



CERTIFICATE NUMBER

06-LD142850A-PDA

DATE

10 March 2006

ABS TECHNICAL OFFICE

London Ship Engineering

CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of
Hawke International

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate. It will remain valid as noted below or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Cable Glands

MODEL: Type 501/421, 501/421 Oversize, 501/423, 501/423 Oversize, 501/453 RAC, 501/453 Dedicated, 501/453 Dedicated Oversize.

ABS RULE: 2006 Steel Vessel Rules 1-1-4/7.7 and 4-8-3/1.7

OTHER STANDARD: BS EN 50014, BS EN 50018, BS EN 50019, EN 50281-1-1;

AMERICAN BUREAU OF SHIPPING

Jean-Claude G. Dennemont

Engineering Type Approval Co-ordinator

Hawke International

(A member of the Hubbell Group of Companies)

Oxford Street West

Ashton-under-Lyne

Lancashire OL7 0NA

United Kingdom

Telephone: 44-161-308-3611

Fax: 44-161-308-5848

Product: Cable Glands

Model: Type 501/421, 501/421 Oversize, 501/423, 501/423 Oversize, 501/453 RAC, 501/453 Dedicated, 501/453 Dedicated Oversize.

Intended Service:

Cable glands certified for use with all types of unarmoured, armoured and braided cable; For use in hazardous locations on ships and offshore units.

Description:

The gland is manufactured in brass, aluminium or stainless steel, and is produced with an entry thread size in the range M16 to M75 for standard size glands and M80 to M100 in oversize glands, or equivalent sizes in NPT National Pipe Taper.

Ratings:

Flameproof EExd IIC 2 GD and Increased Safety EExe II 2 GD. Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22, and gas groups: QA, IIB and IIC, Ingress Protection rating to IP66.

Service Restrictions:

Unit Certification is not required for this product.

Comments:

- 1) Special conditions as per certificate. BAS 01 ATEX 2070X for 501/421 gland apply
- 2) Special conditions as per certificate. BAS 01 ATEX 2294X for 501/421 Oversize gland apply
- 3) Special conditions as per certificate. BAS 01 ATEX 2071X for 501/423 gland apply
- 4) Special conditions as per certificate. BAS 01 ATEX 2295X for 501/423 Oversize gland apply
- 5) Special conditions as per certificate. BAS 01 ATEX 2072X for 501/453RAC gland apply
- 6) Special conditions as per certificate. BAS 01 ATEX 2073X for 501/453 Dedicated gland apply
- 7) Special conditions as per certificate. BAS 01 ATEX 2296X for 501/453 Dedicated Oversize gland apply
- 8) Manufacturers' assembly instructions are to be strictly followed during installation

Notes/Documentation:

Baseefa Certificates as detailed above

Term of Validity:

This product/model is covered under Product Design Assessment (PDA) Certificate # 06--LD142850A-PDA, dated 10/Mar/2006. This PDA Certificate expires Mar of 2011. It will remain valid for the 5 years from date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first).

STANDARDS**ABS Rules:**

2006 Steel Vessel Rules 1-1-4/7.7 and 4-8-3/1.7

International:

BS EN 50014, BS EN 50018, BS EN 50019, EN 50281-1-1

