中国国家强制性产品认证证书

证书编号：2021312313000343

认证委托人名称及地址

Pepperl+Fuchs SE

Lilienthalstrasse 200 68307 Mannheim,Germany

生产者名称及地址

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生产企业名称及地址

Bimed Teknik Aletler Sanayi Ve Ticaret A.S.

Deliklikaya Mah. Yüzbaşı Mehmet Hilmi Cad. No:28 İç Kapı No:1,

Arnavutköy/ Istanbul, Turkey

产品名称和系列、型号、规格

堵头

SP.MD.xx.x.x.x, SP.MA.xx.x.x.x

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

产品标准和技术要求

GB/T 3836.1-2021,GB/T 3836.2-2021,GB/T 3836.3-2021,GB/T 3836.31-2021

上述产品符合《强制性产品认证实施规则 防爆电气》
（CNCA-C23-01：2024）的要求，特发此证。
发证日期：2026年04月21日　有效期至：2031年04月23日

证书信息和有效性可扫描下方二维码或登录发证机构网站查验，
也可在认监委网站（www.cnca.gov.cn）查询。

CNEX

CNAS 中国认可 产品 PRODUCT CNAS C208-P

法定代表人：

南阳防爆电气研究所有限公司

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中国国家强制性产品认证证书

证书编号：2021312313000343

产品相关信息：

1、本证书覆盖产品如下：

-SP.MD.xx.x.x.x，SP.MA.xx.x.x.x

SP.MD.xx.x.x.x，SP.MA.xx.x.x.x 系列堵头适用于安全封堵 Ex db 管道或 Ex db，Ex eb 和 Ex tb 外壳上未使用的内螺纹开孔。

具体规格请见下表：

SP . x . x x . x . x . x

. 1 . 2 3 . 4 . 5 . 6

	堵头
1	型号代码： - MD：外螺纹堵头带外六角螺帽 - MA：外螺纹堵头带内六角
2	堵头螺纹类型： - NPT：NPT - PG：PG（仅用于 Ex eb） - M：公制，螺距1.5mm
3	堵头螺纹尺寸
4	材质： - B：黄铜 - BN：黄铜镀镍 - SS：不锈钢
5	密封材质： - C：氯丁二烯(氯丁橡胶) - S：硅橡胶 - 空白：纤维平垫
6	螺纹长度

堵头的尺寸代码和标准螺纹类型见下表：

NPT		公制		PG	
尺寸	螺纹类型	尺寸	螺纹类型	尺寸	螺纹类型
3/8	⅜”	16	M16x1.5	–	–

本页为证书附页，应与证书主页同时使用。

中国国家强制性产品认证证书

证书编号：2021312313000343

证书附页：第 2 页 共 3 页

1/2	½”	20	M20x1.5	–	–
3/4	¾”	25	M25x1.5	9	9
1	1	32	M32x1.5	11	11
1 -1/4	1 ¼”	40	M40x1.5	13.5	13.5
1-1/2	1 ½	50	M50x1.5	16	16
–	–	60	M60x1.5	–	–
2	2	63	M63x1.5	21	21
–	–	70	M70x1.5	–	–
2 1/2	2 ½”	75	M75x1.5	29	29
–	–	80	M80x1.5	–	–
–	–	85	M85x1.5	–	–
3	3	90	M90x1.5	36	36
3-1/2	3 ½”	100	M100x1.5	42	42
4	4	110	M110x1.5	48	48

SP.MD.xx.x.x.x 和 SP.MA.xx.x.x.x 系列堵头适用于安全封堵 Ex db 管道或 Ex db, Ex eb 和 Ex tb 外壳上未使用的内螺纹开孔。堵头通过外螺纹连接到外壳上。

堵头有以下系列：

SP.MD.Mx.x.x.x　　用于封堵圆柱型内螺纹孔

SP.MA.NPTx.x.x.x　　用于封堵锥型内螺纹孔

SP.MA.Mx.x.x.x　　用于封堵 ISO 公制内螺纹孔

SP.MD.NPTx.x.x.x　　用于封堵 NPT 锥形内螺纹孔和 Ex eb 或 Ex tb 外壳开孔

外壳防护等级（GB/T 4208）：IP66/IP68（50m/30min.）

防爆标志：Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db

– 生产者应按照认证机构批准的技术文件组织生产。

2、安全使用条件：

– 为了保证堵头所安装的电气设备的保护类型，堵头在外壳上的安装应遵照制造商说明书要求。

– 堵头应牢固地安装在电气设备上，防止意外转动和松动。

本页为证书附页，应与证书主页同时使用。

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- 安装堵头时，安装位置的温度应在以下工作温度范围内：
  - 带氯丁二烯 O 型圈的堵头：-40℃～+100℃；
  - 带硅橡胶 O 型圈和平垫的堵头：-60℃～+130℃；
  - 带氯丁二烯或纤维平垫的堵头：-40℃～+80℃；
- 安装转接头应采取适当密封，以确保其符合 GB/T4208 标准防护等级 IP66/68 的要求。应按照制造商说明书要求正确安装垫片（适用于圆柱形螺纹）或在螺纹上使用密封剂（适用于锥形螺纹）。
- SP.MD.NPTx.x.x.x 堵头仅适用于“Ex eb IIC Gb”和“Ex tb IIIC Db”。
- 其他见产品使用说明书。

3、证书变更信息：

- 本证书为期满换发证书，证书首次颁发日期：2021 年 04 月 24 日。

本页为证书附页，应与证书主页同时使用。

南阳防爆电气研究所有限公司

中国认可 产品 PRODUCT CNAS C208-P

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CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.：2021312313000343

Applicant and address

Pepperl+Fuchs SE

Lilienthalstrasse 200, 68307 Mannheim, Germany

Manufacturer and address

Pepperl+Fuchs SE

Lilienthalstrasse 200, 68307 Mannheim, Germany

Factory and address

Bimed Teknik Aletler Sanayi Ve Ticaret A.S.

Deliklikaya Mah. Yüzbaşı Mehmet Hilmi Cad. No:28 Iç Kapı No:1, Arnavutköy/ Istanbul, Turkey

Product, series, specification and model

Stopping plugs

SP.MD.xx.x.x.x, SP.MA.xx.x.x.x

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

Standards

GB/T3836.1-2021, GB/T3836.2-2021, GB/T3836.3-2021, GB/T3836.31-2021

This product(s) complies with the requirements of CNCA-C23-01: 2024 China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product.

Issue date: 2026-04-21 Valid to: 2031-04-23

Detailed information and status of this certificate is available by using the QR code, visiting CNEx's website or CNCA's website: www.cnca.gov.cn.

This translated document has no legal effect and shall not be used alone.

CNEX

CNAS 中国认可 产品 PRODUCT CNAS C208-P

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CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.：2021312313000343

Product information：

1. This certificate covers the following models:

- SP.MD.xx.x.x.x, SP.MA.xx.x.x.x

SP.MD.xx.x.x.x and SP.MA.xx.x.x.x stopping plug series are suitable for closing female hubs or unused openings on Ex db pipes or Ex db, Ex eb and Ex tb enclosures.

See the following table for detailed type designation:

SP . x . x x . x . x . x

. 1 . 2 3 . 4 . 5 . 6

	Male Plugs
1	Code that identifies the type: - MD: male plug with hexagonal head - MA: male plug with Allen key
2	Type of Plug thread: - NPT: NPT - PG: PG (assessed for Ex eb type of protection only) - M: Metric pitch 1.5
3	Size of Plug thread
4	Type of material: - B: brass - BN: nickel-plated brass - SS: stainless steel
5	Seals material: - C: Chloroprene (Neoprene) - S: Silicon - Blank: Fiber flat washer
6	Tread length.

The size codes and standard thread types of male Plugs are listed on the following Table:

CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312313000343

NPT		Metric		PG	
Size	Thread type	Size	Thread type	Size	Thread type
3/8	⅜"	16	M16x1.5	-	-
1/2	½	20	M20x1.5	-	-
3/4	¾	25	M25x1.5	9	9
1	1	32	M32x1.5	11	11
1 -1/4	1 ¼	40	M40x1.5	13.5	13.5
1-1/2	1 ½	50	M50x1.5	16	16
-	-	60	M60x1.5	-	-
2	2	63	M63x1.5	21	21
-	-	70	M70x1.5	-	-
2 1/2	2 ½	75	M75x1.5	29	29
-	-	80	M80x1.5	-	-
-	-	85	M85x1.5	-	-
3	3	90	M90x1.5	36	36
3-1/2	3 ½	100	M100x1.5	42	42
4	4	110	M110x1.5	48	48

The male Plugs series SP.MD.xx.x.x.x and SP.MA.xx.x.x.x are suitable for closing female hubs or unused openings on Ex db pipes or Ex db, Ex eb and Ex tb enclosures. Attachment of the male plugs to an enclosure is by means of the male threaded portion on the male body.

The series of available plugs are:

SP.MD.Mx.x.x.x they are used to close a female hub with cylindrical threads.

SP.MA.NPTx.x.x.x they are used to close a female hub with tapered threads.

SP.MA.M x.x.x.x they are used to close a female hub with ISO Metric threads only.

SP.MD.NPTx.x.x.x they are used to close a female hub with NPT tapered threads and Ex eb or Ex tb execution only.

Degree of protection (GB/T 4208): IP66/IP68 (50 m for 30 min.)

Ex marking: Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db

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

CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312313000343

2. Specific conditions of use:

- The coupling of the plugs with the enclosures shall be made as indicated by the manufacturer in the instruction manual in order to respect the type of protection of the electrical apparatus on which the plugs are mounted.
- The plugs shall be mounted at the electrical apparatus in such a way that accidental rotation and loosening will be prevented.
- The plugs shall be installed in such a way that the temperature at the mounting point will remain within the following service temperature ranges:
  - -40 ℃ to +100℃ for Plugs with Chloroprene O-rings;
  - -60 ℃ to +130℃ for Plugs with Silicon O-rings and flat washers;
  - -40 ℃ to +80℃ for Plugs with Chloroprene or Fiber flat washers;
- The degree of protection IP66/68 according to the GB/T4208 standard will be guaranteed for the plugs if the holes into which plugs are mounted are suitably sealed.To this scope the correct positioning of the gaskets (for cylindrical threads) or the application of sealant on the threads (for tapered threads), shall be done as indicated in the manufacturer instruction.
- The plugs type SP.MD.NPTx.x.x.x are for Ex eb IIC Gb and Ex tb IIIC Db application only.
- See instruction manual for other information.

3. Certificate change information:

- This certificate is issued for renewal upon expiration. The first issuance date of the certificate is: April 24, 2021.