# Cable Glands, Metal, for non-amored cables CG.NA.* for shielded EMC cables CG.EM.*

## Marking

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|---|
| Cable Glands, Metal,<br>for non-armored cables CG.NA.*<br>for shielded EMC cables CG.EM.* |
| ATEX certificate: IMQ 14 ATEX 012X<br>ATEX marking:<br>Ex II 2 GD<br>Ex db IIC Gb<br>Ex eb IIC Gb<br>Ex tb IIIC Db |
| IECEx certificate: IECEx IMQ 14.0004X<br>CCC certificate: 2021312313000344<br>UL approval CG.NA.*: cULus<br>E490324 tested to UL 514B<br>E490962 tested to UL 2225<br>CSA 60079-7 , CSA 60079-31<br>UL approval CG.EM.*: cULus<br>E490962 tested to UL 2225<br>CSA 60079-7 , CSA 60079-31 |

The *-marked letters of the type code are placeholders for versions of the device.

| |
|---|
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| Internet: www.pepperl-fuchs.com |

## Target Group, Personnel

Responsibility for planning, assembly, commissioning, operation, maintenance, and dismounting lies with the plant operator.

The personnel must be appropriately trained and qualified in order to carry out mounting, installation, commissioning, operation, maintenance, and dismounting of the device. The trained and qualified personnel must have read and understood the instruction manual.

## Reference to Further Documentation

Observe directives, standards, and national laws applicable to the intended use and the operating location.

The corresponding datasheets, manuals, declarations of conformity, EU-type examination certificates, certificates, and control drawings if applicable (see datasheet) are an integral part of this document. You can find this information under www.pepperl-fuchs.com.

For specific device information such as the year of construction, scan the QR code on the device. As an alternative, enter the serial number in the serial number search at www.pepperl-fuchs.com.

## Intended Use

The device is only approved for appropriate and intended use. Ignoring these instructions will void any warranty and absolve the manufacturer from any liability.

The cable glands of the CG.NA.* and CG.EM.* series are made of metal.

The device can be used indoors.

The device can be used outdoors.

The device can be used in Zone 1.

The device can be used in Zone 21.

The device can be used in Zone 2.

The device can be used in Zone 22.

The device can be used with intrinsically safe circuits.

Only use the device in fixed installations.

The cable glands can be used with non-armored elastomer and plastic insulated cables.

The cable glands provide a combination of explosion protection and environmental protection on the outer cable sheath.

The cable glands CG.EM.* can be used with shielded cables where the shield will be connected to the inner shielding ring of the gland in order to provide the necessary EMC protection.

## Improper Use

Protection of personnel and the plant is not ensured if the device is not used according to its intended use.

## Mounting and Installation

Observe the installation instructions according to IEC/EN 60079-14.

If you intend to install the device or enclosure in areas that may be exposed to aggressive substances, ensure that the stated surface materials are compatible with these substances. If required, contact Pepperl+Fuchs for further information.

Observe the instruction manuals for the associated components.

Refer to the corresponding technical data of the installed components for the actual type of protection or any possible restrictions.

Ensure that the degree of protection is maintained by the entire installation.

Ensure that the surface of the enclosure is smooth enough to achieve the required degree of protection.

Ensure that the enclosure entries are perpendicular, circular and free of burrs.

### Requirements for Cable Glands

Only use cable glands that are suitably certified for the application.

Only use cable glands with a temperature range appropriate to the application.

Use seals that are suitable for the specified application.

Ensure that the degree of protection is not violated by the cable glands.

Install cables and cable glands in a way that they are not exposed to mechanical hazards.

The cables and connection lines must be free from mechanical stress. Use appropriate strain relief, which must be fitted outside of the enclosure.

Ensure that all cable glands are in good condition and are securely tightened.

Tighten all cable glands with the appropriate torque.

Close all unused cable glands with the appropriate sealing plugs.

Observe the specific ambient conditions of sealing plugs.

### Installation Sequence

Disassemble the parts of the cable gland.

Choose the optimal seal insert combination (S*) according to the cable diameter. Use the outer seal insert S1 (6) for cables with large diameter. Use a combination of up to 3 seal inserts (4) ... (6) for cables with smaller diameter.

Fit the seal insert combination into the gland body basis (3).

Install the gland body basis (3) in the entry of the enclosure.

Use washer gasket (1) and O-Ring (2) when appropriate.

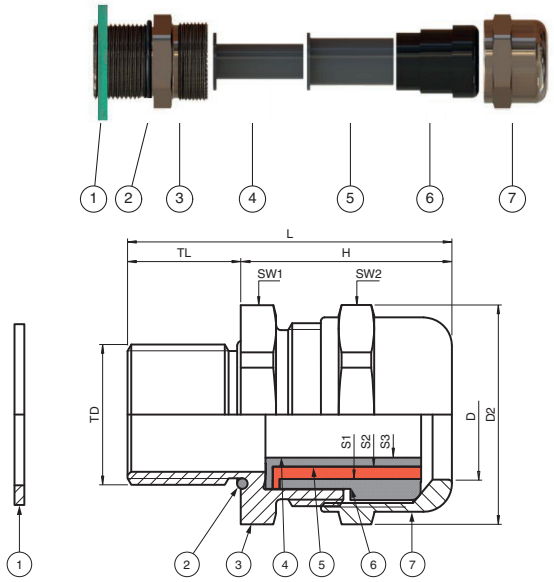
Push the cap nut (7) onto the cable.

Push the cable through the seal inserts (4) ... (6).

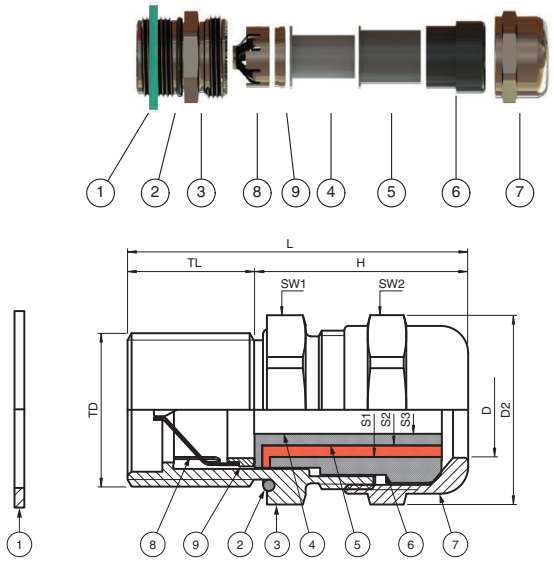
Only with GG.EM.*: Place the shield inside the EMC spring insert (8). Cut off the excess parts of shield and cable sheath.

Tighten the cap nut (7) to the gland body basis (3).

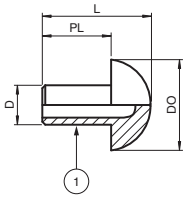
### Dimensions and Assembly CG.NA*




### Dimensions and Assembly CG.EM*




### Dimensions Sealing Plugs BP.*




Allocation of sealing plugs to cable glands please see data table below. Material polyamide, further technical information see individual datasheets.

| Legend | |
|---|---|
| 1 | Washer gasket (accessory) |
| 2 | O-Ring |
| 3 | Gland body basis |
| 4 | Seal insert S3 |
| 5 | Seal insert S2 |
| 6 | Seal insert S1 |
| 7 | Cap nut |
| 8 | EMC spring insert (CG.EM* only) |
| 9 | Pressure ring (CG.EM* only) |
| | |
| D | Clamping range, cable sheath diameter |
| D2 | Width across corners |
| H | Length outside enclosure |
| L | Total length |
| S* | Clamping range, seal insert combinations |
| SW* | Width across flats |
| TD | Thread size |
| TL | Thread lenght |

## Requirements in Relation to Flameproof Enclosure

Install the cables and connection lines through tapped holes.

### Requirements in Relation to Tapered Threads

Ensure that the enclosure wall is thick enough to engage at least 5 full thread turns.

To ensure the degree of protection use a thread sealant. Apply the thread sealant to at least 2 full thread turns before installing the stuffing gland in the cable gland.

Ensure electrical conductivity.

### Requirements in Relation to Metric Threads

Ensure that the enclosure wall is thick enough to engage at least 5 full thread turns.

Provide the tapped hole with an O-ring on the thread outside of the enclosure.

## Requirements in Relation to Increased Safety

### Requirements in Relation to Non-Threaded Enclosures

The minimum wall thickness of the enclosure has to be 1.5 mm.

If the enclosure has no threads, use locknuts for tightening.

Use washer gaskets between the screw-in parts and the enclosure for sealing.

During mounting, it may be necessary to rotate the locknut or the cable gland. If it is necessary to rotate the cable gland, use an O-ring for sealing.

Adhere to the required hole diameters.

### Requirements in Relation to Tapered Threads

The minimum wall thickness of the enclosure has to be 1.5 mm.

When mounting on the enclosure, at least 3 thread turns has to be mechanically connected to the enclosure. If this is not possible, use a locknut.

To ensure the degree of protection use a thread sealant. Apply the thread sealant to at least 2 full thread turns before installing the stuffing gland in the cable gland.

Ensure electrical conductivity.

Tighten the locknut inside and the washer gasket on the thread outside of the enclosure.

If necessary, mount an O-ring between the washer gasket and the screw head.

### Requirements in Relation to Metric Threads

The minimum wall thickness of the enclosure has to be 1.5 mm.

When mounting on the enclosure, at least 3 thread turns has to be mechanically connected to the enclosure. If this is not possible, use a locknut.

Tighten the locknut inside and the washer gasket on the thread outside of the enclosure.

If necessary, mount an O-ring between the washer gasket and the screw head.

## Operation, Maintenance, Repair

Do not use a damaged or polluted device.

Observe the installation instructions according to IEC/EN 60079-14.

Observe IEC/EN 60079-17 for maintenance and inspection.

Do not modify or manipulate the device.

Only use spare parts specified by the manufacturer.

Ensure that the device is de-energized before maintain or repair the device.

Dissimilar metals will corrode when placed against each other in an assembly.

When selecting the enclosure material, observe the possible effects of galvanic corrosion.

## Delivery, Transport, Disposal

Check the packaging and contents for damage.

Check if you have received every item and if the items received are the ones you ordered.

The device, built-in components, packaging, and any batteries contained within must be disposed in compliance with the applicable laws and guidelines of the respective country.

## Technical Data

| | |
|---|---|
| General | |
| Types and variants | CG.EM* - see type code table<br>CG.NA* - see type code table |
| Mechanical specifications | |
| Dimensions and torques | see data table |
| Cable type | non-armored cables |
| Clamping range (D) | see data table |
| Thread type | metric ISO pitch 1.5 mm or<br>NPT ANSI ASME B1.20.1 |
| Thread size (TD) | see data table |
| Degree of protection | IP66 / IP68, UL Type 4X |
| Mass | see datasheets |
| Material | |
| Cable gland | brass nickel-plated or<br>stainless steel AISI 316 (1.4401) |
| Finish | inherent color silver |
| O-Ring | chloroprene / neoprene or silicone |
| Washer gasket | aramid fibers bonded with NBR |
| Seal insert | chloroprene / neoprene or silicone |
| Ambient conditions | |
| Ambient temperature | Ex eb and Ex tb versions:<br>chloroprene seal:<br>-40 ... 80 °C (-40 ... 176 °F)<br>silicone seal:<br>-60 ... 140 °C (-76 ... 284 °F)<br>washer gasket:<br>-50 ... 80 °C (-58 ... 176 °F)<br>sealing plugs:<br>-60 ... 70 °C (-76 ... 158 °F)<br>Ex db versions:<br>chloroprene seal:<br>-40 ... 80 °C (-40 ... 176 °F)<br>silicone seal:<br>-60 ... 80 °C (-76 ... 176 °F)<br>washer gasket:<br>-50 ... 80 °C (-58 ... 176 °F)<br>Service temperature might be limited by the use of sealing plugs or washer gaskets. |
| Conformity | |
| Degree of protection | EN 60529 |
| CE marking | 0102 |

## Type Code / Model Number

| 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CG** | **.** | **NA** | **.** | *** | **.** | ** | **.** | * | **.** | ** | **.** | **K**** |
| CG | . | NA | . | M20 | . | BN | . | C | . | 16 | . | K01 |

Example: CG.NA.M20.BN.C.16.K01

Cable gland metal, for non-armored cables, thread size M20, body brass nickel-plated, chloroprene seals for -40 °C ... 80 °C, installation thread length 16 mm, one piece

| 1 | Series |
|---|---|
| CG | cable glands |

| 2 | Type |
|---|---|
| NA | metal, for non-armored cables |

| 3 | Thread, type and size |
|---|---|
| M* | metric ISO pitch 1.5; sizes see dimensions data table |
| NPT* | NPT ANSI ASME B1.20.1; sizes see dimensions data table |

| 4 | Material |
|---|---|
| BN | brass nickel-plated |
| SS | stainless steel |

| 5 | Material seals / O-Ring |
|---|---|
| C | chloroprene / neoprene |
| S | silicone |

| 6 | Thread length for installation in enclosure |
|---|---|
| ** | length in mm |

| 7 | Packaging unit |
|---|---|
| | units not packaged, for use in Pepperl+Fuchs Solution Engineering Centers |
| K** | units quantity per package |

## Type Code / Model Number

| 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CG** | **.** | **EM** | **.** | *** | **.** | ** | **.** | * | **.** | ** | **.** | **K**** |
| CG | . | EM | . | M20 | . | BN | . | C | . | 18 | . | K01 |

Example: CG.EM.M20.BN.C.18.K01

Cable gland metal, for shielded EMC cables, thread size M20, body brass nickel-plated, chloroprene seals for -40 °C ... 80 °C, installation thread length 18 mm, one piece

| 1 | Series |
|---|---|
| CG | cable glands |

| 2 | Type |
|---|---|
| EM | metal, for shielded EMC cables |

| 3 | Thread, type and size |
|---|---|
| M* | metric ISO pitch 1.5; sizes see dimensions data table |
| NPT* | NPT ANSI ASME B1.20.1; sizes see dimensions data table |

| 4 | Material |
|---|---|
| BN | brass nickel-plated |
| SS | stainless steel |

| 5 | Material seals / O-Ring |
|---|---|
| C | chloroprene / neoprene |
| S | silicone |

| 6 | Thread length for installation in enclosure |
|---|---|
| ** | length in mm |

| 7 | Packaging unit |
|---|---|
| | units not packaged, for use in Pepperl+Fuchs Solution Engineering Centers |
| K** | units quantity per package |

## Variant-Specific Data

**Dimensions Metric - Brass Nickel-plated**

| Type | Thread size | Clamping range [mm] seal insert combinations | | | | Dimensions [mm] | | | | | | UL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TD | D | S1+S2+S3 | S1+S2 | S1 | H | L | TL | D2 | SW1 | SW2 | |
| CG.NA.M16S.BN.C.16.* | M16 | 3 ... 9 | 3 ... 6 | 6 ... 9 | - | 33 | 49 | 16 | 24 | 22 | 22 | - |
| CG.NA.M16.BN.C.16.* | M16 | 4 ... 12 | 4 ... 6 | 6 ... 9 | 9 ... 12 | 33 | 49 | 16 | 24 | 22 | 22 | - |
| CG.NA.M20S.BN.C.16.* | M20 | 4 ... 12 | 4 ... 6 | 6 ... 9 | 9 ... 12 | 29 | 45 | 16 | 26.5 | 24 | 22 | X |
| CG.NA.M20.BN.C.16.* | M20 | 10 ... 16 | 10 ... 12 | 12 ... 14.5 | 14.5 ... 16 | 32 | 48 | 16 | 31 | 28 | 28 | X |
| CG.NA.M25S.BN.C.16.* | M25 | 10 ... 18 | 10 ... 12 | 12 ... 14.5 | 14.5 ... 18 | 32.5 | 48.5 | 16 | 31 | 28 | 28 | X |
| CG.NA.M25.BN.C.16.* | M25 | 14 ... 20 | 14 ... 17 | 17 ... 20 | - | 36 | 52 | 16 | 39 | 35 | 35 | X |
| CG.NA.M32S.BN.C.16.* | M32 | 14 ... 24 | 14 ... 17 | 17 ... 20 | 20 ... 24 | 35 | 51 | 16 | 39 | 35 | 35 | X |
| CG.NA.M40S.BN.C.18.* | M40 | 22 ... 32 | 22 ... 24 | 24 ... 27 | 27 ... 32 | 42.5 | 60.5 | 18 | 49.5 | 45 | 45 | X |
| CG.NA.M50S.BN.C.18.* | M50 | 26 ... 35 | 26 ... 28 | 28 ... 31 | 31 ... 35 | 45.5 | 63.5 | 18 | 61 | 55 | 50 | X |
| CG.NA.M50.BN.C.18.* | M50 | 35 ... 44 | 35 ... 38 | 38 ... 41 | 41 ... 44 | 45 | 63 | 18 | 70 | 64 | 64 | X |
| CG.NA.M63S.BN.C.18.* | M63 | 35 ... 45 | 35 ... 38 | 38 ... 41 | 41 ... 45 | 45 | 63 | 18 | 75 | 68 | 64 | X |
| CG.NA.M63.BN.C.18.* | M63 | 46 ... 56 | 46 ... 48 | 48 ... 52 | 52 ... 56 | 54 | 72 | 18 | 89 | 75 | 80 | X |

UL: X = UL approved

**Details and Accessories Metric - Brass Nickel-plated**

| Type | TD | Mass approx. | | Diameter thru-hole [mm] | Nut torques [Nm] seal insert combinations | | | | Sealing plugs | C |
|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | DT | SW1 | SW2 S1+S2+S3 | SW2 S1+S2 | SW2 S1 | | |
| CG.NA.M16S.BN.C.16.K01 | M16 | 51 | 76 | 16 ... 16.2 | 4 | 20 | 18 | - | BP.NA.M16-M20S.PA | 1 |
| CG.NA.M16.BN.C.16.K01 | M16 | 51 | 76 | 16 ... 16.2 | 4 | 20 | 18 | 15 | BP.NA.M16-M20S.PA | 1 |
| CG.NA.M16.BN.C.16.K50 | M16 | 51 | 2.81 | 16 ... 16.2 | 4 | 20 | 18 | 15 | BP.NA.M16-M20S.PA | 50 |
| CG.NA.M20S.BN.C.16.K01 | M20 | 48 | 70 | 20 ... 20.2 | 5.5 | 20 | 18 | 15 | BP.NA.M16-M20S.PA | 1 |
| CG.NA.M20S.BN.C.16.K50 | M20 | 48 | 2.64 | 20 ... 20.2 | 5.5 | 20 | 18 | 15 | BP.NA.M16-M20S.PA | 50 |
| CG.NA.M20.BN.C.16.K01 | M20 | 65 | 101 | 20 ... 20.2 | 6 | 24 | 22 | 18 | BP.NA.M20-M25S.PA | 1 |
| CG.NA.M20.BN.C.16.K50 | M20 | 65 | 3.58 | 20 ... 20.2 | 6 | 24 | 22 | 18 | BP.NA.M20-M25S.PA | 50 |
| CG.NA.M25S.BN.C.16.K01 | M25 | 73 | 110 | 25 ... 25.2 | 6 | 25 | 22 | 18 | BP.NA.M20-M25S.PA | 1 |
| CG.NA.M25S.BN.C.16.K25 | M25 | 73 | 2.01 | 25 ... 25.2 | 6 | 25 | 22 | 18 | BP.NA.M20-M25S.PA | 25 |
| CG.NA.M25.BN.C.16.K01 | M25 | 116 | 160 | 25 ... 25.2 | 6 | 26 | 22 | - | BP.NA.M25-M32S.PA | 1 |
| CG.NA.M25.BN.C.16.K15 | M25 | 116 | 1.91 | 25 ... 25.2 | 6 | 26 | 22 | - | BP.NA.M25-M32S.PA | 15 |
| CG.NA.M32S.BN.C.16.K01 | M32 | 115 | 165 | 32 ... 32.3 | 6 | 28 | 23 | 20 | BP.NA.M25-M32S.PA | 1 |
| CG.NA.M32S.BN.C.16.K15 | M32 | 115 | 1.9 | 32 ... 32.3 | 6 | 28 | 23 | 20 | BP.NA.M25-M32S.PA | 15 |
| CG.NA.M40S.BN.C.18.K01 | M40 | 211 | 293 | 40 ... 40.3 | 12 | 56 | 50 | 45 | BP.NA.M32-M40S.PA | 1 |
| CG.NA.M40S.BN.C.18.K05 | M40 | 211 | 1.16 | 40 ... 40.3 | 12 | 56 | 50 | 45 | BP.NA.M32-M40S.PA | 5 |
| CG.NA.M50S.BN.C.18.K01 | M50 | 327 | 458 | 50 ... 50.3 | 18 | 57 | 55 | 52 | BP.NA.M40-M50S.PA | 1 |
| CG.NA.M50S.BN.C.18.K05 | M50 | 327 | 1.8 | 50 ... 50.3 | 18 | 57 | 55 | 52 | BP.NA.M40-M50S.PA | 5 |
| CG.NA.M50.BN.C.18.K01 | M50 | 438 | 613 | 50 ... 50.3 | 18 | 190 | 155 | 140 | BP.NA.M50-M63S.PA | 1 |
| CG.NA.M50.BN.C.18.K04 | M50 | 438 | 1.93 | 50 ... 50.3 | 18 | 190 | 155 | 140 | BP.NA.M50-M63S.PA | 4 |
| CG.NA.M63S.BN.C.18.K01 | M63 | 468 | 655 | 63 ... 63.3 | 25 | 190 | 155 | 140 | BP.NA.M50-M63S.PA | 1 |
| CG.NA.M63S.BN.C.18.K04 | M63 | 468 | 2.06 | 63 ... 63.3 | 25 | 190 | 155 | 140 | BP.NA.M50-M63S.PA | 4 |
| CG.NA.M63.BN.C.18.K01 | M63 | 716 | 891 | 63 ... 63.3 | 25 | 160 | 145 | 135 | BP.NA.M63-M75S.PA | 1 |
| CG.NA.M63.BN.C.18.K02 | M63 | 716 | 1.58 | 63 ... 63.3 | 25 | 160 | 145 | 135 | BP.NA.M63-M75S.PA | 2 |

A = Component [g]
B = Packaging unit [g] / [kg]
C = Delivery quantity
TD = Threadsize
*Knn: scope of delivery see table technical data

**Dimensions Metric - Stainless Steel**

| Type | Thread size | Clamping range [mm] seal insert combinations | | | | Dimensions [mm] | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TD | D | S1+S2+S3 | S1+S2 | S1 | H | L | TL | D2 | SW1 | SW2 | UL |
| CG.NA.M16.SS.C.16.* | M16 | 4 ... 12 | 4 ... 6 | 6 ... 9 | 9 ... 12 | 33 | 49 | 16 | 24 | 22 | 22 | - |
| CG.NA.M20S.SS.C.16.* | M20 | 4 ... 12 | 4 ... 6 | 6 ... 9 | 9 ... 12 | 29 | 45 | 16 | 26.5 | 24 | 22 | X |
| CG.NA.M20.SS.C.16.* | M20 | 10 ... 16 | 10 ... 12 | 12 ... 14.5 | 14.5 ... 16 | 32 | 48 | 16 | 31 | 28 | 28 | X |
| CG.NA.M25S.SS.C.16.* | M25 | 10 ... 18 | 10 ... 12 | 12 ... 14.5 | 14.5 ... 18 | 32.5 | 48.5 | 16 | 31 | 28 | 28 | X |
| CG.NA.M25.SS.C.16.* | M25 | 14 ... 20 | 14 ... 17 | 17 ... 20 | - | 36 | 52 | 16 | 39 | 35 | 35 | X |
| CG.NA.M32S.SS.C.16.* | M32 | 14 ... 24 | 14 ... 17 | 17 ... 20 | 20 ... 24 | 35 | 51 | 16 | 39 | 35 | 35 | X |
| CG.NA.M40S.SS.C.18.* | M40 | 22 ... 32 | 22 ... 24 | 24 ... 27 | 27 ... 32 | 42.5 | 60.5 | 18 | 49.5 | 45 | 45 | X |
| CG.NA.M50S.SS.C.18.* | M50 | 26 ... 35 | 26 ... 28 | 28 ... 31 | 31 ... 35 | 45.5 | 63.5 | 18 | 61 | 55 | 50 | X |
| CG.NA.M50.SS.C.18.* | M50 | 35 ... 44 | 35 ... 38 | 38 ... 41 | 41 ... 44 | 45 | 63 | 18 | 70 | 64 | 64 | X |
| CG.NA.M63S.SS.C.18.* | M63 | 35 ... 45 | 35 ... 38 | 38 ... 41 | 41 ... 45 | 45 | 63 | 18 | 75 | 68 | 64 | X |
| CG.NA.M63.SS.C.18.* | M63 | 46 ... 56 | 46 ... 48 | 48 ... 52 | 52 ... 56 | 54 | 72 | 18 | 89 | 75 | 80 | X |

UL: X = UL approved

**Details and Accessories Metric - Stainless Steel**

| Type | TD | Mass approx. | | Diameter thru-hole [mm] | Nut torques [Nm] seal insert combinations | | | | Sealing plugs | C |
|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | DT | SW1 | SW2 S1+S2+S3 | SW2 S1+S2 | SW2 S1 | | |
| CG.NA.M16.SS.C.16.K01 | M16 | 49 | 69 | 16 ... 16.2 | 4 | 20 | 18 | 15 | BP.NA.M16-M20S.PA | 1 |
| CG.NA.M16.SS.C.16.K50 | M16 | 49 | 2.7 | 16 ... 16.2 | 4 | 20 | 18 | 15 | BP.NA.M16-M20S.PA | 50 |
| CG.NA.M20S.SS.C.16.K01 | M20 | 49 | 82 | 20 ... 20.2 | 5.5 | 20 | 18 | 15 | BP.NA.M16-M20S.PA | 1 |
| CG.NA.M20S.SS.C.16.K50 | M20 | 49 | 2.7 | 20 ... 20.2 | 5.5 | 20 | 18 | 15 | BP.NA.M16-M20S.PA | 50 |
| CG.NA.M20.SS.C.16.K01 | M20 | 69 | 97 | 20 ... 20.2 | 6 | 24 | 22 | 18 | BP.NA.M20-M25S.PA | 1 |
| CG.NA.M20.SS.C.16.K50 | M20 | 69 | 3.8 | 20 ... 20.2 | 6 | 24 | 22 | 18 | BP.NA.M20-M25S.PA | 50 |
| CG.NA.M25S.SS.C.16.K01 | M25 | 75 | 105 | 25 ... 25.2 | 6 | 25 | 22 | 18 | BP.NA.M20-M25S.PA | 1 |
| CG.NA.M25S.SS.C.16.K25 | M25 | 75 | 2.06 | 25 ... 25.2 | 6 | 25 | 22 | 18 | BP.NA.M20-M25S.PA | 25 |
| CG.NA.M25.SS.C.16.K01 | M25 | 110 | 154 | 25 ... 25.2 | 6 | 26 | 22 | - | BP.NA.M25-M32S.PA | 1 |
| CG.NA.M25.SS.C.16.K15 | M25 | 110 | 1.82 | 25 ... 25.2 | 6 | 26 | 22 | - | BP.NA.M25-M32S.PA | 15 |
| CG.NA.M32S.SS.C.16.K01 | M32 | 116 | 162 | 32 ... 32.3 | 6 | 28 | 23 | 20 | BP.NA.M25-M32S.PA | 1 |
| CG.NA.M32S.SS.C.16.K15 | M32 | 116 | 1.91 | 32 ... 32.3 | 6 | 28 | 23 | 20 | BP.NA.M25-M32S.PA | 15 |
| CG.NA.M40S.SS.C.18.K01 | M40 | 214 | 300 | 40 ... 40.3 | 12 | 56 | 50 | 45 | BP.NA.M32-M40S.PA | 1 |
| CG.NA.M40S.SS.C.18.K05 | M40 | 214 | 1.18 | 40 ... 40.3 | 12 | 56 | 50 | 45 | BP.NA.M32-M40S.PA | 5 |
| CG.NA.M50S.SS.C.18.K01 | M50 | 316 | 442 | 50 ... 50.3 | 18 | 57 | 55 | 52 | BP.NA.M40-M50S.PA | 1 |
| CG.NA.M50S.SS.C.18.K05 | M50 | 316 | 1.74 | 50 ... 50.3 | 18 | 57 | 55 | 52 | BP.NA.M40-M50S.PA | 5 |
| CG.NA.M50.SS.C.18.K01 | M50 | 412 | 577 | 50 ... 50.3 | 18 | 190 | 155 | 140 | BP.NA.M50-M63S.PA | 1 |
| CG.NA.M50.SS.C.18.K04 | M50 | 412 | 1.81 | 50 ... 50.3 | 18 | 190 | 155 | 140 | BP.NA.M50-M63S.PA | 4 |
| CG.NA.M63S.SS.C.18.K01 | M63 | 464 | 650 | 63 ... 63.3 | 25 | 190 | 155 | 140 | BP.NA.M50-M63S.PA | 1 |
| CG.NA.M63S.SS.C.18.K04 | M63 | 464 | 2.04 | 63 ... 63.3 | 25 | 190 | 155 | 140 | BP.NA.M50-M63S.PA | 4 |
| CG.NA.M63.SS.C.18.K01 | M63 | 779 | 843 | 63 ... 63.3 | 25 | 160 | 145 | 135 | BP.NA.M63-M75S.PA | 1 |
| CG.NA.M63.SS.C.18.K02 | M63 | 779 | 1.71 | 63 ... 63.3 | 25 | 160 | 145 | 135 | BP.NA.M63-M75S.PA | 2 |

A = Component [g]
B = Packaging unit [g] / [kg]
C = Delivery quantity
TD = Threadsize
*Knn: scope of delivery see table technical data

**Dimensions NPT - Brass Nickel-plated**

| Type | Thread size | Clamping range [mm] seal insert combinations | | | | Dimensions [mm] | | | | | | UL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TD | D | S1+S2+S3 | S1+S2 | S1 | H | L | TL | D2 | SW1 | SW2 | |
| CG.NA.NPT3/8.BN.C.16.* | NPT 3/8" | 4 ... 12 | 4 ... 6 | 6 ... 9 | 9 ... 12 | 33 | 49 | 16 | 24.5 | 22 | 22 | - |
| CG.NA.NPT1/2S.BN.C.16.* | NPT 1/2" | 4 ... 12 | 4 ... 6 | 6 ... 9 | 9 ... 12 | 29 | 45 | 16 | 26.5 | 24 | 22 | X |
| CG.NA.NPT1/2.BN.C.16.* | NPT 1/2" | 10 ... 16 | 10 ... 12 | 12 ... 14.5 | 14.5 ... 16 | 32 | 48 | 16 | 31 | 28 | 28 | X |
| CG.NA.NPT3/4S.BN.C.16.* | NPT 3/4" | 10 ... 18 | 10 ... 12 | 12 ... 14.5 | 14.5 ... 18 | 32 | 48 | 16 | 31 | 28 | 28 | X |
| CG.NA.NPT3/4.BN.C.16.* | NPT 3/4" | 14 ... 20 | 14 ... 17 | 17 ... 20 | - | 35 | 51 | 16 | 39 | 35 | 35 | X |
| CG.NA.NPT1S.BN.C.20.* | NPT 1" | 14 ... 24 | 14 ... 17 | 17 ... 20 | 20 ... 24 | 35 | 55 | 20 | 39 | 35 | 35 | X |
| CG.NA.NPT1.BN.C.20.* | NPT 1" | 22 ... 26 | 22 ... 24 | 24 ... 26 | - | 42 | 62 | 20 | 49.5 | 45 | 45 | X |
| CG.NA.NPT1-1/4S.BN.C.20.* | NPT 1-1/4" | 22 ... 32 | 22 ... 24 | 24 ... 27 | 27 ... 32 | 42.5 | 62.5 | 20 | 49.5 | 45 | 45 | X |
| CG.NA.NPT1-1/4.BN.C.20.* | NPT 1-1/4" | 26 ... 34 | 26 ... 28 | 28 ... 31 | 31 ... 34 | 45.5 | 65.5 | 20 | 55.5 | 50 | 50 | X |
| CG.NA.NPT1-1/2S.BN.C.20.* | NPT 1-1/2" | 26 ... 35 | 26 ... 28 | 28 ... 31 | 31 ... 35 | 45.5 | 65.5 | 20 | 61 | 55 | 50 | X |
| CG.NA.NPT1-1/2.BN.C.20.* | NPT 1-1/2" | 35 ... 41 | 35 ... 38 | 38 ... 41 | - | 44 | 64 | 20 | 70 | 64 | 64 | X |
| CG.NA.NPT2S.BN.C.20.* | NPT 2" | 35 ... 45 | 35 ... 38 | 38 ... 41 | 41 ... 45 | 45 | 65 | 20 | 75 | 68 | 64 | X |

UL: X = UL approved

**Details and Accessories NPT - Brass Nickel-plated**

| Type | TD | Mass approx. | | Diameter thru-hole [mm] | Nut torques [Nm] seal insert combi-nations | | | | Sealing plugs | C |
|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | DT | SW1 | SW2 S1+S2+S3 | SW2 S1+S2 | SW2 S1 | | |
| CG.NA.NPT3/ 8.BN.C.16.K01 | NPT 3/8" | 56 | 67 | 17.2 ... 17.4 | 4 | 20 | 18 | 16 | BP.NA.M16-M20S.PA | 1 |
| CG.NA.NPT3/ 8.BN.C.16.K50 | NPT 3/8" | 56 | 3.08 | 17.2 ... 17.4 | 4 | 20 | 18 | 16 | BP.NA.M16-M20S.PA | 50 |
| CG.NA.NPT1/ 2S.BN.C.16.K01 | NPT 1/2" | 54 | 2.97 | 21.4 ... 21.6 | 8 | 20 | 18 | 15 | BP.NA.M16-M20S.PA | 1 |
| CG.NA.NPT1/ 2S.BN.C.16.K50 | NPT 1/2" | 54 | 2.97 | 21.4 ... 21.6 | 8 | 20 | 18 | 15 | BP.NA.M16-M20S.PA | 50 |
| CG.NA.NPT1/ 2.BN.C.16.K01 | NPT 1/2" | 72 | 92 | 21.4 ... 21.6 | 8 | 24 | 22 | 18 | BP.NA.M20-M25S.PA | 1 |
| CG.NA.NPT1/ 2.BN.C.16.K50 | NPT 1/2" | 72 | 3.96 | 21.4 ... 21.6 | 8 | 24 | 22 | 18 | BP.NA.M20-M25S.PA | 50 |
| CG.NA.NPT3/ 4S.BN.C.16.K01 | NPT 3/4" | 85 | 102 | 26.7 ... 26.9 | 10 | 25 | 22 | 18 | BP.NA.M20-M25S.PA | 1 |
| CG.NA.NPT3/ 4S.BN.C.16.K25 | NPT 3/4" | 85 | 2.34 | 26.7 ... 26.9 | 10 | 25 | 22 | 18 | BP.NA.M20-M25S.PA | 25 |
| CG.NA.NPT3/ 4.BN.C.16.K01 | NPT 3/4" | 119 | 143 | 26.7 ... 26.9 | 10 | 26 | 22 | - | BP.NA.M25-M32S.PA | 1 |
| CG.NA.NPT3/ 4.BN.C.16.K15 | NPT 3/4" | 119 | 1.96 | 26.7 ... 26.9 | 10 | 26 | 22 | - | BP.NA.M25-M32S.PA | 15 |
| CG.NA.NPT1S.B N.C.20.K01 | NPT 1" | 134 | 161 | 33.5 ... 33.7 | 8 | 28 | 23 | 20 | BP.NA.M25-M32S.PA | 1 |
| CG.NA.NPT1S.B N.C.20.K15 | NPT 1" | 134 | 2.21 | 33.5 ... 33.7 | 8 | 28 | 23 | 20 | BP.NA.M25-M32S.PA | 15 |
| CG.NA.NPT1.BN. C.20.K01 | NPT 1" | 131 | 157 | 33.5 ... 33.7 | 8 | 45 | 40 | - | BP.NA.M32-M40S.PA | 1 |
| CG.NA.NPT1.BN. C.20.K05 | NPT 1" | 131 | 720 | 33.5 ... 33.7 | 8 | 45 | 40 | - | BP.NA.M32-M40S.PA | 5 |
| CG.NA.NPT1-1/ 4S.BN.C.20.K01 | NPT 1-1/4" | 232 | 278 | 42.2 ... 42.4 | 10 | 56 | 50 | 45 | BP.NA.M32-M40S.PA | 1 |
| CG.NA.NPT1-1/ 4S.BN.C.20.K05 | NPT 1-1/4" | 232 | 1.28 | 42.2 ... 42.4 | 10 | 56 | 50 | 45 | BP.NA.M32-M40S.PA | 5 |
| CG.NA.NPT1-1/ 4.BN.C.20.K01 | NPT 1-1/4" | 292 | 350 | 42.2 ... 42.4 | 10 | 57 | 55 | 52 | BP.NA.M40-M50S.PA | 1 |
| CG.NA.NPT1-1/ 4.BN.C.20.K05 | NPT 1-1/4" | 292 | 1.61 | 42.2 ... 42.4 | 10 | 57 | 55 | 52 | BP.NA.M40-M50S.PA | 5 |
| CG.NA.NPT1-1/ 2S.BN.C.20.K01 | NPT 1-1/2" | 343 | 412 | 48.3 ... 48.5 | 12 | 57 | 55 | 52 | BP.NA.M40-M50S.PA | 1 |
| CG.NA.NPT1-1/ 2S.BN.C.20.K05 | NPT 1-1/2" | 343 | 1.89 | 48.3 ... 48.5 | 12 | 57 | 55 | 52 | BP.NA.M40-M50S.PA | 5 |
| CG.NA.NPT1-1/ 2.BN.C.20.K01 | NPT 1-1/2" | 422 | 506 | 48.3 ... 48.5 | 12 | 190 | 155 | - | BP.NA.M50-M63S.PA | 1 |
| CG.NA.NPT1-1/ 2.BN.C.20.K04 | NPT 1-1/2" | 422 | 1.86 | 48.3 ... 48.5 | 12 | 190 | 155 | - | BP.NA.M50-M63S.PA | 4 |
| CG.NA.NPT2S.B N.C.20.K01 | NPT 2" | 465 | 558 | 60.4 ... 60.7 | 40 | 190 | 155 | 140 | BP.NA.M50-M63S.PA | 1 |
| CG.NA.NPT2S.B N.C.20.K04 | NPT 2" | 465 | 2.05 | 60.4 ... 60.7 | 40 | 190 | 155 | 140 | BP.NA.M50-M63S.PA | 4 |

A = Component [g]
B = Packaging unit [g] / [kg]
C = Delivery quantity
TD = Threadsize
*Knn: scope of delivery see table technical data

**Dimensions NPT - Stainless Steel**

| Type | Thread size | Clamping range [mm] seal insert combinations | | | | Dimensions [mm] | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TD | D | S1+S2+S3 | S1+S2 | S1 | H | L | TL | D2 | SW 1 | SW 2 | UL |
| CG.NA.NPT3/8.SS.C.16.* | NPT 3/8" | 4 ... 12 | 4 ... 6 | 6 ... 9 | 9 ... 12 | 33 | 49 | 16 | 24.5 | 22 | 22 | - |
| CG.NA.NPT1/2S.SS.C.16.* | NPT 1/2" | 4 ... 12 | 4 ... 6 | 6 ... 9 | 9 ... 12 | 29 | 45 | 16 | 26.5 | 24 | 22 | X |
| CG.NA.NPT1/2.SS.C.16.* | NPT 1/2" | 10 ... 16 | 10 ... 12 | 12 ... 14.5 | 14.5 ... 16 | 32 | 48 | 16 | 31 | 28 | 28 | X |
| CG.NA.NPT3/4S.SS.C.16.* | NPT 3/4" | 10 ... 18 | 10 ... 12 | 12 ... 14.5 | 14.5 ... 18 | 32 | 48 | 16 | 31 | 28 | 28 | X |
| CG.NA.NPT3/4.SS.C.16.* | NPT 3/4" | 14 ... 20 | 14 ... 17 | 17 ... 20 | - | 35 | 51 | 16 | 39 | 35 | 35 | X |
| CG.NA.NPT1S.SS.C.20.* | NPT 1" | 14 ... 24 | 14 ... 17 | 17 ... 20 | 20 ... 24 | 35 | 55 | 20 | 39 | 35 | 35 | X |
| CG.NA.NPT1.SS.C.20.* | NPT 1" | 22 ... 26 | 22 ... 24 | 24 ... 26 | - | 42 | 62 | 20 | 49.5 | 45 | 45 | X |
| CG.NA.NPT1-1/4S.SS.C.20.* | NPT 1-1/4" | 22 ... 32 | 22 ... 24 | 24 ... 27 | 27 ... 32 | 42.5 | 62.5 | 20 | 49.5 | 45 | 45 | X |
| CG.NA.NPT1-1/4.SS.C.20.* | NPT 1-1/4" | 26 ... 34 | 26 ... 28 | 28 ... 31 | 31 ... 34 | 45.5 | 65.5 | 20 | 55.5 | 50 | 50 | X |
| CG.NA.NPT1-1/2S.SS.C.20.* | NPT 1-1/2" | 26 ... 35 | 26 ... 28 | 28 ... 31 | 31 ... 35 | 45.5 | 65.5 | 20 | 61 | 55 | 50 | X |
| CG.NA.NPT1-1/2.SS.C.20.* | NPT 1-1/2" | 35 ... 41 | 35 ... 38 | 38 ... 41 | - | 44 | 64 | 20 | 70 | 64 | 64 | X |
| CG.NA.NPT2S.SS.C.20.* | NPT 2" | 35 ... 45 | 35 ... 38 | 38 ... 41 | 41 ... 45 | 45 | 65 | 20 | 75 | 68 | 64 | X |

UL: X = UL approved

**Details and Accessories NPT - Stainless Steel**

| Type | TD | Mass approx. | | Diameter thru-hole [mm] | Nut torques [Nm] seal insert combinations | | | | Sealing plugs | C |
|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | DT | SW1 | SW2 S1+S2+S3 | SW2 S1+S2 | SW2 S1 | | |
| CG.NA.NPT3/ 8.SS.C.16.K01 | NPT 3/8" | 49 | 59 | 17.2 ... 17.4 | 4 | 20 | 18 | 16 | BP.NA.M16-M20S.PA | 1 |
| CG.NA.NPT3/ 8.SS.C.16.K50 | NPT 3/8" | 49 | 2.7 | 17.2 ... 17.4 | 4 | 20 | 18 | 16 | BP.NA.M16-M20S.PA | 50 |
| CG.NA.NPT1/ 2S.SS.C.16.K01 | NPT 1/2" | 51 | 61 | 21.4 ... 21.6 | 8 | 20 | 18 | 15 | BP.NA.M16-M20S.PA | 1 |
| CG.NA.NPT1/ 2S.SS.C.16.K50 | NPT 1/2" | 51 | 2.81 | 21.4 ... 21.6 | 8 | 20 | 18 | 15 | BP.NA.M16-M20S.PA | 50 |
| CG.NA.NPT1/ 2.SS.C.16.K01 | NPT 1/2" | 78 | 94 | 21.4 ... 21.6 | 8 | 24 | 22 | 18 | BP.NA.M20-M25S.PA | 1 |
| CG.NA.NPT1/ 2.SS.C.16.K50 | NPT 1/2" | 78 | 4.29 | 21.4 ... 21.6 | 8 | 24 | 22 | 18 | BP.NA.M20-M25S.PA | 50 |
| CG.NA.NPT3/ 4S.SS.C.16.K01 | NPT 3/4" | 75 | 90 | 26.7 ... 26.9 | 10 | 25 | 22 | 18 | BP.NA.M20-M25S.PA | 1 |
| CG.NA.NPT3/ 4S.SS.C.16.K25 | NPT 3/4" | 75 | 2.06 | 26.7 ... 26.9 | 10 | 25 | 22 | 18 | BP.NA.M20-M25S.PA | 25 |
| CG.NA.NPT3/ 4.SS.C.16.K01 | NPT 3/4" | 118 | 142 | 26.7 ... 26.9 | 10 | 26 | 22 | - | BP.NA.M25-M32S.PA | 1 |
| CG.NA.NPT3/ 4.SS.C.16.K15 | NPT 3/4" | 118 | 1.95 | 26.7 ... 26.9 | 10 | 26 | 22 | - | BP.NA.M25-M32S.PA | 15 |
| CG.NA.NPT1S.SS. C.20.K01 | NPT 1" | 116 | 139 | 33.5 ... 33.7 | 8 | 28 | 23 | 20 | BP.NA.M25-M32S.PA | 1 |
| CG.NA.NPT1S.SS. C.20.K15 | NPT 1" | 116 | 1.91 | 33.5 ... 33.7 | 8 | 28 | 23 | 20 | BP.NA.M25-M32S.PA | 15 |
| CG.NA.NPT1.SS.C .20.K01 | NPT 1" | 118 | 142 | 33.5 ... 33.7 | 8 | 45 | 40 | - | BP.NA.M32-M40S.PA | 1 |
| CG.NA.NPT1.SS.C .20.K05 | NPT 1" | 118 | 650 | 33.5 ... 33.7 | 8 | 45 | 40 | - | BP.NA.M32-M40S.PA | 5 |
| CG.NA.NPT1-1/ 4S.SS.C.20.K01 | NPT 1-1/4" | 212 | 254 | 42.2 ... 42.4 | 10 | 56 | 50 | 45 | BP.NA.M32-M40S.PA | 1 |
| CG.NA.NPT1-1/ 4S.SS.C.20.K05 | NPT 1-1/4" | 212 | 1.17 | 42.2 ... 42.4 | 10 | 56 | 50 | 45 | BP.NA.M32-M40S.PA | 5 |
| CG.NA.NPT1-1/ 4.SS.C.20.K01 | NPT 1-1/4" | 285 | 342 | 42.2 ... 42.4 | 10 | 57 | 55 | 52 | BP.NA.M40-M50S.PA | 1 |
| CG.NA.NPT1-1/ 4.SS.C.20.K05 | NPT 1-1/4" | 285 | 1.57 | 42.2 ... 42.4 | 10 | 57 | 55 | 52 | BP.NA.M40-M50S.PA | 5 |
| CG.NA.NPT1-1/ 2S.SS.C.20.K01 | NPT 1-1/2" | 328 | 394 | 48.3 ... 48.5 | 12 | 57 | 55 | 52 | BP.NA.M40-M50S.PA | 1 |
| CG.NA.NPT1-1/ 2S.SS.C.20.K05 | NPT 1-1/2" | 328 | 1.8 | 48.3 ... 48.5 | 12 | 57 | 55 | 52 | BP.NA.M40-M50S.PA | 5 |
| CG.NA.NPT1-1/ 2.SS.C.20.K01 | NPT 1-1/2" | 352 | 422 | 48.3 ... 48.5 | 12 | 190 | 155 | - | BP.NA.M50-M63S.PA | 1 |
| CG.NA.NPT1-1/ 2.SS.C.20.K04 | NPT 1-1/2" | 352 | 1.55 | 48.3 ... 48.5 | 12 | 190 | 155 | - | BP.NA.M50-M63S.PA | 4 |
| CG.NA.NPT2S.SS. C.20.K01 | NPT 2" | 463 | 556 | 60.4 ... 60.7 | 40 | 190 | 155 | 140 | BP.NA.M50-M63S.PA | 1 |
| CG.NA.NPT2S.SS. C.20.K04 | NPT 2" | 463 | 2.04 | 60.4 ... 60.7 | 40 | 190 | 155 | 140 | BP.NA.M50-M63S.PA | 4 |

A = Component [g]
B = Packaging unit [g] / [kg]
C = Delivery quantity
TD = Threadsize
*Knn: scope of delivery see table technical data

**Dimensions Metric - Brass Nickel-plated**

| Type | Thread size | Clamping range [mm] seal insert combinations | | | | Dimensions [mm] | | | | | | UL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TD | D | S1+S2+S3 | S1+S2 | S1 | H | L | TL | D2 | SW1 | SW2 | |
| CG.EM.M16.BN.C.16.* | M16 | 4...8 | - | 4...6 | 6...8 | 30.5 | 46.5 | 16 | 22 | 20 | 20 | - |
| CG.EM.M20.BN.C.18.* | M20 | 4...12 | 4...6 | 6...9 | 9...12 | 28.5 | 46.5 | 18 | 26.5 | 24 | 20 | X |
| CG.EM.M25.BN.C.16.* | M25 | 10...18 | 10...12 | 12...14.5 | 14.5...18 | 32 | 48 | 16 | 31 | 28 | 28 | X |
| CG.EM.M32.BN.C.19.* | M32 | 14...24 | 14...17 | 17...20 | 20...24 | 35 | 54 | 19 | 39 | 35 | 35 | X |
| CG.EM.M40.BN.C.20.* | M40 | 22...32 | 22...24 | 24...27 | 27...32 | 42.5 | 62.5 | 20 | 49.5 | 45 | 45 | X |
| CG.EM.M50.BN.C.20.* | M50 | 26...35 | 26...28 | 28...31 | 31...35 | 48.5 | 68.5 | 20 | 61 | 55 | 50 | X |

UL: X = UL approved

**Details and Accessories Metric - Brass Nickel-plated**

| Type | TD | Mass approx. | | Diameter thru-hole [mm] | Nut torques [Nm] seal insert combinations | | | | Sealing plugs | C |
|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | DT | SW1 | SW2 S1+S2+S3 | SW2 S1+S2 | SW2 S1 | | |
| CG.EM.M16.BN.C.16.K01 | M16 | 58 | 87 | 16...16.2 | 4 | - | 25 | 18 | BP.NA.M16-M20S.PA | 1 |
| CG.EM.M16.BN.C.16.K50 | M16 | 58 | 3.19 | 16...16.2 | 4 | - | 25 | 18 | BP.NA.M16-M20S.PA | 50 |
| CG.EM.M20.BN.C.18.K01 | M20 | 56 | 85 | 20...20.2 | 5.5 | 20 | 18 | 15 | BP.NA.M16-M20S.PA | 1 |
| CG.EM.M20.BN.C.18.K50 | M20 | 56 | 3.08 | 20...20.2 | 5.5 | 20 | 18 | 15 | BP.NA.M16-M20S.PA | 50 |
| CG.EM.M25.BN.C.16.K01 | M25 | 61 | 92 | 25...25.2 | 6 | 25 | 22 | 18 | BP.NA.M20-M25S.PA | 1 |
| CG.EM.M25.BN.C.16.K25 | M25 | 61 | 1.68 | 25...25.2 | 6 | 25 | 22 | 18 | BP.NA.M20-M25S.PA | 25 |
| CG.EM.M32.BN.C.19.K01 | M32 | 116 | 174 | 32...32.3 | 6 | 28 | 20 | 18 | BP.NA.M25-M32S.PA | 1 |
| CG.EM.M32.BN.C.19.K15 | M32 | 116 | 1.91 | 32...32.3 | 6 | 28 | 20 | 18 | BP.NA.M25-M32S.PA | 15 |
| CG.EM.M40.BN.C.20.K01 | M40 | 197 | 296 | 40...40.3 | 15 | 56 | 50 | 45 | BP.NA.M32-M40S.PA | 1 |
| CG.EM.M40.BN.C.20.K05 | M40 | 197 | 1.08 | 40...40.3 | 15 | 56 | 50 | 45 | BP.NA.M32-M40S.PA | 5 |
| CG.EM.M50.BN.C.20.K01 | M50 | 332 | 498 | 50...50.3 | 18 | 57 | 55 | 52 | BP.NA.M40-M50S.PA | 1 |
| CG.EM.M50.BN.C.20.K05 | M50 | 332 | 1.83 | 50...50.3 | 18 | 57 | 55 | 52 | BP.NA.M40-M50S.PA | 5 |

A = Component [g]
B = Packaging unit [g] / [kg]
C = Delivery quantity
TD = Threadsize
*Knn: scope of delivery see table technical data

**Dimensions Metric - Stainless Steel**

| Type | Thread size | Clamping range [mm] seal insert combinations | | | | Dimensions [mm] | | | | | | UL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TD | D | S1+S2+S3 | S1+S2 | S1 | H | L | TL | D2 | SW1 | SW2 | |
| CG.EM.M16.SS.C.16.* | M16 | 4...8 | - | 4...6 | 6...8 | 30.5 | 46.5 | 16 | 22 | 20 | 20 | - |
| CG.EM.M20.SS.C.18.* | M20 | 4...12 | 4...6 | 6...9 | 9...12 | 28.5 | 46.5 | 18 | 26.5 | 24 | 20 | X |
| CG.EM.M25.SS.C.16.* | M25 | 10...18 | 10...12 | 12...14.5 | 14.5...18 | 32 | 48 | 16 | 31 | 28 | 28 | X |
| CG.EM.M32.SS.C.19.* | M32 | 14...24 | 14...17 | 17...20 | 20...24 | 35 | 54 | 19 | 39 | 35 | 35 | X |
| CG.EM.M40.SS.C.20.* | M40 | 22...32 | 22...24 | 24...27 | 27...32 | 42.5 | 62.5 | 20 | 49.5 | 45 | 45 | X |
| CG.EM.M50.SS.C.20.* | M50 | 26...35 | 26...28 | 28...31 | 31...35 | 48.5 | 68.5 | 20 | 61 | 55 | 50 | X |

UL: X = UL approved

**Details and Accessories Metric - Stainless Steel**

| Type | TD | Mass approx. | | Diameter thru-hole [mm] | Nut torques [Nm] seal insert combinations | | | | Sealing plugs | C |
|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | DT | SW1 | SW2 S1+S2+S3 | SW2 S1+S2 | SW2 S1 | | |
| CG.EM.M16.SS.C.16.K01 | M16 | 55 | 83 | 16...16.2 | 4 | - | 25 | 18 | BP.NA.M16-M20S.PA | 1 |
| CG.EM.M16.SS.C.16.K50 | M16 | 55 | 3.03 | 16...16.2 | 4 | - | 25 | 18 | BP.NA.M16-M20S.PA | 50 |
| CG.EM.M20.SS.C.18.K01 | M20 | 55 | 85 | 20...20.2 | 5.5 | 20 | 18 | 15 | BP.NA.M16-M20S.PA | 1 |
| CG.EM.M20.SS.C.18.K50 | M20 | 55 | 3.03 | 20...20.2 | 5.5 | 20 | 18 | 15 | BP.NA.M16-M20S.PA | 50 |
| CG.EM.M25.SS.C.16.K01 | M25 | 64 | 96 | 25...25.2 | 6 | 25 | 22 | 18 | BP.NA.M20-M25S.PA | 1 |
| CG.EM.M25.SS.C.16.K25 | M25 | 64 | 1.76 | 25...25.2 | 6 | 25 | 22 | 18 | BP.NA.M20-M25S.PA | 25 |
| CG.EM.M32.SS.C.19.K01 | M32 | 126 | 189 | 32...32.3 | 6 | 28 | 20 | 18 | BP.NA.M25-M32S.PA | 1 |
| CG.EM.M32.SS.C.19.K15 | M32 | 126 | 2.08 | 32...32.3 | 6 | 28 | 20 | 18 | BP.NA.M25-M32S.PA | 15 |
| CG.EM.M40.SS.C.20.K01 | M40 | 224 | 336 | 40...40.3 | 15 | 56 | 50 | 45 | BP.NA.M32-M40S.PA | 1 |
| CG.EM.M40.SS.C.20.K05 | M40 | 224 | 1.23 | 40...40.3 | 15 | 56 | 50 | 45 | BP.NA.M32-M40S.PA | 5 |
| CG.EM.M50.SS.C.20.K01 | M50 | 330 | 495 | 50...50.3 | 18 | 57 | 55 | 52 | BP.NA.M40-M50S.PA | 1 |
| CG.EM.M50.SS.C.20.K05 | M50 | 330 | 1.82 | 50...50.3 | 18 | 57 | 55 | 52 | BP.NA.M40-M50S.PA | 5 |

A = Component [g]
B = Packaging unit [g] / [kg]
C = Delivery quantity
TD = Threadsize

*Knn: scope of delivery see table technical data

**Dimensions NPT - Brass Nickel-plated**

| Type | Thread size | Clamping range [mm] seal insert combinations | | | | Dimensions [mm] | | | | | | UL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TD | D | S1+S2+S3 | S1+S2 | S1 | H | L | TL | D2 | SW1 | SW2 | |
| CG.EM.NPT3/8.BN.C.16.* | NPT 3/8" | 4...8 | - | 4...6 | 6...8 | 30.5 | 46.5 | 16 | 24.5 | 22 | 22 | - |
| CG.EM.NPT1/2.BN.C.18.* | NPT 1/2" | 4...12 | 4...6 | 6...9 | 9...12 | 28.5 | 46.5 | 18 | 26.5 | 24 | 22 | X |
| CG.EM.NPT3/4.BN.C.16.* | NPT 3/4" | 10...18 | 10...12 | 12...14.5 | 14.5...18 | 32.5 | 48.5 | 16 | 31 | 28 | 28 | X |
| CG.EM.NPT1.BN.C.20.* | NPT 1" | 14...24 | 14...17 | 17...20 | 20...24 | 35 | 55 | 20 | 39 | 35 | 35 | X |
| CG.EM.NPT1-1/4.BN.C.20.* | NPT 1-1/4" | 22...32 | 22...24 | 24...27 | 27...32 | 42.5 | 62.5 | 20 | 49.5 | 45 | 45 | X |
| CG.EM.NPT1-1/2.BN.C.20.* | NPT 1-1/2" | 26...35 | 26...28 | 28...31 | 31...35 | 45 | 65 | 20 | 61 | 55 | 50 | X |

UL: X = UL approved

**Details and Accessories NPT - Brass Nickel-plated**

| Type | TD | Mass approx. | | Diameter thru-hole [mm] | Nut torques [Nm] seal insert combinations | | | | Sealing plugs | C |
|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | DT | SW1 | SW2 S1+S2+S3 | SW2 S1+S2 | SW2 S1 | | |
| CG.EM.NPT3/8.BN.C.16.K01 | NPT 3/8" | 63 | 82 | 17.2...17.4 | 4 | - | 25 | 18 | BP.NA.M16-M20S.PA | 1 |
| CG.EM.NPT3/8.BN.C.16.K50 | NPT 3/8" | 63 | 3.47 | 17.2...17.4 | 4 | - | 25 | 18 | BP.NA.M16-M20S.PA | 50 |
| CG.EM.NPT1/2.BN.C.18.K01 | NPT 1/2" | 55 | 70 | 21.4...21.6 | 8 | 20 | 18 | 15 | BP.NA.M16-M20S.PA | 1 |
| CG.EM.NPT1/2.BN.C.18.K50 | NPT 1/2" | 55 | 3.03 | 21.4...21.6 | 8 | 20 | 18 | 15 | BP.NA.M16-M20S.PA | 50 |
| CG.EM.NPT3/4.BN.C.16.K01 | NPT 3/4" | 81 | 105 | 26.7...26.9 | 10 | 25 | 22 | 18 | BP.NA.M20-M25S.PA | 1 |
| CG.EM.NPT3/4.BN.C.16.K25 | NPT 3/4" | 81 | 2.23 | 26.7...26.9 | 10 | 25 | 22 | 18 | BP.NA.M20-M25S.PA | 25 |
| CG.EM.NPT1.BN.C.20.K01 | NPT 1" | 135 | 176 | 33.5...33.7 | 10 | 28 | 20 | 18 | BP.NA.M25-M32S.PA | 1 |
| CG.EM.NPT1.BN.C.20.K15 | NPT 1" | 135 | 2.23 | 33.5...33.7 | 10 | 28 | 20 | 18 | BP.NA.M25-M32S.PA | 15 |
| CG.EM.NPT1-1/4.BN.C.20.K01 | NPT 1-1/4" | 226 | 294 | 42.2...42.4 | 10 | 56 | 50 | 45 | BP.NA.M32-M40S.PA | 1 |
| CG.EM.NPT1-1/4.BN.C.20.K05 | NPT 1-1/4" | 226 | 1.24 | 42.2...42.4 | 10 | 56 | 50 | 45 | BP.NA.M32-M40S.PA | 5 |
| CG.EM.NPT1-1/2.BN.C.20.K01 | NPT 1-1/2" | 311 | 404 | 48.3...48.5 | 12 | 57 | 55 | 52 | BP.NA.M40-M50S.PA | 1 |
| CG.EM.NPT1-1/2.BN.C.20.K05 | NPT 1-1/2" | 311 | 1.71 | 48.3...48.5 | 12 | 57 | 55 | 52 | BP.NA.M40-M50S.PA | 5 |

A = Component [g]
B = Packaging unit [g] / [kg]
C = Delivery quantity
TD = Threadsize
*Knn: scope of delivery see table technical data

**Dimensions NPT - Stainless Steel**

| Type | Thread size | Clamping range [mm] seal insert combinations | | | | Dimensions [mm] | | | | | | UL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TD | D | S1+S2+S3 | S1+S2 | S1 | H | L | TL | D2 | SW1 | SW2 | |
| CG.EM.NPT3/8.SS.C.16.* | NPT 3/8" | 4...8 | - | 4...6 | 6...8 | 30.5 | 46.5 | 16 | 24.5 | 22 | 22 | - |
| CG.EM.NPT1/2.SS.C.18.* | NPT 1/2" | 4...12 | 4...6 | 6...9 | 9...12 | 28.5 | 46.5 | 18 | 26.5 | 24 | 22 | X |
| CG.EM.NPT3/4.SS.C.16.* | NPT 3/4" | 10...18 | 10...12 | 12...14.5 | 14.5...18 | 32.5 | 48.5 | 16 | 31 | 28 | 28 | X |
| CG.EM.NPT1.SS.C.20.* | NPT 1" | 14...24 | 14...17 | 17...20 | 20...24 | 35 | 55 | 20 | 39 | 35 | 35 | X |
| CG.EM.NPT1-1/4.SS.C.20.* | NPT 1-1/4" | 22...32 | 22...24 | 24...27 | 27...32 | 42.5 | 62.5 | 20 | 49.5 | 45 | 45 | X |
| CG.EM.NPT1-1/2.SS.C.20.* | NPT 1-1/2" | 26...35 | 26...28 | 28...31 | 31...35 | 45 | 65 | 20 | 61 | 55 | 50 | X |

UL: X = UL approved

**Details and Accessories NPT - Stainless Steel**

| Type | TD | Mass approx. | | Diameter thru-hole [mm] | Nut torques [Nm] seal insert combinations | | | | Sealing plugs | C |
|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | DT | SW1 | SW2 S1+S2+S3 | SW2 S1+S2 | SW2 S1 | | |
| CG.EM.NPT3/8.SS.C.16.K01 | NPT 3/8" | 32 | 42 | 17.2...17.4 | 4 | - | 25 | 18 | BP.NA.M16-M20S.PA | 1 |
| CG.EM.NPT3/8.SS.C.16.K50 | NPT 3/8" | 32 | 1.76 | 17.2...17.4 | 4 | - | 25 | 18 | BP.NA.M16-M20S.PA | 50 |
| CG.EM.NPT1/2.SS.C.18.K01 | NPT 1/2" | 39 | 51 | 21.4...21.6 | 8 | 20 | 18 | 15 | BP.NA.M16-M20S.PA | 1 |
| CG.EM.NPT1/2.SS.C.18.K50 | NPT 1/2" | 39 | 2.15 | 21.4...21.6 | 8 | 20 | 18 | 15 | BP.NA.M16-M20S.PA | 50 |
| CG.EM.NPT3/4.SS.C.16.K01 | NPT 3/4" | 43 | 56 | 26.7...26.9 | 10 | 25 | 22 | 18 | BP.NA.M20-M25S.PA | 1 |
| CG.EM.NPT3/4.SS.C.16.K25 | NPT 3/4" | 43 | 1.18 | 26.7...26.9 | 10 | 25 | 22 | 18 | BP.NA.M20-M25S.PA | 25 |
| CG.EM.NPT1.SS.C.20.K01 | NPT 1" | 88 | 114 | 33.5...33.7 | 10 | 28 | 20 | 18 | BP.NA.M25-M32S.PA | 1 |
| CG.EM.NPT1.SS.C.20.K15 | NPT 1" | 88 | 1.45 | 33.5...33.7 | 10 | 28 | 20 | 18 | BP.NA.M25-M32S.PA | 15 |
| CG.EM.NPT1-1/4.SS.C.20.K01 | NPT 1-1/4" | 113 | 147 | 42.2...42.4 | 10 | 56 | 50 | 45 | BP.NA.M32-M40S.PA | 1 |
| CG.EM.NPT1-1/4.SS.C.20.K05 | NPT 1-1/4" | 113 | 620 | 42.2...42.4 | 10 | 56 | 50 | 45 | BP.NA.M32-M40S.PA | 5 |
| CG.EM.NPT1-1/2.SS.C.20.K01 | NPT 1-1/2" | 336 | 437 | 48.3...48.5 | 12 | 57 | 55 | 52 | BP.NA.M40-M50S.PA | 1 |
| CG.EM.NPT1-1/2.SS.C.20.K05 | NPT 1-1/2" | 336 | 1.85 | 48.3...48.5 | 12 | 57 | 55 | 52 | BP.NA.M40-M50S.PA | 5 |

A = Component [g]
B = Packaging unit [g] / [kg]
C = Delivery quantity
TD = Threadsize
*Knn: scope of delivery see table technical data