

Safety Instructions

Sealing plugs

ATEX: II 2 G Ex db IIC Gb
II 1 D Ex ta IIIC Da
IECEX: Ex db IIC Gb
Ex ta IIIC Da



Sealing plugs

Table of contents

Supplementary documentation	4
Manufacturer's certificates	4
Manufacturer address	4
Other standards	4
Sealing plugs	4
Safety instructions: General	5
Safety instructions: Special conditions	5
Safety instructions: Installation	6
Safety instructions: Ex d joints	6
Temperature tables	6

Supplementary documentation

Explosion-protection brochure: CP00021Z/11

The Explosion-protection brochure is available:

- In the download area of the Endress+Hauser website:
www.endress.com -> Downloads -> Brochures and Catalogs ->
 Text Search: CP00021Z
- On the CD for devices with CD-based documentation

Manufacturer's certificates**EU type-examination certificate**

Certificate number:

DEKRA 20ATEX0124 X

List of applied standards: See EU Declaration of Conformity.

IEC Declaration of Conformity

Certificate number:

IECEx DEK 20.0076X

Affixing the certificate number certifies conformity with the following standards (depending on the device version):

- IEC 60079-0 : 2017
- IEC 60079-1 : 2014
- IEC 60079-31 : 2013

Manufacturer address

Endress+Hauser SE+Co. KG

Hauptstraße 1

79689 Maulburg, Germany

Other standards

Among other things, the following standards shall be observed in their current version for proper installation:

- IEC/EN 60079-14: "Explosive atmospheres - Part 14: Electrical installations design, selection and erection"
- EN 1127-1: "Explosive atmospheres - Explosion prevention and protection - Part 1: Basic concepts and methodology"

Sealing plugs**Explanation of the labeling on the sealing plug**

Position 1, 2 (Sealing plug)
BE

Position 3, 4 (Thread type)	
01	M20x1.5
02	¾ NPT
03	½ NPT

Position 5, 6 (Material)	
01	Stainless steel
02	Aluminium

Position 7, 8 (Seal) ¹⁾	
01	<ul style="list-style-type: none"> ■ EPDM70C4PX-004S (SHS) ■ EPDM E7502 (Trelleborg)
02	<ul style="list-style-type: none"> ■ EPDM70C4PX-003S (SHS) ■ EPDM 70.10-02 (A+P)
03	VMQ70C20PX-002R (SHS)

1) Only in connection with Thread type M20x1.5

Safety instructions: General

- Staff must meet the following conditions for mounting, electrical installation, commissioning and maintenance of the device:
 - Be suitably qualified for their role and the tasks they perform
 - Be trained in explosion protection
 - Be familiar with national regulations
- Install the device according to the manufacturer's instructions and national regulations.
- Only use the sealing plugs in media to which the wetted materials have sufficient durability.
- Depending on the type of protection used: Observe the safety instructions for installation with explosion protection "Flameproof enclosure Ex d" or "Equipment dust ignition protection by enclosure Ex t".
- Modifications to the device can affect the explosion protection and must be carried out by staff authorized to perform such work by Endress+Hauser.

Safety instructions: Special conditions

Permitted ambient temperature range:
→  6, "Temperature tables".

- Check sealing plug and thread opening for mechanical damage.
- Ensure that the thread type and size corresponds to the connection thread on the nameplate.
- Perform the following to achieve the degree of protection: Mount the sealing plug correctly.
- To maintain the ingress protection ratings, teflon tape or pipe dope is required for conical sealing plug.
- In the case of metric threads, ensure at least eight threads in engagement.
- The blanking element shall not be used with an adapter.
- Recommended torque to connect the cable gland into the housing:
 - Stainless steel: 6.75 Nm
 - Aluminium: 3.75 Nm

Safety instructions:
Installation

Seal unused entry glands with approved sealing plugs that correspond to the type of protection. The plastic transport sealing plug does not meet this requirement and must therefore be replaced during installation.

Safety instructions: Ex d
Ex d joints

- If required or if in doubt: ask manufacturer for specifications.
- Flameproof joints are not intended to be repaired.

Temperature tables

Ex d

Thread type	Permitted ambient temperature range
M20x1.5	-60°C...+100°C

Ex t

Thread type	Sealing material	Permitted ambient temperature range
M20x1.5	EPDM70C4PX-004S EPDM E7502	-40 to +85 °C
	EPDM70C4PX-003S, EPDM 70.10-02	-50 to +85 °C
	VMQ70C20PX-002R	-50 to +130 °C



71574546

www.addresses.endress.com
