



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

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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.

The electronic version is available at: http://www.veristarpm.com/veristarnb/jsp/viewPublicPdfTypec.jsp?id=wztedfzbze BV Mod. Ad.E 530 June 2017 This certificate consists of 6 page(s)

# THE SCHEDULE OF APPROVAL

# **<u>1. PRODUCT DESCRIPTION :</u>**

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	-	App	roval	's	range:	

Туре	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

1.2Ex marking: 
EAX 010C, D0 Ire0000D1D1D1 $1M2   I 2 GD$ $Ex d I Mb$ $Ex d I Mb$ $Ex t I G Gb$ $Ex t I G Gb$ $Ex t I G Gb$ $Ex t I C Gb$ $Ex t I IC Cb$ $Ex t I IC Cb$ $Ex t II C Gb$ </td
- Fx d I Mb - Ex d IIC GbType 475 & 477: Range of Stopping Plugs- Fx tb IIC Db IP66 Fx tb IIC GbType 389: Increased Safety Breather (Drain Bronze Sinter & Stainless Steel Sinter)- Fx tb IIIC Gb Fx tb IIIC GbType 390: Increased Safety Stopping Plug Service termp -60°C to +80°C or 160°C or +200°C (see schedule for associated certificates for marking informations)- Fx tb IIIC Gb Fx tb IIIC Cb Fx tb IIIC Gb Fx tb IIIC Gb Fx tb IIIC Gb Fx tb IIIC Gb Fx tb IIIC Cb Fx tb IIIC Gb Fx tb IIIC Cb Fx tb II
Ex d IIC CbType 4/5 & 4/7: Kange of Stopping Plugs- Ex d IIC DbType 389: Increased Safety Breather (Drain Bronze Sinter & Stainless Steel Sinter)- Ex to IIC DbType 390: Increased Safety Stopping Plug- Ex to IIC DbService temp -60°C to +80°C or 160°C or +200°C (see schedule for associated certificates for marking informations)- Ex to IIIC DbService temp -60°C to +80°C or 160°C or -60°C to +200°C (see schedule for associated certificates for marking informations)- Ex to IIIC DbType 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 IIC Gb** 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 IIC Gb** 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 IIC Gb** 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 IIC GbType 476/1: Gland Adaptators and Reducers- Ex d IIC GbType 476: Range of Adaptators and Reducers (brass, Stainless Steel & Aluminium)- Ex d IIC GbType 501/453/UNIV: Universal Cable Gland- Ex d IIC GbType 501/453/UNIV: Universal Cable Gland- Ex d IIC GbType 753, 755, 710 & 711: Compound Filled Cable Glands- Ex d IIC GbType 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474, 501/452/RAC: Cable Glands with Compression Type Seals- Ex d IIC CbType 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/41
Ex b IIIC ObType 389: Increased Safety Breather (Drain Bronze Sinter & Stainless Steel Sinter)Ex to IIIC ObType 389: Increased Safety Stopping PlugEx to IIIC ObType 390: Increased Safety Stopping PlugEx to IIIC ObService temp -60°C to +80°C or 160°C or +200°C (see schedule for associated certificates for marking informations)Ex to IIIC ObType 476/1: Gand Adaptators and ReducersEx to IIIC Ob** Tamb -60°C to +80°C, -60°C to +100°C or -60°C to +200°C (see schedule for associated certificates for marking informations)Ex to IIIC Ob** Tamb -60°C to +80°C, -60°C to +100°C or -60°C to +200°C (see schedule for associated certificates for marking informations)Ex to IIIC Cb** Tamb -60°C to +80°C, -60°C to +100°C or -60°C to +200°C (see schedule for associated certificates for marking informations)Ex to IIIC CbType 476/1: Gland Adaptators and ReducersEx d IIC CbType 476/1: Gland Adaptators and Reducers (brass, Stainless Steel & Aluminium)Ex to IIIC CbType 476: Range of Adaptators and Reducers (brass, Stainless Steel & Aluminium)Ex to IIIC CbType 501/453/UNIV: Universal Cable Gland* Ex d IIC CbType 501/453/UNIV: Universal Cable Gland* Ex to IIIC CbType 753, 755, 710 & 711: Compound Filled Cable Glands* Ex to IIIC CbType 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474, 501/452/RAC: Cable Clands with Compression Type Seals- Ex to IIIC CbType 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474, 501/452/RAC: Cable Clands with Compression Type Seals- 60°C C = 4 + 80°C()Type 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474, 5
- Ex e 1 Mb - Ex e 11C CbType 389: Increased Safety Breather (Drain Bronze Sinter & Stainless Steel Sinter)- Ex e 11C CbType 390: Increased Safety Breather (Drain Bronze Sinter & Stainless Steel Sinter)- Ex e 11C CbType 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 to 11C DbService temp -60°C to +80°C or 160°C or -200°C (see schedule for associated certificates for marking informations)- Ex to 11C CbType 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 11C CbType 487: Range of Stopping Plugs ** Tamb -60°C to +80°C, -60°C to +100°C or -60°C to +200°C (see schedule for associated certificates for marking informations)- Ex d 11C CbType 476/1: Gland Adaptators and Reducers- Ex d 111Type 476/1: Gland Adaptators and Reducers (brass, Stainless Steel & Aluminium)- Ex d 11C CbType 476: Range of Adaptators and Reducers (brass, Stainless Steel & Aluminium)- Ex d 11C CbType 501/453/UNIV: Universal Cable Gland ** Tamb -60°C to +80°C- Ex d 11C CbType 753, 755, 710 & 711: Compound Filled Cable Glands- Ex to 111 CbDP66- Ex to 111 CbType 501/421, 501/453/RAC, 501/423, 501/453, 501/414, SB474, 501/452/RAC (able Glands with Compression Type Seals (-60°C St & 4 ± 100°C)- Ex to 111 CbFb66- Ex to 111 CbType 501/421, 501/453/RAC, 501/423, 501/453, 79C 553, 501/414, SB474, 501/452/RAC (able Glands with Compression Type Seals (-60°C St & 4 ± 100°C)- Ex
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Ex e I MbType 390: Increased Safety Stopping PlugEx to IIIC DbService temp $-60^{\circ}$ C to $+80^{\circ}$ C or $160^{\circ}$ C or $+200^{\circ}$ C (see schedule for associated certificates for marking informations)Ex to IIIC DbType 476? Range of Stopping Plugs ** Tamb $-60^{\circ}$ C to $+80^{\circ}$ C or $-60^{\circ}$ C to $+200^{\circ}$ C (see schedule for associated certificates for marking informations)Ex to IIIC Gb** Tamb $-60^{\circ}$ C to $+80^{\circ}$ C, $-60^{\circ}$ C to $+160^{\circ}$ C or $-60^{\circ}$ C to $+200^{\circ}$ C (see schedule for associated certificates for marking informations)Ex to IIIC T** $\circ$ C DbType 476/1: Gland Adaptators and ReducersEx to IIIC T** $\circ$ C DbType 476/1: Gland Adaptators and Reducers (brass, Stainless Steel & Aluminium)Ex e I MbEx e I MbEx to IIIC GbType 501/453/UNIV: Universal Cable GlandEx to IIIC GbType 501/453/UNIV: Universal Cable GlandEx to IIIC GbType 753, 755, 710 & 711: Compound Filled Cable GlandsEx to IIIC GbType 501/453/RAC, 501/423, 501/453, 501/414, SB474, 501/452/RAC, Cable Gland set + 80^{\circ}C)Ex to IIIC Cx to IIC GbType 501/421, 501/453/RAC, 501/423, 501/414, SB474, 501/452/RAC, Cable Glands with Compression Type Sals ** (see schedule for associated certificates for marking informations)Ex to IIIC Ex to IIC GbType 501/421, 501/423/RAC, 501/423, 501/423, 501/414, SB474, 501/452/RAC, Cable Glands with Compression Type Sals ** (see schedule for associated certificates for marking informations)Ex to IIIC Ex to IIC GbType 501/21, 501/453/RAC, 501/423, 501/453, FSG553, 501/414, SB474, 501/452/RAC, Cable Glands with Compression Type Sals ** (see schedule for associated certificates for marking informations) </td
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Ex b IIIC DbService temp -60°C to $+80°C$ or $160°C$ or $+200°C$ (see schedule for associated certificates for marking informations)Ex b IIIC DbEx d IIC GbEx d IIMbType 487: Range of Stopping Plugs ** Tamb -60°C to $+80°C$ or $-60°C$ to $+200°C$ (see schedule for associated certificates for marking informations)Ex d IIC GbType 487: Range of Stopping Plugs ** Tamb -60°C to $+80°C$ or $-60°C$ to $+200°C$ (see schedule for associated certificates for marking informations)Ex d IIC GbType 476/1: Gland Adaptators and ReducersEx d IIIC Ex e IMbType 476/1: Gland Adaptators and Reducers (brass, Stainless Steel & Aluminium)Ex e I MbType 476: Range of Adaptators and Reducers (brass, Stainless Steel & Aluminium)Ex e I MbType 476: Range of Adaptators and Reducers (brass, Stainless Steel & Aluminium)Ex e I G GbType 501/453/UNIV: Universal Cable Gland ** Tamb -60°C to $+80°C$ Ex th IIIC CbType 501/453/UNIV: Universal Cable Gland ** Tamb -60°C to $+80°C$ Ex th IIC GbType 753, 755, 710 & 711: Compound Filled Cable GlandsEx th IIIC Db IP66Type 501/421, 501/453, FOI/453, S01/414, SB474, 501/422/RAC; S01/423, S01/4153, PSG553, 501/414, SB474, 501/452/RAC; S01/423, S01/453, PSG553, S01/414, SB474, 501/452/RAC; Cable Glands with Compression Type Seals ** (see schedule for associated certificates for marking informations)Ex th IIIC Db IP66Type 321, 351 & 353: Range of Increased Safety Cable Glands ** (see schedule for associated certificates for marking informations)Ex th IIIC Db T** °C IP66/67Type 321, 351 & 353: Range of Increased Safety Cable Glands ** (see schedule for associated certificates for marking informations)<
- Ex e IIC Gbmarking informations)- Ex tb IIIC DbType 487: Range of Stopping Plugs- Ex d I MbType 487: Range of Stopping Plugs- Ex d IIC Gb** 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 IIC Gb** 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 IIC Gb- Ex d IIC Gb- Ex d IIC GbType 476/1: Gland Adaptators and Reducers- Ex d IIC Gb- Ex d IIC C Gb- Ex d IIC Gb- Ex d IIC C Bb- Ex d IIC Gb- Ex d IIC C Bb- Ex d IIC Gb- Ex d IIC C Bb- Ex d IIC Cb- Ex d IIC C Bb- Ex d IIC Cb- Ex d IIC C Bb- Ex d IIC Cb- Ex d IIC C Bb- Ex d IIC Cb- Ex d IIC Db IP66- Cb- Ex d IIC Db IP66- Cb- Ex d BC Cb- Ex d IIC Cb- Ex d BIIC Db IP66- Cb
- Ex to IIIC Db- Ex to I Mb- Ex to I Mb- Ex to IIC Gb- Ex to IIC Gb- Ex to IIC Gb- Ex to IIC Gb- Ex to IIIC T** °C Db- Ex to IIIC Gb- Ex to IIIC Cb- Ex to IIIC Cb
$\begin{array}{c} - \operatorname{Ex} e I \operatorname{Mb} & \operatorname{Type} 487: \operatorname{Range} of \operatorname{Stopping}\operatorname{Plugs} \\ + \operatorname{Ex} d \operatorname{IIC} \operatorname{Gb} & \operatorname{Ex} e \operatorname{IIC} \operatorname{Gb} & \operatorname{Ex} d \operatorname{IIC} \operatorname{C} \\ - \operatorname{Ex} d \operatorname{IIC} \operatorname{C} & \operatorname{C} \operatorname{Db} & \operatorname{C} & \operatorname{C} - 60^\circ \operatorname{C} \operatorname{to} + 160^\circ \operatorname{C} \operatorname{or} - 60^\circ \operatorname{C} \operatorname{to} + 200^\circ \operatorname{C} & \operatorname{(see schedule for associated certificates for marking informations)} \\ \hline - \operatorname{Ex} d \operatorname{I/IC} & \operatorname{Type} 476/1: \operatorname{Gland} \operatorname{Adaptators} \operatorname{and} \operatorname{Reducers} & \operatorname{C} \operatorname{Db} & \operatorname{Ex} e \operatorname{I/I} & \operatorname{Ex} e \operatorname{I/I} & \operatorname{Type} 476/1: \operatorname{Gland} \operatorname{Adaptators} \operatorname{and} \operatorname{Reducers} & \operatorname{C} \operatorname{Db} & \operatorname{Ex} e \operatorname{I/I} & \operatorname{C} \operatorname{Db} & \operatorname{Ex} e \operatorname{I/G} \operatorname{Db} & \operatorname{Ex} e \operatorname{I/G} \operatorname{Db} & \operatorname{Ex} e \operatorname{I/G} \operatorname{Db} & \operatorname{Ex} e \operatorname{IIC} \operatorname{Gb} & \operatorname{Ex} \operatorname{Ex}$
Ex d IIC GbType 487: Kange of Stopping Plugs ** Tamb -60°C to +80°C, -60°C to +200°C (see schedule for associated certificates for marking informations)Ex d IIC Gb** 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 IIC GbType 476/1: Gland Adaptators and ReducersEx d IIC GbType 476/1: Gland Adaptators and Reducers (brass, Stainless Steel & Aluminium)Ex e IIC GbType 476: Range of Adaptators and Reducers (brass, Stainless Steel & Aluminium)Ex e IIC GbType 501/453/UNIV: Universal Cable GlandEx d IIC GbType 501/453/UNIV: Universal Cable GlandEx d IIC GbType 753, 755, 710 & 711: Compound Filled Cable GlandsEx th IIC Db IP66Type 753, 659, 611 & CSB 656: Gland Range of Barrier- Ex th IIC Db IP66Type 501/451, 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)Type 321, 351 & 353: Range of Increased Safety Cable Glands* Ex db IIC CbType 321, 351 & 353: Range of Increased Safety Cable Glands* Ex db IIC CbType 321, 351 & 353: Range of Increased Safety Cable Glands* Ex db IIC CbType 321, 351 & 353: Range of Increased Safety Cable Glands* Ex db IIC CbType 321, 351 & 353: Range of Increased Safety Cable Glands* K (see schedule for associated certificates for marking informations)- Ex db IIC CbbType 321, 351 & 353: Range of Increased Safety Cable Glands* II 2GD Ex db IIC T* Gb** (see schedule for associated certificates for marking informations)<
- Ex d IIC Gb** 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 IIC Gb- Ex d IIIC- Ex d IIICType 476/1: Gland Adaptators and Reducers- Ex d IIIType 476/1: Gland Adaptators and Reducers (brass, Stainless Steel & Aluminium)- Ex d IIC Gb- Ex d IIC Gb- Ex d IIC GbType 476: Range of Adaptators and Reducers (brass, Stainless Steel & Aluminium)- Ex d IIC Gb- Ex d IIC Cb- Ex d IIC Gb- Ex d IIC Db IP66- Ex d IIC Gb- Ex d IIC Db IP66- Ex d IIC Cb- Ex d IIC Db IP66- Ex d IIC Gb- Ex db IIC Db IP66- Type 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474, 501/452/RAC: Cable Glands with Compression Type Seals(- 60°C ≤ ta ≤ + 100°C)**- * (see schedule for associated certificates for marking informations)- Ex db IIC Db IP66- Type 321, 351 & 353: Range of Increased Safety Cable Glands- Ex db IIC Cb- 112GD Ex db IIC T* Gb
- Ex e IIC Gbcertificates for marking informations)- Ex d IIC GbType 476/1: Gland Adaptators and Reducers- Ex d I/ICType 476/1: Gland Adaptators and Reducers- Ex d I Mb- Ex e I/II- Ex d IIC GbType 476: Range of Adaptators and Reducers (brass, Stainless Steel & Aluminium)- Ex d IIC Gb- Ex nR IIC Gc- Ex d IIC Gb- Ex nR IIC Gc- Ex d IIC Gb- Ex d IIC Gb- Ex d IIC Gb- Ex nR IIC Gc- Ex d IIC Gb- Ex d IIC Gb- Ex d IIC Gb- Ex nR IIC Gc- Ex d IIC Gb- Ex nR IIC Gc- Ex d IIC Gb- Ex d IIC Gb- Ex d IIC Gb- Ex d IIC Gb- Ex d IIC Cb- Ex d IIC Gb- Ex d IIC Db IP66- Ex d IIC Cb- Ex d IIC Db IP66- Ex d IIC Cb- Ex d IIC Db IP66- Ex d IIC Cb- Ex d IIC Cb- Ex d IIC Cb- Ex d IIC Cb Cb- Ex d IIC Cb- Ex d IIC Db IP66- Type 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474, 501/452/RAC: Cable Glands with Compression Type Seals- Ex db IIC Db IP66- Type 321, 351 & 353: Range of Increased Safety Cable Glands- Ex db IIC C Bb- Ex ebi IIC Cb- Ex db IIC C Bb- Type 321, 351 & 353: Range of Increased Safety Cable Glands- Ex db IIC C Bb- Ex ebi IIC Cb- Ex db IIC C Bb- Ex ebi IIC Cbb- Ex db IIC C Bb- Ex dbi IIC Cbb- Ex db IIC C Bb- Ex db
- Ex d IIC Cb- Ex d IIC T** °C Db- Ex d IIC- Ex d I/IC- Ex d I/IC- Ex d I/I- Ex d IIC Gb- Ex d IIC Cb- Ex d IIC Cb (Cb)- Ex d IIC Cb (Cb)- Ex d IIC Cb (Cb)- Ex db IIC Cb)-
- Ex d I/IICType 476/1: Gland Adaptators and Reducers- Ex d I/IIType 476/1: Gland Adaptators and Reducers- Ex d IMb- Ex d IMb- Ex d IIC GbType 476: Range of Adaptators and Reducers (brass, Stainless Steel & Aluminium)- Ex d IIC GbType 501/453/UNIV: Universal Cable Gland- Ex d IIC GbType 753, 755, 710 & 711: Compound Filled Cable Glands- Ex d IIC GbType 753, 755, 710 & 711: Compound Filled Cable Glands- Ex d IIC CbType 1CG 623, 653, 659, 611 & CSB 656: Gland Range of Barrier- 60°C ≤ ta ≤ + 80°C)Type 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474, 501/452/RAC: Cable Glands with Compression Type Seals- Ex db IIC Cb BP66Type 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474, 501/452/RAC: Cable Glands with Compression Type Seals- Ex db IIC Cb BP66** (see schedule for associated certificates for marking informations)- Ex db IIC Cb** (see schedule for associated certificates for marking informations)- Ex db IIC Cb** (see schedule for associated certificates for marking informations)- Ex db IIC Cb** (see schedule for associated certificates for marking informations)- II 2GD Ex db IIC T* Gb** (see schedule for associated certificates for marking informations)
- Ex e I/IIType 476/1: Gland Adaptators and Reducers- Ex d IMb- Ex d IMb- Ex d IIC Gb- Ex d IIC Gb- Ex d IIC Cb- Ex to IIIC Db IP66- Ex d IIC Gb- Ex d IIC Cb- Ex d IIC Gb- Ex d IIC Cb- Ex d IIC Cb- Ex d IIC Cb- Ex d IIC Cb- Ex d IIC Db IP66- Ex d IIC Cb- Ex d IIC Db IP66- Ex d IIC Cb- Ex d IIC Db IP66- Ex d IIC Cb- Ex d IIC Cb- Ex d IIC Cb- Ex d IIC Cb - Ex d IIC Cb- Ex d IIC Cb- Ex d IIC Db IP66- Ex d IIC Cb- Ex d IIC Db IP66- Type 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474, 501/452/RAC: Cable Glands with Compression Type Seals(- 60°C ≤ ta ≤ + 100°C)**** (see schedule for associated certificates for marking informations)- Ex db IIC Db T** °C IP66/67- Type 321, 351 & 353: Range of Increased Safety Cable Glands- II 2GD Ex db IIC T* Gb- II 2GD Ex db IIC T* Gb
- Ex e I Mb- Ex d I Mb- Ex d IIC Gb- Ex d IIC Cb- Ex d IIC Db IP66- Ex d IIC Db IP66- Ex d IIC Cb- Ex d IIC Cb- Ex d IIC Cb- Ex th IIIC Db IP66- Ex d IIC Ex e IIC Gb- Ex d IIC Ex e IIC Gb- Ex th IIC Db IP66- Ex th IIC Db T** °C IP66/67- Ex eb IIC Gb- Ex th IIC Db T** °C IP66/67- II 2GD Ex db IIC T* Gb
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- Ex d IIC GbType 476: Range of Adaptators and Reducers (brass, Stainless Steel & Aluminium)- Ex e IIC Gb- Ex d IIC Gb- Ex d IIC GbType 501/453/UNIV: Universal Cable Gland- Ex n R IIC Gc** Tamb -60°C to +80°C- Ex tb IIIC T** °C Db IP66- Ex tb IIIC Gb- Ex n R IIC Gb- Ex nR IIC Gb- Ex tb IIIC CBb- Ex nR IIC Gb- Ex tb IIIC CGb- Ex nR IIC Gc- Ex tb IIIC CGb- Ex tb IIIC CGb- Ex tb IIIC Db IP66- Ex tb IIIC CGb- Ex tb IIIC Db IP66- Ex tb IIIC CGb- Ex tb IIIC Db IP66- Ex tb IIIC CGb- Ex tb IIIC Db IP66- Ex tb IIIC CGb- Ex tb IIIC Db IP66- Ex tb IIIC CGb- Ex tb IIIC Db IP66- Ex tb IIIC CGb- Ex tb IIIC Db IP66- Ex tb IIIC CGb- Ex tb IIIC Db IP66- Ex tb IIIC CGb- Ex tb IIIC Db IP66- S01/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474,- Ex tb IIIC Db IP66- S01/452/RAC: Cable Glands with Compression Type Seals- Ex tb IIIC Db IP66- S01/452/RAC: Cable Glands with Compression Type Seals- Ex tb IIIC Db IP66- S01/452/RAC: Cable Glands with Compression Type Seals- Ex tb IIIC Db T** °C IP66/67- Ype 321, 351 & 353: Range of Increased Safety Cable Glands- Ex tb IIIC Db T** °C IP66/67- Ype 321, 351 & 353: Range of Increased Safety Cable Glands- II 2GD Ex db IIC T* Gb- II 2GD Ex db IIC T* Gb
- Ex e IIC GbType 501/453/UNIV: Universal Cable Gland- Ex d IIC GbType 501/453/UNIV: Universal Cable Gland- Ex e IIC GbType 501/453/UNIV: Universal Cable Gland- Ex nR IIC Gc** Tamb -60°C to +80°C- Ex tb IIIC T** °C Db IP66Type 753, 755, 710 & 711: Compound Filled Cable Glands- Ex a IIC GbType 753, 755, 710 & 711: Compound Filled Cable Glands- Ex tb IIIC Db IP66Type 753, 659, 611 & CSB 656: Gland Range of Barrier- Ex tb IIIC Db IP66Type 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474,- Ex tb IIIC Db IP66Type 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474,- Ex tb IIIC Db IP66S01/452/RAC: Cable Glands with Compression Type Seals(- 60°C ≤ ta ≤ + 100°C)**** (see schedule for associated certificates for marking informations)- Ex tb IIIC Db T** °C IP66/67Type 321, 351 & 353: Range of Increased Safety Cable Glands- Ex tb IIIC Db T** °C IP66/67** (see schedule for associated certificates for marking informations)- II 2GD Ex db IIC T* Gb**
- Ex tb IIIC Db IP66Type $501/453/UNIV$ : Universal Cable Gland- Ex d IIC GbType $501/453/UNIV$ : Universal Cable Gland- Ex nR IIC Gc** Tamb - $60^{\circ}$ C to $+80^{\circ}$ C- Ex tb IIIC T** °C Db IP66Type $753, 755, 710 \& 711$ : Compound Filled Cable Glands- Ex a fIC GbType $753, 755, 710 \& 711$ : Compound Filled Cable Glands- Ex nR IIC GcType $753, 755, 710 \& 711$ : Compound Filled Cable Glands- Ex tb IIIC Db IP66Type ICG 623, 653, 659, 611 & CSB 656: Gland Range of Barrier(- $60^{\circ}$ C $\leq$ ta $\leq$ + $80^{\circ}$ 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 tb IIIC Db IP66Type 321, 351 & 353: Range of Increased Safety Cable Glands ** (see schedule for associated certificates for marking informations)- Ex tb IIIC Db T** °C IP66/67Type 321, 351 & 353: Range of Increased Safety Cable Glands ** (see schedule for associated certificates for marking informations)
- Ex d IIC GbType 501/453/UNIV: Universal Cable Gland- Ex nR IIC Gc** Tamb -60°C to +80°C- Ex tb IIIC T** °C Db IP66** Tamb -60°C to +80°C- Ex d IIC GbType 753, 755, 710 & 711: Compound Filled Cable Glands- Ex nR IIC Gc- Ex tb IIIC Db IP66- Ex tb IIIC Db IP66Type 753, 659, 611 & CSB 656: Gland Range of Barrier(- 60°C $\leq$ ta $\leq$ + 80°C)- Ex db IIC Gb- Ex db IIC Ex e b IIC GbType 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474, 501/452/RAC: Cable Glands with Compression Type Seals(- 60°C $\leq$ ta $\leq$ + 100°C)**** (see schedule for associated certificates for marking informations)- Ex tb IIIC GbType 321, 351 & 353: Range of Increased Safety Cable Glands- II 2GD Ex db IIC T* Gb** (see schedule for associated certificates for marking informations)
- Ex e IIC GbType $501/453/UNIV$ : Universal Cable Gland ** Tamb -60°C to +80°C- Ex nR IIC Gc- Ex d IIC Gb- Ex d IIC GbType $753, 755, 710 \& 711$ : Compound Filled Cable Glands- Ex nR IIC Gc- Ex tb IIIC Db IP66- Ex tb IIIC Db IP66Type $753, 659, 611 \& CSB 656$ : Gland Range of Barrier(- 60°C $\leq$ ta $\leq$ + 80°C)Type $501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474, 501/452/RAC: Cable Glands with Compression Type Seals(- 60°C \leq ta \leq + 100°C)**** (see schedule for associated certificates for marking informations)- Ex eb IIC GbType 321, 351 & 353: Range of Increased Safety Cable Glands- II 2GD Ex db IIC T* Gb** (see schedule for associated certificates for marking informations)$
- Ex nR IIC Gc $**$ Tamb -60°C to +80°C- Ex tb IIIC T** °C Db IP66** Tamb -60°C to +80°C- Ex d IIC GbType 753, 755, 710 & 711: Compound Filled Cable Glands- Ex nR IIC GcType 753, 755, 710 & 711: Compound Filled Cable Glands- Ex tb IIIC Db IP66Type 1CG 623, 653, 659, 611 & CSB 656: Gland Range of Barrier(- 60°C $\leq$ ta $\leq$ + 80°C)Type 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474,- Ex tb IIIC Db IP66Type 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474,- Ex tb IIIC Db IP66S01/452/RAC: Cable Glands with Compression Type Seals(- 60°C $\leq$ ta $\leq$ + 100°C)**** (see schedule for associated certificates for marking informations)- Ex eb IIC GbType 321, 351 & 353: Range of Increased Safety Cable Glands- Ex tb IIIC Db T** °C IP66/67** (see schedule for associated certificates for marking informations)- II 2GD Ex db IIC T* GbType 321, 351 & 353: Range of Increased Safety Cable Glands
- Ex d IIC GbType 753, 755, 710 & 711: Compound Filled Cable Glands- Ex nR IIC Gc- Ex tb IIIC Db IP66- Ex tb IIIC Db IP66- Ex tb IIIC CBb- Ex tb IIIC Db IP66Type ICG 623, 653, 659, 611 & CSB 656: Gland Range of Barrier(- 60°C $\leq$ ta $\leq$ + 80°C)- Ex tb IIIC Db IP66- Ex tb IIIC Db IP66Type 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474,- Ex tb IIIC Db IP66S01/452/RAC: Cable Glands with Compression Type Seals(- 60°C $\leq$ ta $\leq$ + 100°C)**** (see schedule for associated certificates for marking informations)- Ex eb IIC GbType 321, 351 & 353: Range of Increased Safety Cable Glands- Ex tb IIIC Db T** °C IP66/67** (see schedule for associated certificates for marking informations)- II 2GD Ex db IIC T* Gb- II 2GD Ex db IIC T* Gb
- Ex e IIC Gb - Ex nR IIC GcType 753, 755, 710 & 711: Compound Filled Cable Glands- Ex tb IIIC Db IP66Type 753, 755, 710 & 711: Compound Filled Cable Glands- Ex d IIC Ex e IIC Gb - Ex tb IIIC Db IP66Type ICG 623, 653, 659, 611 & CSB 656: Gland Range of Barrier (- $60^{\circ}C \le ta \le + 80^{\circ}C)$ - Ex db IIC Ex eb IIC Gb - Ex tb IIIC Db IP66Type 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 eb IIC Gb - Ex eb IIC Gb - Ex eb IIC GbType 321, 351 & 353: Range of Increased Safety Cable Glands ** (see schedule for associated certificates for marking informations)- Ex tb IIIC Db T** °C IP66/67** (see schedule for associated certificates for marking informations)- II 2GD Ex db IIC T* Gb**
Ex nR IIC GcType 753, 755, 710 & 711: Compound Filled Cable Glands- Ex tb IIIC Db IP66- Ex td IIC Ex e IIC Gb- Ex tb IIIC Db IP66Type ICG 623, 653, 659, 611 & CSB 656: Gland Range of Barrier(- $60^{\circ}C \le ta \le + 80^{\circ}C)$ - Ex tb IIIC Db IP66- Ex tb IIIC Db IP66Type 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474,- Ex tb IIIC Db IP66501/452/RAC: Cable Glands with Compression Type Seals(- $60^{\circ}C \le ta \le + 100^{\circ}C)^{**}$ ** (see schedule for associated certificates for marking informations)- Ex eb IIC GbType 321, 351 & 353: Range of Increased Safety Cable Glands- Ex tb IIIC Db T** °C IP66/67** (see schedule for associated certificates for marking informations)- II 2GD Ex db IIC T* Gb**
- Ex nk file GeThe file of the file- Ex tb IIIC Db IP66- Ex tb IIIC Db IP66- Ex tb IIIC Db IP66Type ICG 623, 653, 659, 611 & CSB 656: Gland Range of Barrier(- $60^{\circ}C \le ta \le + 80^{\circ}C)$ - Ex tb IIIC Db IP66- Ex tb IIIC Db IP66Type 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474,- Ex tb IIIC Db IP66501/452/RAC: Cable Glands with Compression Type Seals** (see schedule for associated certificates for marking informations)- Ex eb IIC GbType 321, 351 & 353: Range of Increased Safety Cable Glands- Ex tb IIIC Db T** °C IP66/67** (see schedule for associated certificates for marking informations)- II 2GD Ex db IIC T* Gb**
- Ex d IIC Ex e IIC GbType ICG 623, 653, 659, 611 & CSB 656: Gland Range of Barrier- Ex tb IIIC Db IP66Type 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474,- Ex db IIC Ex eb IIC GbType 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474,- Ex tb IIIC Db IP66501/452/RAC: Cable Glands with Compression Type Seals(- 60°C ≤ ta ≤ + 100°C)**** (see schedule for associated certificates for marking informations)- Ex eb IIC GbType 321, 351 & 353: Range of Increased Safety Cable Glands- Ex tb IIIC Db T** °C IP66/67** (see schedule for associated certificates for marking informations)- II 2GD Ex db IIC T* GbFor associated certificates for marking informations)
- Ex tb IIIC Db IP66 (- $60^{\circ}C \le ta \le + 80^{\circ}C)$ Type ICG 623, 653, 659, 611 & CSB 656: Gland Range of Barrier- Ex db IIC Ex eb IIC Gb - Ex tb IIIC Db IP66 (- $60^{\circ}C \le ta \le + 100^{\circ}C)^{**}$ 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 IP66/67Type 321, 351 & 353: Range of Increased Safety Cable Glands ** (see schedule for associated certificates for marking informations)- II 2GD Ex db IIC T* GbIIC T* Gb
$(-60^{\circ}C \le ta \le + 80^{\circ}C)$ Type 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474, $- Ex db IIC Db IP66$ Type 501/421, 501/453/RAC, 501/423, 501/453, PSG553, 501/414, SB474, $(-60^{\circ}C \le ta \le + 100^{\circ}C)^{**}$ $(see schedule for associated certificates for marking informations)$ $- Ex eb IIC Gb$ Type 321, 351 & 353: Range of Increased Safety Cable Glands $- Ex tb IIIC Db T^{**} ^{\circ}C IP66/67$ $(see schedule for associated certificates for marking informations)$ $- II 2GD Ex db IIC T^* Gb$ $(see schedule for associated certificates for marking informations)$
- Ex db IIC Ex eb IIC GbType $501/421$ , $501/453/RAC$ , $501/423$ , $501/453$ , PSG553, $501/414$ , SB474,- Ex tb IIIC Db IP66 $501/452/RAC$ : Cable Glands with Compression Type Seals(- $60^{\circ}C \le ta \le + 100^{\circ}C)^{**}$ ** (see schedule for associated certificates for marking informations)- Ex eb IIC GbType $321$ , $351 \& 353$ : Range of Increased Safety Cable Glands- Ex tb IIIC Db T** °C IP66/67** (see schedule for associated certificates for marking informations)- II 2GD Ex db IIC T* Gb-
- Ex tb IIIC Db IP66 $501/452/RAC$ : Cable Glands with Compression Type Seals(- $60^{\circ}C \le ta \le + 100^{\circ}C)^{**}$ ** (see schedule for associated certificates for marking informations)- Ex eb IIC GbType 321, 351 & 353: Range of Increased Safety Cable Glands- Ex tb IIIC Db T** °C IP66/67** (see schedule for associated certificates for marking informations)- II 2GD Ex db IIC T* GbEx eschedule for associated certificates for marking informations)
$(-60^{\circ}C \le ta \le +100^{\circ}C)^{**}$ ** (see schedule for associated certificates for marking informations)- Ex eb IIC GbType 321, 351 & 353: Range of Increased Safety Cable Glands ** (see schedule for associated certificates for marking informations)- Ex tb IIIC Db T** °C IP66/67** (see schedule for associated certificates for marking informations)- II 2GD Ex db IIC T* Gb**
- Ex eb IIC Gb       Type 321, 351 & 353: Range of Increased Safety Cable Glands         - Ex tb IIIC Db T** °C IP66/67       ** (see schedule for associated certificates for marking informations)         - II 2GD Ex db IIC T* Gb       **
- Ex tb IIIC Db T** °C IP66/67       ** (see schedule for associated certificates for marking informations)         - II 2GD Ex db IIC T* Gb       **
- II 2GD Ex db IIC T* Gb
- II 2GD Ex db IIB+H2 T* Gb ** Ta -40°C to +xx°C (see schedule for associated certificates for marking informations)
- Ex tb IIIC T** °C Db
- II 2GD Ex db IIC T* Gb
- Ex tb IIIC T** Db Power Ex: Range of In-Line Plug and Socket Connectors
- II 2GD Ex db IIB+H2 T* Gb $**$ Ta -40°C to +xx°C (see schedule for associated certificates for marking informations)
- Ex tb IIIC T** °C Db
- Exdb e IIC Gb Instrumex: Range of In-Line Plug and Bulkhead Plug & Socket Connectors
- Ex tb IIIC Db T85°C IP66/67 Tamb -40°C to +60°C
- Ex db IIC Ex eb IIC Gb
- Ex tb IIIC Db IP66 Type PR411 & PR453: Cable Glands $(-60^{\circ}C \le ta \le +100^{\circ}C)$

### 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	<ul> <li>S1 to S9 and S15 &amp; S17 MS1 to MS9, EJB1, EJB2, MEJB1,</li> <li>&amp; MEJB2: Range of Metal Junction Boxes</li> <li>* &amp; ** (see schedule for associated certificates for marking informations)</li> </ul>		
- 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		

# **<u>2. DOCUMENTS AND DRAWINGS :</u>**

## 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	А	10/05/2019	ICG-653-UNIV-X	А	10/05/2019
501 453 UNIV X	A	10/05/2019	710-X	A	10/05/2019
711-X	А	10/05/2019	753-X	А	10/05/2019
453 RAC X	А	04/06/2019	453 UNIV X	А	04/06/2019
501 421	L	04/06/2019	501 421 Oversized	Н	04/06/2019
501 423	L	04/06/2019	501 423 Oversized	Н	04/06/2019
501 414	L	04/06/2019	501 452 RAC X	А	04/06/2019
501 453 RAC X	А	04/06/2019	PSG 553 RAC X	А	04/06/2019
PSG 421	В	04/06/2019	SB 474	L	04/06/2019
653-UNIV-X	А	16/06/2019	321 Oversized	Н	04/06/2019
321	М	04/06/2019	351 RAC X	А	04/06/2019
353 RAC X	А	04/06/2019	CSB 656N	А	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 AssembliesTest 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 11.0077X Issue No.: 2, dated 2013-3-8
- Certificate No. IECEX BAS 11.0079X Issue No.: 2, dated 2015-5-8 - Certificate No. IECEX BAS 11.0079X Issue No.: 3, dated 2015-5-18
- Certificate No. IECEX BAS 11.0073X Issue No.: 9, dated 2013-3-16 - 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.: 1, 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. Baseefa12ATEX0014X/7, dated Feb 28, 2013
- Certificate No. Baseefa12ATEX0095X, dated Feb 28, 2015 - 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 \*\*\*