


Certificate of Compliance

Certificate: 1024328 (LR 78713-9)	Master Contract: 178267
Project: 1234146 (Edition 5)	Date Issued: August 20, 2001
Issued to: Hawke Cable Glands Limited Member of the McKechnie Group of Co Oxford St. W. Ashton-Under-Lyne Lancashire, OL7 0NA United Kingdom	

The products listed below are eligible to bear the CSA Mark shown



Issued by: 
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Certification Specialist

Authorized by: 
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Operations Manager

CLASS

4418 05 - CABLE - Hardware For Hazardous Locations

PRODUCTS

Ex d IIC & Ex e II; -50 °C to 60 °C, IP 66

"HAWKE" Model ICG 623 Flameproof Barrier Gland; ICG 653 Dedicated, ICG 653 UNIV; and CSB 656, Cable Glands.

NOTE :

1. Additional marking denoting trade size, and manufacturer information will be included.
2. These cable glands are designed for use with unarmoured or appropriate Steel Tape Armour (STA), Steel Wire Armour (SWA), and appropriate braided cable.
3. According to CEC C22.1-98, Section 18-106 Part 3, Tapered Threads shall have 5 fully engaged threads, and where non-tapered threads are used in Groups IIC there must be 8 fully engaged threads.

4. IEC Canadian Standards may have either tapered or non-tapered threads which comply to ISO Standards.
5. These cable glands are designed for appropriate cable, as per the manufacturers specifications, to maintain integrity of the installation.
6. For Ex e applications a sealing washer or thread sealant may be required between the enclosure and the gland to maintain the IP rating of the enclosure.
7. For 0s and 0 size glands when used with unarmoured or braided cables are only suitable for use with fixed apparatus, the cable must be effectively clamped and cleated elsewhere, to be noted in Installation Instructions.
8. Drain wires and earth screening may pass through the compound barrier using one of methods which are detailed in the manufacturers assembly instructions ; heat shrink or cold shrink tubing, or addition of an insulated crimped or soldered conductor, or insulation by varnish or paint.
9. Cable Gland may only be installed when temperature is above -5 °C. After completion of the installation, the assembly is then suitable for -50 °C to 60 °C.

APPLICABLE REQUIREMENTS

The following standards were used as a guide in the evaluation of the products covered by this report.

CSA Standard C22.2 No	0-M1991	-	General Requirements - Canadian Electrical Code Part II.
	174-M1984	-	Cables and Cable Glands for Use in Hazardous Locations. (For Reference.)
CAN/CSA E79-0-95		-	Electrical apparatus for explosive gas atmospheres. PART 0: General requirements.
	E79-1-95	-	Electrical apparatus for explosive gas atmospheres. PART 1: Construction and verification test of flameproof enclosures of electrical apparatus.
	E79-7-95	-	Electrical apparatus for explosive gas atmospheres. Part 7: Increased Safety 'e'.



Supplement to Certificate of Compliance

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The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
LR 78713-9	March 31, 1999	Certification of the ICG 653 Series Compression Glands for Hazardous Locations.
LR 78713-11	April 21, 1999	Update to -1 report to include Clarifications of gland restrictions.
1024328	November 29, 1999	Supersedes LR 78713-9 to include the ICG 653 Barrier Gland Series. Originally issued as 2500002782.
2500003099	April 7, 2000	Update to 1024328 to include addition of the ICG 653/UNIV Cable Gland for Hazardous Locations.
1234146	August 20, 2001	Update to 1024328 to include new Model nomenclature and rationalization of components.