



Marine & Offshore

Certificate number: 43523/A1 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/EN 60079 Series

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: 12 Jul 2021

For Bureau Veritas Marine & Offshore,

At BV LONDON, on 03 Mar 2020,

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 6 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 |
| 476/1 | Gland Adaptators and Reducers (Plugs Metric, ET, Pg, BSPP, NPT) |
| 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 656 | 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 |

1.2 - Ex marking:

| | |
|--|---|
| - II 2GD Ex e IIC Gb - EX tb IIIC Db IP66/67 | Type 375: Range of Stopping Plugs |
| - I M2 II 2 GD - Ex d I Mb - Ex d IIC Gb - Ex tb IIC Db IP66 | Type 475 & 477: Range of Stopping Plugs |
| - Ex e I Mb - Ex e IIC Gb - Ex tb IIIC Db | Type 389: Increased Safety Breather (Drain Bronze Sinter & Stainless Steel Sinter) |
| - Ex e I Mb - Ex e IIC Gb - Ex tb IIIC Db - Ex e 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 d I Mb - Ex e I Mb - Ex d IIC Gb - Ex e IIC Gb - Ex d 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 d I/IIC - Ex e I/II | Type 476/1: Gland Adaptators and Reducers |
| - Ex d I Mb - Ex e I Mb - Ex d IIC Gb - Ex e IIC Gb - Ex tb IIIC Db IP66 | Type 476: Range of Adaptators and Reducers (brass, Stainless Steel & Aluminium) |
| - Ex d IIC Gb - Ex e 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 d IIC Gb - Ex e IIC Gb - Ex nR IIC Gc - Ex tb IIIC Db IP66 | Type 753, 755, 710 & 711: Compound Filled Cable Glands |
| - Ex d IIC Ex e IIC Gb - Ex tb IIIC Db IP66 (- 60°C ≤ ta ≤ + 80°C) | Type ICG 623, 653, 659, 611 & CSB 656: 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) |
| - Exdb e 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 |

1.2 - Ex marking (to be continued):

| | |
|--|---|
| - Ex e 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 e 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 e 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 e IIC Gb - Ex tb IIIC Db IP66/67 | Type 375: Range of Stopping Plugs |
| - Ex d I Mb - Ex d IIC Gb - Ex tb IIC Db IP66 | Type 475 & 477: Range of Stopping Plugs |
| - Ex e IIC Gb Ex tb IIIC Db IP66 | ZS1 to ZS9 and ZMS1 to ZMS9 and ZS15 & ZS17: Range of sheet metal empty enclosures |
| - Ex e IIC Gb Ex tb IIIC Db IP66 and IP67 | ZEJB1, ZEJB2 and ZMEJB1, ZMEJB2 : Range of sheet metal empty enclosures |

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 Issue 29, dated Apr 29, 2015

For modification A1 version:**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 |

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 06.0014X Issue No.: 8, dated 2015-1-7
- Certificate No. IECEX BAS 06.0019X Issue No.: 4, dated 2015-2-9
- Certificate No. IECEX BAS 06.0018X Issue No.: 10, dated 2016-2-1
- Certificate No. IECEX BAS 06.0028X Issue No.: 5, dated 2015-9-29
- Certificate No. IECEX BAS 08.0065X Issue No.: 5, dated 2014-5-1
- Certificate No. IECEX BAS 07.0057X Issue No.: 1, dated 2011-3-9
- Certificate No. IECEX BAS 08.0064U Issue No.: 4, dated 2014-5-1
- Certificate No. IECEX BAS 08.0091X Issue No.: 1, dated 2010-12-6
- Certificate No. IECEX BAS 08.0111X Issue No.: 7, dated 2016-5-12
- Certificate No. IECEX BAS 10.0120X Issue No.: 2, dated 2012-8-21
- Certificate No. IECEX BAS 11.0071X Issue No.: 3, dated 2015-2-6
- 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.: 0, dated 2013-2-28
- Certificate No. IECEX BAS 14.0123X Issue No.: 1, dated 2015-12-17
- Certificate No. IECEX SIR 06.0082X Issue No.: 6, dated 2010-9-7
- Certificate No. IECEX SIR 07.0037X Issue No.: 0, dated 2008-02-19
- Certificate No. IECEX SIR 12.0046X Issue No.: 0, dated 2012-4-25
- 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/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

Baseefa:

- Certificate No. Baseefa03ATEX0355X, dated Aug 27, 2003
- Certificate No. Baseefa03ATEX0355X/13, dated Jan 27, 2014
- Certificate No. Baseefa06ATEX0057X, dated Jul 19, 2006
- Certificate No. Baseefa06ATEX0057X/8, dated Jan 7, 2015
- Certificate No. Baseefa06ATEX0061X/10, dated Feb 1, 2016
- 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/4, dated Sep 29, 2015
- Certificate No. Baseefa08ATEX0015X, dated Mar 14, 2008
- Certificate No. Baseefa08ATEX0015X/4, dated Jan 7, 2015
- Certificate No. Baseefa08ATEX0207U/4, dated May 1, 2014
- Certificate No. Baseefa08ATEX0208X/5, dated May 1, 2014
- Certificate No. Baseefa08ATEX0272X/1, dated Nov 18, 2010
- Certificate No. Baseefa08ATEX0328X, dated Feb 10, 2009
- 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/1, dated Jan 24, 2012
- Certificate No. Baseefa11ATEX0153X, dated Aug 18, 2011
- Certificate No. Baseefa11ATEX0153X/2, dated Mar 4, 2013
- Certificate No. Baseefa11ATEX0149X, dated Aug 26, 2011
- Certificate No. Baseefa11ATEX0149X/3, dated Feb 6, 2015
- Certificate No. Baseefa12ATEX0014X, dated Jul 3, 2012
- Certificate No. Baseefa12ATEX0014X/7, dated Feb 9, 2015
- Certificate No. Baseefa12ATEX0095X, dated Feb 28, 2013
- Certificate No. Baseefa14ATEX0268X/1, dated Dec 17, 2015

3. TEST REPORTS (to be continued):**sira:**

- Certificate No. Sira 07ATEX4330X Issue 4, dated Aug 31, 2010
- Certificate No. Sira 06ATEX1295X Issue 6, 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 0
- 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

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 - **HAWKE INTERNATIONAL** has declared to Bureau Veritas the following production site(s):

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 - UK**'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/A0 BV issued on 12 Jul 2016 by the Society.

*** END OF CERTIFICATE ***