



The novel, compact PFLITSCH ATEX certified cable gland LevelEx® – greater safety in Ex-atmospheres

The LevelEx® from PFLITSCH is a new range of ATEX certified cable glands. It impresses with a compact design, captive components and a wide range of applications. Conceived to meet the high demands of potentially explosive atmospheres, it raises the issue of safety to the next "level".

With the new LevelEx® cable gland PFLITSCH has developed a modern ATEX certified cable gland in the "Ex-d" and "Ex-e" classes. It is of compact and slimline design which facilitates space-saving installation. The LevelEx® comprises just four components that can be simply and securely assembled. The sealing elements are of captive design and cannot be lost during assembly.

The sealing elements are made of high quality silicone material of reddish brown colour and a transparent pressure sleeve. This compresses the seal over an extensive area when the pressure screw is turned, thereby creating the seal and relieving the strain on the cable. This special

cascading sealing principle of the LevelEx® also prevents the cable from twisting during assembly. The LevelEx® achieves the type of protection IP 66 or rather IP 68 and thus corresponds to the types of protection Flameproof enclosure "Ex-d" and Increased Safety "Ex-e".

Large spanner flats allow easy assembly using spanners. A defined deformation of the o-ring – placed in a special groove – absorbs when tightening the double nipple for a secure seal between the cable gland and housing.

Many sizes – broad temperature range – international approvals

LevelEx® cable glands are available in sizes ranging from M16 to M63 and with NPT threads from 3/8" to 2 1/2". The cable gland bodies are made of galvanised brass and stainless steel. Cable diameters from 7 mm to 56 mm are securely sealed thanks to the large sealing range. With their broad temperature range of -60 °C to +130 °C and ATEX and IECEx certifications, they can also be used under ex-treme environmental conditions.

During pressure resistance testing the LevelEx® fulfilled the minimum requirement of 30 bar/10 sec. With a reference pressure of 20 bar and a temperature of -60 °C the new PFLITSCH ATEX certified cable gland can also be used for any application. At market launch the LevelEx® is available for unarmoured cables. A version for armoured cables and a barrier cable gland version are in preparation.

Safely contains explosions within the enclosure

For the "Flameproof enclosure" ignition protection class – or "Ex-d" for short – the requirement is that a potential explosion inside an enclosure is contained within it, so that further damage cannot occur outside. This is ensured by designing the enclosure to be explosion-proof in combination with spark-proof gaps in all of the apertures in the enclosure. Such a design presents a particular challenge for cable entries.

The fact that the components used meet the requirements of IEC and EN standards 60079-0 and 600979-1 was confirmed by PFLITSCH with the IECEx certificate.

Further information can be found on our website at www.LevelEx.de.



LevelEx® in the nickel-plated brass version



LevelEx® cable gland with cascading sealing principle



LevelEx® with metric and NPT connecting threads

PFLITSCH GmbH & Co. KG

Ernst-Pflitsch-Straße 1 Nord 1 · D-42499 Hückeswagen
 Phone: +49 2192 911-0 · Fax: +49 2192 911-220
 Email: info@pflitsch.de · Web: www.pflitsch.de

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