



#### ■ The company ROSE Systemtechnik GmbH

ROSE Systemtechnik GmbH was founded in Porta Westfalica, Germany, in 1969 and is today one of the world's leading and innovative providers of industrial enclosure system engineering, employing over 350 staff. In association with Phoenix Mecano AG, Switzerland, we develop and manufacture high-quality industrial enclosures and system solutions for the areas of mechanical and plant engineering, automation engineering, potentially explosive atmospheres, instrumentation, control and automation technology, as well as the food and beverage industry.

Our product range comprises the following.

- Standard industrial enclosures made of aluminium, stainless steel and plastics for individual installations of electrical connection technology and electronic components.
- Operating and display enclosures based on aluminium profile systems and stainless steel materials for HMI applications with industrial PCs, PLC control systems and visualisation units including delivery systems.
- Components for explosion protection with junction boxes and control stations for worldwide use in potentially explosive atmospheres, as well as the petrochemical and chemical industry in both onshore and offshore environments.

Our business success is founded on a wide range of products, a high quality standard, constant innovation and an exceptional level of service. You decide the condition of delivery – the unmachined enclosure, a partial assembly or a completely assembled and tested customised system solution.



#### ■ EX CABLE GLANDS



■ [www.rose-pw.de](http://www.rose-pw.de)





## Cable glands for safe ex applications



ROSE Systemtechnik GmbH is a leading manufacturer of explosion-proof enclosure systems and control stations for applications in onshore and offshore environments.

Our core competence is the safe packaging of electronics and electrical components around the enclosure.

When selecting corresponding accessory parts such as terminals and glands, we use the know-how of specialised providers who manufacture and deliver safe and reliable products for potentially explosive atmospheres.



CMP Products is a leading specialist for the manufacture of safe cable glands for all Ex areas.

Particularly for applications in the oil and gas industry, cable glands have to meet specific requirements. For this reason ROSE Systemtechnik GmbH uses CMP cable glands in safety-related operating areas within applications in the oil and gas industry.

System solutions for armoured and unarmoured cables, for applications with specific braided cables, for applications with a protection type requirement up to IP 68, and with various connection threads – the product range fulfills all requirements.

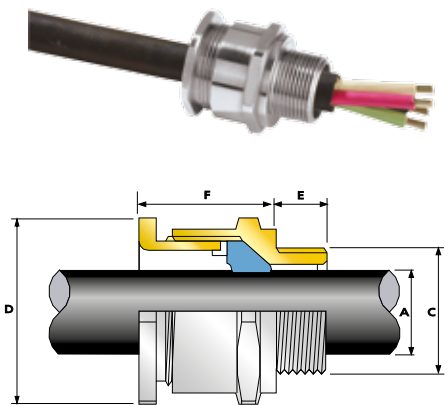


ROSE SYSTEMTECHNIK EX CABLE GLANDS CMP

### A2F

+ The cable gland A2F is a universal brass cable gland for all types of unarmoured cables and steel wire armoured cables with pressure-resistant seal and sealing of the cable outer sheath.

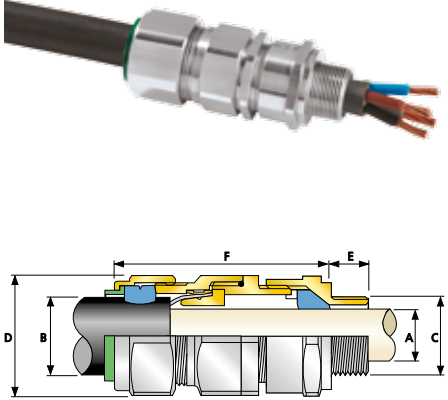
- Ignition protection types: Ex d, Ex e, Ex nR
- Operating range: Zone 1, 2, 21 and 22
- Temperature range: -60°C to +130°C
- Protection type: IP 68
- Approvals: ATEX, IECEx, CSA, TR TS, INMETRO
- Cable types: unarmoured cables, braided cables
- Connection thread: metric, NPT



### E1FW

+ The cable gland E1FW is a universal brass cable gland specially designed for cables with steel wire armour (SWA). E1FW provides pressure-resistant sealing for the inner cable as well as a gas-tight seal.

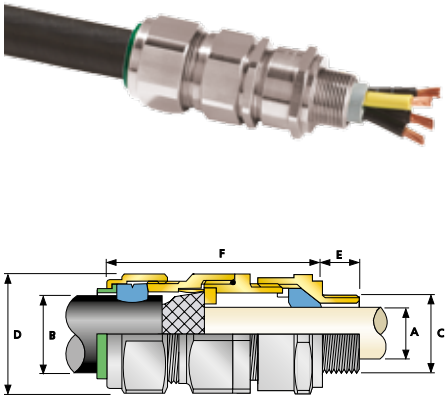
- Ignition protection types: Ex d, Ex e, Ex nR
- Operating range: Zone 1, 2, 21 and 22
- Temperature range: -60°C to +130°C
- Protection type: IP 68
- Approvals: ATEX, IECEx, TR TS, INMETRO
- Cable types: cables with steel wire armour (SWA)
- Connection thread: metric, NPT



### E1FX

+ The cable gland E1FX is a universal brass cable gland specially designed for cables with pliable wire armour (PWA) and steel tape armour (STA). E1FX provides pressure-resistant sealing for the inner cable as well as a gas-tight seal.

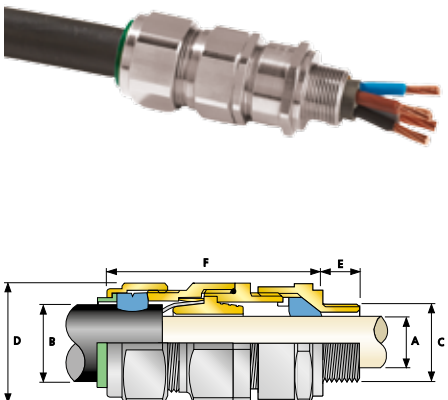
- Ignition protection types: Ex d, Ex e, Ex nR
- Operating range: Zone 1, 2, 21 and 22
- Temperature range: -60°C to +130°C
- Protection type: IP 68
- Approvals: ATEX, IECEx, TR TS, INMETRO
- Cable types: Cables with pliable wire armour (PWA) and steel tape armour (STA)
- Connection thread: metric, NPT



### E1FU

+ The cable gland E1FU is a universal brass cable gland for all types of armoured cables. E1FU provides pressure-resistant sealing for the inner cable as well as a gas-tight seal.

- Ignition protection types: Ex d, Ex e, Ex nR
- Operating range: Zone 1, 2, 21 and 22
- Temperature range: -60°C to +130°C
- Protection type: IP 68
- Approvals: ATEX, IECEx, TR TS
- Cable types: armoured cables
- Connection thread: metric, NPT

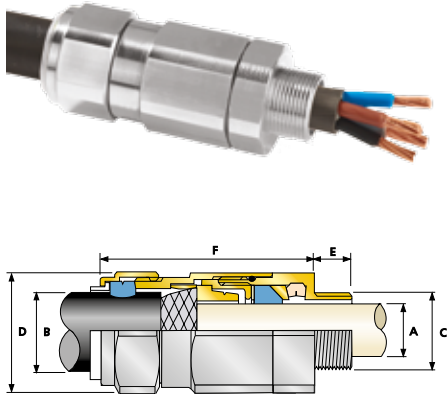


ROSE SYSTEMTECHNIK EX CABLE GLANDS CMP

### T3CDS

+ The cable gland T3CDS is a brass cable gland for armoured cables. T3CDS provides pressure-resistant sealing for the inner cable as well as a gas-tight seal.

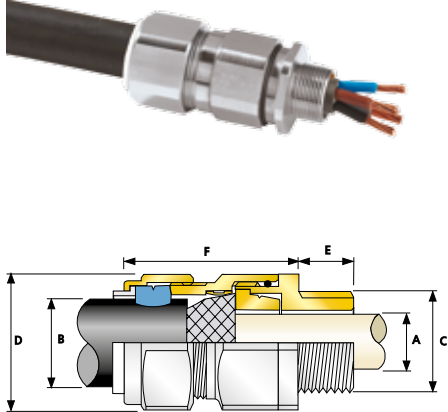
- Ignition protection types: Ex d, Ex e, Ex nR
- Operating range: Zone 1, 2, 21 and 22
- Temperature range: -60°C to +130°C
- Protection type: IP 68
- Approvals: ATEX, IECEx, TR TS
- Cable types: cables with pliable wire armour (PWA), steel wire armour (SWA) and steel tape armour (STA)
- Connection thread: metric, NPT



### C2K

+ The cable gland C2K is a universal brass cable gland for all types of armoured cables. C2K provides pressure-resistant sealing for the inner cable as well as a gas-tight seal.

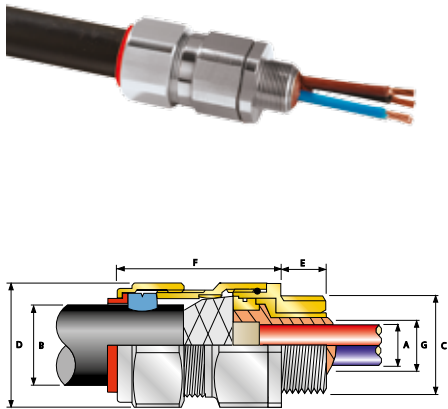
- Ignition protection types: Ex e
- Operating range: Zone 1, 2, 21 and 22
- Temperature range: -60°C to +130°C
- Protection type: IP 68
- Approvals: ATEX, IECEx, TR TS, INMETRO
- Cable types: all armoured cables
- Connection thread: metric, NPT



### PX2K

+ The cable gland PX2K is a universal brass cable gland for cables with compound barrier seal. PX2K provides a pressure-resistant seal for the inner cable as well as a gas-tight outer seal.

- Ignition protection types: Ex e, Ex-d, Ex-nR
- Operating range: Zone 1, 2, 21 and 22
- Temperature range: -60°C to +130°C
- Protection type: IP 68
- Approvals: ATEX, IECEx, TR TS
- Cable types: for cables with compound barrier seal
- Connection thread: metric, NPT

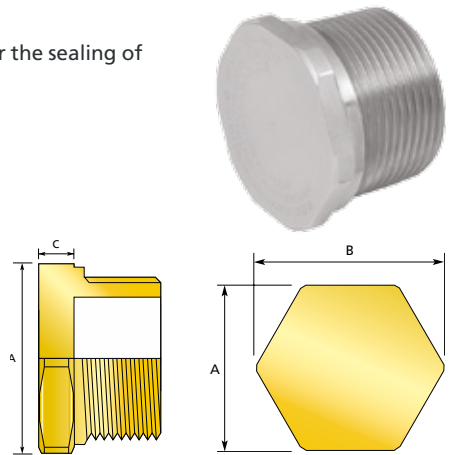


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### Blind plugs 757

+ Brass blind plugs with Viton sealing ring for the sealing of drillholes in enclosures.

- Ignition protection types: Ex d, Ex e
- Operating range: Zone 1, 2, 21 and 22
- Temperature range: -60°C to +130°C
- Protection type: IP 68
- Approvals: ATEX, IECEx, UL, TR TS, Nepsi
- Connection thread: metric



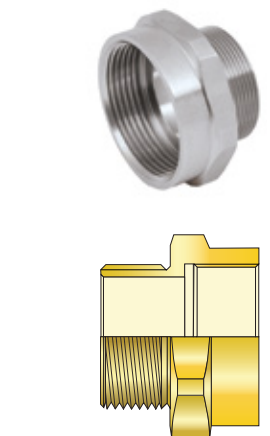
### Adapters and reducers

+ Reducers and adapters offer the best possible solution options for flexibility in the type and size of the cable entry.

- Ignition protection types: Ex d, Ex e
- Operating range: Zone 1, 2, 21 and 22
- Temperature range: -60°C to +130°C
- Protection type: IP 68 (with O-ring)
- Approvals: ATEX, IECEx, TR TS

Various basic types with the following connection threads (external thread / internal thread) are available.

- Metric <-> NPT
- Metric <-> PG
- NPT <-> PG
- PG-PG



### Sealing discs

+ The type of IP protection between the enclosure and the cable gland and/or blind plugs is guaranteed by sealing rings for metric and NPT entries that are 2 mm thick and made of nylon. The use of these sealing discs allows for a protection type up to IP 66.

