



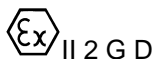
EU Type Examination Certificate CML 19ATEX1167X Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **A Range of Cable Glands with Compression Seals**
- 3 Manufacturer **Hawke International (A Division of Hubbell Limited) (A member of the Hubbell group of Companies)**
- 4 Address Oxford Street West,
Ashton-under-Lyne,
Lancashire, OL7 0NA
United Kingdom
- 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 60079-0:2018	EN 60079-7:2015
EN 60079-1:2014	EN 60079-31:2014

- 10 The equipment shall be marked with the following:



II 2 G D

Ex db IIC Gb

Ex eb IIC Gb

Ex tb IIIC Db

IP 66/67

-60°C to 80°C or 100°C – See condition of use for temperature range



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11 Description

Each of the following gland types may be manufactured in brass, stainless steel or aluminium and may be supplied with agreed alternative entry thread forms.

The Type 501/421 Cable Gland is intended for use with an effectively filled and circular unarmoured cable and comprises the following components: -

- a) An entry component in the size range Os to J (M16 to M100)
- b) A compressible sealing ring
- c) A compression spigot
- d) A back nut
- e) An optional earth continuity device for use with metallic sheathed cables

The Type PSG 421 Cable Gland is intended for use with an unfilled circular cable or individual circular cores and comprises the following components: -

- a) An entry component in the size range Os to C (M20 to M32)
- b) A compressible sealing ring
- c) A compression spigot
- d) A back nut

The Type 501/421 'Size 2K' gland comprises the following components only: -

- a) A dedicated entry component (M16)
- b) A compressible sealing ring
- c) A nylon skid washer
- d) A threaded compression spigot

The Type 501/423 Cable Gland is intended for use with an effectively filled and circular unarmoured cable and comprises the following components: -

- a) An entry component, in the size range Os to J (M16 to M100)
- b) Two compressible sealing rings
- c) Two compression spigots
- d) A middle nut
- e) A back nut
- f) An optional earth continuity device for use with metallic sheathed cables

The Type 501/453 RAC Cable Gland is intended for use with an effectively filled and circular armoured or braided cable and comprises the following components: -

- a) An entry component, in the size range Os to F (M16 to M75)
- b) A compressible sealing ring
- c) A combined compression spigot and armour clamping cone
- d) A reversible armour clamping ring
- e) A middle nut
- f) An outer seal assembly (sleeve seal and support ring)
- g) A back nut
- h) An optional earth continuity device for use with metallic inner sheathed cables

The Type PSG 553 RAC Cable Gland is intended for use with a circular armoured or braided cable of unspecified construction and comprises the following components: -

- a) An entry component in the size range A to C (M20 to M32)
- b) A compressible seal punched to accept a number of individual conductors
- c) A combined compression spigot and armour clamping cone



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- d) A reversible armour clamping ring
- e) A middle nut
- f) An outer seal assembly (sleeve seal and support ring)
- g) A back nut

The Type 501/414 Conduit Stopping Gland is intended for use with an effectively filled and circular unarmoured cable enclosed within a conduit and comprises the following components: -

- a) An entry component. in the size range A to F (M20 to M75)
- b) A compressible sealing ring
- c) A compression assembly comprising a compression spigot with a female thread at the rear and integral back nut

The Type SB474 Conduit Stopping Gland is intended for use with a number of circular conductors enclosed within a conduit and comprises the following components: -

- a) An entry component in the size range A to C (M20 to M32)
- b) A compressible seal punched to accept a number of individual conductors
- c) A compression assembly comprising a compression spigot with a female thread at the rear and integral back nut

The Type 501/452 RAC Cable Gland is intended for use with an effectively filled and circular armoured or braided cable and comprises the following components: -

- a) An entry component in the size range Os to F (M16 to M75)
- b) A compressible sealing ring
- c) A combined compression spigot and armour clamping cone
- d) A reversible armour clamping ring
- e) A back nut
- f) An optional earth continuity device for use with metallic inner sheathed cables

Design option

1. The use of a 3M cold Shrink tubing to be fitted to the outer sheath of specific non-circular cables as specified in the drawing 320000, and fitted into 'Os', 'O' and 'A' sizes of the 501/453 cable glands. To ensure that the IP sealing arrangement utilising the cable shrink tube assembly does not affect the assigned IP rating of the glands. The selection of the relevant cable gland to meet the protection concept for the cable and the enclosure it is fitted on to as detailed in EN 60079-1 4:2014 remain un-affected.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	04/06/2019	R11908A/00	The issue of the prime certification.

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

13 Conditions of manufacture

None



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14 Specific Conditions of Use (Special Conditions)

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

- 14.1 Except for PSG glands, all glands are suitable for use within an operating temperature range of -60°C to +100°C. The PSG range of glands are limited to an operating temperature range of -60°C to +80°C.
- 14.2 When the glands are 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. Not applicable when Hawke IP 66/67 seal is used.
- 14.3 Except for the 501/421R glands, all glands for use with conduit, unarmoured or braided cables are only suitable for fixed installations, the cable for which must be effectively clamped to prevent pulling and twisting.
- 14.4 The type 8430-501/453 J M100 gland with components as detailed in design option 5, may only be used for fixed cable installations of group II equipment. The user shall ensure that the cable is effectively clamped to prevent pulling and twisting.
- 14.5 Glands for use with conduit, unarmoured or braided cables are only suitable for fixed installations, the cable for which must be effectively clamped to prevent pulling and twisting (does not apply when fitted with rear clamping device).



Certificate Annex

Certificate Number CML 19ATEX1167X Issue 0
Equipment A Range of Cable Glands with Compression Seals
Manufacturer Hawke International (A Division of Hubbell Limited) (A member of the Hubbell group of Companies)

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

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
501 421	1 to 2	L	04/06/2019	General Arrangement for Unarmoured 501 421 Gland
501 421 Oversized	1 of 1	H	04/06/2019	General Arrangement for Unarmoured 501 421 Oversized Gland
501 423	1 of 1	L	04/06/2019	General Arrangement for 501/423 Gland
501 423 Oversized	1 of 1	H	04/06/2019	General Arrangement for 501/423 Oversized Gland
501 414	1 of 1	L	04/06/2019	General Arrangement for 501/414 Conduit Stopper Box (using Compression Seal)
501 452 RAC X	1 of 1	A	04/06/2019	General Arrangement of Gland Type 501/452/RAC-X
501 453 RAC X	1 of 1	A	04/06/2019	General Arrangement of Gland Type 501/453/RAC-X
PSG 553 RAC X	1 of 1	A	04/06/2019	General Arrangement for PSG 553 Gland
PSG 421	1 of 1	B	04/06/2019	General Arrangement for Unarmoured PSG 421 Gland
SB 474	1 of 1	L	04/06/2019	General Arrangement for SB 474 Gland