



**EC - TYPE EXAMINATION CERTIFICATE**

**Equipment or Protective System Intended for use in Potentially Explosive Atmospheres  
Directive 94/9/EC**

- 3 EC - Type Examination Certificate Number: **Baseefa09ATEX0187X**
- 4 Equipment or Protective System: **ASG XXX Range of Cable Glands**
- 5 This certificate is held by: **Abtech Limited**
- 6 Address: **Sanderson Street, Lower Don Valley, Sheffield, S9 2UA**
- 7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 8 Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in confidential Report No. GB/BAS/ExTR09.0126/00
- 9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 60079-0: 2006, EN 60079-1: 2004, EN 60079-7: 2006, IEC 61241-0: 2004, IEC 61241-1: 2004**  
except in respect of those requirements listed at item 18 of the Schedule.
- 10 If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- 11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
- 12 The marking of the equipment or protective system shall include the following :

**Ex II 2GD Ex d IIC Ex e II Ex tD A21 IP66/IP67 (- 60°C ≤ ta ≤ + 80°C)**

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. 6376

Project File No. 09/0435

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

**Baseefa**

Rockhead Business Park, Staden Lane,  
Buxton, Derbyshire SK17 9RZ  
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601  
e-mail [info@baseefa.com](mailto:info@baseefa.com) web site [www.baseefa.com](http://www.baseefa.com)  
Baseefa is a trading name of Baseefa Ltd  
Registered in England No. 4305578. Registered address as above.

*RS Sinclair*  
*RS Sinclair*  
R S SINCLAIR  
DIRECTOR  
On behalf of  
Baseefa



13

## Schedule

14

Certificate Number Baseefa09ATEX0187X

### 15 Description of Equipment or Protective System

#### The ASG XXX RANGE OF CABLE GLANDS

The ASG XXX 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:-

- a. An entry component, in the size range (M16 to M90)
- b. A displacement sealing ring
- c. A metal compression ring
- d. A liner bush
- e. A compression nipple

The XXX is used to define the size of gland e.g 20a or 25 etc.

#### Variation 0.1

Substitution of the M20 to M90 entry component with an entry component having an NPT equivalent in the range 1/2"NPT to 3"NPT.

### 16 Report Number

GB/BAS/ExTR09.0126/00

### 17 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 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.

### 18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

### 19 Drawings and Documents

Number	Issue	Date	Description
ABT20089	A	02/07/09	Certification marking – ASG cable glands
Baseefa08ATEX0011X	--	25/01/08	A2F-S-XXX Range of Cable Glands



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres  
Directive 94/9/EC**

3 Supplementary EC - Type Examination Certificate Number: **Baseefa09ATEX0187X/1**

4 Equipment or Protective System: **ASG XXX Range of Cable Glands**

5 This certificate is held by: **Abtech Limited**

6 Address: **Sanderson Street, Lower Don Valley, Sheffield, S9 2UA**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa09ATEX0187X to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. 6376

Project File No. 10/0453

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

**Baseefa**

Rockhead Business Park, Staden Lane,  
Buxton, Derbyshire SK17 9RZ  
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601  
e-mail [info@baseefa.com](mailto:info@baseefa.com) web site [www.baseefa.com](http://www.baseefa.com)  
Baseefa is a trading name of Baseefa Ltd  
Registered in England No. 4305578. Registered address as above.

R S SINCLAIR

DIRECTOR  
On behalf of  
Baseefa



13

## Schedule

14

Certificate Number Baseefa09ATEX0187X/1

15 **Description of the variation to the Equipment or Protective System**

**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.

16 **Report Number**

Baseefa Report GB/BAS/ExTR10.0149/00

17 **Special Conditions for Safe Use**

1. The permitted service temperature range is -60°C to +100°C

18 **Essential Health and Safety Requirements**

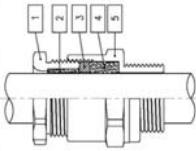
Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
ABT20089	---	C	30/06/10	Certification marking

Drawing held on IECEx BAS 09.0089X

## 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.



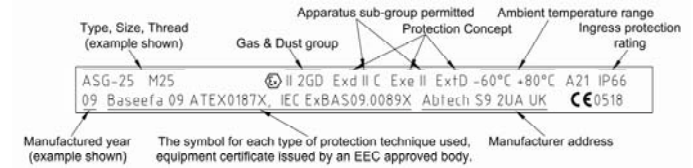
- 5) Screw the back nut onto the entry adaptor until hand tight then using a suitable spanner or wrench tighten a further 1/2 to 3/4 of a turn.
- 6) If required, the shroud should now be fitted over the cable gland assembly.

### 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

Abtech Limited  
 5 Sanderson Street  
 Sheffield, S9 2UA  
 United Kingdom  
 Tel: +44 (0)114 244 2424  
 Fax: +44 (0)114 243 4312  
 www.abtech.eu

ABTQ-85  
Revision Date: 13.08.2009 rev00