



# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312313000377

**Applicant** Peppers Cable Glands Limited  
**Address** Stanhope Road, Camberley, Surrey, GU15 3BT, United Kingdom  
**Manufacturer** Peppers Cable Glands Limited  
**Address** Stanhope Road, Camberley, Surrey, GU15 3BT, United Kingdom  
**Production Factory** Peppers Cable Glands Limited  
**Production Address** Stanhope Road, Camberley, Surrey, GU15 3BT, United Kingdom  
**Product** Stopping Plugs  
**Model/Type** SPA\*\*\*\*\*, SPB\*\*\*\*\*, SPMH\*\*\*\*\*, SPHH\*\*\*\*  
**Ex marking** Ex db I Mb/Ex eb I Mb, Ex db IIC Gb/Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da  
**Reference Standards** GB/T 3836.1-2021, GB/T 3836.2-2021, GB/T 3836.3-2021, GB/T 3836.8-2021, GB/T 3836.31-2021  
**Certification mode** Type Test + Initial Factory Inspection + Post-Certification Surveillance

The product(s) is verified and certified according to CNCA-C23-01: 2019 China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product and CNEX-C2301-2019 Guideline of China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product.

See Annex for the detailed product information (7 pages)

Initial issue date: 2021-05-17

Issued date: 2023-04-28

Valid to: 2026-05-16

The validity of this certificate is maintained through the regular supervision of the issuing authority during the validity period.

Where any discrepancy arises between the English translation and the original Chinese version, the Chinese version shall prevail.

Director:



Nanyang Explosion Protected Electrical Apparatus Research Institute Co.,Ltd.



<http://www.ccc-cnex.com>  
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CN 0001767





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## Product information:

1. This certificate covers the following models:

- SPA\*\*\*\*, SPB\*\*\*\*, SPMH\*\*\*\*, SPHH\*\*\*\*

The products are manufactured with the following external profiles and assigned the following prefix type designations:

SPHH Series	Hexagonal head
SPMH Series	Round dome head, with an external hexagonal socket recess
SPA Series	Round head, with an external face hexagonal socket recess
SPB Series	Round head, with an internal face hexagonal socket recess

\* SPA and SPB are not certified for restricted breathing applications.

The products are manufactured with the following thread form options:

Metric	GB/T197 and GB/T2516 - M12 to M100: M12×1.5, M16×1.5, M20×1.5, M25×1.5, M32×1.5, M40×1.5, M50×1.5, M63×1.5, M75×1.5, M80×2.0, M85×2.0, M90×2.0, M100×2.0
NPT	ANSI/ASME B1.20.1 - ¼" to 4"
PG	DIN 40430 - 7 / 9 / 11 / 13.5 / 16 / 21 / 29 / 36 / 42 / 48

Note: All threads are manufactured in accordance with GB/T3836.2 clauses 5.3 and C.2.2 (as applicable).

Design Options:

O-Ring seals

O-Ring seal materials fitted to male threadforms may be provided in the following materials to suit the application:

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Nitrile
Silicone
Viton
Neoprene
Flurorosilicone
EPDM

**Material of manufacture and marking**

The Stopping Plugs may be manufactured from the following materials:

Brass	CW614N (CuZn 39Pb3) / CZ121 3Pb, Ecobrass C69300/ C87850
Aluminium*	AW 6082 T6 AISI 1MgMn
Stainless Steel	1.4404/ 316L S11, 1.4401/ 316 S31, 1.4301/ 304, 1.4305/ 303

*\*Not suitable for Group I use.*

**Surface coating:**

The products may additionally be metal plated with either: Nickel, Zinc or Anodised (0.008 mm thick max.) to suit the application.

**Product Type Reference:**

The product type reference is derived from the following options:

A-B-C-D-E-F	
A - Product Type	
SPMH	Mushroom head stopping plug

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SPHH	Hexagon head stopping plug	
SPA	Type A stopping plug	
SPB	Type B stopping plug	
B - IP Seal code		
0	No seal fitted	(-100°C to +400°C)
1	Nitrile O-ring	(-30°C to +100°C)
2	Neoprene O-ring	(-35°C to +90°C)
3	Silicone O-ring	(-60°C to +200°C)
4	Fluorosilicone O-ring	(-55°C to +200°C)
5	Viton O-ring	(-20°C to +180°C)
6	EPDM O-ring	(-50°C to +110°C)
C - Material of manufacture		
A	Aluminium	
B	Brass	
S	Stainless Steel	
D - Protection concept code		
E - Ex eb I Mb, Ex eb IIC Gb		
D - Ex db I Mb, Ex db IIC Gb, Ex eb I Mb, Ex eb IIC Gb, Ex ta IIIC Da (SPA/SPB only)		
F - Ex db I Mb, Ex db IIC Gb, Ex eb I Mb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da		
E - Plating		
--	Not plated	

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AN	Anodised
NP	Nickel Plated
ZP	Zinc
F- Thread Size	
Metric	
NPT	
PG	

\* SPA and SPB are not certified for restricted breathing applications.

Degree of protection:

The Stopping Plugs, when installed in accordance with the manufacturer' s instructions, are capable of providing, with an enclosure on which they are fixed, an ingress protection as defined in the table below.

Plug Type	Entry Hole Type	IP6X	IPX6	IPX8*
SPMH parallel thread	Threaded or Clearance	X	X	--
SPHH parallel thread	Threaded or Clearance	X	X	--
SPA parallel thread	Threaded	X	X	--
SPB parallel thread	Threaded	X	X	--
SPMH parallel thread with sealing ring	Threaded or Clearance	X	X	X
SPHH parallel thread with sealing ring	Threaded or Clearance	X	X	X
SPMH tapered thread	Threaded or Clearance	X	X	--
SPHH tapered thread	Threaded or Clearance	X	X	--

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SPA tapered thread	Threaded	X	X	--
SPB tapered thread	Threaded	X	X	--
SPMH tapered thread with sealing ring	Threaded	X	X	--
SPHH tapered thread with sealing ring	Threaded	X	X	--
SPMH tapered thread with sealing ring	Clearance	X	X	X
SPHH tapered thread with sealing ring	Clearance	X	X	X

\* IPX8 100 m 7 days

When installed in unthreaded clearance holes, SPMH and SPHH stopping plugs shall be secured with an appropriate locknut and installed in accordance with the manufacturer's instructions.

Restricted breathing:

- SPMH and SPHH Stopping Plugs with tapered threads provide a restricted breathing seal.
- SPMH and SPHH Stopping Plugs with parallel threads and fitted with appropriate sealing rings provide a restricted breathing seal.
- SPMH and SPHH Stopping Plugs with tapered or parallel threads, installed into unthreaded entry holes and fitted with appropriate sealing rings provide a restricted breathing seal.

The following conditions are required of the manufacturing process for compliance with the certification: Aluminium devices shall not be marked with any information indicating that they are suitable for Group I use.

Ex marking: Ex db I Mb/Ex eb I Mb, Ex db IIC Gb/Ex eb IIC Gb,

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Ex nR IIC Gc (Not SPA and SPB ranges) , Ex ta IIIC Da

- Producers should organize production in accordance with the technical documents approved by the certification body.

2. Specific conditions of safety use:

- For Ex db: only Metric and NPT threads can be used,  
for Ex eb, Ex ta and Ex nR: Metric, NPT and PG threads can be used.
- The stopping plugs shall not be used in conjunction with an adaptor or reducer when installed in a flameproof enclosure.
- The threaded entry component threads without interface O-ring seals that are installed in explosive dust atmospheres, within threaded entries, shall only be fitted into enclosures that have either:
  - Parallel entries that ensure that a minimum of 5 full threads of contact will be maintained.
  - Tapered entries that ensure that a minimum of 3.5 full threads of contact will be maintained.
- When no seal is fitted and the stopping plug is installed in an increased safety (Ex eb) enclosure, the user shall ensure that a minimum degree of protection IP54 is maintained.
- The products are approved for a temperature range at their point of mounting based upon the interface seal:

0	No seal fitted	(-100°C to +400°C)
1	Nitrile O-ring	(-30°C to +100°C)
2	Neoprene O-ring	(-35°C to +90°C)

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3	Silicone O-ring	(-60°C to +200°C)
4	Fluorosilicone O-ring	(-55°C to +200°C)
5	Viton O-ring	(-20°C to +180°C)
6	EPDM O-ring	(-50°C to +110°C)

- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2104C066, CQST2104C066/01
- Factory inspection report: CN2021Q010178

4. Certificate change information:

- 1st change on April 28, 2023: Updated the standards for certification.

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