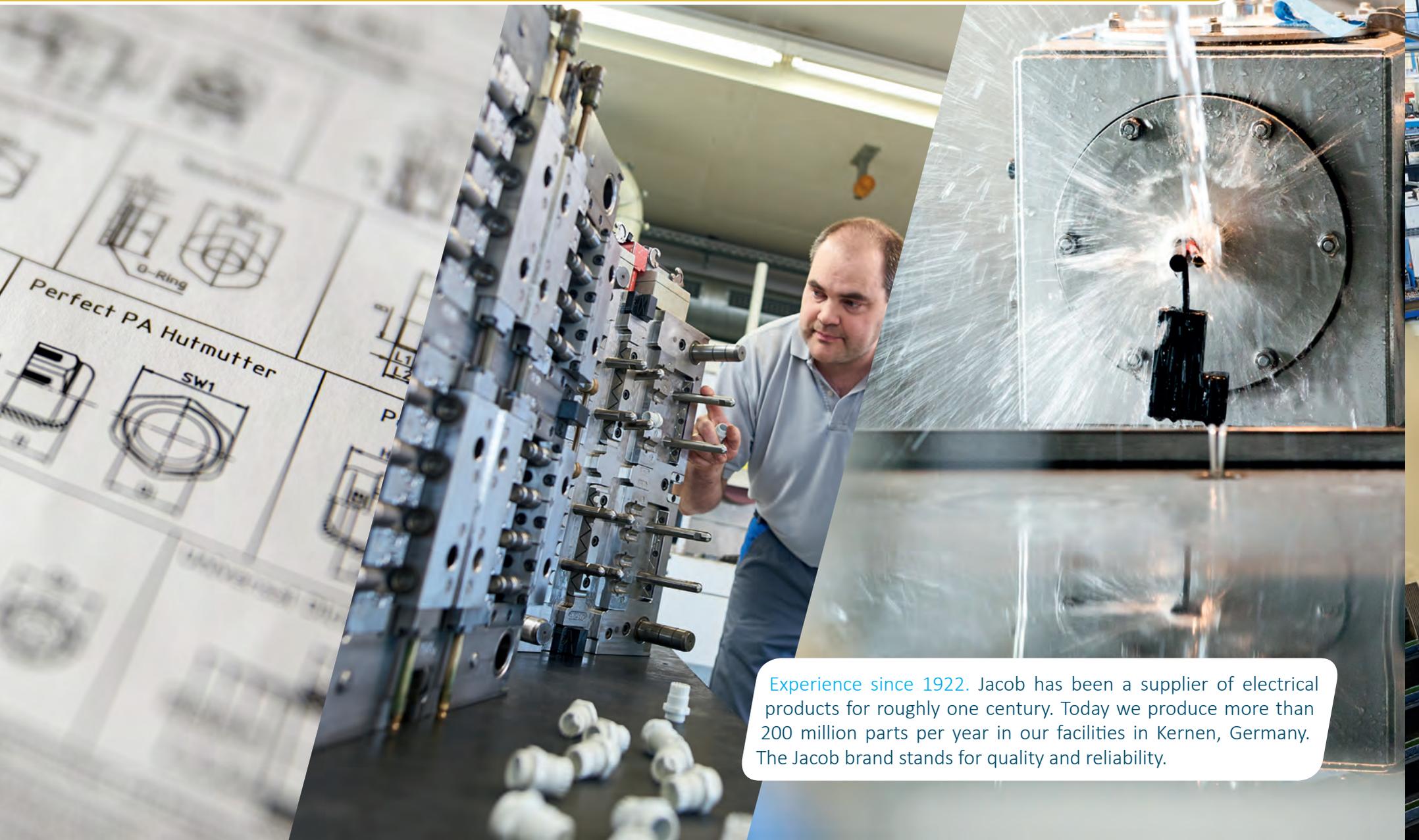




CABLE ENTRY SYSTEMS FOR ALL INDUSTRIES

R&D, TOOLMAKING, LABORATORY, PRODUCTION, LOGISTICS...



Experience since 1922. Jacob has been a supplier of electrical products for roughly one century. Today we produce more than 200 million parts per year in our facilities in Kernen, Germany. The Jacob brand stands for quality and reliability.

Jacob is the specialist for cable entry systems. With over 6,000 items in our program we can offer a solution to suit almost any requirement. With fully automated logistics we can supply quickly and efficiently.

...EVERYTHING UNDER ONE ROOF

PERFECT CABLE GLANDS



Tested according to
UL 514B
UL file no E140310

Broad range of
accessories

Available in high quality
polyamide PA6 V-2 and
UL94 V-0

Temperature range static:
-40°C / +100°C
(-40°F / +212°F)

With NPT, Pg and metric thread

Wide sealing and
clamping range



Easy-to-install

Integrated
anchorage

Protection grade
IP68 - 5 bar

Available also with spiral top
for movable flexible cables

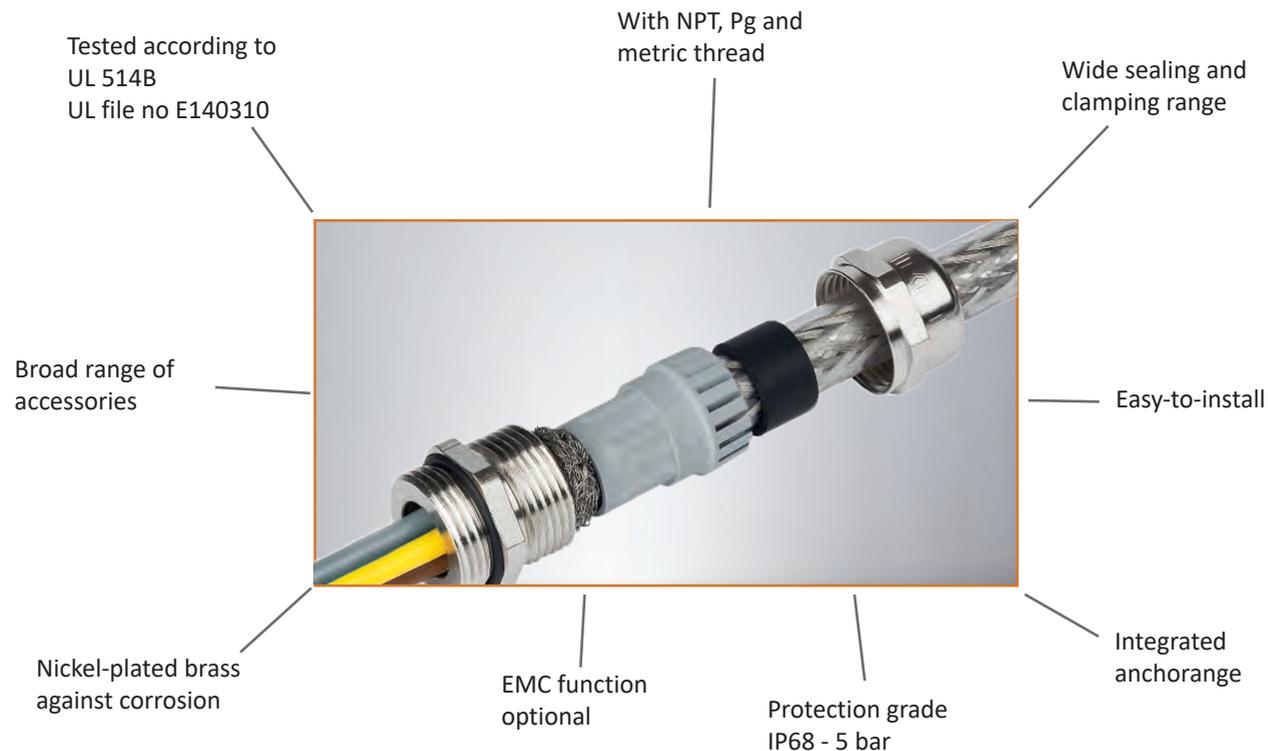


Plastics and polymer materials are used in almost every area of life and industry. Our cable glands and accessories are manufactured from a high-quality polyamide. In our design process we simulate the material flow within the mold in order to get the best results out of the material. The lamellar clamping technology for example uses the flexibility of the material without cracking it.

Every new product is tested thoroughly in our in-house laboratory. IP protection against water and dust is being tested after aging the samples in the climatic chamber. Stress tests are carried out to test the low temperature performance of the design and material. Even though our parts are small they sometimes bear a huge responsibility.

AND ACCESSORIES

Jacob
Connected by ambition



Brass has excellent mechanical characteristic values. The surface of our cable glands and accessories made of brass is coated by galvanisation. The electro nickel plating lends the brass a hard surface and protects it from corrosion, wear and possible stress cracking.

Metal cable glands play an important part in safeguarding EMC requirements where cables and leads enter into a shielding system. They have to ensure a permanent connection with very low ohmic or inductive resistance between the cable shield and the housing potential. Our PERFECT EMC cable glands type 50.6xx M/EMV have been tested and certified by the VDE according to the VG standard 95373 Part 40 for transfer impedance and shield attenuation.



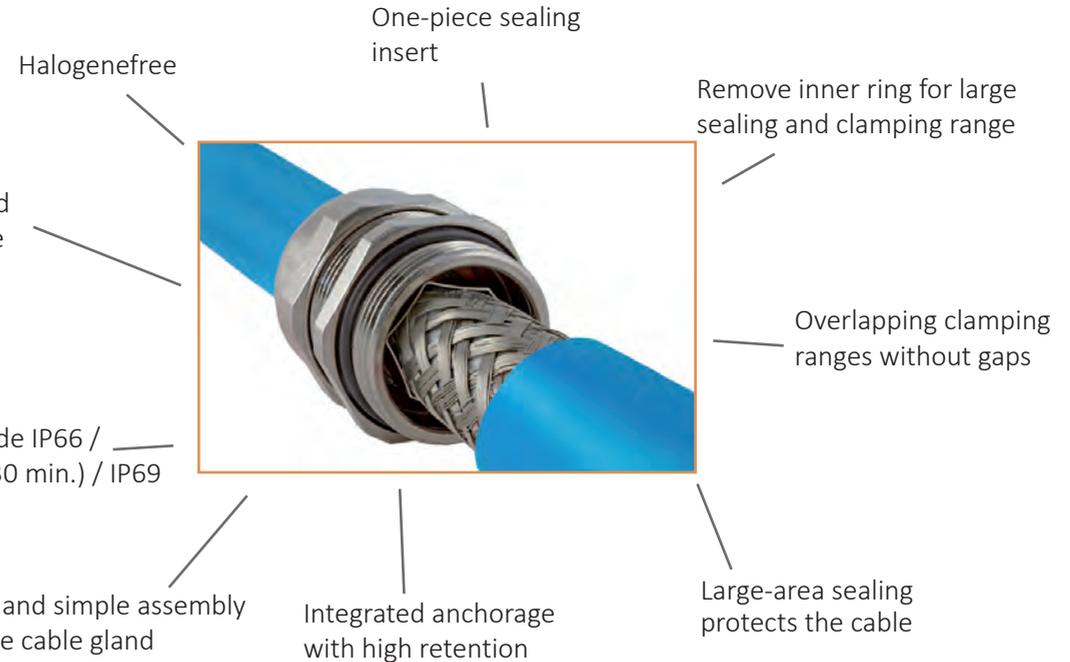
WADI CABLE GLANDS



High UV, ozone and weather resistance

Protection grade IP66 / IP68- 10 bar (30 min.) / IP69

Easy and simple assembly of the cable gland



Our family includes WADI one, WADI rail and WADI heat - three different sealing inserts with special characteristics cover a wide range of functionality. WADI is an abbreviation for the German word „wasserdicht“ which means watertight. WADI one and WADI rail stand up to a water pressure of 10 bar and are suitable for heavy weather conditions on outdoor applications.

WADI heat can stand up to +200°C and is resistant to most chemicals. The material of the WADI rail insert is approved according to the railway standard EN 45545-2 HL3 and is a low-smoke-zero-halogene type suitable for public buildings and infrastructure. One accessory to round everything up – an EMC clamp can be installed into the cable gland for areas where you need an extra protection against electromagnetic interferences.

VENTING ELEMENTS JDAE

Available in sizes M12, M20 and M40, polyamide and stainless steel

Typical air flow:
> 400 ml/min/ cm² at $\Delta p = 0,07$ bar

Protection for hermetically sealed enclosures

Protection against condensation water from alternating temperature and pressure

Quick and easy to install

Hydrophobic and oleophobic PES-membrane

Water entry pressure $\geq 0,83$ bar (dynamic WEP, 30 seconds)

Continuous ventilation and adaption of the inner pressure

Protection grade IP66 / IP68- 0,6bar (60min)/ IP69



Waterproof enclosures with high protection grades IP67 or IP68 for outdoor use are not automatically sealed against moisture and humid air. To avoid negative pressure, high humidity and condensation inside the enclosure a continuous ventilation and pressure equilibrium is necessary. This protectional function can be achieved by using a Jacob venting element JDAE, quick and easy to install.

The body of the venting element is made from a flameproof polyamide PA6 that fulfills UL94 V-0 or stainless steel 1.4305. Inside is a high-quality, breathable and watertight PES-membrane, which provides a continuous ventilation and pressure exchange between the enclosure and its surroundings and ensures protection against moisture.

CABLE ENTRY PLATE KADP



Temperature range:
-30°C / +100°C
(-22°F / +212°F)

Tested according
to UL 514B

Protection grade
IP66

Ideal for standard cut outs 112 x 36 mm
(4.409 x 1.417 inch)

Simple insertion of the
plate with locking hooks

Suitable for wall thickness
from 1.5 to 2.0 mm
(0.059 to 0.079 inch)

Optional fixing with
M5 screws

The „pushout“ membrane
re-seals after removing
the cable

High packing density

Time-saving cable
installation

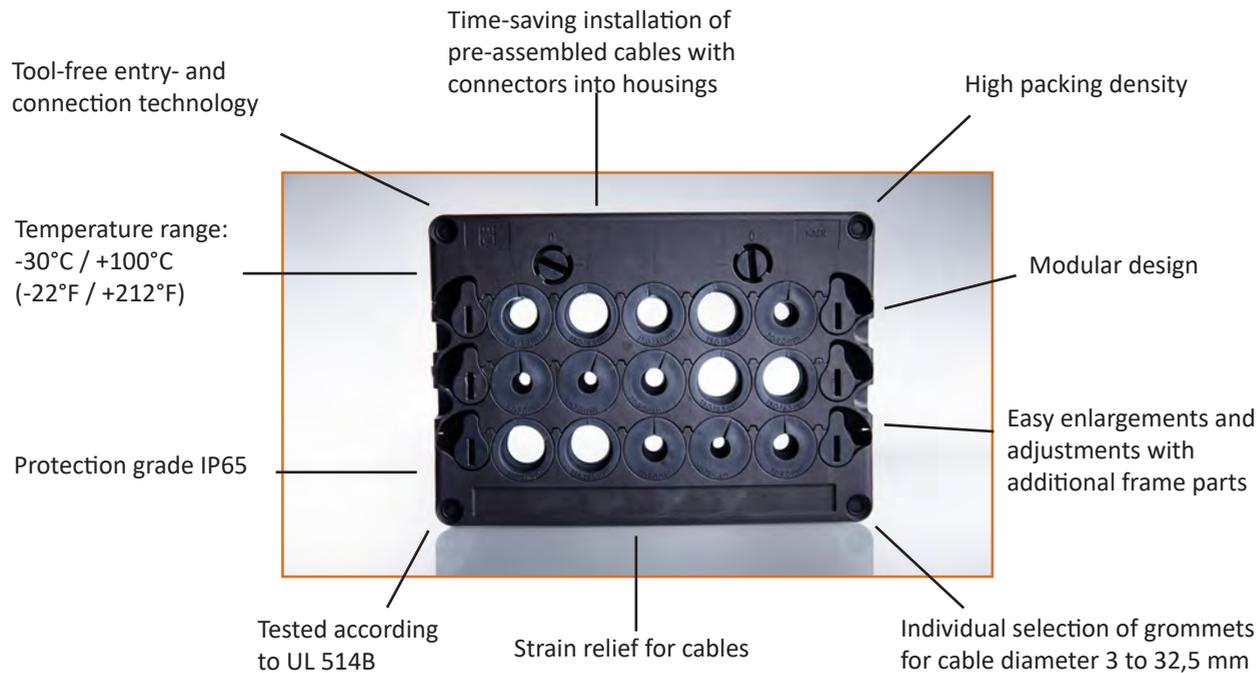


KADP- cable entry fast and easy. The Cable Entry Plate KADP is used to insert and seal cables in enclosures, machines and control cabinets and provides a high flexibility for various applications. The plate is perfect where space is limited because up to 29 cables can be inserted into the plate. Due to ideal placement of the cable entries a high packing density is being achieved. The installation of KADP into the enclosure is completed with a single click. The cables are simply pushed through the membranes and the job is done – effortless and timesaving.

To watch this product video on YouTube look for [JACOB KADP](#) or visit our website www.jacob-gmbh.us

CABLE ENTRY SYSTEM KADL

Jacob
Connected by ambition



Tight but flexible. The modular Cable Entry System KADL. Whenever pre-assembled cables need to be led into a housing, the JACOB KADL is the perfect solution. The KADL frame is installed with one click – easy and timesaving. In addition, KADL can be enlarged and adjusted. The modular structure allows a step-by-step installation of 3 to 25 cables into a housing wall and ensures utmost flexibility. With 18 different grommets, which provide an extra strain relief, a clamping range from 3 to 32,5mm cable diameter can be covered.

For more information watch our product video on YouTube: [JACOB KADL](#)



SEALING GROMMET KLIKSEAL

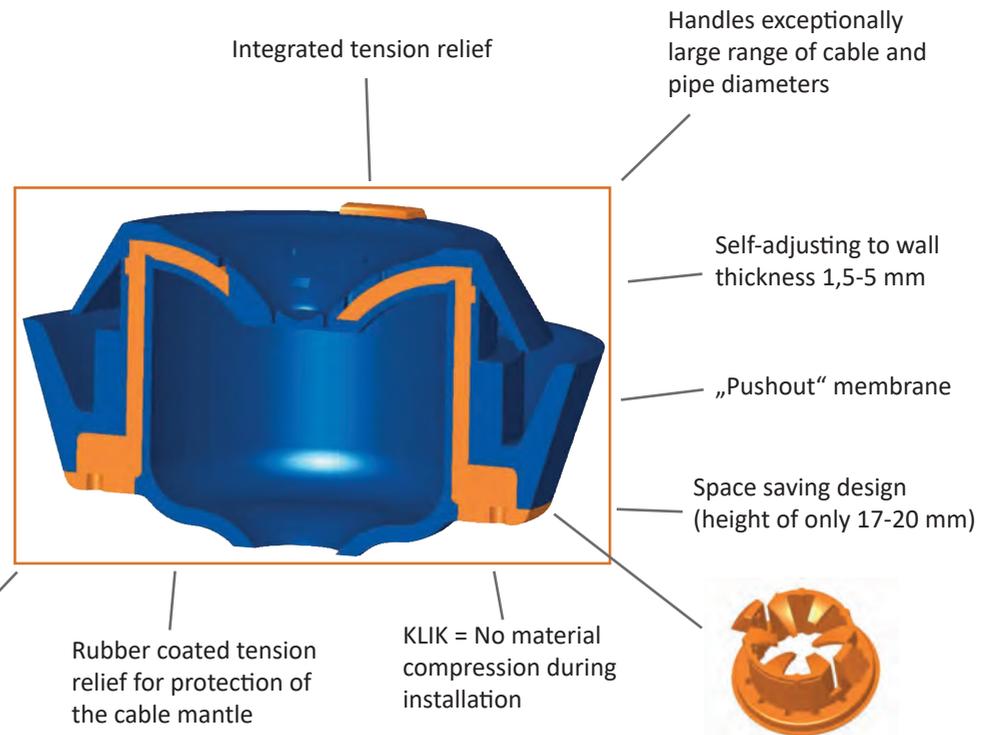
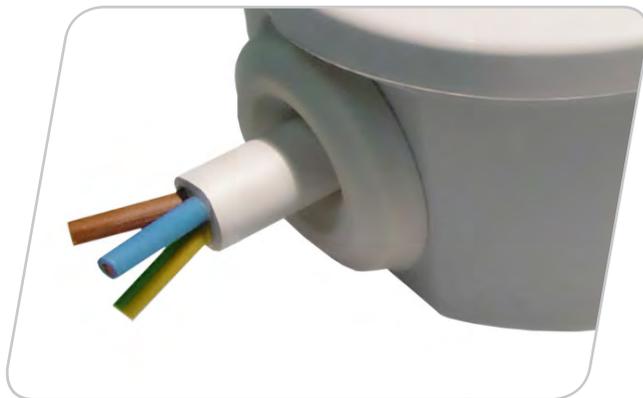
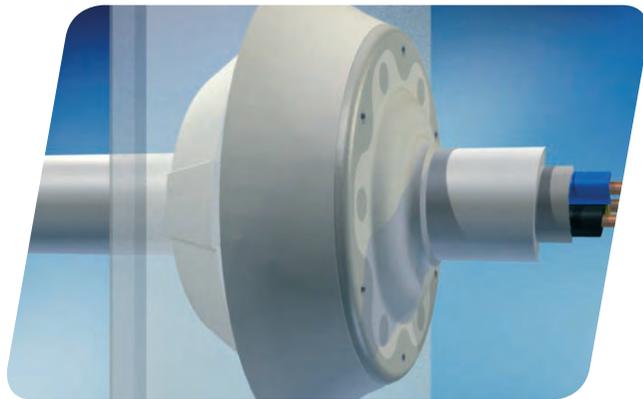


Installation time saving of up to 90%

Ergonomic installation

Fixed in both directions when mounted

Waterproof design IP67

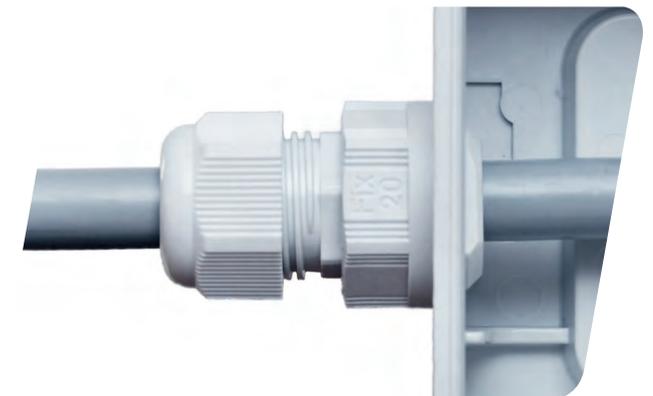
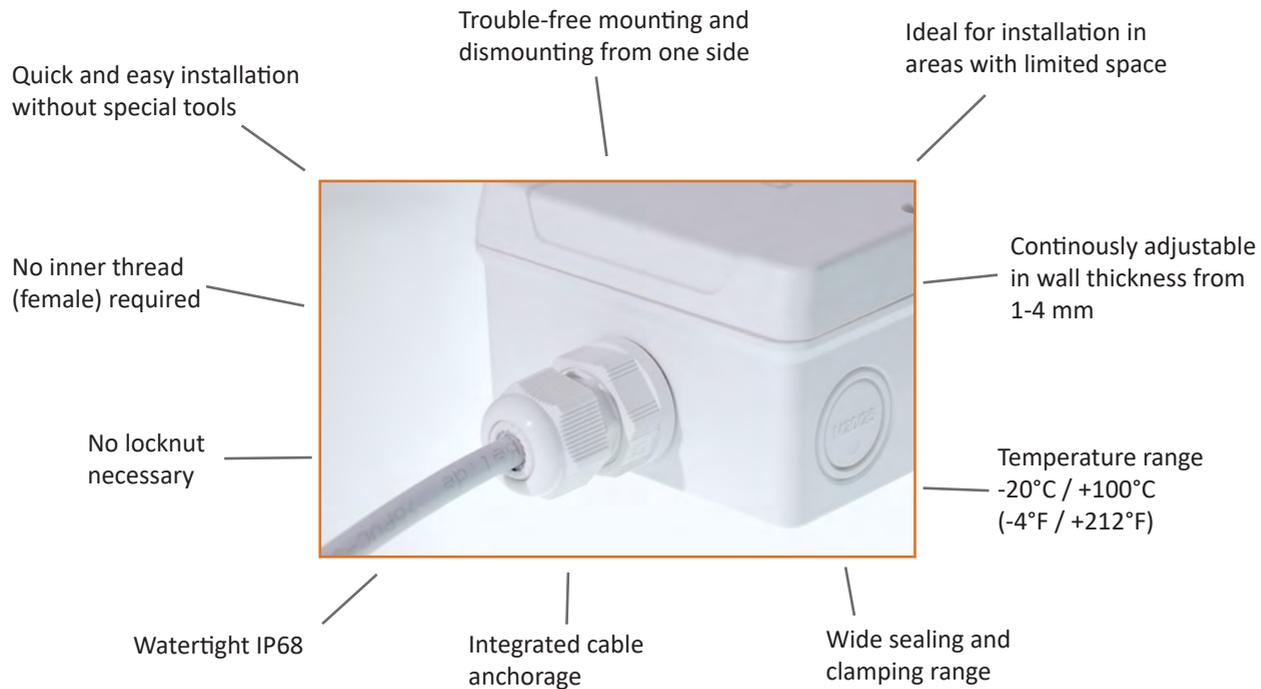


KLIKSEAL® is a two-component grommet with cable anchorage. For the first time ever, you do not need to rely on material compression to make the grommet stay in place. With its patented "Klik-Fix" construction, requiring no tools, it simply clicks into place. KLIKSEAL® has a "pop-out" membrane that is a permanent seal until penetrated by a cable, making it ideal for manufacturers to install before shipping, avoiding problems with dust and humidity affecting the product.

Like other grommets it is designed so that there is no need to access the opposite side when installing. To avoid potential damages to the cable mantle, the arms providing tension relief, are covered with soft TPE.

PERFECT FIX CABLE GLAND

Jacob
Connected by ambition



The PERFECT Fix cable gland is the perfect cable entry solution for hard to reach places. The installation is from one side only and can be done without additional tools. No inner thread or locknut is required for the installation. By adjusting the hexagonal nut on the bottom side of the cable gland, PERFECT Fix can be used in enclosures with wall thickness from 1 mm to 4 mm.

The product is available in four sizes for clearance holes from 16 to 32 mm. These four sizes cover a total clamping range from 3 to 21 mm cable diameter.



PERFECT EX-CABLE GLANDS



Tested according to
ATEX and IECEx

Temperature range
-40 °C / +85 °C
(-40°F / +185°F)

Nickel-plated brass
against corrosion

For fixed cables

Large sealing and
clamping range

Gentle clamping

Conical anti-twist
protection

Easy-to-install



EMC function
optional

Protection grade IP66 /
IP68 - 10 bar (30 min.)



PERFECT plus Ex cable glands and accessories offer a solution for various applications in hazardous areas- for maximum safety.

An optimized clamping concept provides a large sealing and clamping range. The conical anti-twist protection prevents the distortion of the cable when installed. A patented double sealing concept inside the cable gland ensures permanent safety.

For detailed information on groups (zones), marking and certification please download the product brochure „Solutions for hazardous areas“ from www.jacob-gmbh.de/en.



EXPLOSIVE PARTNERSHIP

Jacob
Connected by ambition

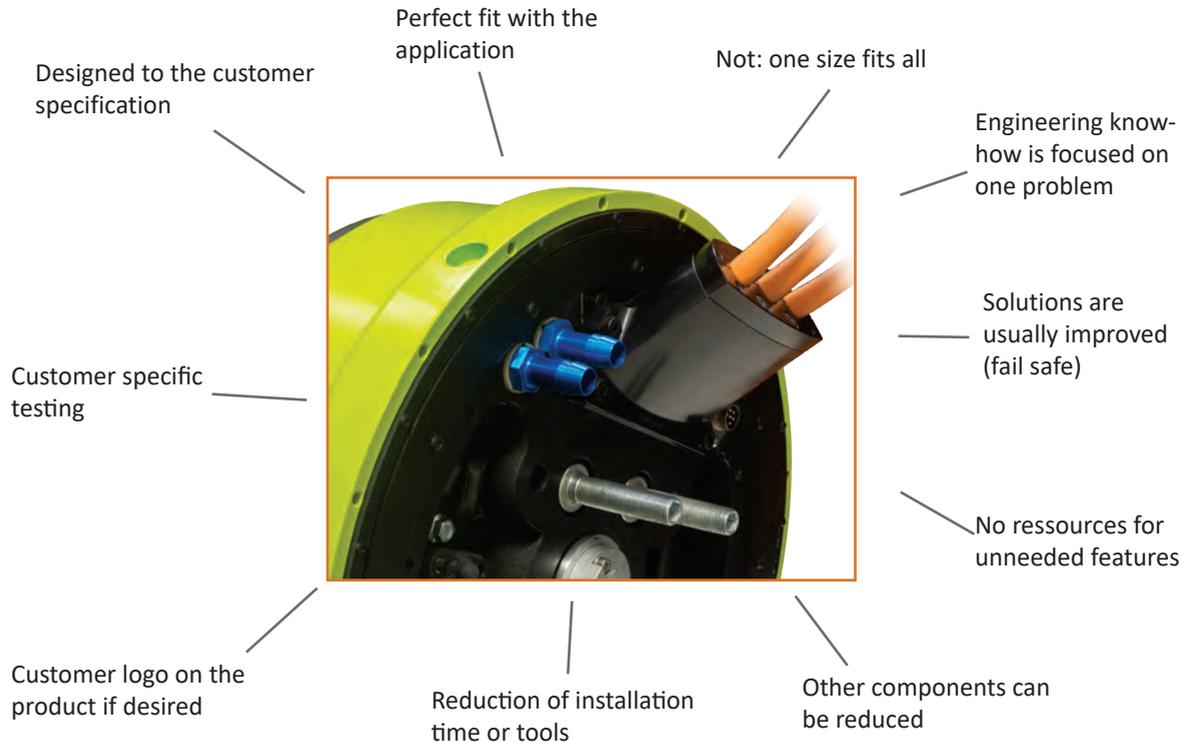
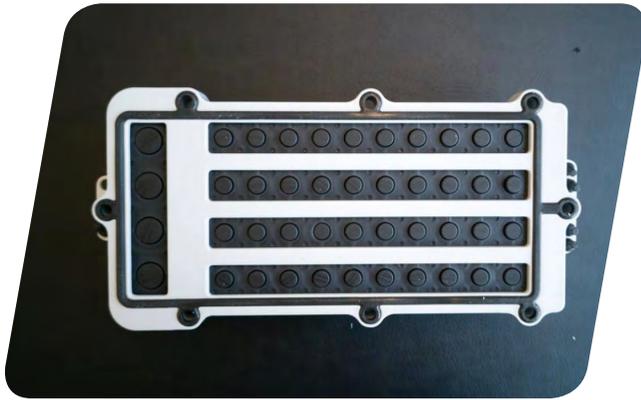


Together with our partner [HAWKE International](#) we set international standards in the explosion protection sector. Jacob has been the exclusive distribution partner of HAWKE in German speaking countries for over 20 years and is a leading distributor for EX products. We offer a comprehensive range for maximum safety in areas at risk of explosion with ATEX/IECEX, Ex d and Ex e cable glands for armored and non-armored cable, adapters, reducers and accessories in various thread designs, Ex e housings and Ex d / Ex e connectors.

HAWKE products are being found worldwide in oil, gas and petrochemical industry projects. The majority of the products carry certification according to ATEX, IECEX, GOST (EAC), CSA, UL and INMETRO.



CUSTOMIZATION



At JACOB we have a dedicated team that deals with special requirements from our customers, going far beyond our standard processes. Many times companies look for a standard product, thinking it to be more economic but do not take the hidden costs in the processes into account. In a number of projects we were able to cut down our customers' assembly time, reduce the number of components or make their application fail safe with a customized solution.

One advantage at Jacob is that we have all disciplines under one roof - our laboratory, the R&D and mold making department, tool shop and production. And actually we are always looking forward to challenging requests from the market.

Our favorite reading material: your catalog of requirements.

- Fixing of cables or lines
- Gentle sealing on the cable
- Large sealing and clamping range
- Integrated strain relief
- Protection grades IP66 / IP67 / IP68 / IP69
- High mechanical strength
- Ventilation
- Excellent weather, temperature, UV and ozone resistance
- Flame-retardant and self-extinguishing materials
- Resistant to chemicals
- Suitable for use in hazardous environments
- EMC
- Suitable for installations where space is limited
- Time-saving installation
- Tool-free installation
- Certified in acc. with VDE, UL, IECEx
- Other:



Jacob

Connected by ambition

YOUR SPECIALIST IN CABLE ENTRY SYSTEMS:

JACOB GMBH ELEKTROTECHNISCHE FABRIK

Gottlieb-Daimler-Str. 11

71394 Kernen

GERMANY

+49 7151 4011-0

www.jacob-gmbh.de

THE SPECIALIST IN NORTH AMERICA:

JACOB GMBH

10130 Mallard Creek Rd. Suite 300

Charlotte, NC 28262

USA

+1 704-593-8207

www.jacob-gmbh.us