



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx BAS 09.0089X issue No.:1
Status: **Current**
Date of Issue: 2010-07-02 Page 1 of 4

Certificate history:
Issue No. 1 (2010-7-2)
Issue No. 0 (2009-8-28)

Applicant: **ABTECH Limited**
5 Sanderson Street
Sheffield
S9 2UA
United Kingdom

Electrical Apparatus: **ASG XXX and ADG Range of Cable Glands**
Optional accessory:

Type of Protection: **Flameproof, Increased Safety, Dust protection by enclosure**

Marking: **Ex d IIC Ex e II Ex tD A21 IP66/IP67**
(-60°C ≤ ta ≤ + 100°C)

Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

Managing Director

Signature:
(for printed version)

Date:

2-7-10

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

Baseefa
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom





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Manufacturer: **ABTECH Limited**
5 Sanderson Street
Sheffield
S9 2UA
United Kingdom

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2003 Edition: 5	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'
IEC 60079-7 : 2001 Edition: 3	Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e'
IEC 61241-0 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "ID"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

GB/BAS/ExTR09.0126/00
GB/BAS/ExTR10.0149/00

Quality Assessment Report:

GB/BAS/QAR07.0030/01
GB/SIR/QAR06.0046/01



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The ASG XXX RANGE OF CABLE GLANDS

The ASG Range of Cable Glands is intended for use with an effectively filled and circular cable and comprises the following components, the metal parts of which can be manufactured in brass and may be nickel plated to suit the application

See annex for full description.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. These glands are suitable for use within an operating temperature range of -60°C to $+80^{\circ}\text{C}$.
2. When the gland is used for increased safety or dust protection, the entry thread shall be suitably sealed, in accordance with IEC 60079-14, to maintain the ingress protection rating of the associated enclosure.
3. Glands are only suitable for fixed installations, the cable for which must be effectively clamped to prevent pulling and twisting.
4. When used in flameproof applications on braided or armoured cable the seal within the gland must seal onto the inner sheath of the cable, i.e. that which is under the braid or armour and not on the outer sheath that covers the braid or armour.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 1.1

Permits the metal parts to be manufactured in stainless steel as an alternative material.

Variation 1.2 Extension of the permitted upper service temperature range to +100°C.

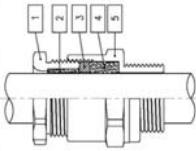
Variation 1.3

Alternative construction comprising a double seal arrangement to form an ADG range of metric and NPT cable glands.

ExTR: GB/BAS/ExTR10.0149/00

File Reference: 10/0453

ASG Cable Gland Installation Procedure



1. Back nut
2. Bush
3. Ring
4. Inner seal
5. Entry adaptor

- 1) Measure the outer sheath to ensure the selected gland is suitable.
- 2) Fit the entry adaptor to the enclosure, using a locknut if required. If necessary a suitable sealing washer should be used to maintain the IP rating of the enclosure.
- 3) Remove the back nut (1), bush (2), ring (3) and inner seal (4) from the entry adaptor.
- 4) Fit the back nut, bush, ring and inner seal over the cable and fit the cable through the entry adaptor.



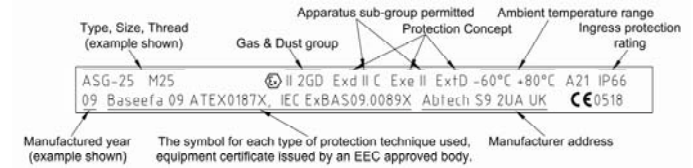
- 5) Screw the back nut onto the entry adaptor until hand tight then using a suitable spanner or wrench tighten a further 1/2 to 3/4 of a turn.
- 6) If required, the shroud should now be fitted over the cable gland assembly.

Special Conditions for Safe Use

1. These glands are suitable for use within an operating temperature range of -60°C to +80°C.
2. When the gland is used for increased safety or dust protection, the entry thread shall be suitably sealed, in accordance with IEC/EN 60079-14, to maintain the ingress protection rating of the associated enclosure.
3. Glands are only suitable for fixed installations, the cable for which must be effectively clamped to prevent pulling and twisting.
4. When used in flameproof applications on braided or armoured cable the seal within the gland must seal onto the inner sheath of the cable, i.e. that which is under the braid or armour and not on the outer sheath that covers the braid or armour.

ABTQ-85
Revision Date: 13.08.2009 rev00

ATEX and IEC EX Marking details



Cable Gland Selection Chart

Part No	Entry Thread size		Outer Sheath 'OD'		Hexagon Dimensions		Min. Thread Length °C	
	Metric	NPT	Min.	Max.	Across Flats 'A'	Across Corners 'B'	Metric	NPT
ASG-16a	M16	-	3.0	6.0	22	24.5	15	-
ASG-16b			6.1	10.0				
ASG-20a	M20	1/2"	3.0	6.0	24	26.8	15	20
ASG-20b			6.1	10.0				
ASG-20c	M20	1/2"	10.1	15.0	27	30	15	20
ASG-25a	M25	3/4"	15.1	18.0	32	35.5	15	20
ASG-32a	M32	1"	18.1	23.0	39	43.5	15	25
ASG-32b			22.1	26.0				
ASG-40	M40	1 1/4"	26.1	32.0	48	53.5	15	25.6
ASG-50	M50	1 1/2"	32.1	40.0	58	64	15	26
ASG-63a	M63	2"	40.1	47.0	73	81	15	27
ASG-63b			47.1	54.0				
ASG-75	M75	2 1/2"	55.0	65.0	85	94	15	40
ASG-80	M80	3"	65.1	71.5	100	109.5	15	41.5
ASG-90	M90	3"	71.6	77.6	105	113.5	15	41.5

Certification Details:

Certificate Number: - ATEX: Baseefa09ATEX0187X, IEC Ex: IEC ExBAS09.0089X
 Coding: - II 2GD Ex d IIC Ex e II Ex tD A21
 Ambient Temperature: - -60°C ≤ Tamb ≤ 80°C
 Ingress Protection: - IP 66

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