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HUMMEL AG

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This documentation includes the following documents:

 Accident Prevention Regulations and related installation instructions / Electrotechnical Regulations (responsibility lies with installer)

Manufacturer HUMMFL AG

Lise-Meitner-Straße 2

79211 Denzlingen / Germany

Notified body DEKRA Testing and Certification GmbH

Dinnendahlstraße 9 D-44809 Bochum

ID number 0158

IECEx CoC IECEx BVS 15.0040X

Type Examination Certificate BVS 15 ATEX E051 X

Scope Cable glands: KV-Ms-Ex, HSK-M-Ex, HSK-INOX-Ex

Reference standards • DIN EN IEC 60079-0:2019

DIN EN IEC 60079-7 / A1:2018
DIN EN 60079-31:2014

• DIN EN 60529:2014

Temperature range KV-Ms-Ex : -50 °C - 130 °C (-58 °F - 266 °F)

HSK-M-Ex, HSK-INOX-Ex : -60°C - 95°C (-76°F - 203°F)

Type of protection KV-Ms-Ex: IP 68, up to 5 bar

HSK-M-Ex, HSK-INOX-Ex: IP 68, up to 10 bar



Technical Data

Series	Connection Thread Metric	Clamping Range [mm]	Torque (Nm) Dome Nut / Body / Lock Nut
AB61-M020ISEH	M20x1,5	5-12	8
16402050EH	M20x1,5	5-12	8
AB66-M012SE	M12x1,5	6-6,8	2,5
AB66-M010SE	M10x1	6-6,8	2,5

The tightening torque specified in the table must be applied to the cable gland using a torque wrench.

Installation conditions - general

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. To prevent accidental loosening, use a lock nut or suitable safeguard adhesive. As the tightening torques depend on the cables used, it is the user's responsibility to determine the appropriate torque in each case. 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.

Surface roughness: max. Rz 16

Perpendicularity: The sealing surface of the cable gland must always be mounted at right

angle to the housing surface.

Earthtag: The installation of earthtags is only permitted on the sealing surface

between the housing and the cable gland. The user has to ensure the

tightness with regard to IP and explosion protection.

Housing material: If an EMC connection of the device / cable gland is provided, the housing

material must consist of conductive material. If this conductive material is coated with a non-conductive material, a special EMC lock nut must be

used. There are no further restrictions of the housing material.

The sealing at the cable is done by the sealing insert. Sealing at the

The sealing at the cable is done by the sealing miser. Sealing at the

housing is done by an O-ring.

Sealing method:

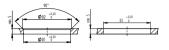
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Installation conditions - through hole

The cable gland must be fixed with a lock nut

Installation conditions - thread

For all thread sizes the thread tolerance is 6a





Thread	D1	D2	S	Thread	D1	D2	S	Thread	D1	D2	S
M6x1	6	7,3	2,5	Pg7	12,7	13,2	2,5	NPT 3/8"	17,3	18	4
M8x1,25	8	9	2,5	Pg9	15,4	15,9	2,5	NPT 1/2"	21,1	22	- 5
M10x1,5	10	10,4	2,5	Pg11	18,8	19,3	2,5	NPT 3/4"	26,7	27,5	4
M12x1,5	12	13	2,5	Pg13,5	20,7	21,2	2,5	NPT 1"	34,3	35	4
M16x1,5	16	17	2,5	Pg16	22,8	23,3	2,5	NPT 1 1/4"	41,9	42,5	-5
M20x1,5	20	21	2,5	Pg21	28,6	29,1	3	NPT 1 1/2"	48,8	49,5	-5
M25x1,5	25	26	2,5	Pg29	37,4	38,4	3	NPT 2"	61,1	62,0	-5
M32x1,5	32	33	2,5	Pg36	47,5	48,5	3	NPT 2 1/2"	74,0	76,5	- 6
M40x1,5	40	41	2,5	Pg42	54,5	55,5	3	NPT 3"	89,8	92,5	6
M50x1,5	50	51	2,5	Pg48	59,8	60,8	3				
M63x1,5	63	64	2,5							D2 d 11.1	
M75x1,5	75	76	2,5							D1: through hole	

D1: through hole D2: countersink

If the cable gland is used in a way that deviates from the specified installation conditions, the user must ensure the safety of the system.

Special conditions

100

M80x2 M90x2 M100x2

These cable alands are suitable only for use with permanently installed cables. The installer is responsible for providing appropriate strain relief. By using the glands in Zone 20 / Da and Zone 21 / Db the user should fulfill the requirements of EN/IEC 60079-31 and EN/IEC 60079-14.

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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 and address (only on packaging)
- Trademark
- \bullet -50 °C \leq +130 °C / -60 °C +95 °C
- Type and connecting thread size (only on packaging)
- BVS 15 ATEX E051 X
- IECEx BVS 15.0040X
- 🖾 II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da (only on packaging)
- C € -mark incl. ID number of notified body (only on packaging)
- Clamping range (only on packaging)
- IP 68 5bar / IP 68 10 bar (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:

Body of gland: nickel plated brass; stainless steel

Gasket and O-rina: EPDM: NBR: HNBR

Insert: PA6

The materials used are suitable for "industrial atmospheres", 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.

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).

Should you have additional questions, please contact the manufacturer. Please note that unauthorized or improper application or non-compliance with these installation instructions shall void the manufacturer's liability.



EU Declaration of Conformity

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

Types Cable Glands KV-Ms-Ex, HSK-M-Ex, HSK-INOX-Ex

Certified in Type

Examination certificatesBVS 15 ATEX E 051 X

Issued by notified bodyDEKRA Testing and Certification GmbH

Dinnendahlstraße 9 44809 Bochum

ID number 0158

Following standards are applied

DIN EN IEC 60079-0: 2019 Electrical apparatus for potentially explosive atmospheres

- General requirements

DIN EN IEC 60079-7 / A1:2018 Electrical apparatus for potentially explosive atmospheres

— Increased safety "e"

DIN EN 60079-31:2014 Electrical apparatus for use in the presence of combustible dust,

Electrical apparatus protected by enclosures — Construction and testing

DIN EN 60529: 2014 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

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