



EU Type Examination Certificate CML 20ATEX1060X Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **BDM Series Cable Glands, BGJ Series Adapters, BDT Series Plugs**
- 3 Manufacturer **Sunleem Technology Incorporated Company**
- 4 Address **No.15 Xihenggang Street,
Yangchenghu Town, Xiangcheng
District, Suzhou, Jiangsu, China**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 6738671, Hoogoorddreef 15, Amsterdam, 1101 BA, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018

EN 60079-1:2014*

EN IEC 60079-7:2015+A1:2018

EN 60079-31:2014

* Not applicable to BDM Series Explosion-proof Cable Glands and BDT Series Explosion-proof Stopping Plugs

- 10 The equipment shall be marked with the following:

BDM Cable Glands and BDT Stopping Plugs

BGJ Adapters



Ex eb IIC Gb
Ex tb IIIC Db

Ts = -40°C to +80°C



Ex db IIC Gb
Ex eb IIC Gb
Ex tb IIIC Db

Ts = -60°C to +100°C



CML 20ATEX1060X
Issue 0

11 Description

BDM Series Cable Glands

The BDM Series Cable Glands are manufactured from a non-metallic material and have a metric thread type. They consist of a connector body, a compression nut, a polyamide lock nut and elastomeric sealing rings and O-rings.

The cable glands are available in the following sizes: M16, M20s, M20, M25s, M25, M32, M40, M50 and M63.

They are suitable for increased safety “eb” and dust ignition “tb” at a service temperature range of -40°C to +80°C.

Nomenclature:

BDM	-	X	-	X	-	X
1	-	2	-	3	-	4

1	Product Name	BDM
2	Cable Gland Size	16, 20s, 20, 25s, 25, 32, 40, 50, 63
3	Thread Type	M (metric)
4	Material	P (plastic)

BDT Series Stopping Plugs

The BDT Series Stopping Plugs are manufactured from a non-metallic material and have a metric thread type. They consist of a stopping plug and lock nut which are made of polyamide and an elastomeric O-Ring.

The stopping plugs are available in the following sizes: M16, M20s, M20, M25s, M25, M32, M40, M50 and M63.

They are suitable for increase safety “eb” and dust ignition “tb” at a service temperature range of -40°C to +80°C.

Nomenclature:

BDT	-	X	-	X
1	-	2	-	3

1	Product Name	BDT
2	Thread Type	M (metric)
3	Material	P (plastic)



**CML 20ATEX1060X
Issue 0**

BGJ Series Adapters

The BGJ Series Adapters are used to provide the connection between equipment and cable glands with type of protection flameproof “db”, increased safety “eb” or dust ignition “tb”.

They are manufactured from carbon steel or stainless-steel tubes and are machined to accept either two male threads, two female threads or one male thread and one female thread.

The threads may be metric or NPT thread forms.

The adapters are available in the following metric sizes: M16x1.5, M20x1.5, M25x1.5, M32x1.5, M40x1.5, M50x1.5, M63x1.5, M75x1.5, M90x2, M100x2.

The adapters are available in the following NPT sizes: NPT ½”, NPT ¾”, NPT 1”, NPT 1 ¼”, NPT 1 ½”, NPT 2”, NPT 2 ½”, NPT 3”, NPT 3 ½”, NPT 4”

They are suitable for a service temperature range of -60°C to +100°C.

Nomenclature:

BGJ	-	X	-	X	(X)	X	(X)	-	X
1	-	2	-	3	4	5	6	-	7

1	Product Name	BGJ
2	Function Code	A (female-female), B (female-male), C (male-male), D (reducer)
3	Thread Type	M (metric), NPT (60° pipe thread)
4	Only Function Mode “B” and “D”	F (female thread), M (male thread)
5	Only Function Mode “B” and “D”	M (metric), NPT (60°C pipe thread)
6	Only Function Mode “B” and “D”	F (female thread), M (male thread)
7	Material	G (stainless steel (304/316))

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	23 Mar 2020	R12395A/00	Issue of Prime Certificate

Note: Drawings that describe the equipment or component are listed in the Annex.



**CML 20ATEX1060X
Issue 0**

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the product incorporates safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

- i. The BDM Series Cable Glands are suitable for use within a service temperature range of -40°C to +80°C.
- ii. The BDM Series Cable Glands do not provide sufficient clamping; therefore, the user shall provide effective clamping of the cable to ensure that pulling and twisting is not transmitted to the terminations.
- iii. The BGJ Series Adapters are suitable for use within a service temperature range of -60°C to +100°C.
- iv. The BDT Series Plugs are suitable for use within a service temperature range -40°C to +80°C.

Certificate Annex

Certificate Number CML 20ATEX1060X
Equipment BDM Series Cable Glands, BGJ Series Adapters, BDT Series Plugs
Manufacturer Sunleem Technology Incorporated Company



The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
2XLMW 531 1035	1 to 2	A.01	23 Mar 2020	BDM Series Explosion-proof Cable Glands
8XLMW 370 1246	1 of 1	A.01	23 Mar 2020	BDM Sealing Ring
8XLMW 177 1258	1 of 1	A.01	23 Mar 2020	BDM the Connector Body
8XLMW 940 1347	1 of 1	A.01	23 Mar 2020	BDM Lock Nut
8XLMW 940 1348	1 of 1	A.01	23 Mar 2020	BDM Compression Nut
8XLMW 177 1254	1 of 1	A.01	23 Mar 2020	BGJ-A series Explosion-proof thread adapter
8XLMW 177 1255	1 of 1	A.01	23 Mar 2020	BGJ-B series Explosion-proof thread adapter
8XLMW 177 1256	1 of 1	A.01	23 Mar 2020	BGJ-C series Explosion-proof thread adapter
8XLMW 177 1257	1 of 1	A.01	23 Mar 2020	BGJ-D series Explosion-proof thread adapter
2XLMW 531 1036	1 of 1	A.01	23 Mar 2020	BDT Series Explosion-proof Stopping Plugs
8XLMW 325 1081	1 of 1	A.01	23 Mar 2020	BDT Series Explosion-proof Stopping Plugs
8XLMW 940 1346	1 of 1	A.01	23 Mar 2020	BDT Lock Nut