

# Operating Instruction

IECEX BVS07.0022X  
BVS 03 ATEX E 298 X  
HSK-V-Ex Products

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ENGLISH

## HUMMEL AG

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This documentation includes the following documents:

- Current Sales Catalog of HUMMEL AG
- Accident Prevention Regulations and related installation instructions /  
Electrotechnical Regulations (responsibility lies with installer)




<b>Manufacturer</b>	HUMMEL AG Lise-Meitner-Straße 2 79211 Denzlingen / Germany
<b>Notified body</b>	DEKRA Testing and Certification GmbH Dinnendahlstraße 9 D-44809 Bochum
<b>ID number</b>	0158
<b>IECEx CoC</b>	IECEx BVS07.0022X
<b>Type-examination certificate</b>	BVS 03 ATEX E 298X
<b>Scope</b>	HSK-V-Ex mushroom-type plugs for exclusive use in conjunction with HSK-K-Ex, HSK-M-Ex, HSK-M-EMV-Ex, HSK-K-Ex-Active, HSK-M-EMV-D-Ex, HSK-INOX-Ex and HSK-INOX-EMV-Ex cable glands resp. MZ- and PVDF versions
<b>Reference standards</b>	<ul style="list-style-type: none"><li>• DIN EN IEC 60079-0:2019</li><li>• DIN EN IEC 60079-7 / A1:2018</li><li>• DIN EN 60079-31:2014</li><li>• DIN EN 60529:2014</li></ul>
<b>Temperature range</b>	-40 °C – 95 °C (-40 °F – 203 °F)
<b>Type / degree of protection</b>	IP 68, up to 10 bar

**Special conditions**

None

**Marking**

The products and /or their smallest packaging units are marked as specified below. Products marked otherwise may not be used under this type-examination certificate. Non-compliance shall void the manufacturer's liability.

- Manufacturer's name or trademark
- BVS 03 ATEX E 298X
-  II 2G Ex e IIC Gb
-  II 1D Ex ta IIIC Da
- IECEx BVS07.0022X
-  -mark incl. ID number of notified body only on packaging
- $-40^{\circ}\text{C} \leq T_a \leq +95^{\circ}\text{C}$  ( $-40^{\circ}\text{F} \leq T_a \leq +203^{\circ}\text{F}$ ) (only on packaging)

**Safety**

The products may only be used within the specified temperature range. The manufacturer shall not be liable for damage caused by use in non-specified fields of application. Only qualified personnel may carry out work in hazardous areas. All relevant regulations must be observed in this case!

**Resistance / Endurance**

The products consist of:

Plug, mushroom-shaped: TPE

The materials used are suitable for "industrial atmospheres", meaning that they are resistant or highly resistant to mineral oils within the specified temperature range. For all other applications, consult the manufacturer!

## Maintenance

At the specified maintenance intervals it is recommended to check the articles and tighten as necessary.

## Mounting / Installation

Be sure to check the products for proper working order (integrity) before mounting them. Only qualified personnel (electricians) may carry out installations, using suitable tools. The products must be used as delivered, no modifications permitted. Both the gland screw and the cap nut must be properly tightened. Note that undertightening or overtightening the connecting thread or the cap nut may adversely affect the type of protection, the tightness and / or the strain relief.

## Prior to use

Before putting the installation into service, check it for compliance with these installation instructions as well as local and international standards (incl. application-specific ones).

## Assignment

Number	Matching connecting thread size	Clamping range
1 / MZ 11	PG 7, M 12 x 1,5	3 – 6,5 mm
2 / MZ 12	PG 9, M 16 x 1,5, NPT 3/8"	4 – 8 mm
3 / MZ 13	PG 11, M 16 x 1,5 / PG 11	5 – 10 mm
4 / MZ 14	PG 13,5, M 20 x 1,5, NPT 1/2"	6 – 12 mm
5 / MZ 15	PG 16, M 20 x 1,5 / PG 16, NPT 1/2" / PG 16	10 – 14 mm
6 / MZ 16	PG 21, M 25 x 1,5, NPT 3/4"	13 – 18 mm
7 / MZ 17	PG 29, M 32 x 1,5, NPT 1", NPT 1 1/4"	18 – 25 mm
8 / MZ 18	PG 36, M 40 x 1,5, NPT 1 1/2"	22 – 32 mm
9 / MZ 19	PG 42, M 50 x 1,5	32 – 38 mm
10 / MZ 20	PG 48, M 63 x 1,5	37 – 44 mm
	„PG“ = conduit thread	

Should you have additional questions, please contact the manufacturer.

**EU Declaration of Conformity**

issued under the sole responsibility of the manufacturer  
Complying the EU Directive 2014/34/EU, Attachment X

<b>Types</b>	Plugs HSK-V-Ex, HSK-V-Ex long
<b>Certified in Type Examination certificates</b>	BVS 03 ATEX E 298X
<b>Issued by notified body</b>	DEKRA Testing and Certification GmbH Dinnendahlstraße 9 44809 Bochum
<b>ID number</b>	0158
<b>Following standards are applied</b>	
<b>DIN EN IEC 60079-0 : 2019</b>	Electrical apparatus for potentially explosive atmospheres – General requirements
<b>DIN EN IEC 60079-7 / A1:2018</b>	Electrical apparatus for potentially explosive atmospheres – Increased safety „e“
<b>DIN EN 60079-31 : 2014</b>	Electrical apparatus for use in the presence of combustible dust, Electrical apparatus protected by enclosures – Construction and testing
<b>DIN EN 60529 : 2014</b>	Degrees of protection provided by enclosures (IP-Code)

We declare that the above articles were developed and manufactured in the responsibility of HUMMEL AG.



Michael Nörr  
HUMMEL AG / CEO