

# 3.1

## Ex-e/i Cable Glands

Plastic version for Zone 1, 2, 21 and 22 1 - according to EN 60079-0: 2018

### Conform with latest standards

Cable glands with metric screw-in threads are now standard and had replace the PG cable glands that were formally used.

The CEAG plastic cable glands are in accordance with EN 60079-0: 2018 and can be used in Ex-e/Ex-i housings in hazardous areas of the Zones 1, 21, 2 and 22.

Optional and not used cable glands must be closed with certified blanking plugs. The blanking plugs allow for a flexible and cost effective utilization of the explosion-protected appliances. Changes and upgrades can be then easily carried out at a later date.

The outstanding feature of the CEAG cable glands is the large cable connection area.

### Degree of protection

A high IP safety standard is achieved with the integrated sealing lip on the screw-in cable entries. Depending on the surface roughness the use of an additional sealing ring may not be necessary. The good mechanical and handling features are achieved by using a modified Polyamide material and a optimized tooling area.



### Features

- Large cable connection area
- Same wrench tool for both hexagons
- Conform accd. to latest EN 60079-0:2018
- Safety standard IP66
- Optimized tooling area
- Trapezoid thread, for a secure hold



Blanking plug



Cable gland Ex-e



Cable gland Ex-i

Technical data

| Ex e cable glands                      |                                                |                          |  |
|----------------------------------------|------------------------------------------------|--------------------------|--|
| Marking accd. to 2014/34/EU            | Ⓔ II 2 G Ex eb IIC Gb / Ⓔ II 2 D Ex tb IIIC Db |                          |  |
| EC-Type Examination Certificate        | IMQ 24 ATEX 049 X                              |                          |  |
| IECEX Certificate of Conformity        | IECEX IMQ 24.0007X                             |                          |  |
| Marking accd. to IECEx                 | Ex eb IIC Gb / Ex eb IIIC Db                   |                          |  |
| Permissible ambient temperature        |                                                |                          |  |
| M16                                    | -20 °C ... +70 °C                              | Impact resistant 4 Joule |  |
| M20 .. M63                             | -55 °C ... +70 °C                              | Impact resistant 4 Joule |  |
| M20 ... M63                            | -45 °C ... +70 °C                              | Impact resistant 7 Joule |  |
| Degree of protection accd. to EN 60529 | IP 66<br>IP 68 - 5 Bar; 30 min                 |                          |  |
| Enclosure material                     | Polyamide                                      |                          |  |
|                                        |                                                |                          |  |
| Blanking plug                          |                                                |                          |  |
| Marking accd. to 2014/34/EU            | Ⓔ II 2 G Ex eb IIC Gb / Ⓔ II 2 D Ex tb IIIC Db |                          |  |
| EC-Type Examination Certificate        | IMQ 24 ATEX 049 X                              |                          |  |
| IECEX Certificate of Conformity        | IECEX IMQ 24.0007X                             |                          |  |
| Marking accd. to IECEx                 | Ex eb IIC Gb / Ex tb IIIC Db                   |                          |  |
| Permissible ambient temperature        | -55 °C ... +70 °C                              |                          |  |
| Degree of protection accd. to EN 60529 | IP 66<br>IP 68 - 5 Bar; 30 min                 |                          |  |
| Enclosure material                     | Polyamide                                      |                          |  |



## Ex-e/i cable plastic glands



Cable gland Ex-e



Cable gland Ex-i



Blanking plug

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### Ordering details

| Thread                                                             | Cable Ø mm<br>seal 1+2 <sup>(1)(2)</sup> | Seal 1 <sup>(1)(2)</sup> | A/F<br>mm | L1<br>mm | L2<br>mm | Weight<br>g | BE | Order No.           | -20 °C ... +70 °C<br>Impact resistant<br>4 Joule | -55 °C ... +70 °C<br>Impact resistant<br>4 Joule | -45 °C ... +70 °C<br>Impact resistant<br>7 Joule |
|--------------------------------------------------------------------|------------------------------------------|--------------------------|-----------|----------|----------|-------------|----|---------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|
| <b>Ex-e cable gland with short thread accd. to EN 50262 -black</b> |                                          |                          |           |          |          |             |    |                     |                                                  |                                                  |                                                  |
| M16 x 1.5                                                          | 4.0 ... 6.0                              | 6.0 ... 10.0             | 22        | 29.5     | 10       | 10.9        | 20 | GHG 960 1959 R 0002 | ---                                              | ---                                              | ---                                              |
| M20 x 1.5                                                          | 6.0 ... 7.5                              | 7.5 ... 11.0             | 24        | 30.0     | 10       | 14.1        | 20 | GHG 960 1959 R ---  | 0003                                             | 0003                                             | ---                                              |
| M25 x 1.5                                                          | 9.0 ... 13.0                             | 13.0 ... 17.0            | 29        | 34.0     | 10       | 19.8        | 20 | GHG 960 1959 R ---  | 0004                                             | ---                                              | ---                                              |
| M25 x 1.5                                                          | 9.0 ... 13.0                             | 13.0 ... 15.0            | 29        | 34.0     | 10       | 19.8        | 20 | GHG 960 1959 R ---  | ---                                              | ---                                              | 0009                                             |
| M32 x 1.5                                                          | 12.0 ... 16.0                            | 16.0 ... 21.0            | 36        | 42.0     | 10       | 33.9        | 20 | GHG 960 1959 R ---  | 0005                                             | 0005                                             | ---                                              |
| <b>Ex-i cable gland with short thread -blue</b>                    |                                          |                          |           |          |          |             |    |                     |                                                  |                                                  |                                                  |
| M16 x 1.5                                                          | 4.0 ... 6.0                              | 6.0 ... 10.0             | 22        | 29.5     | 10       | 10.9        | 20 | GHG 960 1959 R 0102 | ---                                              | ---                                              | ---                                              |
| M20 x 1.5                                                          | 6.0 ... 7.5                              | 7.5 ... 11.0             | 24        | 30.0     | 10       | 14.1        | 20 | GHG 960 1959 R ---  | 0103                                             | 0103                                             | ---                                              |
| M25 x 1.5                                                          | 9.0 ... 13.0                             | 13.0 ... 17.0            | 29        | 34.0     | 10       | 19.8        | 20 | GHG 960 1959 R ---  | 0104                                             | ---                                              | ---                                              |
| M25 x 1.5                                                          | 9.0 ... 13.0                             | 13.0 ... 15.0            | 29        | 34.0     | 10       | 19.8        | 20 | GHG 960 1959 R ---  | ---                                              | ---                                              | 0109                                             |
| M32 x 1.5                                                          | 12.0 ... 16.0                            | 16.0 ... 21.0            | 36        | 42.0     | 10       | 33.9        | 20 | GHG 960 1959 R ---  | 0105                                             | 0105                                             | ---                                              |
| <b>Ex-e cable gland with long thread accd. to EN 50262 -black</b>  |                                          |                          |           |          |          |             |    |                     |                                                  |                                                  |                                                  |
| M16 x 1.5                                                          | 4.0 ... 6.0                              | 6.0 ... 10.0             | 22        | 29.5     | 15       | 10.9        | 20 | GHG 960 1959 R 0022 | ---                                              | ---                                              | ---                                              |
| M20 x 1.5                                                          | 6.0 ... 7.5                              | 7.5 ... 11.0             | 24        | 30.0     | 15       | 14.1        | 20 | GHG 960 1959 R ---  | 0023                                             | 0023                                             | ---                                              |
| M25 x 1.5                                                          | 9.0 ... 13.0                             | 13.0 ... 17.0            | 29        | 34.0     | 15       | 19.8        | 20 | GHG 960 1959 R ---  | 0024                                             | ---                                              | ---                                              |
| M25 x 1.5                                                          | 9.0 ... 13.0                             | 13.0 ... 15.0            | 29        | 34.0     | 15       | 19.8        | 20 | GHG 960 1959 R ---  | ---                                              | ---                                              | 0029                                             |
| M32 x 1.5                                                          | 12.0 ... 16.0                            | 16.0 ... 21.0            | 36        | 42.0     | 15       | 33.9        | 20 | GHG 960 1959 R ---  | 0025                                             | 0025                                             | ---                                              |
| M40 x 1.5                                                          | 17.0 ... 21.0                            | 21.0 ... 28.0            | 46        | 46.0     | 15       | 59.2        | 10 | GHG 960 1959 R ---  | 0026                                             | 0026                                             | ---                                              |
| M50 x 1.5                                                          | 22.0 ... 31.0                            | 31.0 ... 38.0            | 60        | 54.0     | 18       | 110.1       | 10 | GHG 960 1959 R ---  | 0027                                             | 0027                                             | ---                                              |
| M63 x 1.5                                                          | 28.0 ... 35.0                            | 35.0 ... 44.0            | 65        | 54.0     | 18       | 122.2       | 5  | GHG 960 1959 R ---  | 0028                                             | 0028                                             | ---                                              |
| <b>Ex-i cable gland with long thread -blue</b>                     |                                          |                          |           |          |          |             |    |                     |                                                  |                                                  |                                                  |
| M16 x 1.5                                                          | 4.0 ... 6.0                              | 6.0 ... 10.0             | 22        | 29.5     | 15       | 10.9        | 20 | GHG 960 1959 R 0122 | ---                                              | ---                                              | ---                                              |
| M20 x 1.5                                                          | 6.0 ... 7.5                              | 7.5 ... 11.0             | 24        | 30.0     | 15       | 14.1        | 20 | GHG 960 1959 R ---  | 0123                                             | 0123                                             | ---                                              |
| M25 x 1.5                                                          | 9.0 ... 13.0                             | 13.0 ... 17.0            | 29        | 34.0     | 15       | 19.8        | 20 | GHG 960 1959 R ---  | 0124                                             | ---                                              | ---                                              |
| M25 x 1.5                                                          | 9.0 ... 13.0                             | 13.0 ... 15.0            | 29        | 34.0     | 15       | 19.8        | 20 | GHG 960 1959 R ---  | ---                                              | ---                                              | 0129                                             |
| M32 x 1.5                                                          | 12.0 ... 16.0                            | 16.0 ... 21.0            | 36        | 42.0     | 15       | 33.9        | 20 | GHG 960 1959 R ---  | 0125                                             | 0125                                             | ---                                              |
| M40 x 1.5                                                          | 17.0 ... 21.0                            | 21.0 ... 28.0            | 46        | 46.0     | 15       | 59.2        | 10 | GHG 960 1959 R ---  | 0126                                             | 0126                                             | ---                                              |
| M50 x 1.5                                                          | 22.0 ... 31.0                            | 31.0 ... 38.0            | 60        | 54.0     | 18       | 110.1       | 10 | GHG 960 1959 R ---  | 0127                                             | 0127                                             | ---                                              |
| M63 x 1.5                                                          | 28.0 ... 35.0                            | 35.0 ... 44.0            | 65        | 72.0     | 18       | 122.2       | 5  | GHG 960 1959 R ---  | 0128                                             | 0128                                             | ---                                              |

### Example for Order number:

M25; Cable gland with long thread accd.to EN 50262;  
Ex-e (black); Temperature range up to -45 °C;  
with increased risk due to external mechanical influences



GHG 960 1959 R 0029

(1) The tests of clamping ranges and torque values were performed with metal mandrel. The clamping range can vary by using cables with different manufacturing tolerances and material properties. Please use the combination of sealing 1 + 2 for the intermediate region.

(2) When selecting the seal rubber, ensure that the cap nut can be tightened when carrying out any future maintenance work on the cable entry.



Blanking plug



Cable gland Ex-i

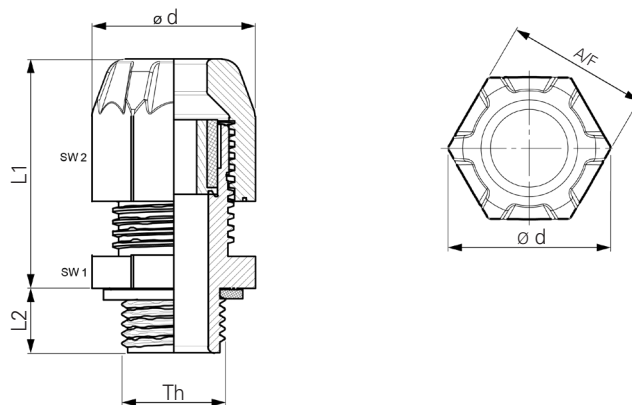


Cable gland Ex-e

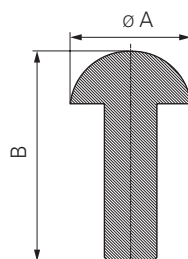
### Ordering details

| Thread                                | B<br>mm | Ø A<br>mm | Weight<br>g | BE | Order No.<br>(-55 °C ... +70 °C) |
|---------------------------------------|---------|-----------|-------------|----|----------------------------------|
| <b>Blanking plug for cable glands</b> |         |           |             |    |                                  |
| M16                                   | 20.7    | 7.0       | 4           | 20 | GHG 960 1948 R0002               |
| M20                                   | 20.7    | 8.5       | 5           | 20 | GHG 960 1948 R0003               |
| M25                                   | 21.5    | 11.0      | 5           | 20 | GHG 960 1948 R0004               |
| M32                                   | 24.5    | 14.0      | 8           | 20 | GHG 960 1948 R0005               |
| M40                                   | 25.0    | 20.0      | 10          | 10 | GHG 960 1948 R0006               |
| M50                                   | 32.1    | 26.0      | 33          | 10 | GHG 960 1948 R0007               |
| M63                                   | 38.5    | 34.0      | 108         | 5  | GHG 960 1948 R0008               |

### Dimension drawing



Cable gland



Blanking plug



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