33.0
D/M50	D/1 1/2"NP	M 50	1 1/2"	31.0÷41.0
E/M63	E/2"NP	M 63	2"	36.0÷51.0
F/M75	F/2 1/2"NP	M 75	2 1/2"	51.0÷64.0
G/M80	G/3"NP	M 80	3"	51.0÷64.0
H/M90	H/3 1/2"NP	M 90	3 1/2"	62.0÷77.0
J/M100	J/4"NP	M 100	4"	74.0÷88.0

[16] **Report n. EX- C0013473.**

Routine tests

None.

[13]

Schedule

[14]

SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. 19 ATEX 038 X /01

[17]

Special conditions for safe use (X)

- The cable glands 501/321/.. sizes are only suitable for fixed installations. The cables must be effectively clamped to prevent cable pulling and twisting.
- The cable glands 501/321/.. “Os”, “O”, “A”, “B” and “C” sizes, can be provided with Clamp accessory. In this case, no further cable clamping arrangements are needed.
- The coupling of the cable glands with the enclosures shall be made as indicated by the manufacturer in the documents annexed to this certificate in order to respect the type of protection of the electrical apparatus on which cable glands are mounted.
- The cable glands shall be mounted at the electrical apparatus in such a way that accidental rotation and loosening will be prevented.
- The cable glands shall be installed in such a way that the temperature at the mounting point will remain within the service temperature ranges accordingly to the marking.
- The degree of protection IP 66/67 and IP68 according to the EN 60529 standard will be guaranteed for the cable glands if the holes into which cable glands are mounted are suitably sealed. To this scope the correct positioning of the gaskets (for cylindrical threads) or the application of sealant on the threads (for tapered threads), shall be done as indicated in the manufacturer instruction.

[18]

Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements has been assured by compliance to the following standards:

- EN IEC 60079-0: 2018 Explosive atmospheres – Part 0: Equipment - General requirements;
- EN 60079-7: 2015 Explosive atmospheres – Part 7: Equipment protection by increased safety “e”;
- EN 60079-31: 2014 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure “t”.

[19]

Descriptive documents (prot. EX- C0013477).

- | | | | |
|---|--------|-------|------------|
| - *Technical note HA4-TN-321 (6 pg.) | rev.01 | dated | 2020.07.01 |
| - *Safety, Maintenance and Mounting Instructions HA4-MI-321 (9 pg.) | rev.1 | dated | 2020.07.01 |
| - *Drawing HA3-501/321(M) | rev.1 | dated | 2020.07.01 |
| - *Drawing HA3-501/321(NPT) | rev.1 | dated | 2020.07.01 |
| - *Drawing HA3-IEC.200 | rev.1 | dated | 2020.07.01 |
| - *Drawing HA3-IEC.201 | rev.1 | dated | 2020.07.01 |
| - *Drawing HA3-IEC.202 | rev.1 | dated | 2020.07.01 |
| - *Drawing HA3-IEC.203 | rev.1 | dated | 2020.07.01 |
| - *Drawing HA3-IEC.204 | rev.1 | dated | 2020.07.01 |
| - *Drawing HA3-IEC.205 | rev.1 | dated | 2020.07.01 |
| - *Drawing HA3-IEC.206 | rev.1 | dated | 2020.07.07 |
| - Manufacturing and materials HA3-IEC.207 (15 sheets) | rev.00 | dated | 2020.07.01 |

*Note: an * is included before the title of documents that are new or revised annexed to this supplement.*

One copy of all documents is kept in CESI files.

Certificate history

Issue N.	Issue Date	Summary description of variation
01	06.10.2020	The cable gland 501/321/.. types were reassessed with the new edition of EN IEC 60079-0:2018 Standard. New M16x1.5, 3/8”NPT and M20x1.5, 1/2”NPT sizes with Ø3.5÷8.0 clamping range have been added. Minor mechanical changes were applied. IP67 degree of protection was applied.
00	22.10.2019	First Issue of the Certificate