



Marine & Offshore

Certificate number: 43523/B0 BV

File number: ACE15/777/1

Product code: 2532H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

HAWKE INTERNATIONAL

ASHTON-under-Lyne - UNITED KINGDOM

for the type of product

CABLE PENETRATIONS, ENTRIES, TRANSIT DEVICES

Hazardous Area Cable Glands, Penetrations, Plugs and Stoppers.

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships.

IEC 60079-0 (2017), IEC 60079-1 (2014), IEC 60079-7 (2017), IEC 60079-31 (2013)

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 01 Sep 2026

For Bureau Veritas Marine & Offshore,

At BV LONDON, on 01 Sep 2021,

Spencer Yule



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 8 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Product model or type designation :

- Compression Glands, Compound Glands barrier Glands, 501/453 Universals Glands Instrumex, Powerex and Controlex Connectors and Stainless steel Enclosures and Plastic Enclosures and Accessories.

Product description :

Cable Glands, Connectors Enclosures and Accessories.

1.1 - Approval's range:

Type	Remark
375	Range of Stopping Plugs
475 & 477	Range of Stopping Plugs (Metric, ET, Pg, BSPP, NPT)
389	Increased Safety Breather
390	Increased Safety Stopping Plug
487	Stopping Plugs
489	Breather Drain
501/RCG	Range of Rapid Connection Gland
476	Range of Adaptators and Reducers (Metric, ET, Pg, BSPP, NPT)
501/453/UNIV	Universal Cable Glands
753, 755, 710 & 711	Compound Filled Cable Glands
ICG 623, 653, 659, 611 CSB 656N	Range of Barrier
501/421 501/453/RAC 501/423 501/453 PSG553 501/414 SB474 501/452/RAC	Cable Glands with Compression Type Seals
321, 351 & 353	Range of Increased Safety Cable Glands
Mark IV	Range of In-Line and Bulkhead Connectors
Power Ex	Range of In-Line Plug and Socket Connectors
Instrumex	Range of In-Line Plug and Bulkhead Plug & Socket Connectors
PR411 & PR453	Cable Glands
PL5, PL6, PL7	Range of Junction Boxes
S1 to S9 and S15 & S17 MS1 to SM9 EJB1, EJB2, MEJB1, MEJB2	Range of Metal Junction Boxes
ZS1 to ZS9 and ZS15 & ZS17 ZMS1 to ZMS9 ZEJB1, ZEJB2 ZMEJB1, ZMEJB2	Range of sheet metal empty enclosures
FibreEx	Fibre optic connector termination

1.2 - Ex marking:

- II 2GD Ex eb IIC Gb - Ex tb IIIC Db IP66/67	Type 375: Range of Stopping Plugs
- I M2 II 2 GD - Ex db I Mb - Ex db IIC Gb - Ex tb IIC Db IP66	Type 475 & 477: Range of Stopping Plugs
- Ex eb I Mb - Ex eb IIC Gb - Ex tb IIIC Db	Type 389: Increased Safety Breather (Drain Bronze Sinter & Stainless Steel Sinter)
- Ex eb I Mb - Ex eb IIC Gb - Ex tb IIIC Db - Ex eb IIC Gb - Ex tb IIIC Db	Type 390: Increased Safety Stopping Plug Service temp -60°C to +80°C or 160°C or +200°C (See schedule for associated certificates for marking informations)
- Ex db I Mb - Ex eb I Mb - Ex db IIC Gb - Ex eb IIC Gb - Ex db IIC Gb - Ex tb IIIC T** °C Db	Type 487: Range of Stopping Plugs ** Tamb -60°C to +80°C, -60°C to +160°C or -60°C to +200°C (see schedule for associated certificates for marking informations)
- Ex db I Mb - Ex db IIC T6 Gb Tamb* - Ex tb IIIC T85°C Db* - Ex db IIB + H2 T6 Gb Tamb**	Type 489 : Breather Drain * -60°C to +60°C ** -60°C to +60°C for units fitted with the phosphor bronze sinter
- Ex eb II* T** Gb - Ex tb III* T** Db	Type 501/RCG: Range of Rapid Connection Gland * IIA, IIB or IIC and IIA, IIB or IIIC ** -60°C to +60°C
- Ex db I Mb - Ex eb I Mb - Ex db IIC Gb - Ex eb IIC Gb - Ex tb IIIC Db IP66	Type 476: Range of Adaptators and Reducers (brass, Stainless Steel & Aluminium)
- Ex db IIC Gb - Ex eb IIC Gb - Ex nR IIC Gc - Ex tb IIIC T** °C Db IP66	Type 501/453/UNIV: Universal Cable Gland ** Tamb -60°C to +80°C
- Ex db IIC Gb - Ex eb IIC Gb - Ex nR IIC Gc - Ex tb IIIC Db IP66	Type 753, 755, 710 & 711: Compound Filled Cable Glands
- Ex db IIC Ex eb IIC Gb - Ex tb IIIC Db IP66 (- 60°C ≤ ta ≤ + 80°C)	Type ICG 623, 653, 659, 611 & CSB 656N: Gland Range of Barrier
- Ex db IIC Ex eb IIC Gb - Ex tb IIIC Db IP66 (- 60°C ≤ ta ≤ + 100°C)**	Type 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474, 501/452/RAC: Cable Glands with Compression Type Seals ** (See schedule for associated certificates for marking informations)
- Ex eb IIC Gb - Ex tb IIIC Db T** °C IP66/67	Type 321, 351 & 353: Range of Increased Safety Cable Glands ** (See schedule for associated certificates for marking informations)
- II 2GD Ex db IIC T* Gb - Ex tb IIIC T** Db - II 2GD Ex db IIB+H2 T* Gb - Ex tb IIIC T** °C Db	Mark IV: Range of In-Line and Bulkhead Connectors ** Ta -40°C to +xx°C (See schedule for associated certificates for marking informations)
- II 2GD Ex db IIC T* Gb - Ex tb IIIC T** Db - II 2GD Ex db IIB+H2 T* Gb - Ex tb IIIC T** °C Db	Power Ex: Range of In-Line Plug and Socket Connectors ** Ta -40°C to +xx°C (See schedule for associated certificates for marking informations)

1.2 - Ex marking (to be continued):

- Exdb eb IIC Gb - Ex tb IIIC Db T85°C IP66/67	Instrumex: Range of In-Line Plug and Bulkhead Plug & Socket Connectors Tamb -40°C to +60°C
- Ex db IIC Ex eb IIC Gb - Ex tb IIIC Db IP66 (-60°C ≤ ta ≤ +100°C)	Type PR411 & PR453: Cable Glands
- Ex eb IIC T** °C Gb - Ex tb IIIC T80°C Db IP66/67	PL5, PL6: Range of Junction Boxes ** (See schedule for associated certificates for marking informations)
- Ex eb IIC T** °C Gb - Ex tb A21 IIIC T80°C Db IP66/67/68	PL7: Range of Junction Boxes ** (See schedule for associated certificates for marking informations)
- Ex eb IIC T* Gb - Ex tb IIIC T**°C Db	S1 to S9 and S15 & S17 MS1 to MS9, EJB1, EJB2, MEJB1, & MEJB2: Range of Metal Junction Boxes * & ** (See schedule for associated certificates for marking informations)
- II 2GD Ex eb IIC Gb - Ex tb IIIC Db IP66/67	Type 375: Range of Stopping Plugs
- Ex db I Mb - Ex db IIC Gb - Ex tb IIC Db IP66	Type 475 & 477: Range of Stopping Plugs
- Ex eb IIC Gb Ex tb IIIC Db IP66	ZS1 to ZS9 and ZMS1 to ZMS9 and ZS15 & ZS17: Range of sheet metal empty enclosures
- Ex eb IIC Gb Ex tb IIIC Db IP66 and IP67	ZEJB1, ZEJB2 and ZMEJB1, ZMEJB2 : Range of sheet metal empty enclosures
- Ex op pr IIC T6 Gb - Ex tb III C T85°C Db	Type FibreEx: Fibre optic connector termination *Tamb -40°C to +60°C

2. DOCUMENTS AND DRAWINGS :**Hawke International:**

- 501 453 Cable Gland GA Drawing No. 501/453 UNIV Rev. M, dated 16/06/11.
- 501 421 Unarmoured Gland GA Drawing No. 501/421 Rev. J, dated 16/08/11.

Baseefa:

- ATEX Quality Assurance Notification No. 0500, dated 14 Oct 2020.

Hawke International:

General Arrangement Drawing:

Drawing No	Rev	Dated	Drawing No.	Rev.	Dated
Omni Gland X	A	10/05/2019	ICG-653-UNIV-X	A	10/05/2019
501 453 UNIV X	A	10/05/2019	710-X	A	10/05/2019
711-X	A	10/05/2019	753-X	A	10/05/2019
453 RAC X	A	04/06/2019	453 UNIV X	A	04/06/2019
501 421	L	04/06/2019	501 421 Oversized	H	04/06/2019
501 423	L	04/06/2019	501 423 Oversized	H	04/06/2019
501 414	L	04/06/2019	501 452 RAC X	A	04/06/2019
501 453 RAC X	A	04/06/2019	PSG 553 RAC X	A	04/06/2019
PSG 421	B	04/06/2019	SB 474	L	04/06/2019
653-UNIV-X	A	16/06/2019	321 Oversized	H	04/06/2019
321	M	04/06/2019	351 RAC X	A	04/06/2019
353 RAC X	A	04/06/2019	CSB 656N	A	04/06/2019
489	E	16/08/2017	620155	B	14/01/2021
AI502	E				

3. TEST REPORTS :**Bassefa:**

- 501/453 Universal Gland Test Report No. GB/BAS/ExTR09.0164/00, dated Sep 14, 2009.
- ICG623/653/659/611 & CBS656 Cable Gland Test Report No. GB/BAS/ExTR06.0013/00, dated Jul 18, 2006.
- 321, 353, 353RAC, 353RAC D, 353D, 351 RAC & 351 Cable Gland Test Report No. GB/BAS/ExTR06.0014/00, dated Jul 18, 2006.
- Various Gland Assemblies Test Report No. GB/BAS/ExTR09.0165/00, dated Sep 14, 2009.

IECEX:

- Certificate No. IECEX BAS 06.0019X Issue No.: 5, dated 2015-06-18
- Certificate No. IECEX BAS 06.0018X Issue No.: 10, dated 2016-2-1
- Certificate No. IECEX BAS 06.0028X Issue No.: 8, dated 2020-05-04
- Certificate No. IECEX BAS 08.0065X Issue No.: 10, dated 2021-06-09
- Certificate No. IECEX BAS 08.0064U Issue No.: 8, dated 2020-03-25
- Certificate No. IECEX BAS 08.0091X Issue No.: 4, dated 2020-05-04
- Certificate No. IECEX BAS 08.0111X Issue No.: 7, dated 2016-5-12
- Certificate No. IECEX BAS 10.0120X Issue No.: 4, dated 2020-02-06
- Certificate No. IECEX BAS 11.0037X Issue No.: 3, dated 2020-02-06
- Certificate No. IECEX BAS 11.0071X Issue No.: 7, dated 2021-03-02
- Certificate No. IECEX BAS 11.0075X Issue No.: 2, dated 2013-3-8
- Certificate No. IECEX BAS 11.0079X Issue No.: 3, dated 2015-5-18
- Certificate No. IECEX BAS 12.0065X Issue No.: 3, dated 2021-05-19
- Certificate No. IECEX BAS 14.0123X Issue No.: 6, dated 2020-05-26
- Certificate No. IECEX BAS 11.0076X Issue No.: 4, dated 2017-08-31
- Certificate No. IECEX BAS 16.0032X Issue No.: 2, dated 2017-07-05
- Certificate No. IECEX BAS 18.0030X Issue No.: 0, dated 2018-06-29
- Certificate No. IECEX CML 18.131X Issue No.: 1, dated 2021-02-16
- Certificate No. IECEX CML 18.0131X Issue No.: 1, dated 2020-02-11
- Certificate No. IECEX CML 20.0137X Issue No.: 1, dated 2020-12-18
- Test Report Cover No. GB/BAS/ExTR08.0131/00, dated 2008-08-08
- Test Report Cover No. GB/BAS/ExTR09.0210/00, dated 2010-05-12
- Test Report Cover No. GB/BAS/ExTR10.0096/00, dated 2010-05-12
- Test Report Cover No. GB/BAS/ExTR11.0056/00, dated 2011-03-09
- Test Report Cover No. GB/BAS/ExTR12.0156/00, dated 2012-06-12
- Test Report Cover No. GB/BAS/ExTR13.0133/00, dated 2013-08-06
- Test Report Cover No. GB/BAS/ExTR13.0134/00, dated 2013-08-06
- Test Report Cover No. GB/BAS/ExTR14.0135/00, dated 2014-04-29
- Test Report Cover No. GB/BAS/ExTR14.0136/00, dated 2014-04-29
- Test Report Cover No. GB/BAS/ExTR15.0115/00, dated 2015-06-18
- Test Report Cover No. GB/BAS/ExTR15.0200/00, dated 2015-10-07
- Test Report Cover No. GB/BAS/ExTR18.0088/00, dated 2018-06-29
- Test Report Cover No. GB/BAS/ExTR19.0284/00, dated 2020-02-06
- Test Report Cover No. GB/BAS/ExTR20.0014/00, dated 2020-02-03
- Test Report Cover No. GB/BAS/ExTR20.0048/00, dated 2020-03-25
- Test Report Cover No. GB/BAS/ExTR20.0092/00, dated 2020-05-26
- Test Report Cover No. GB/BAS/ExTR21.0056/00, dated 2021-05-18
- Test Report Cover No. GB/CML/ExTR19.0096/00, dated 2019-06
- Test Report Cover No. GB/CML/ExTR20.0080/00, dated 2020-05-04
- Test Report Cover No. GB/CML/ExTR20.0185/00, dated 2020-12-18
- Test Report Cover No. GB/CML/ExTR21.0026/00, dated 2021-02-16
- Test Report Cover No. GB/CML/ExTR21.0056/00, dated 2021-05-18
- Test Report Cover No. GB/CML/ExTR21.0073/00, dated 2021-06-08
- Test Report Cover No. GB/SIR/ExTR17.0211/00, dated 2017-11

Baseefa:

- Certificate No. Baseefa03ATEX0355X, dated Aug 27, 2003
- Certificate No. Baseefa03ATEX0355X/13, dated Jan 27, 2014
- Certificate No. Baseefa06ATEX0057X/8, dated Jan 7, 2015
- Certificate No. Baseefa06ATEX0061X/14, dated Nov 21, 2018
- Certificate No. Baseefa06ATEX0062X, dated Feb 20, 2007
- Certificate No. Baseefa06ATEX0062X/4, dated Feb 9, 2015
- Certificate No. Baseefa06ATEX0062X/5, dated Jun 18, 2015
- Certificate No. Baseefa06ATEX0117X/7, dated May 04, 2020
- Certificate No. Baseefa08ATEX0015X, dated Mar 14, 2008
- Certificate No. Baseefa08ATEX0015X/4, dated Jan 7, 2015

- Certificate No. Baseefa08ATEX0207U/8, dated Mar 25, 2020
- Certificate No. Baseefa08ATEX0208X/5, dated May 1, 2014
- Certificate No. Baseefa08ATEX0272X/4, dated May 04, 2020
- Certificate No. Baseefa08ATEX0328X/6, dated Oct 07, 2015
- Certificate No. Baseefa08ATEX0328X/5, dated Jan 7, 2015
- Certificate No. Baseefa09ATEX0233X, dated Sep 14, 2009
- Certificate No. Baseefa09ATEX0233X/4, dated Jan 7, 2015
- Certificate No. Baseefa10ATEX0262X, dated Mar 7, 2011
- Certificate No. Baseefa11ATEX0067X/3, dated Feb 06, 2020
- Certificate No. Baseefa11ATEX0153X, dated Aug 18, 2011
- Certificate No. Baseefa11ATEX0153X/2, dated Mar 4, 2013
- Certificate No. Baseefa11ATEX0149X/6, dated Feb 06, 2020

2 - Baseefa (to be continued):

- Certificate No. Baseefa11ATEX0149X/3, dated Feb 6, 2015
- Certificate No. Baseefa11ATEX0154X/4, dated Aug 31, 2017
- Certificate No. Baseefa12ATEX0014X, dated Jul 3, 2012
- Certificate No. Baseefa12ATEX0014X/7, dated Feb 9, 2015
- Certificate No. Baseefa12ATEX0095X/3, dated May 18, 2021
- Certificate No. Baseefa14ATEX0268X/6, dated May 26, 2020
- Certificate No. Baseefa16ATEX0030X/2, dated Jul 14 2017

3. TEST REPORTS (to be continued):

sira:

- Certificate No. Sira 07ATEX4330X Issue 4, dated Aug 31, 2010

For modification A1 version:

IECEX:

- Certificate No. CML19.0042X Issue 0, dated Jun 4, 2019.
- Certificate No. CML19.0043X Issue 0, dated Jun 4, 2019.
- Certificate No. CML19.0044X Issue 0, dated Jun 4, 2019.
- Certificate No. CML19.0045X Issue 0, dated Jun 4, 2019.
- Certificate No. CML19.0047X Issue 0, dated Jun 26, 2019.
- Certificate No. CML19.0048X Issue 0, dated Jun 4, 2019.

CML:

- Certificate No. CML18ATEX1268X Issue 2
- Certificate No. CML19ATEX1164X Issue 0
- Certificate No. CML19ATEX1165X Issue 0
- Certificate No. CML19ATEX1166X Issue 0
- Certificate No. CML19ATEX1167X Issue 0
- Certificate No. CML19ATEX1169X Issue 0
- Certificate No. CML19ATEX1170X Issue 0
- Certificate No. CML20ATEX3217X Issue 1
- Certificate No. CML 21UKEX3073X Issue 1

4. APPLICATION / LIMITATION :

4.1 - **BUREAU VERITAS** Rules and Regulations for the Classification of Steel Ships.

4.2 - Ex-certification is not covered by this certificate, Applications in hazardous areas are to be approved in each case according to the Rules and Conditions for Safe Use specified in a valid Ex-Certificate issued by a Notified or Recognised Certification Body.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The above products are to be supplied by **HAWKE INTERNATIONAL** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **HAWKE INTERNATIONAL** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **HAWKE INTERNATIONAL** has declared to Bureau Veritas the following production site:

HAWKE INTERNATIONAL
Oxford Street West
ASHTON-under-Lyne
Lancashire
UNITED KINGDOM

6. MARKING OF PRODUCT :

6.1 - Trade name.

6.2 - Equipment type or model identification under which it was type-tested

6.3 - Ex marking, as relevant.

7. OTHERS:

7.1 - It is **HAWKE INTERNATIONAL**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate No. 43523/A1 BV issued on 03 Mar 2020 by the Society.

***** END OF CERTIFICATE *****