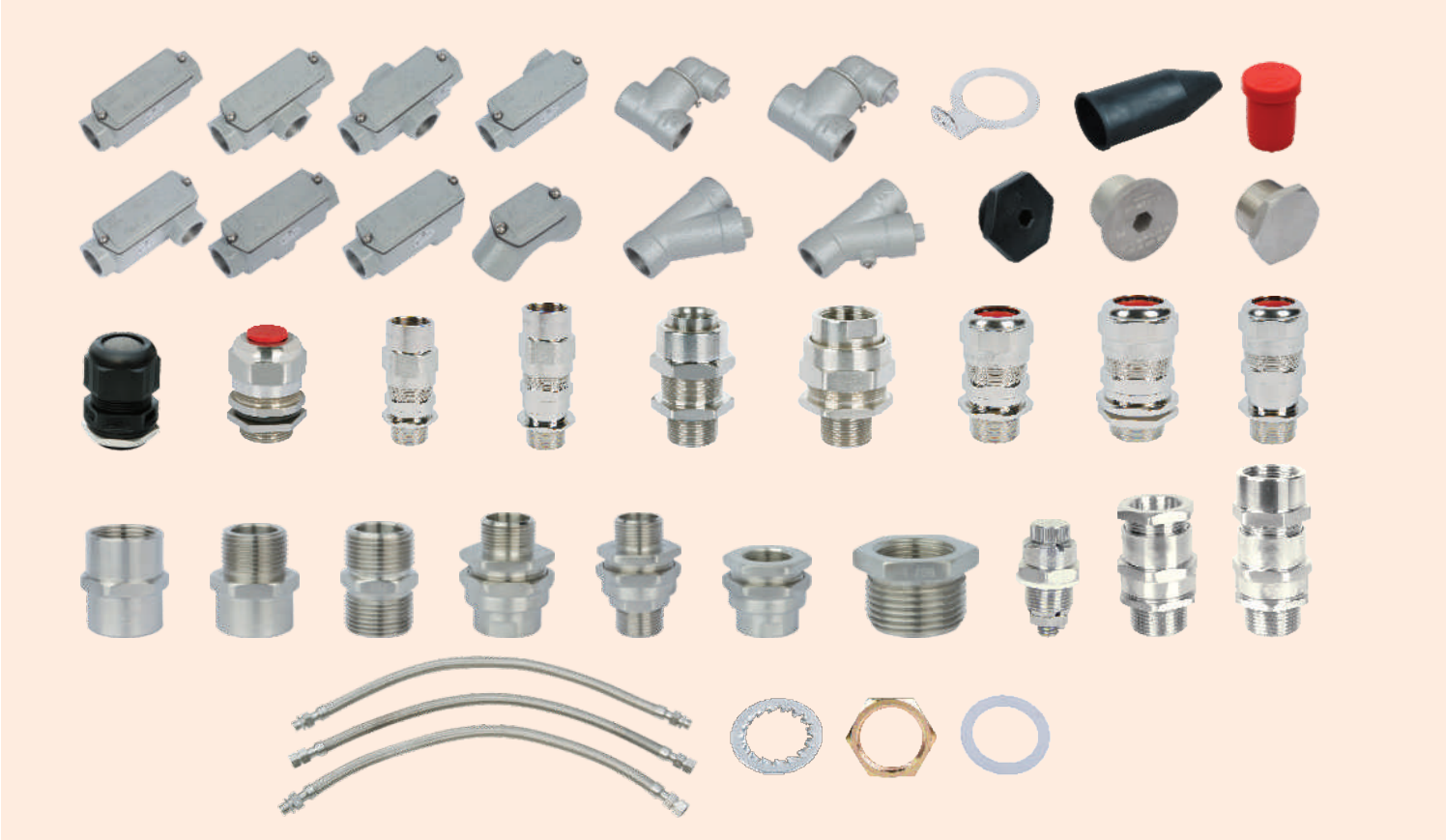

# Cable Glands and Bushings Взрывозащищенные соединители серии BGJ

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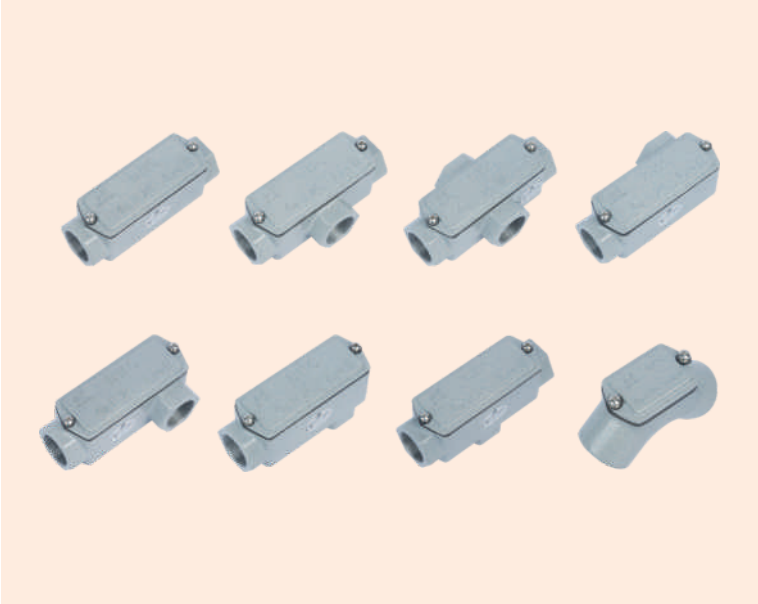
More products are under development. Please contact us or visit our website for the latest product development. We reserve the right to make alteration to the technical data, weight, dimensions, designs and products available without notice.

# Accessories for Installation Принадлежности для установки
# BHC Series Explosion-proof Aluminium Alloy Bushings
# Серия взрывозащищенных втулок из алюминиевого сплава



- Explosion protection to
  - -CENELEC
  - -IEC
  - -NEC
- Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
  - Class I, Zone 1 and Zone 2
  - Class I, Division 2, Groups A , B, C, D
- Ex e enclosure, copper-free aluminium, powder coated surface.
- Widely used for connection in steel pipe wiring system.

## Catalogue number logic

BHC - □ □ □

- Size
- Thread
  - M: Metric thread
  - NPT: NPT thread
  - G: Pipe thread
- Type: A, B, C, D, E, F, G, H
- Explosion-proof bushings

## Technical data

### Explosion-proof aluminium alloy bushings BHC-□□□

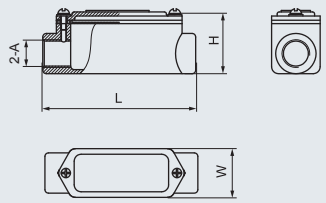
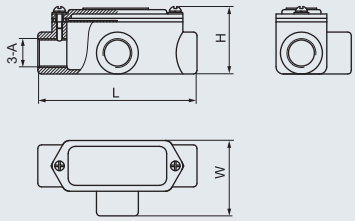
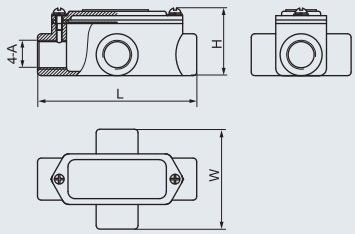
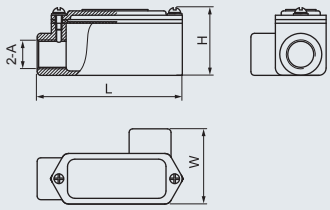
| | |
|---|---|
| **Explosion protection** | |
| Gas explosion protection | Ex II 2 G Ex e IIC Gb |
| Dust explosion protection | Ex II 2 D Ex tb IIIC Db IP66 |
| **Certificates** | LCIE 06 ATEX 6017; IECEx LCI 08.0004; RU C-CN.ГБ08.B.00927(CU-TR) |
| **Conformity to standards** | EN 60079-0, EN 60079-7, EN 60079-31<br>IEC 60079-0, IEC 60079-7, IEC 60079-31 |
| **Enclosure material** | Copper-free aluminium, powder coated surface. |
| **Enclosure colour** | Window grey (RAL7040) |
| **Degree of protection** | IP66 |
| **Ambient temperature** | -60 ~+100 |
| **Type** | A, B, C, D, E, F, G, H |
| **Connection thread** | 1. Metric thread is standard type; G thread or NPT thread is optional.<br>2. Metric threads are 1.5mm pitch as standard, others thread pitch can be customized, please specify when ordering. |

**Note**: M75, M90, M115 equivalent G thread and NPT thread can be customized.

# Zones 1&2; 21&22

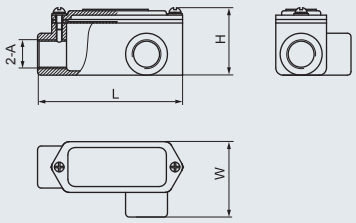
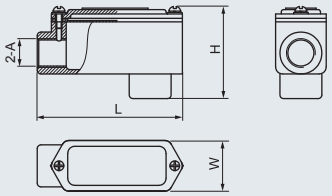
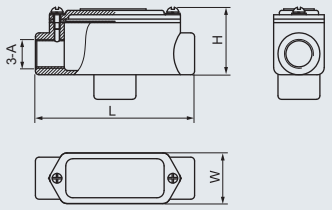
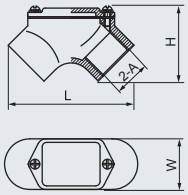
# Accessories for Installation
# BHC Series Explosion-proof Aluminium Alloy Bushings

## Selection table

| Version | Female thread "A" | | | Dimensions (mm) | | | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| | Metric | NPT | G | W | H | L | | |
|   Type A | M20 | 1/2" | 1/2" | 35 | 45 | 110 | 701001 | 0.15 |
| | M25 | 3/4" | 3/4" | 38 | 49 | 118 | 701002 | 0.20 |
| | M32 | 1" | 1" | 45 | 54 | 145 | 701003 | 0.35 |
| | M40 | 1 1/4" | 1 1/4" | 54 | 65 | 170 | 701004 | 0.50 |
| | M50 | 1 1/2" | 1 1/2" | 60 | 71 | 176 | 701005 | 0.60 |
| | M63 | 2" | 2" | 72 | 83 | 204 | 701006 | 0.65 |
|   Type B | M20 | 1/2" | 1/2" | 52 | 45 | 110 | 701007 | 0.20 |
| | M25 | 3/4" | 3/4" | 55 | 49 | 118 | 701008 | 0.20 |
| | M32 | 1" | 1" | 63.5 | 54 | 145 | 701009 | 0.35 |
| | M40 | 1 1/4" | 1 1/4" | 71 | 65 | 170 | 701010 | 0.50 |
| | M50 | 1 1/2" | 1 1/2" | 80 | 71 | 176 | 701011 | 0.65 |
| | M63 | 2" | 2" | 93.5 | 83 | 204 | 701012 | 1.20 |
|   Type C | M20 | 1/2" | 1/2" | 69 | 45 | 110 | 701013 | 0.20 |
| | M25 | 3/4" | 3/4" | 72 | 49 | 118 | 701014 | 0.25 |
| | M32 | 1" | 1" | 80 | 54 | 145 | 701015 | 0.40 |
| | M40 | 1 1/4" | 1 1/4" | 88 | 65 | 170 | 701016 | 0.55 |
| | M50 | 1 1/2" | 1 1/2" | 100 | 71 | 176 | 701017 | 0.65 |
| | M63 | 2" | 2" | 115 | 83 | 204 | 701018 | 1.20 |
|   Type D | M20 | 1/2" | 1/2" | 52 | 45 | 101 | 701019 | 0.20 |
| | M25 | 3/4" | 3/4" | 55 | 49 | 108 | 701020 | 0.20 |
| | M32 | 1" | 1" | 63 | 54 | 135 | 701021 | 0.35 |
| | M40 | 1 1/4" | 1 1/4" | 71 | 65 | 162.5 | 701022 | 0.50 |
| | M50 | 1 1/2" | 1 1/2" | 80 | 71 | 165.5 | 701023 | 0.60 |
| | M63 | 2" | 2" | 93.5 | 83 | 194.5 | 701024 | 1.20 |

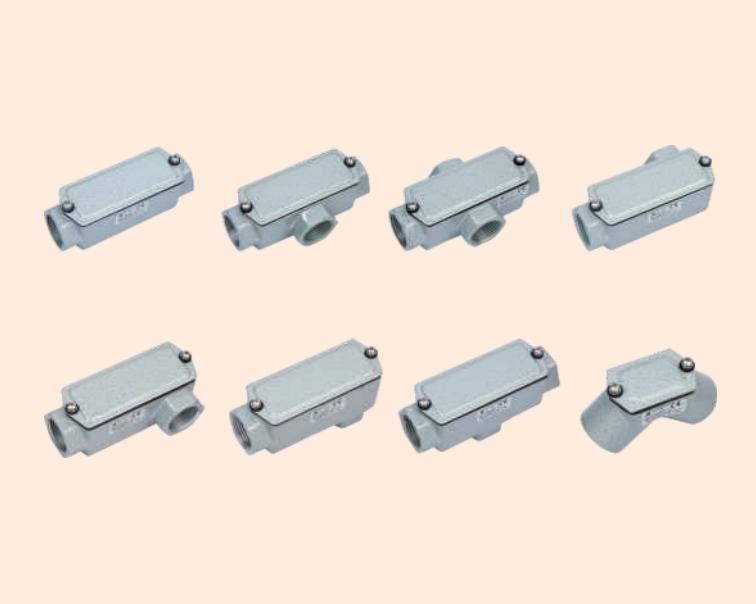
# Accessories for Installation
# BHC Series Explosion-proof Aluminium Alloy Bushings

## Selection table

| Version | Female thread "A" | | | Dimensions (mm) | | | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| | Metric | NPT | G | W | H | L | | |
|   Type E | M20 | 1/2" | 1/2" | 52 | 45 | 101 | 701025 | 0.20 |
| | M25 | 3/4" | 3/4" | 55 | 49 | 108 | 701026 | 0.20 |
| | M32 | 1" | 1" | 63 | 54 | 135 | 701027 | 0.35 |
| | M40 | 1 1/4" | 1 1/4" | 71 | 65 | 162.5 | 701028 | 0.50 |
| | M50 | 1 1/2" | 1 1/2" | 80 | 71 | 165.5 | 701029 | 0.60 |
| | M63 | 2" | 2" | 93.5 | 83 | 194.5 | 701030 | 1.20 |
|   Type F | M20 | 1/2" | 1/2" | 35 | 62 | 101 | 701031 | 0.20 |
| | M25 | 3/4" | 3/4" | 38 | 66 | 108 | 701032 | 0.20 |
| | M32 | 1" | 1" | 46 | 71 | 135 | 701033 | 0.50 |
| | M40 | 1 1/4" | 1 1/4" | 54 | 82 | 162.5 | 701034 | 0.50 |
| | M50 | 1 1/2" | 1 1/2" | 60 | 91 | 165.5 | 701035 | 0.60 |
| | M63 | 2" | 2" | 72 | 104 | 194.5 | 701036 | 1.15 |
|   Type G | M20 | 1/2" | 1/2" | 35 | 62 | 110 | 701037 | 0.20 |
| | M25 | 3/4" | 3/4" | 38 | 66 | 118 | 701038 | 0.20 |
| | M32 | 1" | 1" | 46 | 71 | 145 | 701039 | 0.35 |
| | M40 | 1 1/4" | 1 1/4" | 54 | 82 | 170 | 701040 | 0.50 |
| | M50 | 1 1/2" | 1 1/2" | 60 | 91 | 176 | 701041 | 0.60 |
| | M63 | 2" | 2" | 72 | 104 | 204 | 701042 | 1.20 |
|   Type H | M20 | 1/2" | 1/2" | 30 | 51 | 84 | 701043 | 0.10 |
| | M25 | 3/4" | 3/4" | 35 | 53 | 89 | 701044 | 0.15 |
| | M32 | 1" | 1" | 41 | 64 | 108 | 701045 | 0.25 |
| | M40 | 1 1/4" | 1 1/4" | 51 | 69 | 116 | 701046 | 0.25 |
| | M50 | 1 1/2" | 1 1/2" | 57 | 76 | 130 | 701047 | 0.35 |
| | M63 | 2" | 2" | 70 | 95 | 168 | 701048 | 0.55 |

# Accessories for Installation
# BHC Series Explosion-proof Cast Iron Bushings

Explosion protection to
-CENELEC
-IEC
-NEC
Can be used in
Zone 1 and Zone 2
Zone 21 and Zone 22
Class I, Zone 1 and Zone 2
Class I, Division 2, Groups A , B, C, D
Ex e enclosure, cast iron, powder coated surface.
Widely used for connection in steel pipe wiring system.



## Catalogue number logic

BHC - □ □ □

- Size
- Thread
  - M: Metric thread
  - NPT: NPT thread
  - G: Pipe thread
- Type: A, B, C, D, E, F, G, H
- Explosion-proof bushings

## Technical data

### Explosion-proof cast iron bushings BHC-□□□

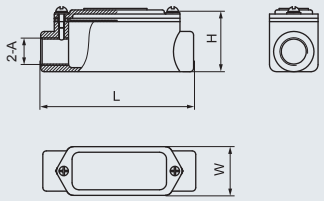
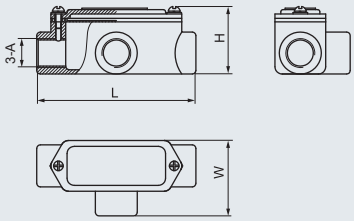
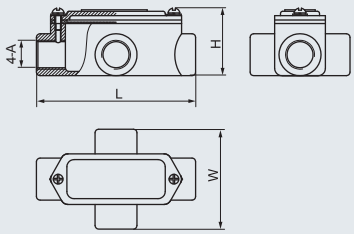
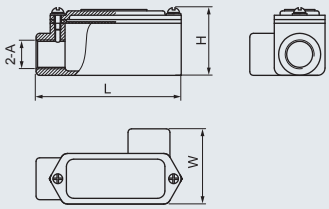
| | |
|---|---|
| **Explosion protection** | |
| Gas explosion protection | Ex II 2 G Ex e IIC Gb |
| Dust explosion protection | Ex II 2 D Ex tb IIIC Db IP66 |
| **Certificates** | LCIE 06 ATEX 6017; IECEx LCI 08.0004; RU C-CN.ГБ08.B.00927(CU-TR) |
| **Conformity to standards** | EN 60079-0, EN 60079-7, EN 60079-31<br>IEC 60079-0, IEC 60079-7, IEC 60079-31 |
| **Enclosure material** | Cast iron, powder coated surface. |
| **Enclosure colour** | Window grey (RAL7040) |
| **Degree of protection** | IP66 |
| **Ambient temperature** | -60 ~+100 |
| **Type** | A, B, C, D, E, F, G, H |
| **Connection thread** | 1. Metric thread is standard type; G thread or NPT thread is optional.<br>2. Metric threads are 1.5mm pitch as standard, others thread pitch can be customized, please specify when ordering. |

**Note**: M75, M90, M115 equivalent G thread and NPT thread can be customized.

# Zones 1&2; 21&22

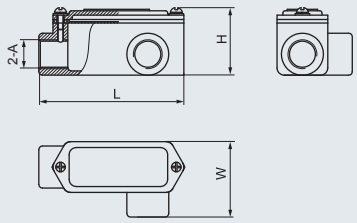
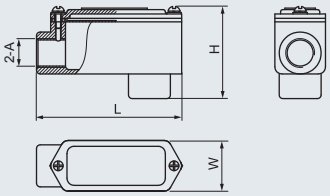
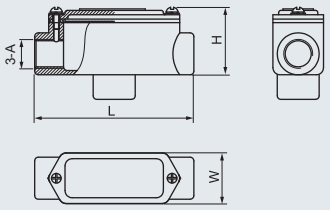
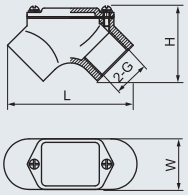
# Accessories for Installation
# BHC Series Explosion-proof Cast Iron Bushings

## Selection table

| Version | Female thread "A" | | | Dimensions (mm) | | | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| | Metric | NPT | G | W | H | L | | |
|   Type A | M20 | 1/2" | 1/2" | 31 | 37 | 106 | 702001 | 0.55 |
| | M25 | 3/4" | 3/4" | 35 | 42 | 120 | 702002 | 0.65 |
| | M32 | 1" | 1" | 44 | 52 | 138 | 702003 | 0.85 |
| | M40 | 1 1/4" | 1 1/4" | 53 | 62 | 164 | 702004 | 1.25 |
| | M50 | 1 1/2" | 1 1/2" | 60 | 67 | 175 | 702005 | 1.50 |
| | M63 | 2" | 2" | 75 | 82 | 200 | 702006 | 2.65 |
|   Type B | M20 | 1/2" | 1/2" | 45 | 37 | 106 | 702007 | 0.60 |
| | M25 | 3/4" | 3/4" | 50 | 42 | 120 | 702008 | 0.75 |
| | M32 | 1" | 1" | 60 | 52 | 138 | 702009 | 1.00 |
| | M40 | 1 1/4" | 1 1/4" | 73 | 62 | 164 | 702010 | 1.30 |
| | M50 | 1 1/2" | 1 1/2" | 80 | 67 | 175 | 702011 | 1.60 |
| | M63 | 2" | 2" | 95 | 82 | 200 | 702012 | 2.85 |
|   Type C | M20 | 1/2" | 1/2" | 59 | 37 | 106 | 702013 | 0.65 |
| | M25 | 3/4" | 3/4" | 65 | 42 | 120 | 702014 | 0.80 |
| | M32 | 1" | 1" | 76 | 52 | 138 | 702015 | 1.15 |
| | M40 | 1 1/4" | 1 1/4" | 93 | 62 | 164 | 702016 | 1.40 |
| | M50 | 1 1/2" | 1 1/2" | 100 | 67 | 175 | 702017 | 1.70 |
| | M63 | 2" | 2" | 115 | 82 | 200 | 702018 | 2.80 |
|   Type D | M20 | 1/2" | 1/2" | 45 | 37 | 98.5 | 702019 | 0.55 |
| | M25 | 3/4" | 3/4" | 50 | 42 | 110 | 702020 | 0.75 |
| | M32 | 1" | 1" | 60 | 52 | 126 | 702021 | 0.85 |
| | M40 | 1 1/4" | 1 1/4" | 73 | 62 | 149 | 702022 | 1.25 |
| | M50 | 1 1/2" | 1 1/2" | 80 | 67 | 159 | 702023 | 1.55 |
| | M63 | 2" | 2" | 95 | 82 | 183.5 | 702024 | 3.00 |

# Accessories for Installation
# BHC Series Explosion-proof Cast Iron Bushings

## Selection table

| Version | Female thread "A" | | | Dimensions (mm) | | | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| | Metric | NPT | G | W | H | L | | |
|   Type E | M20 | 1/2" | 1/2" | 45 | 37 | 98.5 | 702025 | 0.55 |
| | M25 | 3/4" | 3/4" | 50 | 42 | 110 | 702026 | 0.75 |
| | M32 | 1" | 1" | 60 | 52 | 126 | 702027 | 0.90 |
| | M40 | 1 1/4" | 1 1/4" | 73 | 62 | 149 | 702028 | 1.25 |
| | M50 | 1 1/2" | 1 1/2" | 80 | 67 | 159 | 702029 | 1.65 |
| | M63 | 2" | 2" | 95 | 82 | 183.5 | 702030 | 2.50 |
|   Type F | M20 | 1/2" | 1/2" | 31 | 41 | 98.5 | 702031 | 0.55 |
| | M25 | 3/4" | 3/4" | 35 | 57 | 110 | 702032 | 0.65 |
| | M32 | 1" | 1" | 44 | 68 | 126 | 702033 | 0.95 |
| | M40 | 1 1/4" | 1 1/4" | 53 | 82 | 149 | 702034 | 1.25 |
| | M50 | 1 1/2" | 1 1/2" | 60 | 87 | 159 | 702035 | 1.55 |
| | M63 | 2" | 2" | 75 | 102 | 183.5 | 702036 | 2.85 |
|   Type G | M20 | 1/2" | 1/2" | 31 | 41 | 106 | 702037 | 0.55 |
| | M25 | 3/4" | 3/4" | 35 | 57 | 120 | 702038 | 0.70 |
| | M32 | 1" | 1" | 44 | 68 | 138 | 702039 | 0.95 |
| | M40 | 1 1/4" | 1 1/4" | 53 | 82 | 164 | 702040 | 1.25 |
| | M50 | 1 1/2" | 1 1/2" | 60 | 87 | 185 | 702041 | 1.25 |
| | M63 | 2" | 2" | 75 | 102 | 200 | 702042 | 2.75 |
|   Type H | M20 | 1/2" | 1/2" | 28 | 46 | 84 | 702043 | 0.30 |
| | M25 | 3/4" | 3/4" | 33 | 50 | 86 | 702044 | 0.30 |
| | M32 | 1" | 1" | 40 | 58 | 99 | 702045 | 0.45 |
| | M40 | 1 1/4" | 1 1/4" | 48 | 78 | 122 | 702046 | 0.65 |
| | M50 | 1 1/2" | 1 1/2" | 56 | 82 | 129 | 702047 | 0.80 |
| | M63 | 2" | 2" | 69 | 78 | 158 | 702048 | 1.55 |

# Accessories for Installation
# Взрывозащищенные соединители серии BGJ
# BGJ Series Explosion-proof Connectors

Explosion protection to
-CENELEC
-IEC
Can be used in
Zone 1 and Zone 2
Zone 21 and Zone 22
Available in nickel plated brass, stainless steel or galvanized carbon steel.

## Catalogue number logic

BGJ - □ □ □ (□)/□ □ (□)

- (□): M: Male thread; F: Female thread
- □□: Size
- □: Thread — M: Metric thread; NPT: NPT thread; G: Pipe thread
- (□): M: Male thread; F: Female thread
- □□: Size
- □: Thread — M: Metric thread; NPT: NPT thread; G: Pipe thread
- □: Function — I: Pipe connector; II: Reducer; III: Connector
- BGJ: Explosion-proof connectors

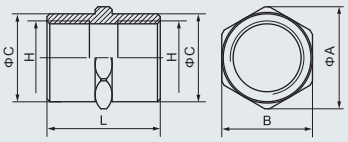
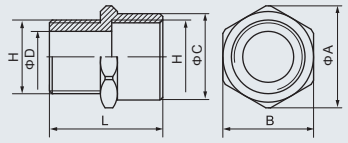
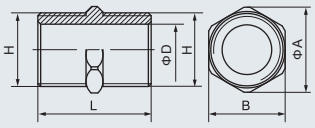
## Technical data

| Explosion-proof connectors | BGJ-□□□(□)/□□(□) |
|---|---|
| **Explosion protection** | |
| Gas explosion protection | Ex II 2 G Ex d IIC Gb  Ex II 2 G Ex e IIC Gb |
| Dust explosion protection | Ex II 2 D Ex tb IIIC Db IP66 |
| **Certificates** | LCIE 06 ATEX 6018; IECEx LCI 08.0005; RU C-CN.ГБ08.B.00927 (CU-TR) KZ.7500525.22.01.00375 (CU-TR) |
| **Conformity to standards** | EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31<br>IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31 |
| **Mterial** | Nickel plated brass, stainless steel or galvanized carbon steel |
| **Degree of protection** | IP66 |
| **Ambient temperature** | -60 ~+100 |
| **Type** | F/F, M/F or M/M |
| **Function** | Pipe connector, reducer, connector |

Zones 1&2; 21&22

# Accessories for Installation Взрывозащищенные соединители серии BGJ
# BGJ Series Explosion-proof Connectors

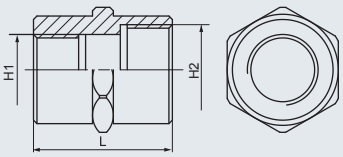
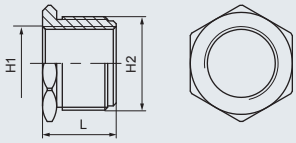
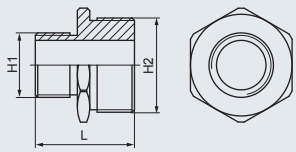
## Selection table

| Version | Female thread "H" | | | Dimensions (mm) | | | | | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Metric | NPT | G | A | B | C | D | L | | |
|  BGJ-I□□(F)/□□(F) | M20 | 1/2" | 1/2" | 30 | 27 | 25 | | 34 | 703001 | 0.10 |
| | M25 | 3/4" | 3/4" | 36 | 32 | 31 | | 34 | 703002 | 0.10 |
| | M32 | 1" | 1" | 42 | 38 | 37 | | 40 | 703003 | 0.15 |
| | M40 | 1 1/4" | 1 1/4" | 52 | 47 | 46 | | 40 | 703004 | 0.25 |
| | M50 | 1 1/2" | 1 1/2" | 60 | 55 | 54 | | 40 | 703005 | 0.25 |
| | M63 | 2" | 2" | 72 | 68 | 65 | | 42 | 703006 | 0.35 |
| | M75 | 2 1/2" | 2 1/2" | 88 | 83 | 82 | | 42 | 703007 | 0.50 |
| | M90 | 3" | 3" | 100 | 95 | 94 | | 42 | 703008 | 0.65 |
| | M115 | 4" | 4" | 127 | 122 | 121 | | 42 | 703009 | 1.00 |
|  BGJ-I□□(M)/□□(F) | M20 | 1/2" | 1/2" | 30 | 27 | 25 | 13 | 36 | 703010 | 0.10 |
| | M25 | 3/4" | 3/4" | 36 | 32 | 31 | 18 | 36 | 703011 | 0.10 |
| | M32 | 1" | 1" | 42 | 38 | 37 | 25 | 42 | 703012 | 0.15 |
| | M40 | 1 1/4" | 1 1/4" | 52 | 47 | 46 | 32 | 42 | 703013 | 0.20 |
| | M50 | 1 1/2" | 1 1/2" | 60 | 55 | 54 | 38 | 42 | 703014 | 0.25 |
| | M63 | 2" | 2" | 72 | 68 | 65 | 50 | 44 | 703015 | 0.35 |
| | M75 | 2 1/2" | 2 1/2" | 88 | 83 | 82 | 65 | 44 | 703016 | 0.50 |
| | M90 | 3" | 3" | 100 | 95 | 94 | 75 | 44 | 703017 | 0.65 |
| | M115 | 4" | 4" | 127 | 122 | 121 | 100 | 44 | 703018 | 1.00 |
|  BGJ-I□□(M)/□□(M) | M20 | 1/2" | 1/2" | 30 | 27 | | 13 | 36 | 703019 | 0.05 |
| | M25 | 3/4" | 3/4" | 36 | 32 | | 18 | 36 | 703020 | 0.10 |
| | M32 | 1" | 1" | 42 | 38 | | 24 | 42 | 703021 | 0.15 |
| | M40 | 1 1/4" | 1 1/4" | 52 | 47 | | 32 | 42 | 703022 | 0.25 |
| | M50 | 1 1/2" | 1 1/2" | 60 | 55 | | 38 | 42 | 703023 | 0.25 |
| | M63 | 2" | 2" | 72 | 68 | | 50 | 42 | 703024 | 0.35 |
| | M75 | 2 1/2" | 2 1/2" | 88 | 83 | | 65 | 42 | 703025 | 0.50 |
| | M90 | 3" | 3" | 100 | 95 | | 75 | 44 | 703026 | 0.65 |
| | M115 | 4" | 4" | 127 | 122 | | 100 | 44 | 703027 | 1.00 |

**Note:** 1. Standard material is galvanized carbon steel. Nickel plated brass or stainless steel is optional.
Above weight is based upon galvanized carbon steel.
2. Metric threads are 1.5mm pitch as standard, others thread pitch can be customized, please specify when ordering.

# Accessories for Installatio
## BGJ Series Explosion-proof Connectors

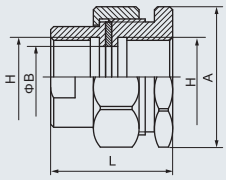
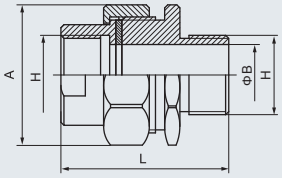
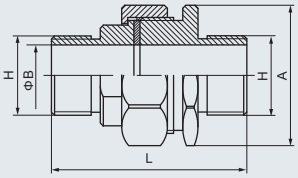
### Selection table

| Version | Female thread "H1" | | | Female thread "H2" | | | Dimensions (mm) | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| | Metric | NPT | G | Metric | NPT | G | L | | |
|  BGJ-II□□(F)/□□(F) | M20 | 1/2" | 1/2" | M25 | 3/4" | 3/4" | 34 | 703028 | 0.10 |
| | M25 | 3/4" | 3/4" | M32 | 1" | 1" | 34 | 703029 | 0.15 |
| | M32 | 1" | 1" | M40 | 1 1/4" | 1 1/4" | 40 | 703030 | 0.25 |
| | M40 | 1 1/4" | 1 1/4" | M50 | 1 1/2" | 1 1/2" | 40 | 703031 | 0.30 |
| | M50 | 1 1/2" | 1 1/2" | M63 | 2" | 2" | 40 | 703032 | 0.35 |
| | M63 | 2" | 2" | M75 | 2 1/2" | 2 1/2" | 42 | 703033 | 0.50 |
| | M75 | 2 1/2" | 2 1/2" | M90 | 3" | 3" | 42 | 703034 | 0.65 |
| | M90 | 3" | 3" | M115 | 4" | 4" | 42 | 703035 | 1.00 |
|  BGJ-II□□(M)/□□(F) | M20 | 1/2" | 1/2" | M25 | 3/4" | 3/4" | 24 | 703036 | 0.05 |
| | M25 | 3/4" | 3/4" | M32 | 1" | 1" | 24 | 703037 | 0.10 |
| | M32 | 1" | 1" | M40 | 1 1/4" | 1 1/4" | 34 | 703038 | 0.25 |
| | M40 | 1 1/4" | 1 1/4" | M50 | 1 1/2" | 1 1/2" | 30 | 703039 | 0.45 |
| | M50 | 1 1/2" | 1 1/2" | M63 | 2" | 2" | 33 | 703040 | 0.60 |
| | M63 | 2" | 2" | M75 | 2 1/2" | 2 1/2" | 33 | 703041 | 0.75 |
| | M75 | 2 1/2" | 2 1/2" | M90 | 3" | 3" | 33 | 703042 | 0.90 |
| | M90 | 3" | 3" | M115 | 4" | 4" | 33 | 703043 | 1.20 |
|  BGJ-II□□(M)/□□(M) | M20 | 1/2" | 1/2" | M25 | 3/4" | 3/4" | 36 | 703044 | 0.10 |
| | M25 | 3/4" | 3/4" | M32 | 1" | 1" | 36 | 703045 | 0.15 |
| | M32 | 1" | 1" | M40 | 1 1/4" | 1 1/4" | 42 | 703046 | 0.25 |
| | M40 | 1 1/4" | 1 1/4" | M50 | 1 1/2" | 1 1/2" | 42 | 703047 | 0.25 |
| | M50 | 1 1/2" | 1 1/2" | M63 | 2" | 2" | 42 | 703048 | 0.35 |
| | M63 | 2" | 2" | M75 | 2 1/2" | 2 1/2" | 44 | 703049 | 0.50 |
| | M75 | 2 1/2" | 2 1/2" | M90 | 3" | 3" | 44 | 703050 | 0.65 |
| | M90 | 3" | 3" | M115 | 4" | 4" | 44 | 703051 | 1.00 |

**Note:** 1. Standard material is galvanized carbon steel. Nickel plated brass or stainless steel is optional.
Above weight is based upon galvanized carbon steel.
2. Metric threads are 1.5mm pitch as standard, others thread pitch can be customized, please specify when ordering.

# Accessories for Installation
# BGJ Series Explosion-proof Connectors

## Selection table

| Version | Female thread "H" | | | Dimensions (mm) | | | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| | Metric | NPT | G | A | B | L | | |
|  BGJ- III□□(F)/□□(F) | M20 | 1/2" | 1/2" | 38 | 15 | 40 | 703052 | 0.15 |
| | M25 | 3/4" | 3/4" | 42 | 20 | 40 | 703053 | 0.25 |
| | M32 | 1" | 1" | 47 | 25 | 46 | 703054 | 0.35 |
| | M40 | 1 1/4" | 1 1/4" | 65 | 32 | 46 | 703055 | 0.50 |
| | M50 | 1 1/2" | 1 1/2" | 73 | 38 | 46 | 703056 | 0.50 |
| | M63 | 2" | 2" | 85 | 50 | 52 | 703057 | 0.85 |
| | M75 | 2 1/2" | 2 1/2" | 108 | 65 | 52 | 703058 | 1.25 |
| | M90 | 3" | 3" | 115 | 76 | 57 | 703059 | 1.70 |
| | M115 | 4" | 4" | 145 | 100 | 57 | 703060 | 2.20 |
|  BGJ- III□□(M)/□□(F) | M20 | 1/2" | 1/2" | 38 | 15 | 55 | 703061 | 0.20 |
| | M25 | 3/4" | 3/4" | 42 | 20 | 55 | 703062 | 0.30 |
| | M32 | 1" | 1" | 47 | 25 | 64 | 703063 | 0.45 |
| | M40 | 1 1/4" | 1 1/4" | 65 | 32 | 64 | 703064 | 0.60 |
| | M50 | 1 1/2" | 1 1/2" | 73 | 38 | 64 | 703065 | 0.65 |
| | M63 | 2" | 2" | 85 | 50 | 73 | 703066 | 1.05 |
| | M75 | 2 1/2" | 2 1/2" | 110 | 102 | 73 | 703067 | 1.45 |
| | M90 | 3" | 3" | 115 | 110 | 81 | 703068 | 1.55 |
| | M115 | 4" | 4" | 145 | 140 | 81 | 703069 | 2.00 |
|  BGJ- III□□(M)/□□(M) | M20 | 1/2" | 1/2" | 38 | 15 | 64 | 703070 | 0.20 |
| | M25 | 3/4" | 3/4" | 42 | 20 | 64 | 703071 | 0.30 |
| | M32 | 1" | 1" | 47 | 25 | 74 | 703072 | 0.45 |
| | M40 | 1 1/4" | 1 1/4" | 65 | 32 | 74 | 703073 | 0.70 |
| | M50 | 1 1/2" | 1 1/2" | 73 | 38 | 74 | 703074 | 0.75 |
| | M63 | 2" | 2" | 85 | 50 | 84 | 703075 | 1.20 |
| | M75 | 2 1/2" | 2 1/2" | 110 | 102 | 84 | 703076 | 1.60 |
| | M90 | 3" | 3" | 115 | 110 | 94 | 703077 | 2.05 |
| | M115 | 4" | 4" | 145 | 140 | 94 | 703078 | 2.55 |

**Note:** 1. Standard material is galvanized carbon steel. Nickel plated brass or stainless steel is optional.
Above weight is based upon galvanized carbon steel.
2. Metric threads are 1.5mm pitch as standard, others thread pitch can be customized, please specify when ordering.

# Accessories for Installation
# BAG Series Explosion-proof Seal Bushings
# Серия взрывозащищенных уплотнений

Explosion protection to
-CENELEC
-IEC
-NEC
Can be used in
Zone 1 and Zone 2
Zone 21 and Zone 22
Class I, Zone 1 and Zone 2
Class I, Division 1, Groups A , B, C, D
Copper-free aluminium, powder coated surface.
Widely used for isolating seal between pipes or pipes and explosion-proof enclosures.

## Catalogue number logic

BAG - □ □ □

- Size
- Thread
  - M: Metric thread
  - NPT: NPT thread
  - G: Pipe thread
- Type
  - Z: Vertical type
  - H: Horizontal type
  - P: Drainage type
- Explosion-proof seal bushings

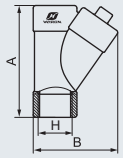
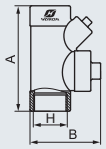
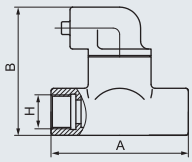
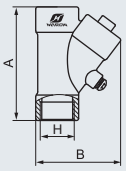
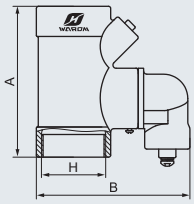
## Technical data

| Explosion-proof seal bushings | BAG-□□□ |
|---|---|
| **Explosion protection** | |
| Gas explosion protection | Ex II 2 G Ex db IIC Gb  Ex II 2 G Ex eb IIC Gb |
| Dust explosion protection | Ex II 2 D Ex tb IIIC Db IP66 |
| **Certificates** | EPT 14 ATEX 1124X; IECEx CQM 13.0029X; RU C-CN.ГБ08.B.00927(CU-TR) |
| **Conformity to standards** | EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31<br>IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31 |
| **Enclosure material** | Copper-free aluminium, powder coated surface.<br>Note: Other material can be customized on request. |
| **Enclosure colour** | Window grey (RAL 7040) |
| **Degree of protection** | IP66 |
| **Ambient temperature** | -60 ~+75 |
| **Type** | Type Z, Type H, Type P |
| **Connection thread** | 1. Metric thread is standard type; G thread or NPT thread is optional.<br>(The seal bushings are supplied without filling compound. Please sepcify when ordering)<br>2. Metric threads are 1.5mm pitch as standard, others thread pitch can be customized, please specify when ordering. |

# Zones 1&2; 21&22

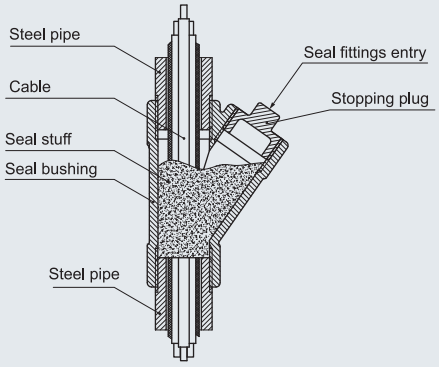
# Accessories for Installation
# BAG Series Explosion-proof Seal Bushings

## Selection table

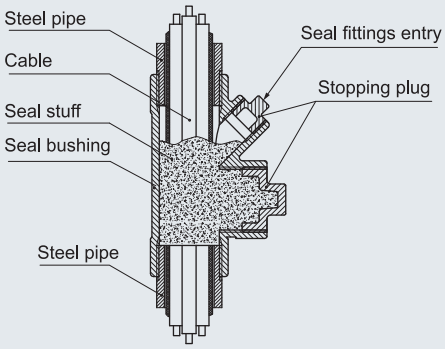
| Version | Female thread "H" | | | Dimensions (mm) | | Cable outer diameter (mm) | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| | Metric | NPT | G | A | B | | | |
|  Type Z | M20 | 1/2" | 1/2" | 77 | 54 | 8~10 | 704001 | 0.10 |
| | M25 | 3/4" | 3/4" | 87 | 65 | 10~14 | 704002 | 0.15 |
| | M32 | 1" | 1" | 102 | 78 | 12~17 | 704003 | 0.20 |
|  Type Z | M40 | 1 1/4" | 1 1/4" | 130 | 87 | 15~23 | 704004 | 0.35 |
| | M50 | 1 1/2" | 1 1/2" | 130 | 92 | 17~26 | 704005 | 0.35 |
| | M63 | 2" | 2" | 140 | 107 | 25~35 | 704006 | 0.50 |
|  Type H | M20 | 1/2" | 1/2" | 74 | 95 | 8~10 | 704007 | 0.30 |
| | M25 | 3/4" | 3/4" | 74 | 101 | 10~14 | 704008 | 0.30 |
| | M32 | 1" | 1" | 74 | 107 | 12~17 | 704009 | 0.30 |
| | M40 | 1 1/4" | 1 1/4" | 98 | 115 | 15~23 | 704010 | 0.35 |
| | M50 | 1 1/2" | 1 1/2" | 98 | 134 | 17~26 | 704011 | 0.45 |
| | M63 | 2" | 2" | 120 | 142 | 25~35 | 704012 | 0.55 |
|  Type P | M20 | 1/2" | 1/2" | 88 | 61 | 8~10 | 704013 | 0.15 |
| | M25 | 3/4" | 3/4" | 100 | 74 | 10~14 | 704014 | 0.20 |
| | M32 | 1" | 1" | 111 | 83 | 12~17 | 704015 | 0.25 |
|  Type P | M40 | 1 1/4" | 1 1/4" | 130 | 116 | 15~23 | 704016 | 0.45 |
| | M50 | 1 1/2" | 1 1/2" | 130 | 121 | 17~26 | 704017 | 0.45 |
| | M63 | 2" | 2" | 140 | 143 | 25~35 | 704018 | 0.65 |

# Accessories for Installation
# BAG Series Explosion-proof Seal Bushings

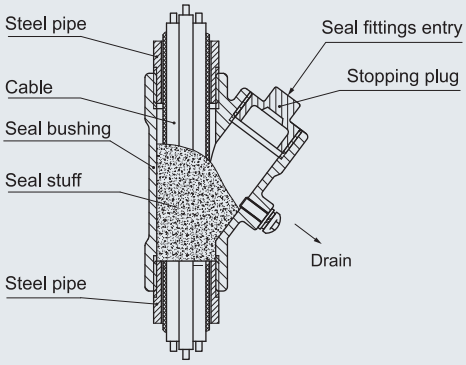
## Schematic diagram



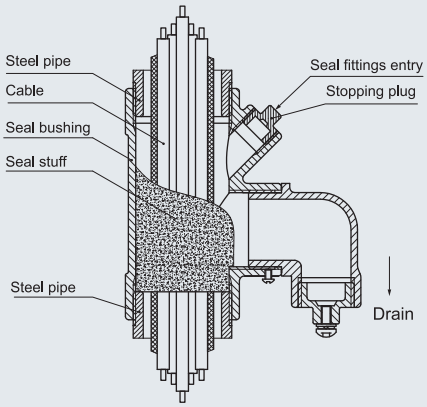

BAG-Z(Vertical type M20 x 1.5～M32 x 1.5)



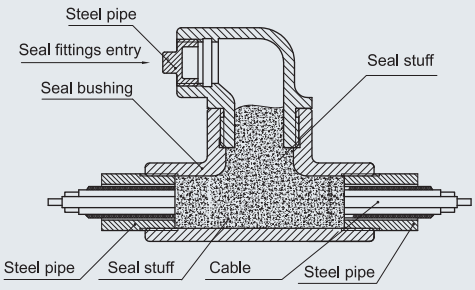

BAG-Z(Vertical type M40 x 1.5～M63 x 1.5)




BAG-P(Drainage type M20 x 1.5～M32 x 1.5)




BAG-P(Drainage type M40 x 1.5～M63 x 1.5)




BAG-H(Horizontal type)

## Cable Glands

- Explosion protection to
  - -CENELEC
  - -IEC
  - -NEC
- Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
  - Class I, Zone 1 and Zone 2
  - Class I, Division 1, Groups A , B, C, D
  - Class I, Division 2, Groups A , B, C, D
- Ex d and Ex e versions
- Cable glands：
  - -Suitable for armored or unarmored cable
  - -Suitable for cable or steel pipe wiring

Explosion-proof cable glands include:

1) DQM-I (Ex e)
   - -Plastic, unarmored
   - -Metal, unarmored or armored
2) DQM-II (Ex d  Ex e)
   - -Metal, unarmored, single seal
   - -Metal, armored, dual seal
   - -Metal, armored, dual seal, "Cold Flow"
3) DQM-III (Ex d  Ex e)
   - -Metal, unarmored, compound barrier
   - -Metal, armored, compound barrier

# Zones 1&2; 21&22

# Cable Glands
## DQM-I Series Explosion-proof Cable Glands (Ex e)
## Plastic Unarmored

Explosion protection to
-CENELEC
-IEC
-NEC
Can be used in
Zone 1 and Zone 2
Class I, Zone 1 and Zone 2
Class I, Division 2, Groups A , B, C, D
Ex e structure, made of plastic, black.
Single seal, suitable for unarmored cable.

## Technical data

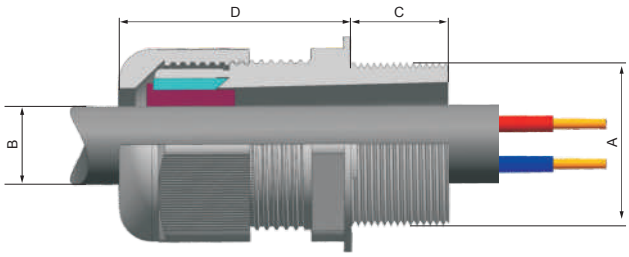
### Explosion-proof cable glands DQM-I (plastic unarmored)

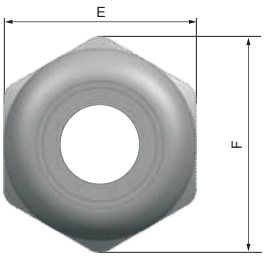
| | |
|---|---|
| **Explosion protection** | Ex II 2 G Ex e IIC Gb Ex e II |
| **Certificates** | PTB 04 ATEX 1087X; IECEx CQM 07.0009; RU C-CN.ГБ08.B.00927(CU-TR) |
| **Conformity to standards** | EN 60079-0, EN 60079-7; IEC 60079-0, IEC 60079-7 |
| **Gland material** | Plastic, black |
| **Degree of protection** | IP65 |
| **Ambient temperature** | -20 ~+55 |
| **Connection thread** | Metric thread is standard type; G thread is optional, but limited at G3/4″; NPT thread is not suitable |

## Selection table

| Gland size | Entry thread "A" | Cable outer diameter B (mm) | | Minimum thread length C (mm) | Nominal protrusion length D (mm) | Across flats E (mm) | Across corners F (mm) | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|
| | | Min | Max | | | | | | |
| 16 | M16 x 1.5 | 5 | 8 | 15 | 27 | 19 | 21 | 705001 | 0.05 |
| 20 | M20 x 1.5 | 6 | 10 | 15 | 29 | 24 | 26 | 705002 | 0.05 |
| 25 | M25 x 1.5 | 9 | 12 | 15 | 33 | 30 | 33 | 705003 | 0.05 |
| | | 12 | 16 | | | | | | |
| 3/4 | G 3/4" | 9 | 12 | 15 | 33 | 30 | 33 | 705004 | 0.05 |
| | | 12 | 16 | | | | | | |
| 32 | M32 x 1.5 | 10 | 18 | 15 | 35 | 41 | 45 | 705005 | 0.05 |
| 40 | M40 x 1.5 | 17 | 25 | 14 | 46 | 50 | 55 | 705006 | 0.10 |
| 50 | M50 x 1.5 | 23 | 32 | 14 | 51 | 57 | 63 | 705007 | 0.11 |
| 63 | M63 x 1.5 | 32 | 44 | 15 | 51 | 70 | 78 | 705008 | 0.15 |

**Note:** 1. Supplied with locknut (nickel plated brass) and seal gasket, without stopping rod.
2. Stopping rod on request. See P7/33.



# Cable Glands
## DQM-I Series Explosion-proof Cable Glands (Ex e IIC)
## Metal Unarmored

Explosion protection to
-CENELEC
-IEC
-NEC
Can be used in
Zone 1 and Zone 2
Zone 21 and Zone 22
Class I, Zone 1 and Zone 2
Class I, Division 2, Groups A , B, C, D
Ex e structure; available in stainless steel, nickel plated brass or galvanized carbon steel.
Single seal, suitable for unarmored cable.

## Technical data

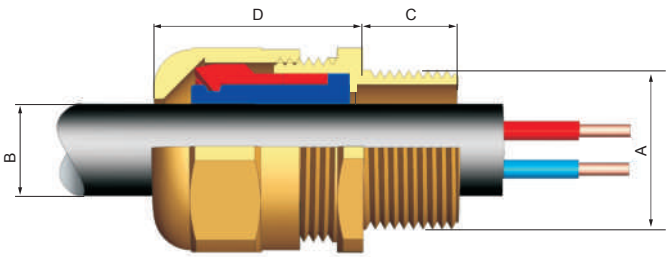
### Explosion-proof cable glands DQM-I (metal unarmored)

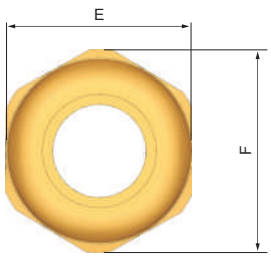
| | |
|---|---|
| **Explosion protection** | |
| Gas explosion protection | Ex II 2 G Ex e IIC Gb; Ex eb IIC Gb |
| Dust explosion protection | Ex II 2 D Ex tb IIIC Db IP66 / IP67; Ex tb IIIC Db IP66 / IP67 |
| **Certificates** | EPT 15 ATEX 1965; IECEx EUT 17.0001X; RU C-CN.ГБ08.B.00927(CU-TR)<br>KZ.7500525.22.01.00376 (CU-TR) |
| **Conformity to standards** | EN 60079-0, EN 60079-7, EN 60079-31<br>IEC 60079-0, IEC 60079-7, IEC 60079-31 |
| **Gland material** | Stainless steel, nickel plated brass or galvanized carbon steel |
| **Degree of protection** | IP66 / IP67 |
| **Ambient temperature** | -60 +100 |
| **Connection thread** | Metric thread is standard type; G thread or NPT thread is optional |

## Selection table

| Gland size | Entry thread "A" | | | Cable outer diameter B (mm) | | Minimum thread length C (mm) | Nominal protrusion length D (mm) | Across flats E (mm) | Across corners F (mm) | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Metric | NPT | G | Min | Max | | | | | | |
| 20 | M20 | 1/2" | 1/2" | 5 | 10 | 15 | 33 | 27 | 30 | 706001 | 0.15 |
| 25 | M25 | 3/4" | 3/4" | 9 | 14 | 15 | 33 | 32 | 35 | 706002 | 0.15 |
| 32 | M32 | 1" | 1" | 13 | 18 | 19 | 37 | 38 | 41 | 706003 | 0.30 |
| 40 | M40 | 1 1/4" | 1 1/4" | 17 | 24 | 19 | 40 | 47 | 50 | 706004 | 0.50 |
| 50 | M50 | 1 1/2" | 1 1/2" | 22 | 32 | 19 | 40 | 55 | 60 | 706005 | 0.55 |
| 63 | M63 | 2" | 2" | 31 | 44 | 19 | 53 | 68 | 72 | 706006 | 0.70 |
| 75 | M75 | 2 1/2" | 2 1/2" | 43 | 56 | 19 | 53 | 80 | 85 | 706007 | 0.90 |

**Note:** 1. Standard material is galvanized carbon steel. Nickel plated brass or stainless steel is optional. Above weight is based upon galvanized carbon steel.
2. Supplied with locknut and seal gasket.
3. Earth lug and shroud on request. See P7/34~35.
4. Metric threads are 1.5mm pitch as standard, others thread pitch can be customized, please specify when ordering.



# Cable Glands
## DQM-I Series Explosion-proof Cable Glands (Ex e IIC)
## Metal Armored Бронированый кабель

Cable wiring

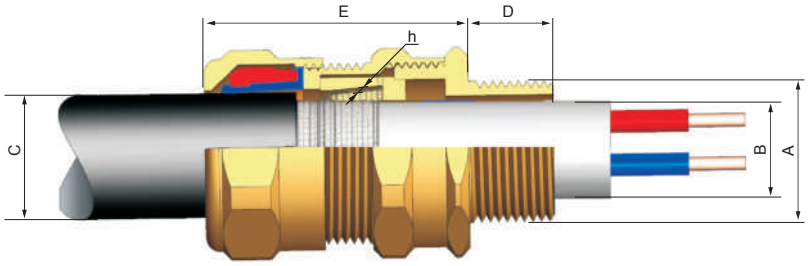
Steel pipe wiring

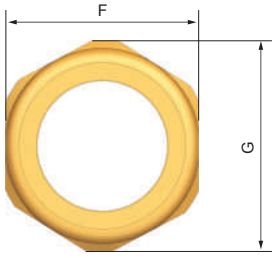
Explosion protection to
-CENELEC
-IEC
-NEC
Can be used in
Zone 1 and Zone 2
Zone 21 and Zone 22
Class I, Zone 1 and Zone 2
Class I, Division 2, Groups A , B, C, D
Ex e structure; available in stainless steel, nickel plated brass or galvanized carbon steel.
Single seal, suitable for both armored and unarmored cable.

### Technical data для бронированого кабеля

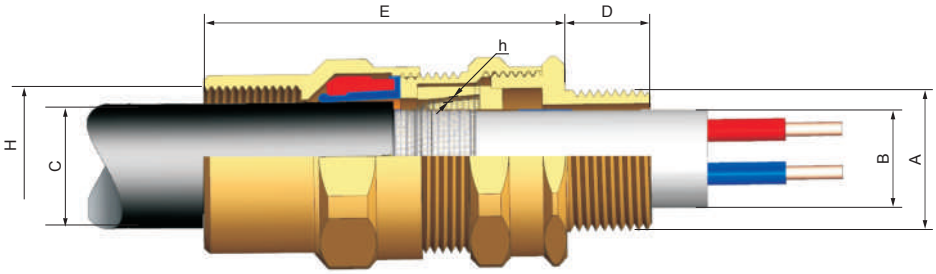
### Explosion-proof cable glands DQM-I (metal armored)

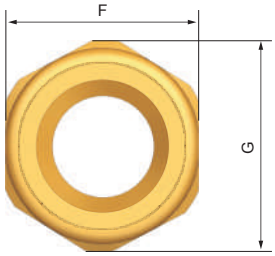
| | |
|---|---|
| **Explosion protection** | |
| Gas explosion protection | Ex II 2 G Ex e IIC Gb; Ex eb IIC Gb |
| Dust explosion protection | Ex II 2 D Ex tb IIIC Db IP66 / IP67; Ex tb IIIC Db IP66 / IP67 |
| **Certificates** | EPT 15 ATEX 1965; IECEx EUT 17.0001X; RU C-CN.ГБ08.B.00927(CU-TR)<br>KZ.7500525.22.01.00376 (CU-TR) |
| **Conformity to standards** | EN 60079-0, EN 60079-7, EN 60079-31<br>IEC 60079-0, IEC 60079-7, IEC 60079-31 |
| **Gland material** | Stainless steel, nickel plated brass or galvanized carbon steel |
| **Degree of protection** | IP66 / IP67 |
| **Ambient temperature** | -60 +100 |
| **Connection thread** | Metric thread is standard type; G thread or NPT thread is optional |




Cable wiring




Steel pipe wiring

# Cable Glands
## DQM-I Series Explosion-proof Cable Glands (Ex e IIC)
## Metal Armored

### Selection table of cable wiring

| Gland size | Entry thread "A" | | | Cable outer diameter B (mm) | Cable outer diameter C (mm) | | Minimum thread length D (mm) | Nominal protrusion length E (mm) | Across flats F (mm) | Across corners G (mm) | Range of armored thickness h (mm) | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Metric | NPT | G | Max | Min | Max | | | | | | | |
| 20A | M20 | 1/2" | 1/2" | 10.5 | 5.5 | 12.0 | 15 | 51 | 28 | 31 | 0.3~1.0 | 707001 | 0.11 |
| 20B | M20 | 1/2" | 1/2" | 10.5 | 9.5 | 16.0 | 15 | 51 | 28 | 31 | 0.3~1.0 | 707002 | 0.14 |
| 20C | M20 | 1/2" | 1/2" | 14.5 | 12.5 | 20.5 | 15 | 53 | 34 | 37 | 0.3~1.0 | 707003 | 0.14 |
| 25A | M25 | 3/4" | 3/4" | 10.5 | 9.5 | 16.0 | 15 | 51 | 34 | 37 | 0.3~1.0 | 707004 | 0.18 |
| 25B | M25 | 3/4" | 3/4" | 14.5 | 12.5 | 20.5 | 15 | 53 | 34 | 37 | 0.3~1.0 | 707005 | 0.17 |
| 25C | M25 | 3/4" | 3/4" | 19.5 | 17.0 | 26.0 | 15 | 58 | 41 | 45 | 0.4~1.2 | 707006 | 0.17 |
| 32A | M32 | 1" | 1" | 14.5 | 12.5 | 20.5 | 19 | 53 | 41 | 45 | 0.4~1.2 | 707007 | 0.20 |
| 32B | M32 | 1" | 1" | 19.5 | 17.0 | 26.0 | 19 | 58 | 41 | 45 | 0.4~1.2 | 707008 | 0.26 |
| 32C | M32 | 1" | 1" | 25.5 | 22.0 | 33.0 | 19 | 62 | 49 | 54 | 0.4~1.4 | 707009 | 0.28 |
| 40A | M40 | 1 1/4" | 1 1/4" | 19.5 | 17.0 | 26.0 | 19 | 58 | 49 | 54 | 0.4~1.4 | 707010 | 0.28 |
| 40B | M40 | 1 1/4" | 1 1/4" | 25.5 | 22.0 | 33.0 | 19 | 62 | 49 | 54 | 0.6~1.9 | 707011 | 0.31 |
| 40C | M40 | 1 1/4" | 1 1/4" | 31.0 | 28.0 | 41.0 | 19 | 69 | 60 | 65 | 0.6~2.2 | 707012 | 0.37 |
| 50A | M50 | 1 1/2" | 1 1/2" | 25.5 | 22.0 | 33.0 | 19 | 62 | 60 | 65 | 0.6~2.2 | 707013 | 0.37 |
| 50B | M50 | 1 1/2" | 1 1/2" | 31.0 | 28.0 | 41.0 | 19 | 69 | 60 | 65 | 0.8~2.3 | 707014 | 0.55 |
| 50C | M50 | 1 1/2" | 1 1/2" | 37.0 | 36.0 | 52.5 | 19 | 77 | 72 | 77 | 0.8~2.3 | 707015 | 0.70 |
| 63A | M63 | 2" | 2" | 31.0 | 28.0 | 41.0 | 19 | 69 | 72 | 77 | 0.8~2.3 | 707016 | 0.85 |
| 63B | M63 | 2" | 2" | 37.0 | 36.0 | 52.5 | 19 | 77 | 72 | 77 | 0.9~2.4 | 707017 | 1.00 |
| 63C | M63 | 2" | 2" | 49.0 | 46.0 | 65.0 | 19 | 95 | 86 | 93 | 0.9~2.4 | 707018 | 1.30 |
| 75A | M75 | 2 1/2" | 2 1/2" | 37.0 | 36.0 | 52.5 | 19 | 77 | 84 | 90 | 0.9~2.4 | 707019 | 2.40 |
| 75B | M75 | 2 1/2" | 2 1/2" | 55.0 | 46.0 | 65.0 | 19 | 95 | 86 | 93 | 0.9~2.4 | 707020 | 2.70 |
| 75C | M75 | 2 1/2" | 2 1/2" | 64.0 | 57.0 | 78.0 | 19 | 100 | 102 | 110 | 0.9~2.4 | 707021 | 2.80 |
| 90 | M90 | 3" | 3" | 75.0 | 68.0 | 88.0 | 19 | 100 | 112 | 121 | 0.9~2.4 | 707022 | 3.70 |
| 115 | M115 | 4" | 4" | 90.0 | 83.0 | 103.0 | 19 | 106 | 127 | 137 | 0.9~2.8 | 707023 | 4.40 |

### Selection table of steel pipe wiring

| Gland size | Entry thread "A" | | | Entry thread "H" | | | Cable outer diameter B (mm) | Cable outer diameter C (mm) | | Minimum thread length D (mm) | Nominal protrusion length E (mm) | Across flats F (mm) | Across corners G (mm) | Range of armored thickness h (mm) | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Metric | NPT | G | Metric | NPT | G | Max | Min | Max | | | | | | | |
| 20A | M20 | 1/2" | 1/2" | M20 | 1/2" | 1/2" | 10.5 | 5.5 | 12.0 | 15 | 66 | 28 | 31 | 0.3~1.0 | 707024 | 0.14 |
| 20B | M20 | 1/2" | 1/2" | M20 | 1/2" | 1/2" | 10.5 | 9.5 | 16.0 | 15 | 66 | 28 | 31 | 0.3~1.0 | 707025 | 0.18 |
| 20C | M20 | 1/2" | 1/2" | M25 | 3/4" | 3/4" | 14.5 | 12.5 | 20.5 | 15 | 66 | 34 | 37 | 0.3~1.0 | 707026 | 0.18 |
| 25A | M25 | 3/4" | 3/4" | M20 | 1/2" | 1/2" | 10.5 | 9.5 | 16.0 | 15 | 66 | 34 | 37 | 0.3~1.0 | 707027 | 0.23 |
| 25B | M25 | 3/4" | 3/4" | M25 | 3/4" | 3/4" | 14.5 | 12.5 | 20.5 | 15 | 68 | 34 | 37 | 0.3~1.0 | 707028 | 0.25 |
| 25C | M25 | 3/4" | 3/4" | M32 | 1" | 1" | 19.5 | 17.0 | 26.0 | 15 | 73 | 41 | 45 | 0.4~1.2 | 707029 | 0.25 |
| 32A | M32 | 1" | 1" | M25 | 3/4" | 3/4" | 14.5 | 12.5 | 20.5 | 19 | 68 | 41 | 45 | 0.4~1.2 | 707030 | 0.25 |
| 32B | M32 | 1" | 1" | M32 | 1" | 1" | 19.5 | 17.0 | 26.0 | 19 | 77 | 41 | 45 | 0.4~1.2 | 707031 | 0.30 |
| 32C | M32 | 1" | 1" | M40 | 1 1/4" | 1 1/4" | 25.5 | 22.0 | 33.0 | 19 | 77 | 49 | 54 | 0.4~1.4 | 707032 | 0.32 |
| 40A | M40 | 1 1/4" | 1 1/4" | M32 | 1" | 1" | 19.5 | 17.0 | 26.0 | 19 | 77 | 49 | 54 | 0.4~1.4 | 707033 | 0.32 |
| 40B | M40 | 1 1/4" | 1 1/4" | M40 | 1 1/4" | 1 1/4" | 25.5 | 22.0 | 33.0 | 19 | 81 | 49 | 54 | 0.6~1.9 | 707034 | 0.32 |
| 40C | M40 | 1 1/4" | 1 1/4" | M50 | 1 1/2" | 1 1/2" | 31.0 | 28.0 | 41.0 | 19 | 89 | 60 | 65 | 0.6~2.2 | 707035 | 0.42 |
| 50A | M50 | 1 1/2" | 1 1/2" | M40 | 1 1/4" | 1 1/4" | 25.5 | 22.0 | 33.0 | 19 | 81 | 60 | 65 | 0.6~2.2 | 707036 | 0.42 |
| 50B | M50 | 1 1/2" | 1 1/2" | M50 | 1 1/2" | 1 1/2" | 31.0 | 28.0 | 41.0 | 19 | 88 | 60 | 65 | 0.8~2.3 | 707037 | 0.65 |
| 50C | M50 | 1 1/2" | 1 1/2" | M63 | 2" | 2" | 37.0 | 36.0 | 52.5 | 19 | 97 | 72 | 77 | 0.8~2.3 | 707038 | 0.80 |
| 63A | M63 | 2" | 2" | M50 | 1 1/2" | 1 1/2" | 31.0 | 28.0 | 41.0 | 19 | 86 | 72 | 77 | 0.8~2.3 | 707039 | 0.98 |
| 63B | M63 | 2" | 2" | M63 | 2" | 2" | 37.0 | 36.0 | 52.5 | 19 | 97 | 72 | 77 | 0.9~2.4 | 707040 | 0.35 |
| 63C | M63 | 2" | 2" | M75 | 2 1/2" | 2 1/2" | 49.0 | 46.0 | 65.0 | 19 | 112 | 86 | 93 | 0.9~2.4 | 707041 | 1.65 |
| 75A | M75 | 2 1/2" | 2 1/2" | M63 | 2" | 2" | 37.0 | 36.0 | 52.5 | 19 | 96 | 84 | 90 | 0.9~2.4 | 707042 | 2.70 |
| 75B | M75 | 2 1/2" | 2 1/2" | M75 | 2 1/2" | 2 1/2" | 55.0 | 46.0 | 65.0 | 19 | 112 | 86 | 93 | 0.9~2.4 | 707043 | 3.00 |
| 75C | M75 | 2 1/2" | 2 1/2" | M90 | 3" | 3" | 64.0 | 57.0 | 78.0 | 19 | 119 | 102 | 110 | 0.9~2.4 | 707044 | 3.40 |
| 90 | M90 | 3" | 3" | M115 | 4" | 4" | 75.0 | 68.0 | 88.0 | 19 | 119 | 112 | 121 | 0.9~2.4 | 707045 | 4.00 |
| 115 | M115 | 4" | 4" | M125 | 4 1/2" | 4 1/2" | 90.0 | 83.0 | 103.0 | 19 | 125 | 127 | 137 | 0.9~2.8 | 707046 | 4.80 |

**Note:** 1. Standard material is nickel plated brass. Stainless steel or galvanized carbon steel is optional. Above weight is based upon nickel plated brass.
2. Earth lug and shroud on request. See P7/34~35.
3. Metric threads are 1.5mm pitch as standard, others thread pitch can be customized, please specify when ordering.

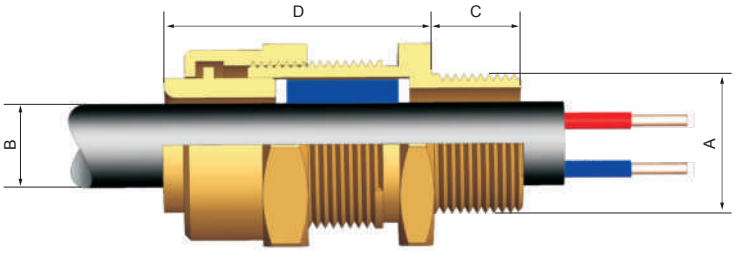
# Cable Glands
## DQM-II Series Explosion-proof Cable Glands (Ex d IIC Ex e IIC)
## Unarmored Single Seal Для Небронированных кабелей

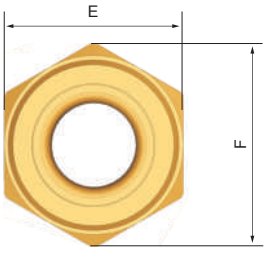
Cable wiring

Steel pipe wiring

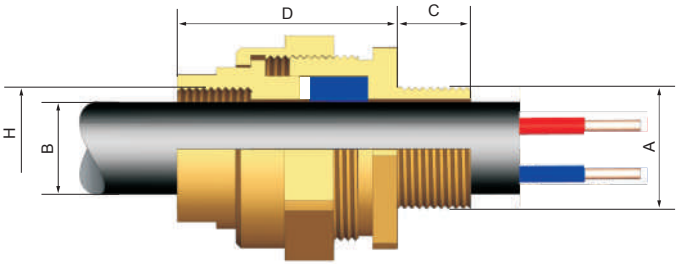
Explosion protection to
-CENELEC
-IEC
-NEC
Can be used in
Zone 1 and Zone 2
Zone 21 and Zone 22
Class I, Zone 1 and Zone 2
Class I, Division 1, Groups A , B, C, D
Ex d, Ex e structure; available in stainless steel, nickel plated brass or galvanized carbon steel.
Single seal, suitable for unarmored cable.

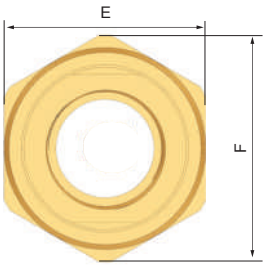
| Technical data | для небронированого кабеля |
|---|---|
| **Explosion-proof cable glands** | **DQM-II (unarmored single seal)** |
| **Explosion protection** | |
| Gas explosion protection | Ex II 2 G Ex d IIC Gb  Ex II 2 G Ex e IIC Gb |
| Dust explosion protection | Ex II 2 D Ex tb IIIC Db IP66 |
| **Certificates** | LCIE 06 ATEX 6100X; IECEx LCI 08.0011X; RU C-CN.ГБ05.В.00345(CU-TR) KZ.7500525.22.01.00376 (CU-TR) |
| **Conformity to standards** | EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31<br>IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31 |
| **Gland material** | Stainless steel, nickel plated brass or galvanized carbon steel |
| **Degree of protection** | IP66 (IP67 optional) |
| **Ambient temperature** | -60 ~+100 |
| **Connection thread** | Metric thread is standard type; G thread or NPT thread is optional |




Cable wiring




Steel pipe wiring

# Cable Glands
## DQM-II Series Explosion-proof Cable Glands (Ex d IIC Ex e IIC)
## Unarmored Single Seal

### Selection table of cable wiring

| Gland size | Entry thread "A" | | | Cable outer diameter B (mm) | | Minimum thread length C (mm) | Nominal protrusion length D (mm) | Across flats E (mm) | Across corners F (mm) | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Metric | NPT | G | Min | Max | | | | | | |
| 20 | M20 | 1/2" | 1/2" | 6.5 | 10 | 16 | 37 | 30 | 34 | 708001 | 0.15 |
| 25 | M25 | 3/4" | 3/4" | 10 | 14 | 16 | 40 | 36 | 41 | 708002 | 0.20 |
| 32 | M32 | 1" | 1" | 11 | 18 | 16 | 40 | 41 | 46 | 708003 | 0.30 |
| 40 | M40 | 1 1/4" | 1 1/4" | 14 | 23 | 16 | 45 | 50 | 55 | 708004 | 0.45 |
| 50 | M50 | 1 1/2" | 1 1/2" | 20 | 27 | 16 | 50 | 60 | 65 | 708005 | 0.70 |
| 63 | M63 | 2" | 2" | 25 | 34 | 16 | 57 | 70 | 75 | 708006 | 0.90 |
| 75 | M75 | 2 1/2" | 2 1/2" | 38 | 57 | 19 | 65 | 102 | 110 | 708007 | 2.30 |
| 90 | M90 | 3" | 3" | 55 | 67 | 19 | 85 | 110 | 115 | 708008 | 2.50 |
| 115 | M115 | 4" | 4" | 48 | 80 | 19 | 105 | 140 | 145 | 708009 | 4.60 |

### Selection table of steel pipe wiring

| Gland size | Entry thread "A" | | | Entry thread "H" | | | Cable outer diameter B (mm) | | Minimum thread length C (mm) | Nominal protrusion length D (mm) | Across flats E (mm) | Across corners F (mm) | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Metric | NPT | G | Metric | NPT | G | Min | Max | | | | | | |
| 20 | M20 | 1/2" | 1/2" | M20 | 1/2" | 1/2" | 10 | 14 | 15 | 51 | 31 | 33 | 708010 | 0.20 |
| 25 | M25 | 3/4" | 3/4" | M25 | 3/4" | 3/4" | 12 | 17 | 15 | 51 | 39 | 42 | 708011 | 0.25 |
| 32 | M32 | 1" | 1" | M32 | 1" | 1" | 15 | 22 | 19 | 65 | 45 | 48 | 708012 | 0.40 |
| 40 | M40 | 1 1/4" | 1 1/4" | M40 | 1 1/4" | 1 1/4" | 20 | 30 | 19 | 68 | 60 | 65 | 708013 | 0.60 |
| 50 | M50 | 1 1/2" | 1 1/2" | M50 | 1 1/2" | 1 1/2" | 26 | 37 | 19 | 68 | 70 | 75 | 708014 | 0.75 |
| 63 | M63 | 2" | 2" | M63 | 2" | 2" | 30 | 47 | 19 | 73 | 82 | 87 | 708015 | 1.15 |
| 75 | M75 | 2 1/2" | 2 1/2" | M75 | 2 1/2" | 2 1/2" | 38 | 57 | 19 | 73 | 102 | 110 | 708016 | 1.50 |
| 90 | M90 | 3" | 3" | M90 | 3" | 3" | 55 | 67 | 19 | 73 | 110 | 115 | 708017 | 1.80 |
| 115 | M115 | 4" | 4" | M115 | 4" | 4" | 48 | 80 | 19 | 78 | 140 | 145 | 708018 | 3.50 |

**Note:** 1. Standard material is galvanized carbon steel. Nickel plated brass or stainless steel is optional. Above weight is based upon galvanized carbon steel.
2. Earth lug and shroud on request. See P7/34~35.
3. Metric threads are 1.5mm pitch as standard, others thread pitch can be customized, please specify when ordering.

# Cable Glands
## DQM-II Series Explosion-proof Cable Glands (Ex d IIC  Ex e IIC)
## Armored Dual Seal  Бронированный кабель двойное упло-е

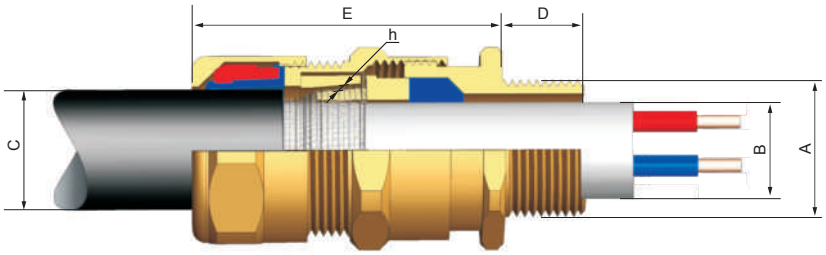
Cable wiring

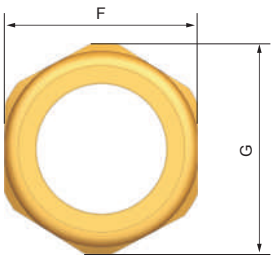
Steel pipe wiring

Explosion protection to
-CENELEC
-IEC
-NEC
Can be used in
Zone 1 and Zone 2
Zone 21 and Zone 22
Class I, Zone 1 and Zone 2
Class I, Division 1, Groups A , B, C, D
Ex d, Ex e structure; available in stainless steel, nickel plated brass or galvanized carbon steel.
Dual seal, suitable for both armored and unarmored cable.

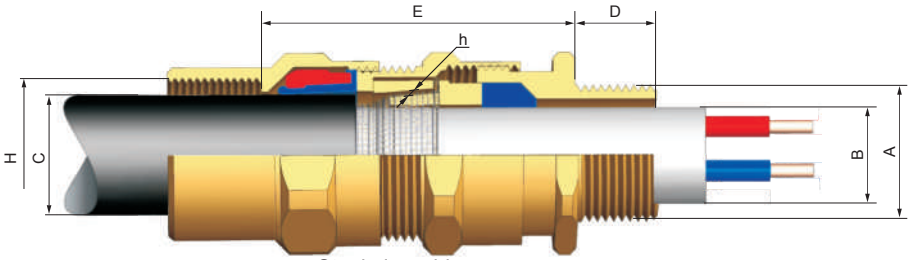
### Technical data

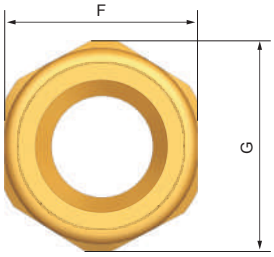
| Explosion-proof cable glands | DQM-II (armored dual seal) |
|---|---|
| **Explosion protection** | |
| Gas explosion protection | Ex II 2 G Ex d IIC Gb  Ex II 2 G Ex e IIC Gb |
| Dust explosion protection | Ex II 2 D Ex tb IIIC Db IP66 |
| **Certificates** | LCIE 06 ATEX 6100X; IECEx LCI 08.0011X; RU C-CN.ГБ05.B.00345(CU-TR) KZ.7500525.22.01.00376 (CU-TR) |
| **Conformity to standards** | EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31<br>IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31 |
| **Gland material** | Stainless steel, nickel plated brass or galvanized carbon steel |
| **Degree of protection** | IP66 (IP67 optional) |
| **Ambient temperature** | -60  ~+100 |
| **Connection thread** | Metric thread is standard type; G thread or NPT thread is optional. |




Cable wiring




Steel pipe wiring

# Cable Glands
# DQM-II Series Explosion-proof Cable Glands (Ex d IIC Ex e IIC)
# Armored Dual Seal

## Selection table of cable wiring

| Gland size | Entry thread "A" | | | Cable outer diameter B (mm) | | | | Cable outer diameter C (mm) | | Minimum thread length D (mm) | Nominal protrusion length E (mm) | Across flats F (mm) | Across corners G (mm) | Range of armored thickness h (mm) | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Standard Seal | | Alternative Seal | | | | | | | | | | |
| | Metric | NPT | G | Min | Max | Min | Max | Min | Max | | | | | | | |
| 20A | M20 | 1/2" | 1/2" | 4.0 | 8.0 | - | - | 5.5 | 12.0 | 15 | 59 | 28 | 31 | 0.3~1.0 | 709001 | 0.12 |
| 20B | M20 | 1/2" | 1/2" | 6.5 | 10.5 | - | - | 9.5 | 16.0 | 15 | 59 | 28 | 31 | 0.3~1.0 | 709002 | 0.15 |
| 20C | M20 | 1/2" | 1/2" | 10 | 14.5 | 8.5 | 13.0 | 12.5 | 20.5 | 15 | 61 | 34 | 37 | 0.3~1.0 | 709003 | 0.15 |
| 25A | M25 | 3/4" | 3/4" | 6.5 | 10.5 | - | - | 9.5 | 16.0 | 15 | 59 | 34 | 37 | 0.3~1.0 | 709004 | 0.15 |
| 25B | M25 | 3/4" | 3/4" | 10.0 | 14.5 | 8.5 | 13.0 | 12.5 | 20.5 | 15 | 61 | 34 | 37 | 0.3~1.0 | 709005 | 0.19 |
| 25C | M25 | 3/4" | 3/4" | 12.5 | 19.5 | 9.5 | 15.5 | 17.0 | 26.0 | 15 | 68 | 41 | 45 | 0.4~1.2 | 709006 | 0.18 |
| 32A | M32 | 1" | 1" | 10 | 14.5 | 8.5 | 13.0 | 12.5 | 20.5 | 19 | 61 | 41 | 45 | 0.4~1.2 | 709007 | 0.18 |
| 32B | M32 | 1" | 1" | 12.5 | 19.5 | 9.5 | 15.5 | 17.0 | 26.0 | 19 | 68 | 41 | 45 | 0.4~1.2 | 709008 | 0.22 |
| 32C | M32 | 1" | 1" | 19 | 25.5 | 14.5 | 21.0 | 22.0 | 33.0 | 19 | 76 | 49 | 54 | 0.4~1.4 | 709009 | 0.30 |
| 40A | M40 | 1 1/4" | 1 1/4" | 12.5 | 19.5 | 9.5 | 15.5 | 17.0 | 26.0 | 19 | 68 | 49 | 54 | 0.4~1.4 | 709010 | 0.30 |
| 40B | M40 | 1 1/4" | 1 1/4" | 19.0 | 25.5 | 14.5 | 21.0 | 22.0 | 33.0 | 19 | 76 | 49 | 54 | 0.6~1.9 | 709011 | 0.40 |
| 40C | M40 | 1 1/4" | 1 1/4" | 25.0 | 32.0 | 22.0 | 28.0 | 28.0 | 41.0 | 19 | 83 | 60 | 65 | 0.6~2.2 | 709012 | 0.40 |
| 50A | M50 | 1 1/2" | 1 1/2" | 19.0 | 25.5 | 14.5 | 21.0 | 22.0 | 33.0 | 19 | 76 | 60 | 65 | 0.6~2.2 | 709013 | 0.40 |
| 50B | M50 | 1 1/2" | 1 1/2" | 25.0 | 32.0 | 22.0 | 28.0 | 28.0 | 41.0 | 19 | 83 | 60 | 65 | 0.8~2.3 | 709014 | 0.60 |
| 50C | M50 | 1 1/2" | 1 1/2" | 31.5 | 39.0 | 27.5 | 35.0 | 36.0 | 52.5 | 19 | 101 | 72 | 77 | 0.8~2.3 | 709015 | 0.80 |
| 63A | M63 | 2" | 2" | 25.0 | 32.0 | 22.0 | 28.0 | 28.0 | 41.0 | 19 | 83 | 72 | 77 | 0.8~2.3 | 709016 | 0.90 |
| 63B | M63 | 2" | 2" | 31.5 | 39.0 | 27.5 | 35.0 | 36.0 | 52.5 | 19 | 101 | 72 | 77 | 0.9~2.4 | 709017 | 1.00 |
| 63C | M63 | 2" | 2" | 42.5 | 50.0 | 39.0 | 46.5 | 46.0 | 65.0 | 19 | 112 | 86 | 93 | 0.9~2.4 | 709018 | 1.20 |
| 75A | M75 | 2 1/2" | 2 1/2" | 31.5 | 39.0 | 27.5 | 35.0 | 36.0 | 52.5 | 19 | 101 | 84 | 90 | 0.9~2.4 | 709019 | 2.50 |
| 75B | M75 | 2 1/2" | 2 1/2" | 42.5 | 55.5 | 39.0 | 46.5 | 46.0 | 65.0 | 19 | 112 | 86 | 93 | 0.9~2.4 | 709020 | 2.80 |
| 75C | M75 | 2 1/2" | 2 1/2" | 54.5 | 64.0 | 48.5 | 58.0 | 57.0 | 78.0 | 19 | 119 | 102 | 110 | 0.9~2.4 | 709021 | 2.90 |
| 90 | M90 | 3" | 3" | 63.0 | 75.0 | - | - | 68.0 | 88.0 | 19 | 121 | 112 | 121 | 0.9~2.4 | 709022 | 3.90 |
| 115 | M115 | 4" | 4" | 75.0 | 90.0 | - | - | 83.0 | 103.0 | 19 | 126 | 127 | 137 | 0.9~2.8 | 709023 | 4.55 |

## Selection table of steel pipe wiring

| Gland size | Entry thread "A" | | | Entry thread "H" | | | Cable outer diameter B (mm) | | | | Cable outer diameter C (mm) | | Minimum thread length D (mm) | Nominal protrusion length E (mm) | Across flats F (mm) | Across corners G (mm) | Range of armored thickness h (mm) | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Standard Seal | | Alternative Seal | | | | | | | | | | |
| | Metric | NPT | G | Metric | NPT | G | Min | Max | Min | Max | Min | Max | | | | | | | |
| 20A | M20 | 1/2" | 1/2" | M20 | 1/2" | 1/2" | 4.0 | 8.0 | - | - | 5.5 | 12.0 | 15 | 74 | 28 | 31 | 0.3~1.0 | 709024 | 0.15 |
| 20B | M20 | 1/2" | 1/2" | M20 | 1/2" | 1/2" | 6.5 | 10.5 | - | - | 9.5 | 16.0 | 15 | 74 | 28 | 31 | 0.3~1.0 | 709025 | 0.20 |
| 20C | M20 | 1/2" | 1/2" | M25 | 3/4" | 3/4" | 10 | 14.5 | 8.5 | 13.0 | 12.5 | 20.5 | 15 | 96 | 34 | 37 | 0.3~1.0 | 709026 | 0.20 |
| 25A | M25 | 3/4" | 3/4" | M20 | 1/2" | 1/2" | 6.5 | 10.5 | - | - | 9.5 | 16.0 | 15 | 74 | 34 | 37 | 0.3~1.0 | 709027 | 0.20 |
| 25B | M25 | 3/4" | 3/4" | M25 | 3/4" | 3/4" | 10.0 | 14.5 | 8.5 | 13.0 | 12.5 | 20.5 | 15 | 76 | 34 | 37 | 0.3~1.0 | 709028 | 0.24 |
| 25C | M25 | 3/4" | 3/4" | M32 | 1" | 1" | 12.5 | 19.5 | 9.5 | 15.5 | 17.0 | 26.0 | 15 | 83 | 41 | 45 | 0.4~1.2 | 709029 | 0.27 |
| 32A | M32 | 1" | 1" | M25 | 3/4" | 3/4" | 10 | 14.5 | 8.5 | 13.0 | 12.5 | 20.5 | 19 | 76 | 41 | 45 | 0.4~1.2 | 709030 | 0.28 |
| 32B | M32 | 1" | 1" | M32 | 1" | 1" | 12.5 | 19.5 | 9.5 | 15.5 | 17.0 | 26.0 | 19 | 87 | 41 | 45 | 0.4~1.2 | 709031 | 0.27 |
| 32C | M32 | 1" | 1" | M40 | 1 1/4" | 1 1/4" | 19 | 25.5 | 14.5 | 21.0 | 22.0 | 33.0 | 19 | 95 | 49 | 54 | 0.4~1.4 | 709032 | 0.33 |
| 40A | M40 | 1 1/4" | 1 1/4" | M32 | 1" | 1" | 12.5 | 19.5 | 9.5 | 15.5 | 17.0 | 26.0 | 19 | 87 | 49 | 54 | 0.4~1.4 | 709033 | 0.33 |
| 40B | M40 | 1 1/4" | 1 1/4" | M40 | 1 1/4" | 1 1/4" | 19.0 | 25.5 | 14.5 | 21.0 | 22.0 | 33.0 | 19 | 95 | 49 | 54 | 0.6~1.9 | 709034 | 0.36 |
| 40C | M40 | 1 1/4" | 1 1/4" | M50 | 1 1/2" | 1 1/2" | 25.0 | 32.0 | 22.0 | 28.0 | 28.0 | 41.0 | 19 | 103 | 60 | 65 | 0.6~2.2 | 709035 | 0.45 |
| 50A | M50 | 1 1/2" | 1 1/2" | M40 | 1 1/4" | 1 1/4" | 19.0 | 25.5 | 14.5 | 21.0 | 22.0 | 33.0 | 19 | 95 | 60 | 65 | 0.6~2.2 | 709036 | 0.45 |
| 50B | M50 | 1 1/2" | 1 1/2" | M50 | 1 1/2" | 1 1/2" | 25.0 | 32.0 | 22.0 | 28.0 | 28.0 | 41.0 | 19 | 103 | 60 | 65 | 0.8~2.3 | 709037 | 0.70 |
| 50C | M50 | 1 1/2" | 1 1/2" | M63 | 2" | 2" | 31.5 | 39.0 | 27.5 | 35.0 | 36.0 | 52.5 | 19 | 118 | 72 | 77 | 0.8~2.3 | 709038 | 0.85 |
| 63A | M63 | 2" | 2" | M50 | 1 1/2" | 1 1/2" | 25.0 | 32.0 | 22.0 | 28.0 | 28.0 | 41.0 | 19 | 103 | 72 | 77 | 0.8~2.3 | 709039 | 1.20 |
| 63B | M63 | 2" | 2" | M63 | 2" | 2" | 31.5 | 39.0 | 27.5 | 35.0 | 36.0 | 52.5 | 19 | 118 | 72 | 77 | 0.9~2.4 | 709040 | 1.50 |
| 63C | M63 | 2" | 2" | M75 | 2 1/2" | 2 1/2" | 42.5 | 50.0 | 39.0 | 46.5 | 46.0 | 65.0 | 19 | 131 | 86 | 93 | 0.9~2.4 | 709041 | 1.80 |
| 75A | M75 | 2 1/2" | 2 1/2" | M63 | 2" | 2" | 31.5 | 39.0 | 27.5 | 35.0 | 36.0 | 52.5 | 19 | 118 | 84 | 90 | 0.9~2.4 | 709042 | 2.80 |
| 75B | M75 | 2 1/2" | 2 1/2" | M75 | 2 1/2" | 2 1/2" | 42.5 | 55.5 | 39.0 | 46.5 | 46.0 | 65.0 | 19 | 131 | 86 | 93 | 0.9~2.4 | 709043 | 3.10 |
| 75C | M75 | 2 1/2" | 2 1/2" | M90 | 3" | 3" | 54.5 | 64.0 | 48.5 | 58.0 | 57.0 | 78.0 | 19 | 138 | 102 | 110 | 0.9~2.4 | 709044 | 3.50 |
| 90 | M90 | 3" | 3" | M115 | 4" | 4" | 63.0 | 75.0 | - | - | 68.0 | 88.0 | 19 | 140 | 112 | 121 | 0.9~2.4 | 709045 | 4.10 |
| 115 | M115 | 4" | 4" | M125 | 4 1/2" | 4 1/2" | 75.0 | 90.0 | - | - | 83.0 | 103.0 | 19 | 145 | 127 | 137 | 0.9~2.8 | 709046 | 4.90 |

**Note:** 1. Standard material is nickel plated brass. Stainless steel or galvanized carbon steel is optional. Above weight is based upon nickel plated brass.
2. Earth lug and shroud on request. See P7/34~35.
3. Metric threads are 1.5mm pitch as standard, others thread pitch can be customized, please specify when ordering.

# Cable Glands
## DQM-II Series Explosion-proof Cable Glands (Ex d IIC Ex e IIC) Armored Dual Seal (Cold Flow) Бронированное двойное упл

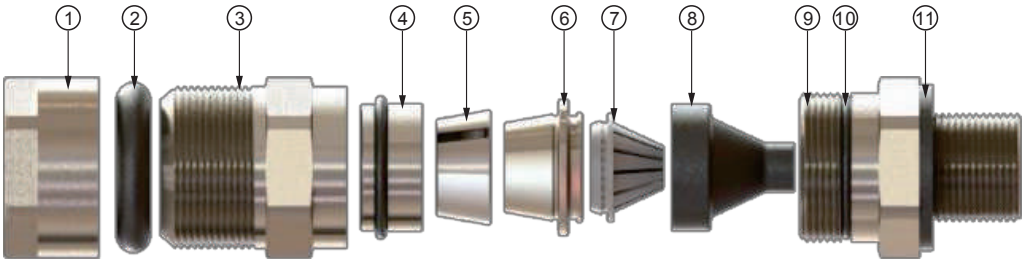
- Explosion protection to
  - -CENELEC
  - -IEC
  - -NEC
- Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
  - Class I, Zone 1 and Zone 2
  - Class I, Division 1, Groups A , B, C, D
  - Ex d, Ex e structure; available in stainless steel, nickel plated brass or galvanized carbon steel.
  - Dual seal, suitable for both armored and unarmored cable.
- For particular use with: cables that exhibet “cold flow” characteristics.

### Technical data

| Explosion-proof cable glands | DQM-II (Armored Dual Seal) |
|---|---|
| **Explosion protection** | |
| Gas explosion protection | Ex II 2 G Ex db IIC Gb  Ex II 2 G Ex eb IIC Gb |
| Dust explosion protection | Ex II 2 D Ex tb IIIC Db IP66/IP68 |
| **Certificates** | ATEX and IECEx (applied for) |
| **Conformity to standards** | EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31<br>IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31 |
| **Gland material** | Brass, stainless steel or nickel plated brass |
| **Degree of protection** | IP66/IP68 |
| **Ambient temperature** | -60 ~+100 |
| **Connection thread** | Metric thread is standard type; G thread or NPT thread is optional |

### Feature:

- Using thoracic diaphragm sealing element (such as figure ⑧), no any harm to cable inner jecket which has "Cold Flow" feature, and installation is faster more than 50% of general sealing.
- Using flood surge resistance sealing part (such as figure ⑩), prevent moist gas into cable armoured/braided layer



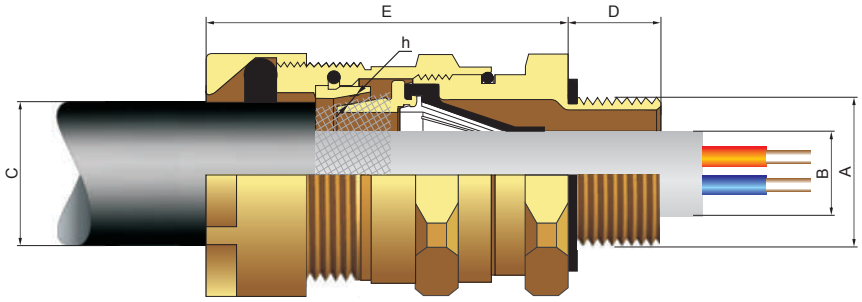

① Cap цоколь
② Clamping& Sealing O-Ring
③ Upper Body Верхнее тело
④ Braid Ring Кольцо оплетки
⑤ Universal Armour Reduction
⑥ Grounding Cone
⑦ Plastic Insert
⑧ Diaphgram Seal
⑨ Body
⑩ Sealing O-Ring
⑪ мембрана
11 Gasket

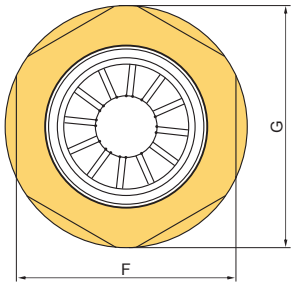
# Cable Glands
## DQM-II Series Explosion-proof Cable Glands (Ex d IIC Ex e IIC)
## Armored Dual Seal (Cold Flow)

### Selection table of cable wiring

| Gland size | Entry thread "A" | | Cable outer diameter B (mm) | | Cable outer diameter C (mm) | | Minimum thread length D (mm) | Nominal protrusion length E (mm) | Across flats F (mm) | Across corners G (mm) | Range of armored thickness H (mm) | | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Metric | NPT | Min | Max | Min | Max | | | | | Orientation 1 | Orientation 2 | | |
| 16 | M16x1.5 | 1/2" | 6.0 | 11.0 | 9.0 | 16.0 | 15 | 45.0 | 24 | 27.5 | 0.8~1.25 | 0~0.8 | 709047 | 0.12 |
| 20S | M20x1.5 | 1/2" | 6.0 | 11.0 | 9.0 | 16.0 | 15 | 45.0 | 24 | 27.5 | 0.8~1.25 | 0~0.8 | 709048 | 0.15 |
| 20 | M20x1.5 | 1/2" | 8.5 | 14.5 | 12.0 | 20.0 | 15 | 48.0 | 30 | 33.0 | 0.8~1.25 | 0~0.8 | 709049 | 0.15 |
| 25S | M25x1.5 | 3/4" | 8.5 | 14.5 | 12.0 | 20.0 | 15 | 48.0 | 30 | 33.0 | 0.8~1.25 | 0~0.8 | 709050 | 0.18 |
| 25 | M25x1.5 | 3/4" | 12.0 | 20.0 | 16.0 | 26.0 | 15 | 54.0 | 36 | 40.0 | 1.25~1.6 | 0~0.8 | 709051 | 0.18 |
| 32S | M32x1.5 | 1" | 12.0 | 20.0 | 16.0 | 26.0 | 15 | 54.0 | 36 | 40.0 | 1.25~1.6 | 0~0.8 | 709052 | 0.22 |
| 32 | M32x1.5 | 1" | 17.0 | 26.0 | 20.0 | 33.0 | 15 | 64.5 | 46 | 52.5 | 1.6~2.0 | 0~0.8 | 709053 | 0.30 |
| 40S | M40x1.5 | 1 1/4" | 17.0 | 26.0 | 20.0 | 33.0 | 15 | 64.5 | 46 | 52.5 | 1.6~2.0 | 0~0.8 | 709054 | 0.40 |
| 40 | M40x1.5 | 1 1/4" | 23.0 | 32.0 | 29.0 | 41.0 | 15 | 67.0 | 55 | 64.0 | 1.6~2.0 | 0~0.8 | 709055 | 0.40 |
| 50S | M50x1.5 | 1 1/2" | 23.0 | 32.0 | 29.0 | 41.0 | 15 | 67.0 | 55 | 64.0 | 1.6~2.0 | 0.2~1.0 | 709056 | 0.60 |
| 50 | M50x1.5 | 1 1/2" | 29.0 | 41.0 | 36.0 | 52.0 | 15 | 77.7 | 65 | 74.0 | 1.8~2.5 | 0.2~1.0 | 709057 | 0.60 |
| 63S | M63x1.5 | 2" | 29.0 | 41.0 | 36.0 | 52.0 | 15 | 77.7 | 65 | 74.0 | 1.8~2.5 | 0.2~1.0 | 709058 | 1.00 |
| 63 | M63x1.5 | 2" | 44.0 | 56.0 | 50.0 | 65.0 | 15 | 90.7 | 80 | 92.0 | 1.8~2.5 | 0.2~1.0 | 709059 | 1.20 |
| 75S | M75x1.5 | 2 1/2" | 44.0 | 56.0 | 50.0 | 65.0 | 15 | 90.7 | 80 | 92.0 | 1.8~2.5 | 0.2~1.0 | 709060 | 2.80 |
| 75 | M75x1.5 | 2 1/2" | 54.5 | 68.0 | 61.0 | 78.0 | 15 | 103.7 | 95 | 107.5 | 1.8~2.5 | 0.2~1.0 | 709061 | 2.90 |
| 80S | M80x1.5 | 3" | 54.5 | 68.0 | 61.0 | 78.0 | 15 | 103.7 | 95 | 107.5 | 1.8~2.5 | 0.2~1.0 | 709062 | 3.20 |
| 80 | M80x1.5 | 3" | 67.0 | 73.0 | 75.0 | 89.0 | 15 | 100.2 | 106 | 118.0 | 2.0~3.5 | 0.2~1.0 | 709063 | 3.50 |
| 90 | M90x1.5 | 3 1/2" | 67.0 | 77.0 | 75.0 | 89.0 | 15 | 100.2 | 115 | 113.0 | 2.0~3.5 | 0.2~1.0 | 709064 | 3.90 |
| 100 | M100x1.5 | 4" | 75.0 | 91.0 | 88.0 | 104.0 | 15 | 114.0 | 127 | 145.0 | 2.0~4.0 | 0.2~1.0 | 709065 | 4.55 |

**Note:** 1. Standard material is brass. Nickel plated brass or stainless steel is optional. Above weight is based upon nickel plated brass.
2. Earth lug and shroud on request. See P7/34~35.
3. Metric threads are 1.5mm pitch as standard, others thread pitch can be customized, please specify when ordering.



# Cable Glands
## DQM-III Series Explosion-proof Cable Glands (Ex d IIC Ex e IIC)
## Unarmored Compound Barrier Небронированная Соединение Барьерный

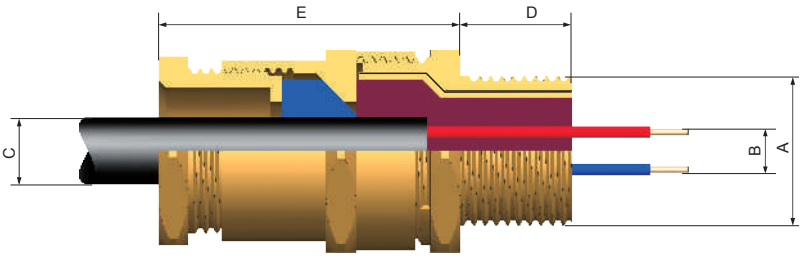
Cable wiring

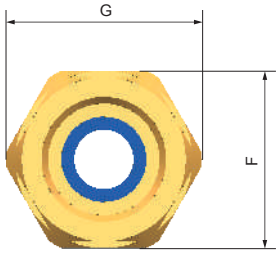
Steel pipe wiring

- Explosion protection to
  - -CENELEC
  - -IEC
  - -NEC
- Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
  - Class I, Zone 1 and Zone 2
  - Class I, Division 1, Groups A , B, C, D
- Ex d, Ex e structure; available in stainless steel, nickel plated brass or galvanized carbon steel.
- With sealring and sealing compound; suitable for unarmored cable.

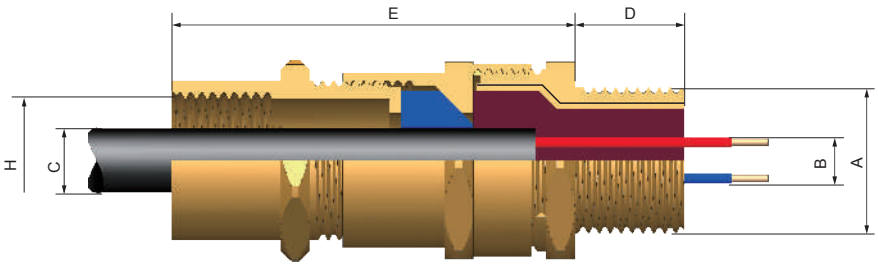
### Technical data

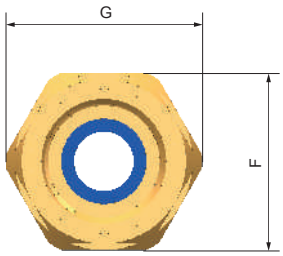
| Explosion-proof cable glands | DQM-III (unarmored compound barrier) |
|---|---|
| **Explosion protection** | |
| Gas explosion protection | Ex II 2 G Ex d IIC Gb  Ex II 2 G Ex e IIC Gb |
| Dust explosion protection | Ex II 2 D Ex tb IIIC Db IP66 |
| **Certificates** | Nemko 10 ATEX 1005X; IECEx CQM 11.0028; RU C-CN.ГБ08.B.00927(CU-TR) KZ.7500525.22.01.00376 (CU-TR) |
| **Conformity to standards** | EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31<br>IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31 |
| **Gland material** | Stainless steel, nickel plated brass or galvanized carbon steel |
| **Degree of protection** | IP66 (IP67 optional) |
| **Ambient temperature** | -20 ~+55 (-60 ~+100 optional) |
| **Connection thread** | Metric thread is standard type; G thread or NPT thread is optional |




Cable wiring




Steel pipe wiring

## Selection table of cable wiring

| Gland size | Entry thread "A" | | | Cable outer diameter B (mm) | Cable outer diameter C (mm) | | Minimum thread length D (mm) | Nominal protrusion length E (mm) | Across flats F (mm) | Across corners G (mm) | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Metric | NPT | G | Max | Min | Max | | | | | | |
| 20S | M20 | 1/2" | 1/2" | 8 | 4 | 9 | 15 | 59 | 27 | 30 | 710001 | 0.11 |
| 20 | M20 | 1/2" | 1/2" | 11 | 7 | 12 | 15 | 59 | 27 | 30 | 710002 | 0.11 |
| 25 | M25 | 3/4" | 3/4" | 16 | 11 | 17 | 15 | 62 | 34 | 37 | 710003 | 0.17 |
| 32 | M32 | 1" | 1" | 21 | 15 | 22 | 19 | 70 | 41 | 45 | 710004 | 0.27 |
| 40S | M40 | 1 1/4" | 1 1/4" | 25 | 22 | 27 | 19 | 77 | 51 | 55 | 710005 | 0.50 |
| 40 | M40 | 1 1/4" | 1 1/4" | 25 | 27 | 32 | 19 | 77 | 51 | 55 | 710006 | 0.50 |
| 50S | M50 | 1 1/2" | 1 1/2" | 31 | 30 | 36 | 19 | 84 | 65 | 70 | 710007 | 0.70 |
| 50 | M50 | 1 1/2" | 1 1/2" | 31 | 36 | 41 | 19 | 84 | 65 | 70 | 710008 | 0.70 |
| 63 | M63 | 2" | 2" | 40 | 36 | 41 | 19 | 86 | 72 | 77 | 710009 | 1.10 |
| 75 | M75 | 2 1/2" | 2 1/2" | 50 | 30 | 50 | 19 | 143 | 95 | 100 | 710010 | 2.50 |
| 90 | M90 | 3" | 3" | 57 | 38 | 57 | 19 | 162 | 110 | 115 | 710011 | 3.00 |
| 115 | M115 | 4" | 4" | 80 | 48 | 80 | 19 | 167 | 125 | 130 | 710012 | 4.00 |

## Selection table of steel pipe wiring

| Gland size | Entry thread "A" | | | Entry thread "H" | | | Cable outer diameter B (mm) | Cable outer diameter C (mm) | | Minimum thread length D (mm) | Nominal protrusion length E (mm) | Across flats F (mm) | Across corners G (mm) | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Metric | NPT | G | Metric | NPT | G | Max | Min | Max | | | | | | |
| 20S | M20 | 1/2" | 1/2" | M20 | 1/2" | 1/2" | 8 | 4 | 9 | 15 | 75 | 27 | 30 | 710013 | 0.16 |
| 20 | M20 | 1/2" | 1/2" | M20 | 1/2" | 1/2" | 11 | 7 | 12 | 15 | 75 | 27 | 30 | 710014 | 0.16 |
| 25 | M25 | 3/4" | 3/4" | M25 | 3/4" | 3/4" | 16 | 11 | 17 | 15 | 75 | 34 | 37 | 710015 | 0.22 |
| 32 | M32 | 1" | 1" | M32 | 1" | 1" | 21 | 15 | 22 | 19 | 88 | 41 | 45 | 710016 | 0.32 |
| 40S | M40 | 1 1/4" | 1 1/4" | M40 | 1 1/4" | 1 1/4" | 25 | 22 | 27 | 19 | 95 | 51 | 55 | 710017 | 0.55 |
| 40 | M40 | 1 1/4" | 1 1/4" | M40 | 1 1/4" | 1 1/4" | 25 | 27 | 32 | 19 | 95 | 51 | 55 | 710018 | 0.55 |
| 50S | M50 | 1 1/2" | 1 1/2" | M50 | 1 1/2" | 1 1/2" | 31 | 30 | 36 | 19 | 102 | 65 | 70 | 710019 | 0.75 |
| 50 | M50 | 1 1/2" | 1 1/2" | M50 | 1 1/2" | 1 1/2" | 31 | 36 | 41 | 19 | 102 | 65 | 70 | 710020 | 0.75 |
| 63 | M63 | 2" | 2" | M63 | 2" | 2" | 40 | 36 | 41 | 19 | 104 | 72 | 77 | 710021 | 1.20 |
| 75 | M75 | 2 1/2" | 2 1/2" | M75 | 2 1/2" | 2 1/2" | 50 | 30 | 50 | 19 | 161 | 95 | 100 | 710022 | 2.60 |
| 90 | M90 | 3" | 3" | M90 | 3" | 3" | 57 | 38 | 57 | 19 | 180 | 110 | 115 | 710023 | 3.20 |
| 115 | M115 | 4" | 4" | M115 | 4" | 4" | 80 | 48 | 80 | 19 | 185 | 125 | 130 | 710024 | 4.20 |

**Note:** 1. Standard material is nickel plated brass. Stainless steel or galvanized carbon steel is optional. Above weight is based upon nickel plated brass.
2. Earth lug and shroud on request. See P7/34~35.
3. Metric threads are 1.5mm pitch as standard, others thread pitch can be customized, please specify when ordering.

# Cable Glands
## DQM-III Series Explosion-proof Cable Glands (Ex d IIC Ex e IIC) Armored Compound Barrier

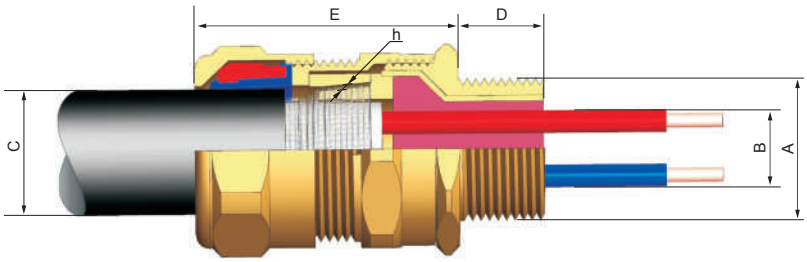
Cable wiring

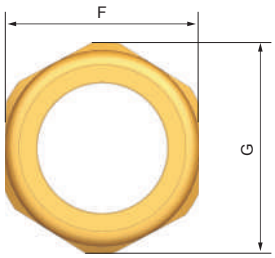
Steel pipe wiring

- Explosion protection to
  - -CENELEC
  - -IEC
  - -NEC
- Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
  - Class I, Zone 1 and Zone 2
  - Class I, Division 1, Groups A , B, C, D
- Ex d, Ex e structure; available in stainless steel, nickel plated brass or galvanized carbon steel.
- With sealing ring and sealing compound; suitable for armored cable.

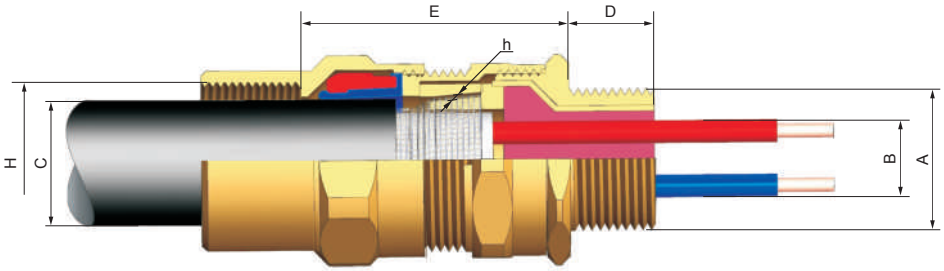
### Technical data

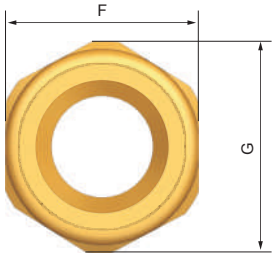
| Explosion-proof cable glands | DQM-III (armored compound barrier) |
|---|---|
| **Explosion protection** | |
| Gas explosion protection | Ex II 2 G Ex d IIC Gb  Ex II 2 G Ex e IIC Gb |
| Dust explosion protection | Ex II 2 D Ex tb IIIC Db IP66 |
| **Certificates** | Nemko 10 ATEX 1005X; IECEx CQM 11.0028; RU C-CN.ГБ08.B.00927(CU-TR) KZ.7500525.22.01.00376 (CU-TR) |
| **Conformity to standards** | EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31<br>IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31 |
| **Gland material** | Stainless steel, nickel plated brass or galvanized carbon steel |
| **Degree of protection** | IP66 (IP67 optional) |
| **Ambient temperature** | -20 ~+55 (-60 ~+100 optional) |
| **Connection thread** | Metric thread is standard type; G thread or NPT thread is optional |




Cable wiring




Steel pipe wiring

# Cable Glands
## DQM-III Series Explosion-proof Cable Glands (Ex d IIC Ex e IIC)
## Armored Compound Barrier

### Selection table of cable wiring

| Gland size | Entry thread "A" | | | Cable outer diameter B (mm) | Cable outer diameter C (mm) | | Minimum thread length D (mm) | Nominal protrusion length E (mm) | Across flats F (mm) | Across corners G (mm) | Range of armored thickness h (mm) | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Metric | NPT | G | Max | Min | Max | | | | | | | |
| 20A | M20 | 1/2" | 1/2" | 10.0 | 5.5 | 12.0 | 15 | 51 | 28 | 31 | 0.3~1.0 | 711001 | 0.12 |
| 20B | M20 | 1/2" | 1/2" | 10.0 | 9.5 | 16.0 | 15 | 51 | 28 | 31 | 0.3~1.0 | 711002 | 0.15 |
| 20C | M20 | 1/2" | 1/2" | 13.0 | 12.5 | 20.5 | 15 | 53 | 34 | 37 | 0.3~1.0 | 711003 | 0.15 |
| 25A | M25 | 3/4" | 3/4" | 10.0 | 9.5 | 16.0 | 15 | 51 | 34 | 37 | 0.3~1.0 | 711004 | 0.19 |
| 25B | M25 | 3/4" | 3/4" | 13.0 | 12.5 | 20.5 | 15 | 53 | 34 | 37 | 0.3~1.0 | 711005 | 0.18 |
| 25C | M25 | 3/4" | 3/4" | 18.0 | 17.0 | 26.0 | 15 | 58 | 41 | 45 | 0.4~1.2 | 711006 | 0.18 |
| 32A | M32 | 1" | 1" | 13.0 | 12.5 | 20.5 | 19 | 53 | 41 | 45 | 0.4~1.2 | 711007 | 0.21 |
| 32B | M32 | 1" | 1" | 18.0 | 17.0 | 26.0 | 19 | 58 | 41 | 45 | 0.4~1.2 | 711008 | 0.27 |
| 32C | M32 | 1" | 1" | 24.0 | 22.0 | 33.0 | 19 | 62 | 49 | 54 | 0.4~1.4 | 711009 | 0.29 |
| 40A | M40 | 1 1/4" | 1 1/4" | 18.0 | 17.0 | 26.0 | 19 | 58 | 49 | 54 | 0.4~1.4 | 711010 | 0.29 |
| 40B | M40 | 1 1/4" | 1 1/4" | 24.0 | 22.0 | 33.0 | 19 | 62 | 49 | 54 | 0.6~1.9 | 711011 | 0.32 |
| 40C | M40 | 1 1/4" | 1 1/4" | 30.0 | 28.0 | 41.0 | 19 | 69 | 60 | 65 | 0.6~2.2 | 711012 | 0.38 |
| 50A | M50 | 1 1/2" | 1 1/2" | 24.0 | 22.0 | 33.0 | 19 | 62 | 60 | 65 | 0.6~2.2 | 711013 | 0.38 |
| 50B | M50 | 1 1/2" | 1 1/2" | 30.0 | 28.0 | 41.0 | 19 | 69 | 60 | 65 | 0.8~2.3 | 711014 | 0.57 |
| 50C | M50 | 1 1/2" | 1 1/2" | 37.0 | 36.0 | 52.5 | 19 | 77 | 72 | 77 | 0.8~2.3 | 711015 | 0.75 |
| 63A | M63 | 2" | 2" | 30.0 | 28.0 | 41.0 | 19 | 69 | 72 | 77 | 0.8~2.3 | 711016 | 0.90 |
| 63B | M63 | 2" | 2" | 37.0 | 36.0 | 52.5 | 19 | 77 | 72 | 77 | 0.9~2.4 | 711017 | 1.10 |
| 63C | M63 | 2" | 2" | 47.0 | 46.0 | 65.0 | 19 | 95 | 86 | 93 | 0.9~2.4 | 711018 | 1.40 |
| 75A | M75 | 2 1/2" | 2 1/2" | 37.0 | 36.0 | 52.5 | 19 | 77 | 84 | 90 | 0.9~2.4 | 711019 | 2.50 |
| 75B | M75 | 2 1/2" | 2 1/2" | 55.0 | 46.0 | 65.0 | 19 | 95 | 86 | 93 | 0.9~2.4 | 711020 | 2.90 |
| 75C | M75 | 2 1/2" | 2 1/2" | 60.0 | 57.0 | 78.0 | 19 | 100 | 102 | 110 | 0.9~2.4 | 711021 | 3.00 |
| 90 | M90 | 3" | 3" | 70.0 | 68.0 | 88.0 | 19 | 100 | 112 | 121 | 0.9~2.4 | 711022 | 3.90 |
| 115 | M115 | 4" | 4" | 90.0 | 83.0 | 103.0 | 19 | 106 | 127 | 137 | 0.9~2.8 | 711023 | 4.60 |

### Selection table of steel pipe wiring

| Gland size | Entry thread "A" | | | Entry thread "H" | | | Cable outer diameter B (mm) | Cable outer diameter C (mm) | | Minimum thread length D (mm) | Nominal protrusion length E (mm) | Across flats F (mm) | Across corners G (mm) | Range of armored thickness h (mm) | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Metric | NPT | G | Metric | NPT | G | Max | Min | Max | | | | | | | |
| 20A | M20 | 1/2" | 1/2" | M20 | 1/2" | 1/2" | 10.0 | 5.5 | 12.0 | 15 | 66 | 28 | 31 | 0.3~1.0 | 711024 | 0.14 |
| 20B | M20 | 1/2" | 1/2" | M20 | 1/2" | 1/2" | 10.0 | 9.5 | 16.0 | 15 | 66 | 28 | 31 | 0.3~1.0 | 711025 | 0.17 |
| 20C | M20 | 1/2" | 1/2" | M25 | 3/4" | 3/4" | 13.0 | 12.5 | 20.5 | 15 | 66 | 34 | 37 | 0.3~1.0 | 711026 | 0.17 |
| 25A | M25 | 3/4" | 3/4" | M20 | 1/2" | 1/2" | 10.0 | 9.5 | 16.0 | 15 | 66 | 34 | 37 | 0.3~1.0 | 711027 | 0.21 |
| 25B | M25 | 3/4" | 3/4" | M25 | 3/4" | 3/4" | 13.0 | 12.5 | 20.5 | 15 | 68 | 34 | 37 | 0.3~1.0 | 711028 | 0.20 |
| 25C | M25 | 3/4" | 3/4" | M32 | 1" | 1" | 18.0 | 17.0 | 26.0 | 15 | 73 | 41 | 45 | 0.4~1.2 | 711029 | 0.20 |
| 32A | M32 | 1" | 1" | M25 | 3/4" | 3/4" | 13.0 | 12.5 | 20.5 | 19 | 68 | 41 | 45 | 0.4~1.2 | 711030 | 0.23 |
| 32B | M32 | 1" | 1" | M32 | 1" | 1" | 18.0 | 17.0 | 26.0 | 19 | 77 | 41 | 45 | 0.4~1.2 | 711031 | 0.29 |
| 32C | M32 | 1" | 1" | M40 | 1 1/4" | 1 1/4" | 24.0 | 22.0 | 33.0 | 19 | 77 | 49 | 54 | 0.4~1.4 | 711032 | 0.31 |
| 40A | M40 | 1 1/4" | 1 1/4" | M32 | 1" | 1" | 18.0 | 17.0 | 26.0 | 19 | 77 | 49 | 54 | 0.4~1.4 | 711033 | 0.31 |
| 40B | M40 | 1 1/4" | 1 1/4" | M40 | 1 1/4" | 1 1/4" | 24.0 | 22.0 | 33.0 | 19 | 81 | 49 | 54 | 0.6~1.9 | 711034 | 0.35 |
| 40C | M40 | 1 1/4" | 1 1/4" | M50 | 1 1/2" | 1 1/2" | 30.0 | 28.0 | 41.0 | 19 | 89 | 60 | 65 | 0.6~2.2 | 711035 | 0.40 |
| 50A | M50 | 1 1/2" | 1 1/2" | M40 | 1 1/4" | 1 1/4" | 24.0 | 22.0 | 33.0 | 19 | 81 | 60 | 65 | 0.6~2.2 | 711036 | 0.40 |
| 50B | M50 | 1 1/2" | 1 1/2" | M50 | 1 1/2" | 1 1/2" | 30.0 | 28.0 | 41.0 | 19 | 88 | 60 | 65 | 0.8~2.3 | 711037 | 0.60 |
| 50C | M50 | 1 1/2" | 1 1/2" | M63 | 2" | 2" | 37.0 | 36.0 | 52.5 | 19 | 97 | 72 | 77 | 0.8~2.3 | 711038 | 0.80 |
| 63A | M63 | 2" | 2" | M50 | 1 1/2" | 1 1/2" | 30.0 | 28.0 | 41.0 | 19 | 86 | 72 | 77 | 0.8~2.3 | 711039 | 1.05 |
| 63B | M63 | 2" | 2" | M63 | 2" | 2" | 37.0 | 36.0 | 52.5 | 19 | 97 | 72 | 77 | 0.9~2.4 | 711040 | 1.25 |
| 63C | M63 | 2" | 2" | M75 | 2 1/2" | 2 1/2" | 47.0 | 46.0 | 65.0 | 19 | 112 | 86 | 93 | 0.9~2.4 | 711041 | 1.60 |
| 75A | M75 | 2 1/2" | 2 1/2" | M63 | 2" | 2" | 37.0 | 36.0 | 52.5 | 19 | 96 | 84 | 90 | 0.9~2.4 | 711042 | 2.70 |
| 75B | M75 | 2 1/2" | 2 1/2" | M75 | 2 1/2" | 2 1/2" | 55.0 | 46.0 | 65.0 | 19 | 112 | 86 | 93 | 0.9~2.4 | 711043 | 3.20 |
| 75C | M75 | 2 1/2" | 2 1/2" | M90 | 3" | 3" | 60.0 | 57.0 | 78.0 | 19 | 119 | 102 | 110 | 0.9~2.4 | 711044 | 3.40 |
| 90 | M90 | 3" | 3" | M115 | 4" | 4" | 70.0 | 68.0 | 88.0 | 19 | 119 | 112 | 121 | 0.9~2.4 | 711045 | 4.20 |
| 115 | M115 | 4" | 4" | M125 | 4 1/2" | 4 1/2" | 90.0 | 83.0 | 103.0 | 19 | 125 | 127 | 137 | 0.9~2.8 | 711046 | 4.90 |

**Note:** 1. Standard material is nickel plated brass. Stainless steel or galvanized carbon steel is optional. Above weight is based upon nickel plated brass.
2. Earth lug and shroud on request. See P7/34~35.
3. Metric threads are 1.5mm pitch as standard, others thread pitch can be customized, please specify when ordering.

# Flexible Conduits
## BNG Series Stainless Steel Explosion-proof Flexible Conduits

- Explosion protection to
  - -CENELEC
  - -IEC
  - -NEC
- Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
  - Class I, Zone 1 and Zone 2
  - Class I, Division 1, Groups A , B, C, D
- Ex d structure; stainless steel body; connectors at both ends in stainless steel.
- Application:
  - -Widely used for flexible connection between explosion-proof boxes or explosion-proof light fittings and pipes
  - -Protect cable from any damage
  - -Highly corrosion-proof

### Catalogue number logic

BNG - □ x □ □ (□) / □ □ (□)

- (□): M: Male thread; F: Female thread
- □□: Size
- □□: Thread — M: Metric thread; NPT: NPT thread; G: Pipe thread
- (□): M: Male thread; F: Female thread
- □: Size
- □: Thread — M: Metric thread; NPT: NPT thread; G: Pipe thread
- □: Length
- BNG: Explosion-proof flexible conduits

### Technical data

**Stainless steel explosion-proof flexible conduits BNG-□x□□(□)/□□(□)**

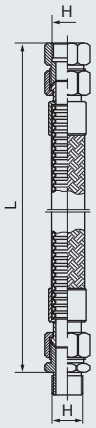
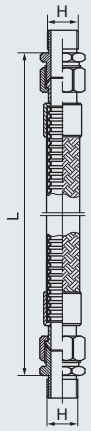
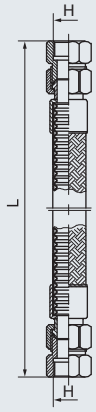
| | |
|---|---|
| **Explosion protection** | |
| Gas explosion protection | Ex II 2 G Ex d IIC Gb |
| Dust explosion protection | Ex II 2 D Ex tD A21 IP66 |
| **Certificates** | DNV 10 ATEX 87636U; IECEx CQM 11.0014U; RU C-CN.ГБ05.B.00345(CU-TR) KZ.7500525.22.01.00372 (CU-TR) |
| **Conformity to standards** | EN 60079-0, EN 60079-1, EN 61241-0, EN 61241-1 IEC 60079-0, IEC 60079-1, IEC 61241-0, IEC 61241-1 |
| **Material** | Stainless steel body; connectors at both ends in stainless steel |
| **Degree of protection** | IP66 |
| **Ambient temperature** | -60 ~+55 |
| **Connection thread** | Metric thread is standard type; G thread or NPT thread is optional |
| **Type** | F/F, M/F or M/M |

**Note:** 1. M75, M90, M115 equivalent G thread and NPT thread can be customized, other length can be customized.
2. Metric threads are 1.5mm pitch as standard, others thread pitch can be customized, please specify when ordering.

# Zones 1&2; 21&22

# Flexible Conduits
## BNG Series Stainless Steel Explosion-proof Flexible Conduits

### Selection table

| Version | Internal nominal diameter (mm) | Pipe connector thread "H" | | | Length L (mm) | Minimum bending radius (mm) | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| | | Metric | NPT | G | | | | |
|  BNG-□x□□(M)/□□(F) | 15 | M20 | 1/2" | 1/2" | 700 | 80 | 712001 | 0.55 |
| | 15 | M20 | 1/2" | 1/2" | 1000 | 80 | 712002 | 0.70 |
| | 20 | M25 | 3/4" | 3/4" | 700 | 110 | 712003 | 0.85 |
| | 20 | M25 | 3/4" | 3/4" | 1000 | 110 | 712004 | 1.00 |
| | 25 | M32 | 1" | 1" | 700 | 145 | 712005 | 1.05 |
| | 25 | M32 | 1" | 1" | 1000 | 145 | 712006 | 1.15 |
| | 32 | M40 | 1 1/4" | 1 1/4" | 700 | 180 | 712007 | 1.25 |
| | 32 | M40 | 1 1/4" | 1 1/4" | 1000 | 180 | 712008 | 1.30 |
| | 40 | M50 | 1 1/2" | 1 1/2" | 700 | 210 | 712009 | 1.70 |
| | 40 | M50 | 1 1/2" | 1 1/2" | 1000 | 210 | 712010 | 1.95 |
| | 50 | M63 | 2" | 2" | 700 | 250 | 712011 | 2.35 |
| | 50 | M63 | 2" | 2" | 1000 | 250 | 712012 | 2.40 |
|  BNG-□x□□(M)/□□(M) | 15 | M20 | 1/2" | 1/2" | 700 | 80 | 712013 | 0.50 |
| | 15 | M20 | 1/2" | 1/2" | 1000 | 80 | 712014 | 0.65 |
| | 20 | M25 | 3/4" | 3/4" | 700 | 110 | 712015 | 0.80 |
| | 20 | M25 | 3/4" | 3/4" | 1000 | 110 | 712016 | 0.95 |
| | 25 | M32 | 1" | 1" | 700 | 145 | 712017 | 1.00 |
| | 25 | M32 | 1" | 1" | 1000 | 145 | 712018 | 1.05 |
| | 32 | M40 | 1 1/4" | 1 1/4" | 700 | 180 | 712019 | 1.15 |
| | 32 | M40 | 1 1/4" | 1 1/4" | 1000 | 180 | 712020 | 1.20 |
| | 40 | M50 | 1 1/2" | 1 1/2" | 700 | 210 | 712021 | 1.60 |
| | 40 | M50 | 1 1/2" | 1 1/2" | 1000 | 210 | 712022 | 1.80 |
| | 50 | M63 | 2" | 2" | 700 | 250 | 712023 | 2.15 |
| | 50 | M63 | 2" | 2" | 1000 | 250 | 712024 | 2.25 |
|  BNG-□x□□(F)/□□(F) | 15 | M20 | 1/2" | 1/2" | 700 | 80 | 712025 | 0.65 |
| | 15 | M20 | 1/2" | 1/2" | 1000 | 80 | 712026 | 0.75 |
| | 20 | M25 | 3/4" | 3/4" | 700 | 110 | 712027 | 0.95 |
| | 20 | M25 | 3/4" | 3/4" | 1000 | 110 | 712028 | 1.05 |
| | 25 | M32 | 1" | 1" | 700 | 145 | 712029 | 1.10 |
| | 25 | M32 | 1" | 1" | 1000 | 145 | 712030 | 1.30 |
| | 32 | M40 | 1 1/4" | 1 1/4" | 700 | 180 | 712031 | 1.35 |
| | 32 | M40 | 1 1/4" | 1 1/4" | 1000 | 180 | 712032 | 1.40 |
| | 40 | M50 | 1 1/2" | 1 1/2" | 700 | 210 | 712033 | 1.80 |
| | 40 | M50 | 1 1/2" | 1 1/2" | 1000 | 210 | 712034 | 2.15 |
| | 50 | M63 | 2" | 2" | 700 | 250 | 712035 | 2.55 |
| | 50 | M63 | 2" | 2" | 1000 | 250 | 712036 | 3.15 |

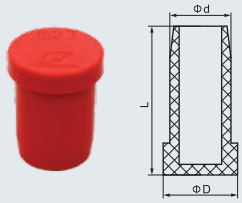
## Accessories

- Explosion protection to
  - -CENELEC
  - -IEC
  - -NEC
- Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
  - Class I, Zone 1 and Zone 2
  - Class I, Division 1, Groups A , B, C, D
  - Class I, Division 2, Groups A , B, C, D

- Accessories for cable gland include stopping rod, stopping plug, shroud, earth lug, etc., meeting requirements of connection between enclosure and cable gland.
- For example, the DQM-I Ex e stopping is used for DQM-I Ex e cable gland to plug up Ex e enclosure.
- Ex e stopping plug in plastic is used to plug up cable entries on Ex e enclosure.
- Ex d stopping plug in aluminium alloy and metal is used to plug up cable entries on Ex d enclosure.
- The shroud protects cable gland against damage.
- The earth lug between cable gland and enclosure is used for earth connection.

Zones 1&2; 21&22

## Selection table of DQM-I Ex e stopping rod




DQM-I Ex e stopping rod

| Version | Specification | Dimensions (mm) | | | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|
| | | L | D | d | | |
| | Φ8 (for M16 x 1.5, M20 x 1.5) | 24 | 10 | 7.5 | 713001 | 0.05 |
| | Φ12 (for M25 x 1.5, M32 x 1.5) | 28 | 13 | 11.5 | 713002 | 0.05 |
| | Φ23 (for M40 x 1.5) | 34 | 27 | 23 | 713003 | 0.05 |
| | Φ32 (for M50 x 1.5, M63 x 1.5) | 34 | 35 | 32 | 713004 | 0.05 |

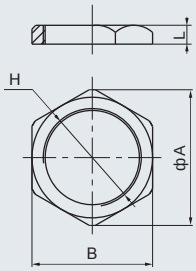
**Material:** Plastic

**Ambient temperature:** -40 ~+55

**Function:** Suitable for DQM-I Ex e unarmored cable gland (see P7/16).

## Selection table of locknut

Locknut

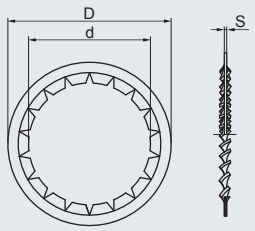



| Version | Entry thread "H" | | | Dimensions (mm) | | | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| | Metric | NPT | G | A | B | L | | |
| | M16 | - | - | 22 | 19 | 3.5 | 714001 | 0.003 |
| | M20 | 1/2" | 1/2" | 27 | 24 | 3 | 714002 | 0.005 |
| | M25 | 3/4" | 3/4" | 36 | 32 | 4 | 714003 | 0.012 |
| | M32 | 1" | 1" | 42 | 38 | 5 | 714004 | 0.017 |
| | M40 | 1 1/4" | 1 1/4" | 51 | 46 | 6 | 714005 | 0.026 |
| | M50 | 1 1/2" | 1 1/2" | 60 | 55 | 6 | 714006 | 0.028 |
| | M63 | 2" | 2" | 75 | 70 | 6 | 714007 | 0.055 |
| | M75 | 2 1/2" | 2 1/2" | 90 | 85 | 6 | 714008 | 0.078 |
| | M90 | 3" | 3" | 105 | 100 | 8 | 714009 | 0.146 |
| | M115 | 4" | 4" | 130 | 125 | 8 | 714010 | 0.255 |

**Material:** Galvanized carbon steel, nickel plated brass or stainless steel.
**Function:** Secures a cable gland in position at the equipment.
**Note:** 1. Metric thread is standard type; G thread or NPT thread is optional. Please specify material when ordering. The above weight is based upon carbon steel.
2. Metric threads are 1.5mm pitch as standard, others thread pitch can be customized, please specify when ordering.

## Selection table of serrated washer

Serrated washer




| Version | Specification | Dimensions (mm) | | | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|
| | | D | d | s | | |
| | For M20 x 1.5 | 33 | 21 | 1.5 | 715001 | 0.005 |
| | For M25 x 1.5 | 37 | 27.5 | 1.5 | 715002 | 0.006 |
| | For M32 x 1.5 | 45.5 | 34 | 1.5 | 715003 | 0.008 |
| | For M40 x 1.5 | 55 | 42.5 | 1.5 | 715004 | 0.010 |
| | For M50 x 1.5 | 64.5 | 50.5 | 1.5 | 715005 | 0.014 |
| | For M63 x 1.5 | 78 | 63.5 | 1.5 | 715006 | 0.024 |
| | For M75 x 1.5 | 92.5 | 75.5 | 1.5 | 715007 | 0.033 |

**Material:** Stainless steel
**Function:** For use on cable gland entry threads.

## Selection table of sealing washer

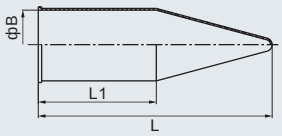
Sealing washer

| Version | Specification | Dimensions (mm) | | | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|
| | | D | d | t | | |
| | For M20 x 1.5 | 28.5 | 20.5 | 1.5 | 716001 | 0.0010 |
| | For M25 x 1.5 | 36.5 | 25.5 | 1.5 | 716002 | 0.0018 |
| | For M32 x 1.5 | 42.5 | 32.5 | 1.5 | 716003 | 0.0019 |
| | For M40 x 1.5 | 50.5 | 40.5 | 1.5 | 716004 | 0.0025 |
| | For M50 x 1.5 | 61.5 | 50.5 | 1.5 | 716005 | 0.0031 |
| | For M63 x 1.5 | 76 | 63.5 | 1.5 | 716006 | 0.0045 |
| | For M75 x 1.5 | 87.5 | 75.5 | 1.5 | 716007 | 0.0051 |
| | For M90 x 1.5 | 115 | 90.5 | 1.5 | 716008 | 0.0130 |
| | For M115 x 1.5 | 135 | 115.5 | 1.5 | 716009 | 0.0122 |

**Material:** Teflon (PTFE)
**Function:** For use on cable gland entry threads.

## Selection table of shroud

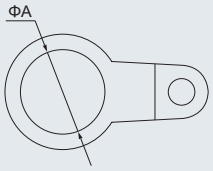
Shroud




| Version | Size Code | Dimensions (mm) | | | For | | | | | | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | DQM-I | | DQM-II | | DQM-III | | | |
| | | B | L | L1 | Metal Unarmored | Metal Armored | Unarmored Single Seal | Armored Dual seal | Unarmored Compound Barrier | Armored Compound Barrier | | |
| | A | 27 | 168 | 120 | - | - | - | M20A/M20B | M20S/M20 | M20A/M20B | 717001 | 0.015 |
| | B | 28 | 103 | 55 | M20 | M20A/M20B | - | - | - | - | 717002 | 0.014 |
| | C | 33 | 116 | 55 | M25 | M20C/M25A/ M25B | M20 | M20C/M25A/ M25B | - | M20C/M25A/ M25B | 717003 | 0.019 |
| | D | 36 | 185 | 120 | - | - | - | - | M25 | - | 717004 | 0.027 |
| | E | 41 | 189 | 120 | M32 | M25C/M32A/ M32B | M25 | M25C/M32A/ M32B | M32 | M25C/M32A/ M32B | 717005 | 0.030 |
| | F | 42 | 139 | 65 | - | - | M32 | - | - | - | 717006 | 0.027 |
| | G | 50 | 225 | 140 | M40 | M32C/M40A/ M40B | M40 | M32C/M40A/ M40B | M40S/M40 | M32C/M40A/ M40B | 717007 | 0.043 |
| | H | 60 | 253 | 150 | M50 | M40C/M50A/ M50B | M50 | M40C/M50A/ M50B | - | M40C/M50A/ M50B | 717008 | 0.073 |
| | I | 68 | 253 | 150 | M63 | - | - | - | M50S/M50 | - | 717009 | 0.095 |
| | J | 75 | 286 | 155 | M75 | M50C/M63A/ M63B | M63 | M50C/M63A/ M63B | M63 | M50C/M63A/ M63B | 717010 | 0.100 |
| | K | 90 | 320 | 175 | - | M63C/M75A/ M75B | - | M63C/M75A/ M75B | M75 | M63C/M75A/ M75B | 717011 | 0.165 |
| | L | 105 | 358 | 185 | - | M75C | M75 | M75C | - | M75C | 717012 | 0.185 |
| | M | 115 | 407 | 200 | - | M90 | M90 | M90 | M90 | M90 | 717013 | 0.235 |
| | N | 130 | 407 | 200 | - | M115 | - | M115 | M115 | M115 | 717014 | 0.359 |
| | O | 140 | 436 | 210 | - | - | M115 | - | - | - | 717015 | 0.414 |

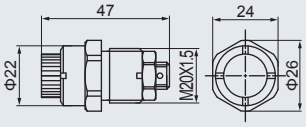
**Material:** silicone rubber (VMQ)
**Function:** For fitting over cable glands when additional environmental and corrosion protection is required.

## Selection table of earth lug

| Version | Specification (ΦA,mm) | Rated short circuit current per second (kA) | Ordering code | Weight(kg) |
|---|---|---|---|---|
| Earth lug   | 20 | 3.0 | 718001 | 0.05 |
| | 25 | 4.0 | 718002 | 0.05 |
| | 32 | 5.4 | 718003 | 0.05 |
| | 40 | 7.2 | 718004 | 0.05 |
| | 50 | 10.4 | 718005 | 0.10 |
| | 63 | 10.4 | 718006 | 0.10 |
| | 75 | 10.4 | 718007 | 0.15 |
| | 90 | 10.4 | 718008 | 0.20 |
| | 115 | 10.4 | 718009 | 0.30 |

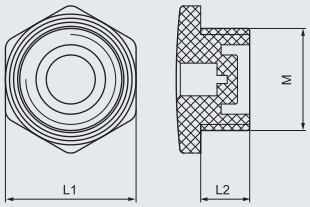
**Material:** Nickel plated brass
**Function:** Earth connection.

## Selection table of BPS(H) explosion-proof drain plug (Breather)




| | |
|---|---|
| **Explosion protection** | Ex II 2 G Ex d IIC Gb |
| **Certificates** | DNV 13 ATEX 2631U; IECEx CQM 13.0035U |
| **Conformity to standards** | EN 60079-0, EN 60079-1 |
| | IEC 60079-0, IEC 60079-1 |
| **Material** | SS316 |
| **Thread specification** | M20×1.5 |
| **Ambient temperature** | -60 ~+150 |

## Selection table of stopping plug (Ex e, plastic)

| Version | Specification | Dimensions(mm) | | | Ordering code | Weight(kg) |
|---|---|---|---|---|---|---|
| | | M | L1 | L2 | | |
| BPT-e Ex e stopping plug (plastic)   | M16 x 1.5 | M16 x 1.5 | 19 | 15 | 719001 | 0.003 |
| | | | | 25 | 719002 | |
| | M20 x 1.5 | M20 x 1.5 | 24 | 15 | 719003 | 0.005 |
| | | | | 25 | 719004 | |
| | M25 x 1.5 | M25 x 1.5 | 29 | 15 | 719005 | 0.005 |
| | | | | 25 | 719006 | |
| | M32 x 1.5 | M32 x 1.5 | 41 | 15 | 719007 | 0.008 |
| | | | | 25 | 719008 | |
| | M40 x 1.5 | M40 x 1.5 | 50 | 15 | 719009 | 0.011 |
| | | | | 25 | 719010 | |
| | M50 x 1.5 | M50 x 1.5 | 57 | 15 | 719011 | 0.022 |
| | | | | 25 | 719012 | |
| | M63 x 1.5 | M63 x 1.5 | 70 | 15 | 719013 | 0.040 |
| | | | | 25 | 719014 | |

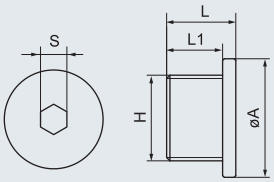
**Explosion protection:** Ex II 2 G Ex eb IIC Gb Ex e IIC Gb
Ex II 2 D Ex tb IIIC Db Ex tb IIIC Db IP66
**Certificate:** EPT 16 ATEX 2502; IECEx CQM 16.0021X
**Degree of protection**: IP66
**Ambient temperature**: -40 ~+70
**Material:** PA66 (Polyamide)
**Function:** To be used at spare entries of explosion-proof equipment; made of plastic; corrosion-proof and waterproof; Metric thread is standard type. Supplied with seal gasket.
**Note:** Shall be used together with locknut.

## Selection table of BPT stopping plug (Ex d Ex e)

**Version**

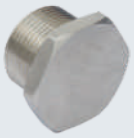
**Explosion protection:** Ⓔx II 2 G Ex db IIC Gb
Ⓔx II 2 G Ex e IIC Gb
Ⓔx II 2 D Ex tb IIIC Db IP66
**Certificate:** LCIE 09 ATEX 3040U; IECEx LCIE 15.0070U; RU C-CN.ГБ08.B.00927(CU-TR)
**Degree of protection:** IP66
**Ambient temperature:** -60 ~ +100
**Material:** Copper-free aluminium, galvanized carbon steel, nickel plated brass or stainless steel.
**Function:** Metric thread is standard type; G thread or NPT thread is optional. To be used at spare entries of explosion-proof equipment; corrosion-proof and waterproof; supplied with seal gasket (not applicable for NPT thread).
**Note:** 1. Please specify material when ordering. The above weight is based upon nickel plated brass.
2. Metric threads are 1.5mm pitch as standard, others thread pitch can be customized, please specify when ordering.

BPT Ex stopping plug

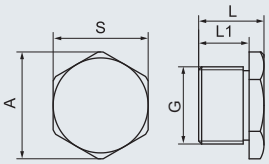



### BPT stopping plug (copper-free aluminium)

| Entry thread "H" | | | Dimensions(mm) | | | | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|---|
| Metric | NPT | G | A | S | L | L1 | | |
| M20 | 1/2" | 1/2" | 30 | 8 | 22 | 17 | 720001 | 0.05 |
| M25 | 3/4" | 3/4" | 36 | 8 | 21 | 17 | 720002 | 0.05 |
| M32 | 1" | 1" | 45 | 10 | 26 | 20 | 720003 | 0.05 |
| M40 | 1 1/4" | 1 1/4" | 54 | 10 | 26 | 20 | 720004 | 0.05 |
| M50 | 1 1/2" | 1 1/2" | 62 | 10 | 26 | 20 | 720005 | 0.10 |
| M63 | 2" | 2" | 77 | 10 | 26 | 20 | 720006 | 0.16 |



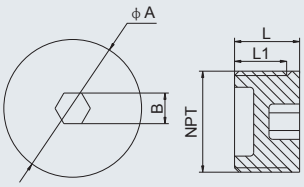
BPT Ex stopping plug (Metric/G)




### BPT stopping plug (galvanized carbon steel, nickel plated brass or stainless steel)

| Entry thread "G" | | Dimensions(mm) | | | | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|---|
| Metric | G | A | S | L | L1 | | |
| M20 | 1/2" | 30 | 27 | 22 | 17 | 720007 | 0.05 |
| M25 | 3/4" | 36 | 32 | 22 | 17 | 720008 | 0.07 |
| M32 | 1" | 42 | 38 | 26 | 20 | 720009 | 0.15 |
| M40 | 1 1/4" | 52 | 47 | 26 | 20 | 720010 | 0.17 |
| M50 | 1 1/2" | 60 | 55 | 26 | 20 | 720011 | 0.26 |
| M63 | 2" | 70 | 66 | 30 | 22 | 720012 | 0.47 |
| M75 | 2 1/2" | 88 | 83 | 30 | 22 | 720013 | 0.66 |
| M90 | 3" | 100 | 95 | 32 | 24 | 720014 | 0.90 |
| M115 | 4" | 127 | 122 | 32 | 24 | 720015 | 1.15 |

BPT Ex stopping plug (NPT)




### BPT stopping plug (galvanized carbon steel, nickel plated brass or stainless steel)

| Entry thread "NPT" | Dimensions(mm) | | | | Ordering code | Weight (kg) |
|---|---|---|---|---|---|---|
| NPT | A | B | L | L1 | | |
| 1/2" | 22 | 10 | 17 | 15 | 720016 | 0.05 |
| 3/4" | 27 | 10 | 17 | 15 | 720017 | 0.07 |
| 1" | 34 | 10 | 21 | 19 | 720018 | 0.15 |
| 1 1/4" | 43 | 10 | 21 | 19 | 720019 | 0.17 |
| 1 1/2" | 49 | 19 | 22 | 19 | 720020 | 0.26 |
| 2" | 61 | 19 | 23 | 20 | 720021 | 0.47 |
| 2 1/2" | 74 | 19 | 32 | 29 | 720022 | 0.66 |
| 3" | 90 | 19 | 34 | 31 | 720023 | 0.90 |
| 4" | 115 | 19 | 38 | 34 | 720024 | 1.15 |

## Description of MCCB and MCB rotary actuator with padlock

| Version | Description | Ordering code | Version | Description | Ordering code |
|---|---|---|---|---|---|
| | MCCB rotary actuator, metal material, with padlock, suitable for the locking bar outer diameter of Φ6-Φ8. | 721001 | | MCB rotary actuator, metal material, with padlock, suitable for the locking bar outer diameter of Φ3-Φ4.5. | 721004 |
| | MCCB rotary actuator, plastic material, with padlock, suitable for the locking bar outer diameter of Φ5.5-Φ8. | 721002 | | MCB rotary actuator, plastic material, with padlock, suitable for the locking bar outer diameter of Φ3-Φ6.5. | 721005 |
| | The product is provided with padlock, suitable for MCCB rotary actuator, the outer diameter of locking bar is Φ6. | 721003 | | The product is provided with padlock, suitable for MCB rotary actuator, the outer diameter of locking bar is Φ4. | 721006 |

**Note:** The coventional color of Padlock is red, other other colors can be customized, please specify when ordering.