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**MANUFACTURERS**
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*INDUSTRIAL ENCLOSURE SOLUTIONS*

COMPLETE SOLUTIONS

# CABLE GLANDS

## FOR ELECTRICAL ENCLOSURES












comercial@delvalle.es | www.delvallebox.com

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## WE PUT AT YOUR DISPOSAL

We offer over **50 years** providing solutions to demanding customers who require very specific characteristics and behaviour according to the sector and their needs.

## WHEREVER YOU GO

We are committed to working closely with our customers, providing them with **exceptional service** and offering an advanced and extensive range of products with very competitive prices.

## HIGH STANDARD OF QUALITY AND SERVICES

We only use materials provided by companies who offer the very **highest quality**, suitable and certified products. Our success is due to top quality assurance: ISO 9001, SGS, UL, TÜV, ISO 14000 and Ohsas 18001.

## CUSTOMIZE TOTALLY YOUR ENCLOSURE

Our production systems can give custom-made solutions **on demand.** Every colour from RAL chart is available to be personalized. A variety of protection standards thanks to our own painting facilities.

EU

**100%**
Diseñado y fabricado íntegramente en España
*Entirely designed and manufactures in Spain*

## CONTACT US

Confidentiality, reliability & quality

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+34 945 601 381

ALSO ONLINE

### Please contact our technical sales department

A team of professionals with high experience and ability to solve all your queries



# STAINLESS STEEL, NICKEL-PLATED BRASS AND POLYAMIDE CABLE GLANDS




Examples

**We have the Largest Stock Cable Glands in the Market, *Next Day* Delivery Service**

Cable glands are suitable for the passage, compression and wire binding between two compartments, such as junction boxes or devices requiring sealing.

With a wide variety and the best quality, we offer a customized solution for each client, whether mounted on the enclosure or box or only the cable glands.

Available in stainless steel, nickeled brass fiberglass-reinforced polyamide and EMC shields with protection up to IP68.

FOR MORE INFORMATION CLICK HERE



# STAINLESS STEEL CABLE GLANDS

Stainless steel cable glands are placed over other materials. They are corrosion resistant, more robust and durable than any other materials used in the construction field.

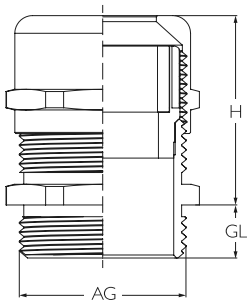
They help you to save money thanks to their low maintenance and their long life (over 20-30 years). The aesthetic aspect is also remarkable, as they have great quality and presence.

## METRIC STAINLESS STEEL AISI 304 AND 316 CABLE GLANDS IP68





- Material:
  - Stainless steel AISI 304
  - Stainless steel AISI 316
- Thread: Metric
- Sealing ring: NBR
- Stainless steel lock nut included
- ULtraviolet (UV) resistance
- Protection: IP68
- Temperature resistance:
  - -40°C to +100°C
  - -40°C to +120°C short time
- Supports: Water, dust, salt, acids, alcohol and oils




| REFERENCES METRIC STAINLESS STEEL AISI 304 CABLE GLANDS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| METRIC STAINLESS STEEL AISI 304 CABLE GLANDS IP68 | SIZE | CABLE RANGE | | THREAD DIAMETER AG (mm) | LENGTH OF THE THREAD GL (mm) | LENGTH OF THE ASSEMBLY GL + H (mm) | (mm) | MINIMUM |
| | | ≥ | ≤ | | | | | |
| DVCG.M12.S4 | M12x1,5 | 3 | 6,5 | 12 | 7 | 19 | 14 | 50 |
| DVCG.M16.S4 | M16x1,5 | 4 | 8 | 16 | 8 | 20 | 18 | 50 |
| DVCG.M20.S4 | M20x1,5 | 8 | 12 | 20 | 8 | 22 | 22 | 50 |
| DVCG.M25.S4 | M25x1,5 | 12 | 16 | 25 | 9 | 27 | 27 | 50 |
| DVCG.M32.S4 | M32x1,5 | 15 | 22 | 32 | 10 | 29 | 35 | 15 |
| DVCG.M40.S4 | M40x1,5 | 18 | 25 | 40 | 11 | 31 | 40/45 | 15 |
| DVCG.M48.S4 | M48x1,5 | 25 | 32 | 48 | 11 | 37 | 50/52 | 4 |
| DVCG.M50.S4 | M50x1,5 | 32 | 38 | 50 | 12 | 37 | 50/55 | 4 |
| DVCG.M63.S4 | M63x1,5 | 37 | 44 | 63 | 13 | 38 | 64/68 | 3 |
| DVCG.M75.S4 | M75x2 | 42 | 52 | 75 | 15 | 42 | 78 | 3 |
| DVCG.M80.S4 | M80x2 | 50 | 62 | 80 | 15 | 45 | 86/88 | 3 |
| DVCG.M88.S4 | M88x2 | 60 | 70 | 88 | 15 | 45 | 98 | 3 |
| DVCG.M100.S4 | M100x2 | 70 | 80 | 100 | 15 | 45 | 110 | 3 |

| REFERENCES METRIC STAINLESS STEEL AISI 316 CABLE GLANDS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| METRIC STAINLESS STEEL AISI 316 CABLE GLANDS IP68 | SIZE | CABLE RANGE | | THREAD DIAMETER AG (mm) | LENGTH OF THE THREAD GL (mm) | LENGTH OF THE ASSEMBLY GL + H (mm) | (mm) | MINIMUM |
| | | ≥ | ≤ | | | | | |
| DVCG.M12.S6 | M12x1,5 | 3 | 6,5 | 12 | 7 | 19 | 14 | 50 |
| DVCG.M16.S6 | M16x1,5 | 4 | 8 | 16 | 8 | 20 | 18 | 50 |
| DVCG.M20.S6 | M20x1,5 | 8 | 12 | 20 | 8 | 22 | 22 | 50 |
| DVCG.M25.S6 | M25x1,5 | 12 | 16 | 25 | 9 | 27 | 27 | 50 |
| DVCG.M32.S6 | M32x1,5 | 15 | 22 | 32 | 10 | 29 | 35 | 15 |
| DVCG.M40.S6 | M40x1,5 | 18 | 25 | 40 | 11 | 31 | 40/45 | 15 |
| DVCG.M48.S6 | M48x1,5 | 25 | 32 | 48 | 11 | 37 | 50/52 | 4 |
| DVCG.M50.S6 | M50x1,5 | 32 | 38 | 50 | 12 | 37 | 50/55 | 4 |
| DVCG.M63.S6 | M63x1,5 | 37 | 44 | 63 | 13 | 38 | 64/68 | 3 |
| DVCG.M75.S6 | M75x2 | 42 | 52 | 75 | 15 | 42 | 78 | 3 |
| DVCG.M80.S6 | M80x2 | 50 | 62 | 80 | 15 | 45 | 86/88 | 3 |
| DVCG.M88.S6 | M88x2 | 60 | 70 | 88 | 15 | 45 | 98 | 3 |
| DVCG.M100.S6 | M100x2 | 70 | 80 | 100 | 15 | 45 | 110 | 3 |

# METRIC EMC STAINLESS STEEL AISI 304 CABLE GLANDS IP68

Modern technologies and modern products are becoming more and more efficient and complex. The demands on general safety and functiona reliability are constantly increasing. More electromagnetic interlinks are taking place as a result of the rising number of electronic appliances. As a result, the "EMC Law" was passed. Since 01.01.1996 there is an EU Directive of Electromagnetic Compatibility 2014/30/UE. In the EMC directive, the following objectives are agreed upon:

- A harmonised and acceptable level of protection
- Electronic devices must not disturb one another
- Devices must have their own adequate level of intrinsic immunity to electromagnetic disturbances.

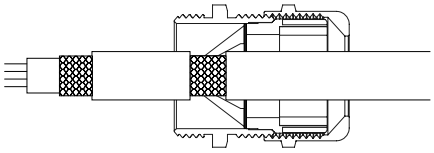
The following requirements on an EMC cable and wiring entry points result from the EMC Law and diverse VDE (Association for Electrical, Electronic & Information Technologies) and ZVEI (Zentralverband Elektrotechnikund Elektronikindustrie E.V.) Directives:

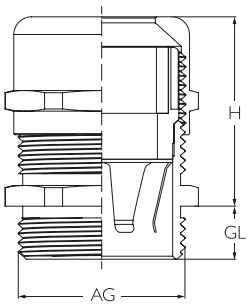
1. The connection of the cable shield/housing must have low ohmic and inductive resistance.
2. Ring-shaped 360° contacting (low ohmic resistance)
3. Short shield (low inductive resistance)
4. Low resistance must be ensured for all environmental influences (dust, humidity, temperature)
5. Large contact surface between the cable shield and the screw connection in order to avoid corrosion and guarantee a good conductive connection. To test the shielding performance of an EMC screw connection, one must view the system screw connection, housing and cables. The obtained measuring result is largely influenced by the shielding effectiveness of the cable used for testing.





- Material: Stainless steel AISI 304
- Thread: Metric
- Sealing ring: NBR
- Stainless steel lock nut included
- ULtraviolet (UV) resistance
- Protection: IP68 - 5 bar
- Certificates: CE, ROHS, REACH
- Temperature resistance:
  - -40°C to +100°C



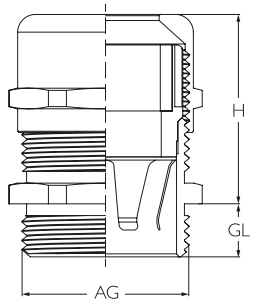



| REFERENCES METRIC EMC STAINLESS STEEL AISI 304 CABLE GLANDS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| METRIC EMC STAINLESS STEEL AISI 304 CABLE GLANDS | SIZE | CABLE RANGE | | THREAD DIAMETER AG (mm) | LENGTH OF THE THREAD GL (mm) | LENGTH OF THE ASSEMBLY GL + H (mm) | (mm) | MINIMUM |
| | | ≥ | ≤ | | | | | |
| DVCG.M12.S4.EMC | M12x1,5 | 3 | 6.5 | 12 | 7 | 19 | 14 | 100 |
| DVCG.M16.S4.EMC | M16x1,5 | 4 | 8 | 16 | 8 | 20 | 18 | 50 |
| DVCG.M20.S4.EMC | M20x1,5 | 6 | 12 | 20 | 8 | 22 | 22 | 50 |
| DVCG.M25S.S4.EMC | M25x1,5 | 10 | 14 | 25 | 9 | 25 | 24/27 | 50 |
| DVCG.M25.S4.EMC | M25x1,5 | 13 | 18 | 25 | 9 | 27 | 27/30 | 50 |
| DVCG.M32.S4.EMC | M32x1,5 | 15 | 22 | 32 | 10 | 29 | 35 | 15 |
| DVCG.M40.S4.EMC | M40x1,5 | 18 | 25 | 40 | 11 | 31 | 40/45 | 15 |
| DVCG.M48.S4.EMC | M48x1,5 | 25 | 33 | 48 | 11 | 37 | 50/52 | 4 |
| DVCG.M50.S4.EMC | M50x1,5 | 32 | 38 | 50 | 12 | 37 | 50/55 | 4 |
| DVCG.M63.S4.EMC | M63x1,5 | 37 | 44 | 63 | 13 | 38 | 64/68 | 3 |

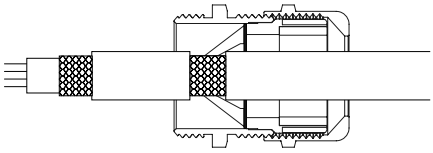
# METRIC EMC STAINLESS STEEL AISI 316 CABLE GLANDS IP68



- Material: Stainless steel AISI 316
- Thread: Metric
- Sealing ring: NBR
- Stainless steel lock nut included
- ULtraviolet (UV) resistance
- Protection: IP68 - 5 bar
- Certificates: CE, ROHS, REACH
- Temperature resistance:
  - -40°C to +100°C





| REFERENCES METRIC EMC STAINLESS STEEL AISI 316 CABLE GLANDS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| METRIC EMC STAINLESS STEEL AISI 316 CABLE GLANDS | SIZE | CABLE RANGE | | THREAD DIAMETER AG (mm) | LENGTH OF THE THREAD GL (mm) | LENGTH OF THE ASSEMBLY GL + H (mm) | (mm) | MINIMUM |
| | | ≥ | ≤ | | | | | |
| DVCG.M12.S6.EMC | M12x1,5 | 3 | 6.5 | 12 | 7 | 19 | 14 | 100 |
| DVCG.M16.S6.EMC | M16x1,5 | 4 | 8 | 16 | 8 | 20 | 18 | 50 |
| DVCG.M20.S6.EMC | M20x1,5 | 6 | 12 | 20 | 8 | 22 | 22 | 50 |
| DVCG.M25S.S6.EMC | M25x1,5 | 12 | 16 | 25 | 9 | 27 | 27/30 | 50 |
| DVCG.M25.S6.EMC | M32x1,5 | 15 | 22 | 32 | 10 | 29 | 35 | 50 |
| DVCG.M32.S6.EMC | M40x1,5 | 18 | 25 | 40 | 11 | 31 | 40/45 | 15 |
| DVCG.M40.S6.EMC | M48x1,5 | 25 | 33 | 48 | 11 | 37 | 50/52 | 15 |
| DVCG.M48.S6.EMC | M50x1,5 | 32 | 38 | 50 | 12 | 37 | 55/57 | 4 |
| DVCG.M50.S6.EMC | M63x1,5 | 37 | 44 | 63 | 13 | 38 | 64/68 | 4 |
| DVCG.M63.S6.EMC | M63x1,5 | 37 | 44 | 63 | 13 | 38 | 64/68 | 3 |



# NICKEL-PLATED BRASS CABLE GLANDS

Nickel-plated cable glands are made of electrically conductive metal.

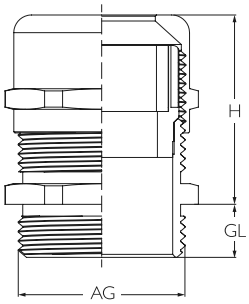
They are resistant to corrosion and react in aggressive media.

## METRIC NICKEL-PLATED BRASS CABLE GLANDS IP68





- Material: Nickel-plated brass
- Thread: Metric
- Sealing ring: NBR
- Nickel-plated brass lock nut included
- ULtraviolet (UV) resistance
- Protection: IP68
- Temperature resistance:
  - -40°C to +100°C
  - -40°C to +120°C short time
- Supports: Water, dust, salt, acids, alcohol and oils




REFERENCES METRIC NICKEL-PLATED BRASS CABLE GLANDS

| METRIC NICKEL-PLATED BRASS CABLE GLANDS | SIZE | CABLE RANGE | | THREAD DIAMETER AG (mm) | LENGTH OF THE THREAD GL (mm) | LENGTH OF THE ASSEMBLY GL + H (mm) | (mm) | MINIMUM |
|---|---|---|---|---|---|---|---|---|
| | | ≥ | ≤ | | | | | |
| DVCG.M12.ON | M12x1,5 | 3 | 6,5 | 12 | 7 | 19 | 14 | 150 |
| DVCG.M16.ON | M16x1,5 | 4 | 8 | 16 | 8 | 20 | 18 | 150 |
| DVCG.M20.ON | M20x1,5 | 6 | 12 | 20 | 8 | 22 | 22 | 150 |
| DVCG.M25.ON | M25x1,5 | 12 | 16 | 25 | 9 | 27 | 27 | 150 |
| DVCG.M32.ON | M32x1,5 | 15 | 22 | 32 | 10 | 29 | 35 | 75 |
| DVCG.M40.ON | M40x1,5 | 18 | 25 | 40 | 11 | 31 | 40/45 | 50 |
| DVCG.M48.ON | M48x1,5 | 25 | 32 | 48 | 11 | 37 | 50/52 | 50 |
| DVCG.M50.ON | M50x1,5 | 32 | 38 | 50 | 12 | 37 | 50/55 | 50 |
| DVCG.M63.ON | M63x1,5 | 37 | 44 | 63 | 13 | 38 | 64/68 | 50 |
| DVCG.M75.ON | M75x2 | 42 | 52 | 75 | 15 | 42 | 78 | 15 |
| DVCG.M80.ON | M80x2 | 50 | 62 | 80 | 15 | 45 | 86/88 | 15 |
| DVCG.M88.ON | M88x2 | 60 | 70 | 88 | 15 | 45 | 98 | 15 |
| DVCG.M100.ON | M100x2 | 70 | 80 | 100 | 15 | 45 | 110 | 15 |



# METRIC EMC NICKEL-PLATED BRASS CABLE GLANDS IP68

Modern technologies and modern products are becoming more and more efficient and complex. The demands on general safety and functiona reliability are constantly increasing. More electromagnetic interlinks are taking place as a result of the rising number of electronic appliances. As a result, the "EMC Law" was passed. Since 01.01.1996 there is an EU Directive of Electromagnetic Compatibility 2014/30/UE. In the EMC Directive, the following objectives are agreed upon:

- A harmonised and acceptable level of protection
- Electronic devices must not disturb one another
- Devices must have their own adequate level of intrinsic immunity to electromagnetic disturbances.

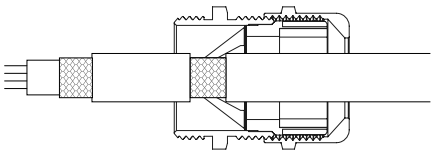
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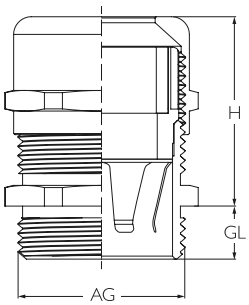
1. The connection of the cable shield/housing must have low ohmic and inductive resistance.
2. Ring-shaped 360° contacting (low ohmic resistance)
3. Short shield (low inductive resistance)
4. Low resistance must be ensured for all environmental influences (dust, humidity, temperature)
5. Large contact surface between the cable shield and the screw connection in order to avoid corrosion and guarantee a good conductive connection. To test the shielding performance of an EMC screw connection, one must view the system screw connection, housing and cables. The obtained measuring result is largely influenced by the shielding effectiveness of the cable used for testing





- Material: Nickel-plated brass
- Thread: Metric
- Sealing ring: NBR
- Nickel-plated brass lock nut included
- ULtraviolet (UV) resistance
- Protection: IP68 - 5 bar
- Certificates: CE, ROHS, REACH
- Temperature resistance:
  - o -40°C to +100°C






| REFERENCES METRIC EMC NICKEL-PLATED BRASS CABLE GLANDS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| METRIC EMC NICKEL-PLATED BRASS CABLE GLANDS | SIZE | CABLE RANGE | | THREAD DIAMETER AG (mm) | LENGTH OF THE THREAD GL (mm) | LENGTH OF THE ASSEMBLY GL + H (mm) | (mm) | MINIMUM |
| | | ≥ | ≤ | | | | | |
| DVCG.M12.ON.EMC | M12x1,5 | 3 | 6.5 | 12 | 7 | 19 | 14 | 150 |
| DVCG.M16.ON.EMC | M16x1,5 | 4 | 8 | 16 | 8 | 20 | 18 | 50 |
| DVCG.M20.ON.EMC | M20x1,5 | 6 | 12 | 20 | 8 | 22 | 22 | 50 |
| DVCG.M25S.S6.EMC | M25x1,5 | 10 | 14 | 25 | 9 | 25 | 24/27 | 50 |
| DVCG.M25.ON.EMC | M25x1,5 | 13 | 18 | 25 | 9 | 27 | 27/30 | 50 |
| DVCG.M32.ON.EMC | M32x1,5 | 15 | 22 | 32 | 10 | 29 | 35 | 15 |
| DVCG.M40.ON.EMC | M40x1,5 | 18 | 25 | 40 | 11 | 31 | 40/45 | 15 |
| DVCG.M48.ON.EMC | M48x1,5 | 25 | 33 | 48 | 11 | 37 | 50/52 | 4 |
| DVCG.M50.ON.EMC | M50x1,5 | 32 | 38 | 50 | 12 | 37 | 50/55 | 4 |
| DVCG.M63.ON.EMC | M63x1,5 | 37 | 44 | 63 | 13 | 38 | 64/68 | 3 |

# POLYAMIDE CABLE GLANDS

Polyamide cable glands are manufactured with a semi-crystalline thermoplastic that has good mechanical strength and high impact strength. These cable glands have good sliding behavior and good wear resistance; they are resistant to aging under high temperatures and for extended periods of time. They also offer high strength and rigidity, even at low temperatures. They resist intrinsic ignition and have excellent dielectric properties and chemical resistance. High resistance to chemical materials like gasoline and fat at the best price.

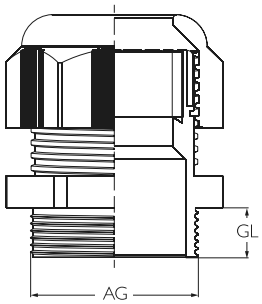
## METRIC AND PG POLYAMIDE CABLE GLANDS IP68







- Material: Polyamide PA66
- Thread:
  - Metric
  - PG
- Sealing ring: NBR
- Polyamide lock nut included
- Color: black RAL 9005
- ULtraviolet (UV) resistance
- Protection: IP68
- Temperature resistance:
  - -40°C to +100°C
  - -40°C to +120°C short time




| REFERENCES METRIC POLYAMIDE CABLE GLANDS | | | | | | | |
|---|---|---|---|---|---|---|---|
| METRIC POLYAMIDE CABLE GLANDS | SIZE | CABLE RANGE | | THREAD DIAMETER AG (mm) | LENGTH OF THE THREAD GL (mm) | (mm) | MINIMUM |
| | | ≥ | ≤ | | | | |
| DVCG.M12.NY | M12x1,5 | 3 | 6,5 | 12 | 8 | 16 | 1000 |
| DVCG.M16.NY | M16x1,5 | 4 | 8 | 16 | 8 | 19 | 1000 |
| DVCG.M20.NY | M20x1,5 | 6 | 12 | 20 | 10 | 24 | 1000 |
| DVCG.M25.NY | M25x1,5 | 12 | 16 | 25 | 10 | 33 | 1000 |
| DVCG.M32.NY | M32x1,5 | 16 | 21 | 32 | 11 | 35 | 500 |
| DVCG.M40.NY | M40x1,5 | 22 | 32 | 40 | 14 | 52 | 100 |
| DVCG.M50.NY | M50x1,5 | 32 | 38 | 50 | 14 | 60 | 100 |
| DVCG.M63.NY | M63x1,5 | 37 | 44 | 63 | 15 | 64 | 100 |

| REFERENCES PG POLYAMIDE CABLE GLANDS * | | | | | | | |
|---|---|---|---|---|---|---|---|
| PG POLYAMIDE CABLE GLANDS * | SIZE | CABLE RANGE | | THREAD DIAMETER AG (mm) | LENGTH OF THE THREAD GL (mm) | (mm) | MINIMUM |
| | | ≥ | ≤ | | | | |
| DVCG.PG7.NY* | PG7 | 3 | 6,5 | 12,5 | 8 | 16 | 1000 |
| DVCG.PG9.NY* | PG9 | 4 | 8 | 15,2 | 8 | 19 | 1000 |
| DVCG.PG11.NY* | PG11 | 5 | 10 | 18,6 | 8 | 22 | 1000 |
| DVCG.PG13.5.NY* | PG13,5 | 6 | 12 | 20,4 | 10 | 24 | 1000 |
| DVCG.PG16.NY* | PG16 | 10 | 14 | 22,5 | 10 | 27 | 1000 |
| DVCG.PG21.NY* | PG21 | 13 | 18 | 28,3 | 10 | 33 | 500 |
| DVCG.PG29.NY* | PG29 | 18 | 25 | 37 | 12 | 42 | 500 |
| DVCG.PG36.NY* | PG36 | 22 | 32 | 47 | 14 | 52 | 100 |
| DVT.PG42.NY* | PG42 | 32 | 38 | 54 | 14 | 60 | 100 |
| DVT.PG48.NY* | PG48 | 37 | 44 | 59,3 | 15 | 64 | 100 |
| DVT.PG63.NY* | PG63 | 42 | 50 | 71 | 28 | 77 | 100 |

* PG cable glands available upon request

# STAINLESS STEEL, NICKEL-PLATED BRASS AND POLYAMIDE PLUGS




Examples

**Place Plugs to Be Able to Enlarge Your Box in the Future**

The plugs are suitable for blocking the passage between two compartments and provide pressure balance between the inside and the outside. They enable to expand the box in the future: junction boxes, electrical boxes or devices that require tightness against the dust, dirt or water.

We have stainless steel plugs, nickel-plated brass and polyamide.

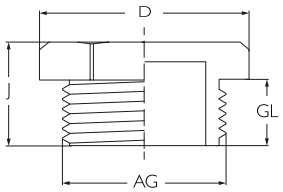
FOR MORE INFORMATION CLICK HERE



# METRIC AND PG STAINLESS STEEL AISI 304 PLUG IP68




- Material: Stainless steel AISI 304
- Thread:
  - Metric
  - PG
- Sealing ring: NBR
- Stainless steel lock nut included
- ULtraviolet (UV) resistance
- Protection: IP68
- Temperature resistance: -40°C +105°C
- Supports:
  - Water
  - Dust
  - Salt
  - Acids
  - Alcohol
  - Oils




| REFERENCES METRIC STAINLESS STEEL AISI 304 PLUG | | | | | | |
|---|---|---|---|---|---|---|
| METRIC STAINLESS STEEL AISI 304 PLUG | SIZE | THREAD DIAMETER AG (mm) | LENGTH OF THE THREAD GL (mm) | J (mm) | D (mm) | MINIMUM |
| DVT.M12.S4 | M12 | 12 | 5 | 8 | 14 | 50 |
| DVT.M16.S4 | M16 | 16 | 6 | 9 | 17 | 50 |
| DVT.M20.S4 | M20 | 20 | 6,5 | 9,5 | 22 | 50 |
| DVT.M25.S4 | M25 | 25 | 6,5 | 10 | 27 | 50 |
| DVT.M32.S4 | M32 | 32 | 7 | 11 | 35 | 15 |
| DVT.M40.S4 | M40 | 40 | 8 | 13 | 43 | 15 |
| DVT.M50.S4 | M50 | 50 | 9 | 15 | 55 | 4 |
| DVT.M63.S4 | M63 | 63 | 10 | 16 | 66 | 4 |

| REFERENCES PG STAINLESS STEEL AISI 304 PLUG * | | | | | | |
|---|---|---|---|---|---|---|
| PG STAINLESS STEEL AISI 304 PLUG * | SIZE | THREAD DIAMETER AG (mm) | LENGTH OF THE THREAD GL (mm) | J (mm) | D (mm) | MINIMUM |
| DVT.PG7.S4* | PG7 | 7 | 5 | 8 | 14 | 50 |
| DVT.PG9.S4* | PG9 | 9 | 6 | 9 | 17 | 50 |
| DVT.PG11.S4* | PG11 | 11 | 6 | 9 | 20 | 50 |
| DVT.PG13.5.S4* | PG13,5 | 13,5 | 6,5 | 9,5 | 22 | 50 |
| DVT.PG16.S4* | PG16 | 16 | 6,5 | 9,5 | 24 | 50 |
| DVT.PG21.S4* | PG21 | 21 | 7 | 11 | 30 | 50 |
| DVT.PG29.S4* | PG29 | 29 | 8 | 12 | 39 | 15 |
| DVT.PG36.S4* | PG36 | 36 | 9 | 15 | 50 | 15 |
| DVT.PG42.S4* | PG42 | 42 | 10 | 16 | 57 | 4 |
| DVT.PG48.S4* | PG48 | 48 | 10 | 16 | 64 | 4 |

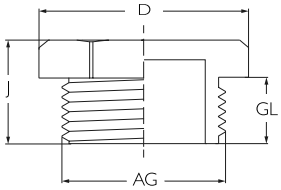
* PG plugs available upon request

# METRIC AND PG STAINLESS STEEL AISI 316 PLUG IP68






- Material: Stainless steel AISI 316
- Thread:
  - Metric
  - PG
- Sealing ring: NBR
- Stainless steel lock nut included
- ULtraviolet (UV) resistance
- Protection: IP68
- Temperature resistance: -40°C +105°C
- Supports:
  - Water
  - Dust
  - Salt
  - Acids
  - Alcohol
  - Oils




| REFERENCES METRIC STAINLESS STEEL AISI 316 PLUG | | | | | | |
|---|---|---|---|---|---|---|
| METRIC STAINLESS STEEL AISI 316 PLUG | SIZE | THREAD DIAMETER AG (mm) | LENGTH OF THE THREAD GL (mm) | J (mm) | D (mm) | MINIMUM |
| DVT.M12.S6 | M12 | 12 | 5 | 8 | 14 | 50 |
| DVT.M16.S6 | M16 | 16 | 6 | 9 | 17 | 50 |
| DVT.M20.S6 | M20 | 20 | 6,5 | 9,5 | 22 | 50 |
| DVT.M25.S6 | M25 | 25 | 6,5 | 10 | 27 | 50 |
| DVT.M32.S6 | M32 | 32 | 7 | 11 | 35 | 15 |
| DVT.M40.S6 | M40 | 40 | 8 | 13 | 43 | 15 |
| DVT.M50.S6 | M50 | 50 | 9 | 15 | 55 | 4 |
| DVT.M63.S6 | M63 | 63 | 10 | 16 | 66 | 4 |

| REFERENCES PG STAINLESS STEEL AISI 316 PLUG * | | | | | | |
|---|---|---|---|---|---|---|
| PG STAINLESS STEEL AISI 316 PLUG * | SIZE | THREAD DIAMETER AG (mm) | LENGTH OF THE THREAD GL (mm) | J (mm) | D (mm) | MINIMUM |
| DVT.PG7.S6* | PG7 | 7 | 5 | 8 | 14 | 50 |
| DVT.PG9.S6* | PG9 | 9 | 6 | 9 | 17 | 50 |
| DVT.PG11.S6* | PG11 | 11 | 6 | 9 | 20 | 50 |
| DVT.PG13.5.S6* | PG13,5 | 13,5 | 6,5 | 9,5 | 22 | 50 |
| DVT.PG16.S6* | PG16 | 16 | 6,5 | 9,5 | 24 | 50 |
| DVT.PG21.S6* | PG21 | 21 | 7 | 11 | 30 | 50 |
| DVT.PG29.S6* | PG29 | 29 | 8 | 12 | 39 | 15 |
| DVT.PG36.S6* | PG36 | 36 | 9 | 15 | 50 | 15 |
| DVT.PG42.S6* | PG42 | 42 | 10 | 16 | 57 | 4 |
| DVT.PG48.S6* | PG48 | 48 | 10 | 16 | 64 | 4 |

* PG plugs available upon request

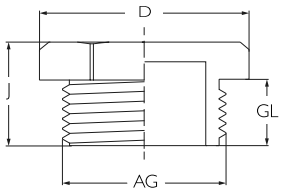
# METRIC AND PG NICKEL-PLATED BRASS PLUG IP68







- Material: Nickel-plated brass
- Thread:
  - Metric
  - PG
- Sealing ring: NBR
- Nickel-plated brass lock nut included
- ULtraviolet (UV) resistance
- Protection: IP68
- Temperature resistance: -40°C +105°C
- Supports:
  - Water
  - Dust
  - Salt
  - Acids
  - Alcohol
  - Oils




| REFERENCES METRIC NICKEL-PLATED BRASS PLUG | | | | | | |
|---|---|---|---|---|---|---|
| METRIC NICKEL-PLATED BRASS PLUG | SIZE | THREAD DIAMETER AG (mm) | LENGTH OF THE THREAD GL (mm) | J (mm) | D (mm) | MINIMUM |
| DVT.M12.ON | M12 | 12 | 5 | 8 | 14 | 150 |
| DVT.M16.ON | M16 | 16 | 6 | 9 | 17 | 150 |
| DVT.M20.ON | M20 | 20 | 6,5 | 9,5 | 22 | 150 |
| DVT.M25.ON | M25 | 25 | 6,5 | 10 | 27 | 150 |
| DVT.M32.ON | M32 | 32 | 7 | 11 | 35 | 75 |
| DVT.M40.ON | M40 | 40 | 8 | 13 | 43 | 75 |
| DVT.M50.ON | M50 | 50 | 9 | 15 | 55 | 50 |
| DVT.M63.ON | M63 | 63 | 10 | 16 | 66 | 15 |

| REFERENCES PG Nickel-plated brass PLUG * | | | | | | |
|---|---|---|---|---|---|---|
| PG NICKEL-PLATED BRASS PLUG * | SIZE | THREAD DIAMETER AG (mm) | LENGTH OF THE THREAD GL (mm) | J (mm) | D (mm) | MINIMUM |
| DVT.PG7.ON* | PG7 | 7 | 5 | 8 | 14 | 150 |
| DVT.PG9.ON* | PG9 | 9 | 6 | 9 | 17 | 150 |
| DVT.PG11.ON* | PG11 | 11 | 6 | 9 | 20 | 150 |
| DVT.PG13.5.ON* | PG13,5 | 13,5 | 6,5 | 9,5 | 22 | 150 |
| DVT.PG16.ON* | PG16 | 16 | 6,5 | 9,5 | 24 | 150 |
| DVT.PG21.ON* | PG21 | 21 | 7 | 11 | 30 | 150 |
| DVT.PG29.ON* | PG29 | 29 | 8 | 12 | 39 | 75 |
| DVT.PG36.ON* | PG36 | 36 | 9 | 15 | 50 | 75 |
| DVT.PG42.ON* | PG42 | 42 | 10 | 16 | 57 | 50 |
| DVT.PG48.ON* | PG48 | 48 | 10 | 16 | 64 | 50 |

* PG plugs available upon request

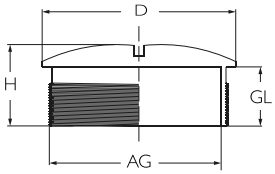
# METRIC AND PG POLYAMIDE PLUG IP68







- Material: Polyamide PA66
- Thread:
  - Metric
  - PG
- Sealing ring: NBR
- Polyamide lock nut included
- Color: Black RAL 9005
- ULtraviolet (UV) resistance
- Protection: IP68
- Temperature resistance:
  - -40°C to +100°C
  - -40°C to +120°C short time




| REFERENCES METRIC POLYAMIDE PLUG | | | | | | |
|---|---|---|---|---|---|---|
| METRIC POLYAMIDE PLUG | SIZE | THREAD DIAMETER AG (mm) | LENGTH OF THE THREAD GL (mm) | H (mm) | D (mm) | MINIMUM |
| DVT.M12.NY | M12 | 12 | 8,5 | 12,5 | 15 | 2000 |
| DVT.M16.NY | M16 | 16 | 8,5 | 13 | 19 | 2000 |
| DVT.M20.NY | M20 | 20 | 9 | 13 | 25 | 2000 |
| DVT.M25.NY | M25 | 25 | 10,5 | 15,5 | 30 | 2000 |
| DVT.M32.NY | M32 | 32 | 10,5 | 16 | 38 | 2000 |
| DVT.M40.NY | M40 | 40 | 11,5 | 16 | 46 | 1000 |
| DVT.M50.NY | M50 | 50 | 13,5 | 18 | 56 | 1000 |
| DVT.M63.NY | M63 | 63 | 14 | 19 | 68 | 750 |

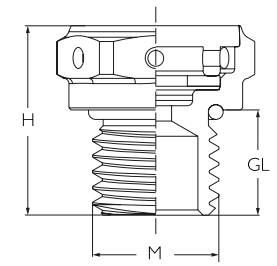
| REFERENCES PG POLYAMIDE PLUG * | | | | | | |
|---|---|---|---|---|---|---|
| PG POLYAMIDE PLUG * | SIZE | THREAD DIAMETER AG (mm) | LENGTH OF THE THREAD GL (mm) | H (mm) | D (mm) | MINIMUM |
| DVT.PG7.NY* | PG7 | 12,5 | 8,5 | 12,5 | 15 | 2000 |
| DVT.PG9.NY* | PG9 | 15,2 | 8,5 | 13 | 19 | 2000 |
| DVT.PG11.NY* | PG11 | 18,6 | 9, | 13 | 22 | 2000 |
| DVT.PG13.5.NY* | PG13,5 | 20,4 | 9, | 13 | 25 | 2000 |
| DVT.PG16.NY* | PG16 | 22,5 | 10,5 | 15 | 27 | 2000 |
| DVT.PG21.NY* | PG21 | 28,3 | 10,5 | 15, | 33 | 2000 |
| DVT.PG29.NY* | PG29 | 37 | 11,5 | 16 | 44 | 1000 |
| DVT.PG36.NY* | PG36 | 47 | 13,5 | 18 | 55 | 1000 |
| DVT.PG42.NY* | PG42 | 54 | 13,5 | 18,5 | 62 | 750 |
| DVT.PG48.NY* | PG48 | 59,3 | 14,5 | 19,5 | 68 | 750 |

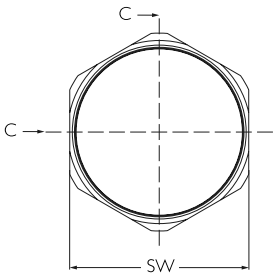
* PG plugs available upon request

# VENTILATION PLUGS IP68

Ventilation plugs; (polyamide, Nickel-plated brass and stainless steel) reduce the adverse effects of humidity in the environment circulation by preventing pressure increase inside the enclosure and limiting temperature increase through air.

- Material:
  - Polyamide PA6
  - Nickel-plated brass
  - Stainless steel AISI 303L
- Sealing ring: NBR
- Membrane: Hydrophobic-Oleophobic
- Lock nut included
- ULtraviolet (UV) resistance
- Protection: IP68
- Temperature resistance: -40°C +105°C
- Application area:
  - Automation technology
  - Wind-solar energy
  - Industrial
  - Equipment
- Benefits:
  - Pressure compensating seal prevents build up of pressure inside of electronic enclosure due to enviromental temperature cycling.
  - It extends the life time on complete system with it's basic feature.
  - Prevents the enclosures against corrosion.




| REFERENCES VENTILATION PLUG | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| REFERENCES | MATERIAL | SIZE | H (mm) | GL (mm) | (mm) | THREAD DIAMETER (mm) | HOLE DIAMETER (mm) | AVERAGE AIR FLOW (l/h) | WATER INTRUSION (mbar) | MINIMUM |
| MVVAC02 | Polyamide PA6 | M12x1,5 | 15 | 6 | 18 | 12 | 12,3 | 150 | 0,2 | 100 |
| MVVAC02L | Polyamide PA6 | M12x1,5 | 19 | 10 | 18 | 12 | 12,3 | 150 | 0,2 | 100 |
| MVVAC03 | Nickel-plated brass | M12x1,5 | 14 | 6 | 17 | 12 | 12,3 | 150 | 0,5 | 50 |
| MVVAC03L | Nickel-plated brass | M12x1,5 | 18 | 10 | 17 | 12 | 12,3 | 150 | 0,5 | 50 |
| MVVAC01 | Stainless steel AISI303L | M12x1,5 | 14 | 6 | 17 | 12 | 12,3 | 150 | 0,8 | 30 |
| MVVAC01L | Stainless steel AISI303L | M12x1,5 | 18 | 10 | 17 | 12 | 12,3 | 150 | 0,8 | 30 |



# EX CABLE GLANDS
# FOR HAZARDOUS AREAS



Zones 1, 2, 21 and 22

# CABLE GLANDS EX D/E ATEX



Examples

## The Most Powerful Security

**Cable glands, stopper plugs, adapters, reducers,... Atex made by Atex Delvalle** are used for passing, blocking and holding cables between two compartments, such as Atex junction boxes, Atex cabinets and electrical boxes or devices requiring sealing against dust, dirt or water in **hazardous area**s, places considered as potentially explosive, such all **zones: 1, 2, 21 and 22.**

FOR MORE INFORMATION CLICK HERE



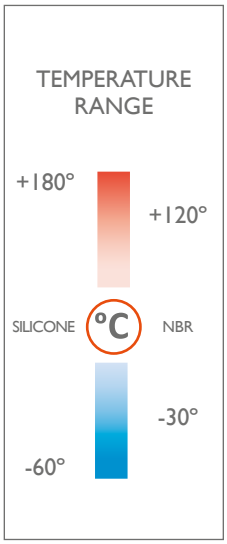
# CABLE GLANDS EX D/E ATEX

## CABLE GLANDS NICKEL-PLATED BRASS AND STAINLESS STEEL

### CABLE GLANDS UNARMOURED EX D / EX E IP66 - IP68

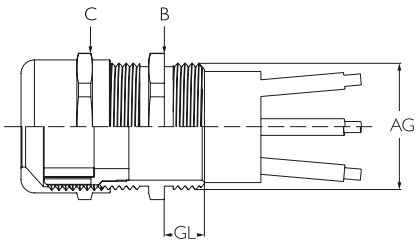


- Material:
  - Nickel-plated brass
  - Stainless steel AISI303
  - Stainless steel AISI304L
  - Stainless steel AISI316L
- O-ring: NBR or silicone (optional)
- ULtraviolet (UV) resistance
- Normative and marking:
  - IEP 21 ATEX 0967X
  - II 2G Exd/e IIC Gb II 1D Ex ta IIIC Da I M2 Exd/e I Mb
  - EN 60079-0:2009, 60079-1:2007, 60079-31:2009
- Protection class: IP66 / IP68 (EN 60529)
- Application area:
  - Zones 1, 2, 21 and 22
  - Group Gas IIA, IIB and IIC




Reference configuration. Examples: MCNAE.M16.SI.S6 or MCNAD.N1-1/4.NB.S4

| 1 Type | + | 2 Size | + | 3 O-ring | + | 4 Material |
|---|---|---|---|---|---|---|
| **MCNAD**<br>**MCNAE** | | **M**: Entry thread<br>**N**: Conic thread | | **NB**: NBR<br>**SI**: Silicone (optional) | | **ON**: Nickel-plated brass<br>**S3**: Stainless steel AISI303L<br>**S4**: Stainless steel AISI304L<br>**S6**: Stainless steel AISI 316L |
| MCNAE | | M16 | | SI | | S6 |




REFERENCES CABLE GLANDS UNARMOURED EX D / EX E

| CABLE GLANDS UNARMOURED EX D / EX E | SIZE | ENTRY THREAD ISO 262 (AG) | CONIC THREAD NPT (AG) | CLAMPING RANGE (mm) | | GL (mm) | (mm) | | MINIMUM |
|---|---|---|---|---|---|---|---|---|---|
| | | | | MIN. | MAX. | | B | C | |
| MCNAD | M12 - N1/4 | M12x1,5 | 1/4" | 3 | 6,5 | 15 | 14 | 14 | 150* / 75** |
| MCNAD | M16 - N3/8 | M16x1,5 | 3/8" | 4 | 8 | 15 | 18 | 17 | 150* / 75** |
| MCNAD | M20 - N1/2 | M20x1,5 | 1/2" | 6 | 12 | 15 | 22 | 22 | 150* / 75** |
| MCNAD | M25S - N3/4S | M25Sx1,5 | 3/4" | 10 | 14 | 15 | 27 | 24 | 150* / 75** |
| MCNAD | M25 - N3/4 | M25x1,5 | 3/4" | 13 | 18 | 15 | 30 | 30 | 150* / 75** |
| MCNAD | M32 - N1 | M32x1,5 | 1" | 13 | 18 | 15 | 34 | 30 | 75* / 30** |
| MCNAD | M40 - N1-1/4 | M40x1,5 | 1 1/4" | 18 | 25 | 15 | 43 | 40 | 75* / 30** |
| MCNAD | M50 - N1-1/2 | M50x1,5 | 1 1/2" | 22 | 32 | 15 | 55 | 50 | 75* / 30** |
| MCNAD | M63S - N2S | M63Sx1,5 | 2" | 33 | 44 | 15 | 68 | 64 | 75* / 30** |
| MCNAD | M63 - N2 | M63x1,5 | 2" | 45 | 55 | 15 | 70 | 75 | 75* / 30** |
| MCNAD | M75S - N2-1/2S | M75Sx1,5 | 2 1/2" | 45 | 55 | 15 | 85 | 75 | 30* / 15** |
| MCNAD | M75 - N2-1/2 | M75x1,5 | 2 1/2" | 50 | 63 | 20 | 90 | 90 | 30* / 15** |
| MCNAD | M80 - N3S | M80x2 | 3" | 50 | 63 | 20 | 90 | 90 | 30* / 15** |
| MCNAD | M90 - N3 | M90x2 | 3" | 60 | 70 | 20 | 100 | 100 | 30* / 15** |
| MCNAE | M12 - N1/4 | M12x1,5 | 1/4" | 3 | 6,5 | 6 | 14 | 14 | 150* / 75** |
| MCNAE | M16 - N3/8 | M16x1,5 | 3/8" | 4 | 8 | 7 | 18 | 17 | 150* / 75** |
| MCNAE | M20 - N1/2 | M20x1,5 | 1/2" | 6 | 12 | 8 | 22 | 22 | 150* / 75** |
| MCNAE | M25S - N3/4S | M25Sx1,5 | 3/4" | 10 | 14 | 8 | 27 | 24 | 150* / 75** |
| MCNAE | M25 - N3/4 | M25x1,5 | 3/4" | 13 | 18 | 8 | 30 | 30 | 150* / 75** |
| MCNAE | M32 - N1 | M32x1,5 | 1" | 13 | 18 | 9 | 34 | 30 | 75* / 30** |
| MCNAE | M40 - N1-1/4 | M40x1,5 | 1 1/4" | 18 | 25 | 9 | 43 | 40 | 75* / 30** |
| MCNAE | M50 - N1-1/2 | M50x1,5 | 1 1/2" | 22 | 32 | 9 | 55 | 50 | 75* / 30** |
| MCNAE | M63S - N2S | M63Sx1,5 | 2" | 33 | 44 | 14 | 68 | 64 | 75* / 30** |
| MCNAE | M63 - N2 | M63x1,5 | 2" | 45 | 55 | 15 | 70 | 75 | 75* / 30** |
| MCNAE | M75S - N2-1/2S | M75Sx1,5 | 2 1/2" | 45 | 55 | 15 | 85 | 75 | 30* / 15** |
| MCNAE | M75 - N2-1/2 | M75x1,5 | 2 1/2" | 50 | 63 | 20 | 90 | 90 | 30* / 15** |
| MCNAE | M80 - N3S | M80x2 | 3" | 50 | 63 | 20 | 90 | 90 | 30* / 15** |
| MCNAE | M90 - N3 | M90x2 | 3" | 60 | 70 | 20 | 100 | 100 | 30* / 15** |

* Nickel-plated brass

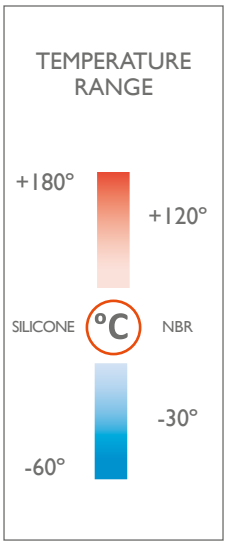
** Stainless steel AISI303L - Stainless steel AISI304L - Stainless steel AISI316L

# CABLE GLANDS EX D/E ATEX

## DOUBLE COMPRESSION CABLE GLANDS ARMOURED EX D/E IP66 - IP68

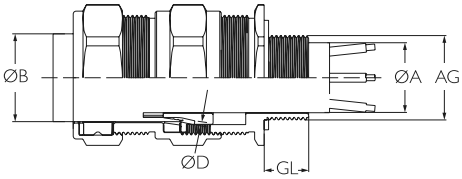


- Material:
  - Nickel-plated brass
  - Stainless steel AISI303
  - Stainless steel AISI304L
  - Stainless steel AISI316L
- O-ring: NBR or silicone (optional)
- ULtraviolet (UV) resistance
- Normative and marking:
  - IE P 21 ATEX 0966X
  - II 2G Exd/e IIC Gb II 1D Ex ta IIIC Da I M2 Exd/e I Mb
  - EN 60079-0:2009, 60079-1:2007, 60079-31:2009
- Protection class: IP66 / IP68 (EN 60529)
- Application area:
  - Zones 1, 2, 21 and 22
  - Group Gas IIA, IIB and IIC




Reference configuration. Examples: MVCGA2.M16.SI.S6 or MVCGA2.N1/2.NB.S3

| 1 Type | + | 2 Size | + | 3 O-ring | + | 4 Material |
|---|---|---|---|---|---|---|
| **MVCGA2** | | **M**: Entry thread<br>**N**: Conic thread | | **NB**: NBR<br>**SI**: Silicone (optional) | | **ON**: Nickel-plated brass<br>**S3**: Stainless steel AISI303L<br>**S4**: Stainless steel AISI304L<br>**S6**: Stainless steel AISI 316L |
| MVCGA2 | | M16 | | SI | | S6 |




REFERENCES DOUBLE COMPRESSION CABLE GLANDS ARMOURED EX D/E

| DOUBLE COMPRESSION CABLE GLANDS ARMOURED EX D/E | SIZE | ENTRY THREAD ISO 262 (AG) | CONIC THREADS NPT (AG) | A | | B | | Ø D | | GL (mm) | (mm) | MINIMUM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | | | |
| MVCGA2 | M16 - N1/2SS | M16x1,5 | 1/2" | 3,1 | 8,6 | 6,1 | 13,2 | 0,8 | 1,0 | 15 | 24 | 150* / 75** |
| MVCGA2 | M20S - N1/2S | M20Sx1,5 | 1/2" | 6,1 | 11,6 | 9,5 | 15,9 | 0,8 | 1,25 | 15 | 24 | 150* / 75** |
| MVCGA2 | M20 - N1/2 | M20x1,5 | 1/2" | 6,5 | 13,9 | 12,5 | 20,9 | 0,8 | 1,25 | 15 | 30 | 150* / 75** |
| MVCGA2 | M25S - N3/4S | M25Sx1,5 | 3/4" | 11,1 | 19,9 | 14 | 22 | 1,25 | 1,60 | 15 | 38 | 150* / 75** |
| MVCGA2 | M25 - N3/4 | M25x1,5 | 3/4" | 11,1 | 19,9 | 18,2 | 26,2 | 1,25 | 1,60 | 15 | 38 | 150* / 75** |
| MVCGA2 | M32 - N1 | M32x1,5 | 1" | 18,2 | 26,2 | 23,7 | 33,9 | 1,6 | 2,0 | 15 | 45 | 150* / 75** |
| MVCGA2 | M40 - N11/4 | M40x1,5 | 1 1/4" | 23,7 | 33,9 | 27,9 | 40,4 | 1,6 | 2,0 | 15 | 55 | 75* / 30** |
| MVCGA2 | M50S - N11/2 | M50Sx1,5 | 1 1/2" | 29,5 | 38,1 | 35,2 | 46,7 | 2,0 | 2,5 | 15 | 60 | 75* / 30** |
| MVCGA2 | M50 - N2S | M50x1,5 | 2" | 35,6 | 44,0 | 40,4 | 53,1 | 2,0 | 2,5 | 15 | 70 | 75* / 30** |
| MVCGA2 | M63S - N2 | M63Sx1,5 | 2" | 40,1 | 49,9 | 45,6 | 59,4 | 2,0 | 2,5 | 15 | 75 | 75* / 30** |
| MVCGA2 | M63 - N21/2S | M63x1,5 | 2 1/2" | 47,2 | 55,9 | 54,6 | 65,9 | 2,0 | 2,5 | 15 | 80 | 75* / 30** |
| MVCGA2 | M75S - N21/2 | M75Sx1,5 | 2 1/2" | 52,8 | 61,9 | 59 | 72,1 | 2,0 | 2,5 | 15 | 90 | 30* / 15** |
| MVCGA2 | M75 - N3S | M75x1,5 | 3" | 59,1 | 67,9 | 66,7 | 78,5 | 2,5 | 3,0 | 15 | 100 | 30* / 15** |
| MVCGA2 | M90 - N3 | M90x2,0 | 3" | 66,6 | 79,9 | 76,2 | 90,4 | 3,0 | 3,5 | 15 | 115 | 30* / 15** |
| MVCGA2 | M100 | M100x2,0 | - | 76 | 90 | 86,1 | 101,5 | 3,15 | 4,0 | 15 | 123 | 30* / 15** |
| MVCGA2 | M115 | M115x2,0 | - | 86 | 97,9 | 101,5 | 110,3 | 3,15 | 4,0 | 15 | 133 | 30* / 15** |
| MVCGA2 | M130 | M130x2,0 | - | 97 | 114,9 | 114,2 | 123,3 | 3,15 | 4,0 | 15 | 146 | 30* / 15** |

* Nickel-plated brass

** Stainless steel AISI303L - Stainless steel AISI304L - Stainless steel AISI316L

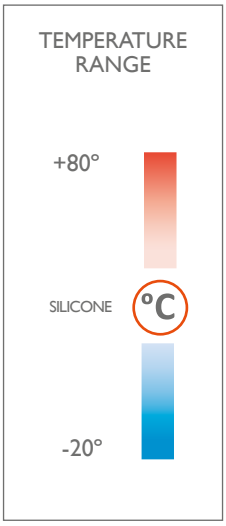
# CABLE GLANDS EX D/E ATEX

## CABLE GLANDS POLYAMIDE

### CABLE GLANDS POLYAMIDE EX E IP68

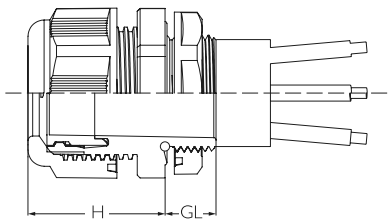


- Material: Polyamide (Nylon) - UL 94 V-2
- O-ring Silicone
- Features: V2 (UL94), halogen free, not containing any cadmium phosphorus, UV-resistance and anti-aging test
- Marking:
  - Ex e IIC Gb
  - Ex tD A21 IP68
- Protection class: IP68
- Application area:
  - Zones 1, 2, 21 and 22
  - Group Gas IIA, IIB and IIC




Reference configuration. Examples: MVCG.M16.EXE.NY or MVCG.M40.EXE.NY

| 1 | + | 2 | + | 3 | + | 4 |
|---|---|---|---|---|---|---|
| Type **MVCG** | | Size | | Atex **EXE** | | Material **NY** |
| MVCG | | M16 | | EXE | | NY |




| REFERENCES POLYAMIDE CABLE GLANDS EX/E | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| POLYAMIDE CABLE GLANDS EX/E | SIZE | ENTRY THREAD ISO 262 | CLAMPING RANGE | | H (mm) | GL (mm) | (mm) | MINIMUM |
| | | | ≥ | ≤ | | | | |
| MVCG | M12 | M12x1,5 | 3 | 6,5 | 21 | 8 | 15 | 200 |
| MVCG | M16 | M16x1,5 | 5 | 10 | 25 | 8 | 22 | 200 |
| MVCG | M20 | M20x1,5 | 10 | 14 | 28 | 9 | 27 | 200 |
| MVCG | M25 | M25x1,5 | 13 | 18 | 31 | 11 | 33 | 200 |
| MVCG | M32 | M32x1,5 | 18 | 25 | 37 | 11 | 42 | 100 |
| MVCG | M40 | M40x1,5 | 22 | 32 | 48 | 13 | 53 | 100 |
| MVCG | M50 | M50x1,5 | 32 | 38 | 49 | 13 | 60 | 40 |
| MVCG | M63 | M63x1,5 | 37 | 44 | 49 | 14 | 65 / 68 | 40 |

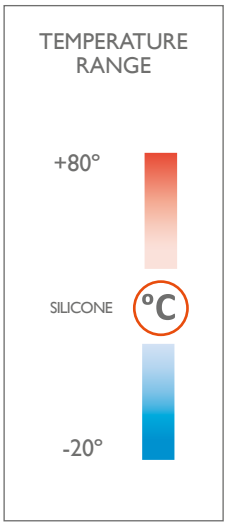


# CABLE GLANDS EX D/E ATEX

## CABLE GLANDS ATEX INCREASED SECURITY POLYAMIDE EX I IP68

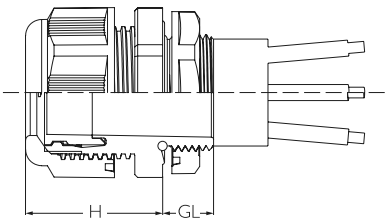


- Material: Polyamide (Nylon) - UL 94 V-2
- O-ring Silicone
- Features: V2 (UL94), halogen free, not containing any cadmium phosphorus, UV-resistance and anti-aging test
- Marking:
  - Ex e IIC Gb
  - Ex tD A21 IP68
- Protection class: IP68
- Application area:
  - Zones 1, 2, 21 and 22
  - Group Gas IIA, IIB and IIC




Reference configuration. Examples: MVCG.M16.EX.AZ.NY or MVCG.M40.EX.AZ.NY

| 1 | + | 2 | + | 3 | + | 4 |
|---|---|---|---|---|---|---|
| Type **MVCG** | | Size | | Atex **EX.AZ** | | Material **NY** |
| MVCG | | M16 | | EX.AZ | | NY |




| REFERENCES POLYAMIDE CABLE GLANDS EX/I | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| POLYAMIDE CABLE GLANDS EX/I | SIZE | ENTRY THREAD ISO 262 | CLAMPING RANGE | | H (mm) | GL (mm) | (mm) | MINIMUM |
| | | | ≥ | ≤ | | | | |
| MVCG | M12 | M12x1,5 | 3 | 6,5 | 21 | 8 | 15 | 200 |
| MVCG | M16 | M16x1,5 | 5 | 10 | 25 | 8 | 22 | 200 |
| MVCG | M20 | M20x1,5 | 10 | 14 | 28 | 9 | 27 | 200 |
| MVCG | M25 | M25x1,5 | 13 | 18 | 31 | 11 | 33 | 200 |
| MVCG | M32 | M32x1,5 | 18 | 25 | 37 | 11 | 42 | 100 |
| MVCG | M40 | M40x1,5 | 22 | 32 | 48 | 13 | 53 | 100 |
| MVCG | M50 | M50x1,5 | 32 | 38 | 49 | 13 | 60 | 40 |
| MVCG | M63 | M63x1,5 | 37 | 44 | 49 | 14 | 65 / 68 | 40 |



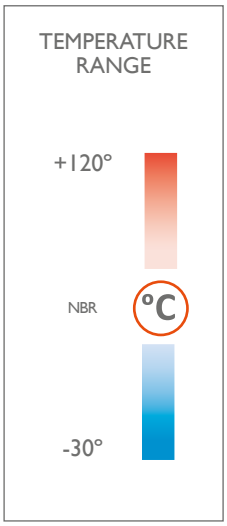
# CABLE GLANDS EX D/E ATEX

## PLUGS

### STOPPER PLUG EX D/E IP66 - IP68

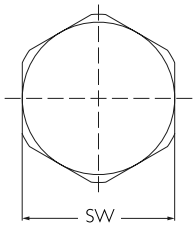


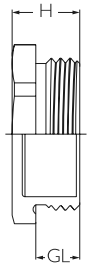
- Material:
  - Nickel-plated brass
  - Stainless steel AISI303
  - Stainless steel AISI304L
  - Stainless steel AISI316L
- O-ring: NBR
- ULtraviolet (UV) resistance
- Normative and marking:
  - II 2G Exd/e IIC Gb II 1D Ex ta IIIC Da I M2 Ex d/e I Mb
  - EN 60079-0 2009 /60079-1 2007/ 60079-31 2009
- Protection class: IP66 / IP68 (EN 60529)
- Application area:
  - Zones 1, 2, 21 and 22
  - Group Gas IIA, IIB and IIC




Reference configuration. Examples: MVTC.M16.S6.EX or MVTX.N21/2.ON

| 1 | + | 2 | + | 3 | + | 4 |
|---|---|---|---|---|---|---|
| Type<br>**MVTC** | | Size<br>**M**: Entry thread<br>**N**: Conic thread | | Material<br>**ON**: Nickel-plated brass<br>**S3**: Stainless steel AISI303L<br>**S4**: Stainless steel AISI304L<br>**S6**: Stainless steel AISI 316L | | Atex<br>**EX** |
| MVTC | | M16 | | S6 | | EX |




| REFERENCES STOPPER PLUG | | | | | | |
|---|---|---|---|---|---|---|
| STOPPER PLUG | CODE | SIZE | GL (MIN. mm) | H (mm) | SW (mm) | MINIMUM |
| MVTC | M12 | M12x1,5 | 15 | 22 | 17 | 75* / 30** |
| MVTC | M16 | M16x1,5 | 15 | 22 | 22 | 75* / 30** |
| MVTC | M20 | M20x1,5 | 15 | 22 | 24 | 75* / 30** |
| MVTC | M25 | M25x1,5 | 15 | 22 | 30 | 75* / 30** |
| MVTC | M32 | M32x1,5 | 15 | 22 | 36 | 30* / 15** |
| MVTC | M40 | M40x1,5 | 15 | 22 | 45 | 30* / 15** |
| MVTC | M50 | M50x1,5 | 15 | 22 | 55 | 15* / 3** |
| MVTC | M63 | M63x1,5 | 15 | 22 | 70 | 15* / 3** |
| MVTC | M75 | M75x1,5 | 15 | 22 | 80 | 15* / 3** |
| MVTC | M90 | M90x2 | 20 | 27 | 95 | 15* / 3** |
| MVTC | M100 | M100x2 | 20 | 27 | 110 | 15* / 3** |
| MVTC | N1/4 | NPT1/4" | 15 | 22 | 15 | 75* / 30** |
| MVTC | N3/8 | NPT3/8" | 15 | 22 | 20 | 75* / 30** |
| MVTC | N1/2 | NPT1/2" | 15 | 22 | 24 | 75* / 30** |
| MVTC | N3/4 | NPT3/4" | 15 | 22 | 27 | 75* / 30** |
| MVTC | N1 | NPT1" | 15 | 22 | 35 | 30* / 15** |
| MVTC | N11/4 | NPT1 1/4" | 15 | 22 | 45 | 30* / 15** |
| MVTC | N11/2 | NPT1 1/2" | 15 | 22 | 50 | 15* / 3** |
| MVTC | N2 | NPT2" | 15 | 22 | 65 | 15* / 3** |
| MVTC | N21/2 | NPT2 1/2" | 20 | 27 | 75 | 15* / 3** |
| MVTC | N3 | NPT3" | 20 | 27 | 90 | 15* / 3** |
| MVTC | N4 | NPT4" | 20 | 27 | 115 | 15* / 3** |

* Nickel-plated brass

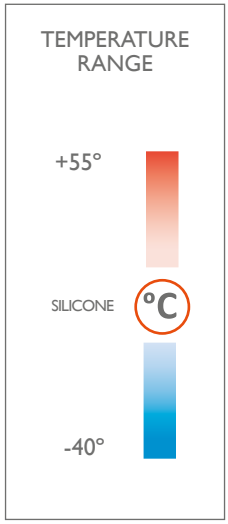
** Stainless steel AISI303L - Stainless steel AISI304L - Stainless steel AISI316L

# CABLE GLANDS EX D/E ATEX

## PLUG POLYAMIDE EX E IP66

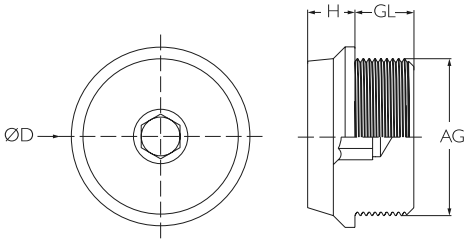


- Material: Polyamide (Nylon)
- O-ring: Silicone
- Features: water proof
- ULtraviolet (UV) resistance
- Normative and marking:
  - Ex ellGb Ex tD A20
  - IEC - EN 60079
- Protection class: IP66
- Application area:
  - Zones 1, 2, 21 and 22
  - Group Gas IIA, IIB and IIC




Reference configuration. Examples: DVT.EX.M16.NY or DVT.EX.M40.N

| 1 | + | 2 | + | 3 | + | 4 |
|---|---|---|---|---|---|---|
| Type **DVT** | | Atex **EX** | | Size | | Material **NY** |
| DVT | | EX | | M16 | | NY |




| REFERENCES PLUG POLYAMIDE EX/E | | | | | | |
|---|---|---|---|---|---|---|
| PLUG POLYAMIDE EX/E | SIZE | ENTRY THREAD ISO 262 (AG) | GL | H | ØD | MINIMUM |
| DVT | M16 | M16x1,5 | 14 | 4 | 22 | 400 |
| DVT | M20 | M20x1,5 | 15 | 4 | 26,4 | 400 |
| DVT | M25 | M25x1,5 | 15 | 4 | 31,9 | 400 |
| DVT | M32 | M32x1,5 | 16 | 5,5 | 39,6 | 200 |
| DVT | M40 | M40x1,5 | 16 | 5,5 | 50,6 | 200 |
| DVT | M50 | M50x1,5 | 16 | 5,5 | 60,5 | 100 |
| DVT | M 63 | M63x1,5 | 19 | 7,5 | 74,8 | 100 |



# CABLE GLANDS EX D/E ATEX

## ADAPTERS

### ADAPTER REDUCER EX D/E IP66 - IP68



- Material: Nickel-plated brass and stainless steel AISI316L
- Protection class: IP66 / IP68
- ULtraviolet (UV) resistance
- Application fields: Surface - Group II • Mines - Group I
- Protection type and normative:
  - Ex db IIC • Ex eb II (gas) • Ex tb IIIC (dusts) • Ex db I • Ex eb I (mines)
  - Atex: EN 60079-0:2012 • EN 60079-1:2014 • EN 60079-7:2015 • EN 60079-31:2014 • EN 60529:1991
  - IECEx: IEC 60079-0:2011 • IEC 60079-1:2014 • IEC 60079-7:2015 • IEC 60079-15:2010 • IEC 60079-31:2013 • IEC 60529:1989

TEMPERATURE RANGE

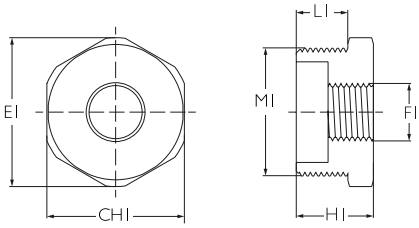
+400°

°C

-70°

Reference configuration. Examples: MVAD.M20N1/4.S6 or MVAD.N3/8M12.ON

| 1 | + | 2 | + | 3 |
|---|---|---|---|---|
| Type | | Code | | Material |
| **MVAD1** | | | | **ON**: Nickel-plated brass<br>**S6**: Stainless steel AISI 316L |
| MVAD1 | | M20N1/4 | | S6 |




CODE REFERENCES - ADAPTER REDUCER EX D/E

FEMALE - NPT (FI)

| | | NPT1/4" | NPT3/8" | NPT1/2" | NPT3/4" | NPT1" | NPT1 1/4" | NPT1 1/2" | NPT2" | NPT2 1/2" |
|---|---|---|---|---|---|---|---|---|---|---|
| MALE - METRICAL ISO 262 (MI) | M20x1,5 | M20N1/4 | - | - | - | - | - | - | - | - |
| | M25x1,5 | M25N1/4 | M25N3/8 | M25M20 | - | - | - | - | - | - |
| | M32x1,5 | M32N1/4 | M32N3/8 | M32M20 | M32N3/4 | - | - | - | - | - |
| | M40x1,5 | M40N1/4 | M40N3/8 | M40M20 | M40N3/4 | M40N1 | - | - | - | - |
| | M50x1,5 | M50N1/4 | M50N3/8 | M50M20 | M50N3/4 | M50N1 | M50N11/4 | - | - | - |
| | M63x1,5 | M63N1/4 | M63N3/8 | M63M20 | M63N3/4 | M63N1 | M63N11/4 | M63N11/2 | - | - |
| | M75x1,5 | M75N1/4 | M75N3/8 | M75M20 | M75N3/4 | M75N1 | M75N11/4 | M75N11/2 | M75N2 | - |
| | M90x1,5 | M90N1/4 | M90N3/8 | M90M20 | M90N3/4 | M90N1 | M90N11/4 | M90N11/2 | M90N2 | M90N21/2 |

HEMBRA - MÉTRICO ISO 262 (FI)

| | | M12x1,5 | M16x1,5 | M20x1,5 | M25x1,5 | M32x1,5 | M40x1,5 | M50x1,5 | M63x1,5 | M75x1,5 |
|---|---|---|---|---|---|---|---|---|---|---|
| MALE - NPT (MI) | NPT3/8" | N3/8M12 | - | - | - | - | - | - | - | - |
| | NPT1/2" | N1/2M12 | N1/2M16 | - | - | - | - | - | - | - |
| | NPT3/4" | N3/4M12 | N3/4M16 | N3/4M20 | - | - | - | - | - | - |
| | NPT1" | N1M12 | N1M16 | N1M20 | N1M25 | - | - | - | - | - |
| | NPT1 1/4" | N11/4M12 | N11/4M16 | N11/4M20 | N11/4M25 | N11/4M32 | - | - | - | - |
| | NPT1 1/2" | N11/2M12 | N11/2M16 | N11/2M20 | N11/2M25 | N11/2M32 | N11/2M40 | - | - | - |
| | NPT2" | N2M12 | N2M16 | N2M20 | N2M25 | N2M32 | N2M40 | N2M50 | - | - |
| | NPT2 1/2" | N21/2M12 | N21/2M16 | N21/2M20 | N21/2M25 | N21/2M32 | N21/2M40 | N21/2M50 | N21/2M63 | - |
| | NPT3" | N3M12 | N3M16 | N3M20 | N3M25 | N3M32 | N3M40 | N3M50 | N3M63 | N3M75 |

See the code in the references table and find the sizes in the dimensions table.

DIMENSIONS ADAPTER REDUCER EX D/E (mm)

| CODE | CHI | EI | LI | HI |
|---|---|---|---|---|
| M20N1/4 | 24 | 26,4 | 15 | 26 |
| M25N1/4 • M25N3/8 • M25M20 | 30 | 33 | 15 | 26 |
| M32N1/4 • M32N3/8 • M32M20 • M32N3/4 | 36 | 39,6 | 15 | 26 |
| M40N1/4 • M40N3/8 • M40M20 • M40N3/4 • M40N1 | 45 | 49,5 | 15 | 26 |
| M50N1/4 • M50N3/8 • M50M20 • M50N3/4 • M50N1 • M50N11/4 | 55 | 60 | 15 | 29 |
| M63N1/4 • M63N3/8 • M63M20 • M63N3/4 • M63N1 • M63N11/4 • M63N11/2 | - | 70 | 15 | 29 |
| M75N1/4 • M75N3/8 • M75M20 • M75N3/4 • M75N1 • M75N11/4 • M75N11/2 • M75N2 | - | 80 | 20 | 34 |
| M90N1/4 • M90N3/8 • M90M20 • M90N3/4 • M90N1 • M90N11/4 • M90N11/2 • M90N2 • M90N21/2 | - | 95 | 20 | 34 |

DIMENSIONS ADAPTER REDUCER EX D/E (mm)

| CODE | CHI | EI | LI | HI |
|---|---|---|---|---|
| N3/8M12 | 20 | 22 | 15 | 26 |
| N1/2M12 • N1/2M16 | 24 | 26,4 | 18 | 29 |
| N3/4M12 • N3/4M16 • N3/4M20 | 27 | 29,7 | 18 | 29 |
| N1M12 • N1M16 • N1M20 • N1M25 | 36 | 39,6 | 22 | 33 |
| N11/4M12 • N11/4M16 • N11/4M20 • N11/4M25 • N11/4M32 | 45 | 49,5 | 22 | 33 |
| N11/2M12 • N11/2M16 • N11/2M20 • N11/2M25 • N11/2M32 • N11/2M40 | 50 | 55 | 24 | 38 |
| N2M12 • N2M16 • N2M20 • N2M25 • N2M32 • N2M40 • N2M50 | - | 65 | 24 | 38 |
| N21/2M12 • N21/2M16 • N21/2M20 • N21/2M25 • N21/2M32 • N21/2M40 • N21/2M50 • N21/2M63 | - | 75 | 28 | 42 |
| N3M12 • N3M16 • N3M20 • N3M25 • N3M32 • N3M40 • N3M50 • N3M63 • N3M75 | - | 90 | 28 | 42 |

Available upon request

# CABLE GLANDS EX D/E ATEX

## ADAPTER ENLARGER EX D/E IP66 - IP68



- Material: Nickel-plated brass and stainless steel AISI316L
- Protection class: IP66 / IP68
- ULtraviolet (UV) resistance
- Application fields: Surface - Group II • Mines - Group I
- Protection type and normative:
  - Ex db IIC • Ex eb II (gas) • Ex tb IIIC (dusts) • Ex db I • Ex eb I (mines)
  - Atex: EN 60079-0:2012 • EN 60079-1:2014 • EN 60079-7:2015 • EN 60079-31:2014 • EN 60529:1991
  - IECEx: IEC 60079-0:2011 • IEC 60079-1:2014 • IEC 60079-7:2015 • IEC 60079-15:2010 • IEC 60079-31:2013 • IEC 60529:1989

TEMPERATURE RANGE

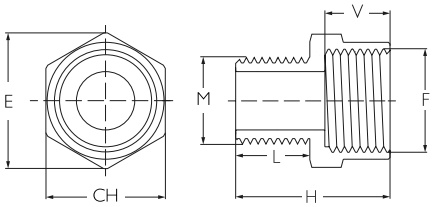
+400°

°C

-70°

Reference configuration. Examples: MVAD.M12N1/4.S6 or MVAD.N1/4M25.ON

| 1 | + | 2 | + | 3 |
|---|---|---|---|---|
| Type<br>**MVAD**<br>MVAD | | Code<br>M12N1/4 | | Material<br>**ON**: Nickel-plated brass<br>**S6**: Stainless steel AISI 316L<br>S6 |




CODE REFERENCES - ADAPTER ENLARGER EX D/E

FEMALE - NPT (F1)

| | | NPT1/4" | NPT3/8" | NPT1/2" | NPT3/4" | NPT1" | NPT1 1/4" | NPT1 1/2" | NPT2" | NPT2 1/2" | NPT3" |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MALE - METRICAL ISO 262 (M) | M12x1,5 | M12N1/4 | M12N3/8 | M12N1/2 | M12N3/4 | M12N1 | M12N11/4 | M12N11/2 | M12N2 | M12N21/2 | M12N3 |
| | M16x1,5 | M16N1/4 | M16N3/8 | M16N1/2 | M16N3/4 | M16N1 | M16N11/4 | M16N11/2 | M16N2 | M16N21/2 | M16N3 |
| | M20x1,5 | - | M20N3/8 | M20N1/2 | M20N3/4 | M20N1 | M20N11/4 | M20N11/2 | M20N2 | M20N21/2 | M20N3 |
| | M25x1,5 | - | - | - | M25N3/4 | M25N1 | M25N11/4 | M25N11/2 | M25N2 | M25N21/2 | M25N3 |
| | M32x1,5 | - | - | - | - | M32N1 | M32N11/4 | M32N11/2 | M32N2 | M32N21/2 | M32N3 |
| | M40x1,5 | - | - | - | - | - | M40N11/4 | M40N11/2 | M40N2 | M40N21/2 | M40N3 |
| | M50x1,5 | - | - | - | - | - | - | M50N11/2 | M50N2 | M50N21/2 | M50N3 |
| | M63x1,5 | - | - | - | - | - | - | - | M63N2 | M63N21/2 | M63N3 |
| | M75x1,5 | - | - | - | - | - | - | - | - | M75N21/2 | M75N3 |
| | M90x1,5 | - | - | - | - | - | - | - | - | - | M90N3 |

FEMALE - METRICAL ISO 262 (F)

| | | M12x1,5 | M16x1,5 | M20x1,5 | M25x1,5 | M32x1,5 | M40x1,5 | M50x1,5 | M63x1,5 | M75x1,5 | M90x1,5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MALE - NPT (M) | NPT1/4" | N1/4M12 | N1/4M16 | N1/4M20 | N1/4M25 | N1/4M32 | N1/4M40 | N1/4M50 | N1/4M63 | N1/4M75 | N1/4M90 |
| | NPT3/8" | - | N3/8M16 | N3/8M20 | N1/4M25 | N3/8M32 | N3/8M40 | N3/8M50 | N3/8M63 | N3/8M75 | N3/8M90 |
| | NPT1/2" | - | - | N1/2M20 | N1/2M25 | N1/2M32 | N1/2M40 | N1/2M50 | N1/2M63 | N1/2M75 | N1/2M90 |
| | NPT3/4" | - | - | - | N3/4M25 | N3/4M32 | N3/4M40 | N3/4M50 | N3/4M63 | N3/4M75 | N3/4M90 |
| | NPT1" | - | - | - | - | N1M32 | N1M40 | N1M50 | N1M63 | N1M75 | N1M90 |
| | NPT1 1/4" | - | - | - | - | - | N11/4M40 | N11/4M50 | N11/4M63 | N11/4M75 | N11/4M90 |
| | NPT1 1/2" | - | - | - | - | - | - | N11/2M50 | N11/2M63 | N11/2M75 | N11/2M90 |
| | NPT2" | - | - | - | - | - | - | - | N2M63 | N2M75 | N2M90 |
| | NPT2 1/2" | - | - | - | - | - | - | - | - | N21/2M75 | N21/2M90 |
| | NPT3" | - | - | - | - | - | - | - | - | - | N3M90 |

See the code in the references table and find the sizes in the dimensions table.

DIMENSIONS ADAPTER ENLARGER EX D/E (mm)

| CODE | CH | E | L | V | H |
|---|---|---|---|---|---|
| M12N1/4 • M16N1/4 • N1/4M12 | 20 | 22 | 15 | 15 | 33 |
| M12N3/8 • M16N3/8 • M20N3/8 • N1/4M16 • N3/8M16 | 24 | 26,4 | 15 | 15 | 33 |
| M12N1/2 • M16N1/2 • M20N1/2 | 26 | 28,6 | 15 | 18 | 36 |
| M12N3/4 • M16N3/4 • M20N3/4 • M25N3/4 | 32 | 35 | 15 | 18 | 36 |
| M12N1 • M16N1 • M20N1 • M25N1 • M32N1 | 40 | 44 | 15 | 22 | 40 |
| M12N11/4 • M16N11/4 • M20N11/4 • M25N11/4 • M32N11/4 • M40N11/4 | 50 | 55 | 15 | 22 | 40 |
| M12N11/2 • M16N11/2 • M20N11/2 • M25N11/2 • M32N11/2 • M40N11/2 • M50N11/2 | 55 | 60 | 15 | 24 | 42 |
| M12N2 • M16N2 • M20N2 • M25N2 • M32N2 • M40N2 • M50N2 • M63N2 | - | 70 | 15 | 24 | 42 |
| M12N21/2 • M16N21/2 • M20N21/2 • M25N21/2 • M32N21/2 • M40N21/2 • M50N21/2 • M63N21/2 | - | 80 | 15 | 28 | 46 |
| M75N21/2 | - | 80 | 20 | 28 | 51 |
| M12N3 • M16N3 • M20N3 • M25N3 • M32N3 • M40N3 • M50N3 • M63N3 | - | 95 | 15 | 28 | 46 |
| M75N3 • M90N3 | - | 95 | 20 | 28 | 51 |
| N1/4M20 • N3/8M20 | 26 | 28,6 | 15 | 15 | 33 |
| N1/4M25 • N1/4M25 | 32 | 35 | 15 | 15 | 33 |
| N1/4M32 • N3/8M32 | 40 | 44 | 15 | 45 | 33 |
| N1/4M40 • N3/8M40 | 45 | 49,5 | 15 | 15 | 33 |

DIMENSIONS ADAPTER ENLARGER EX D/E (mm)

| CODE | CH | E | L | V | H |
|---|---|---|---|---|---|
| N1/4M50 • N3/8M50 | 55 | 60 | 15 | 15 | 33 |
| N1/4M63 • N3/8M63 | - | 70 | 15 | 15 | 33 |
| N1/4M75 • N3/8M75 | - | 85 | 15 | 20 | 38 |
| N1/4M90 • N3/8M90 | - | 100 | 15 | 20 | 38 |
| N1/2M20 | 26 | 28,6 | 18 | 15 | 36 |
| N1/2M25 • N3/4M25 | 32 | 35 | 18 | 15 | 36 |
| N1/2M32 • N3/4M32 | 40 | 44 | 18 | 15 | 36 |
| N1M32 | 40 | 44 | 22 | 15 | 40 |
| N1/2M40 • N3/4M40 | 45 | 49,5 | 18 | 15 | 36 |
| N1M40 • N11/4M40 | 45 | 49,5 | 22 | 15 | 40 |
| N1/2M50 • N3/4M50 | 55 | 60 | 18 | 15 | 36 |
| N1M50 • N11/4M50 | 55 | 60 | 22 | 15 | 40 |
| N11/2M50 | 55 | 60 | 24 | 15 | 42 |
| N1/2M63 • N3/4M63 | - | 70 | 18 | 15 | 36 |
| N1M63 • N11/4M63 | - | 70 | 22 | 15 | 40 |
| N11/2M63 • N2M63 | - | 70 | 24 | 15 | 42 |
| N1/2M75 • N3/4M75 | - | 85 | 18 | 20 | 41 |
| N1M75 • N11/4M75 | - | 85 | 22 | 20 | 45 |
| N11/2M75 • N2M75 | - | 85 | 24 | 20 | 47 |
| N21/2M75 | - | 85 | 28 | 20 | 51 |
| N1/2M90 • N3/4M90 | - | 100 | 18 | 20 | 41 |
| N1M90 • N11/4M90 | - | 100 | 22 | 20 | 45 |
| N11/2M90 • N2M90 | - | 100 | 24 | 20 | 47 |
| N21/2M90 • N3M90 | - | 100 | 28 | 20 | 51 |

Available upon request

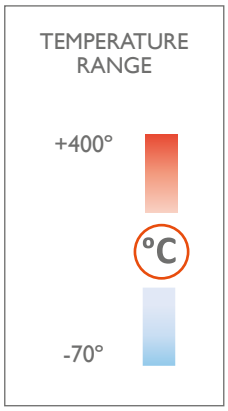
# CABLE GLANDS EX D/E ATEX

## ENLARGER - REDUCER

### REDUCER EX D/E IP66 - IP68

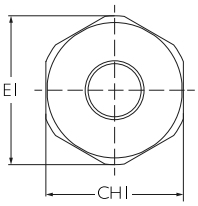


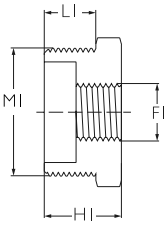
- Material: Nickel-plated brass and stainless steel AISI316L
- Protection class: IP66 / IP68
- ULtraviolet (UV) resistance
- Application fields: Surface - Group II • Mines - Group I
- Protection type and normative:
  - Ex db IIC • Ex eb II (gas) • Ex tb IIIC (dusts) • Ex db I • Ex eb I (mines)
  - Atex: EN 60079-0:2012 • EN 60079-1:2014 • EN 60079-7:2015 • EN 60079-31:2014 • EN 60529:1991
  - IECEx: IEC 60079-0:2011 • IEC 60079-1:2014 • IEC 60079-7:2015 • IEC 60079-15:2010 • IEC 60079-31:2013 • IEC 60529:1989




Reference configuration. Examples: MVAD.M16M12.S6 or MVAD.N1/4N3/8.ON

| 1 | + | 2 | + | 3 |
|---|---|---|---|---|
| Type<br>**MVAD1**<br>MVAD1 | | Code<br>M16M12 | | Material<br>**ON**: Nickel-plated brass<br>**S6**: Stainless steel AISI 316L<br>S6 |




| CODE REFERENCES - REDUCER EX D/E | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| FEMALE - METRICAL ISO 262 (FI) | | | | | | | | | | |
| MALE - METRICAL ISO 262 (MI) | | M12x1,5 | M16x1,5 | M20x1,5 | M25x1,5 | M32x1,5 | M40x1,5 | M50x1,5 | M63x1,5 | M75x1,5 |
| | M16x1,5 | M16M12 | - | - | - | - | - | - | - | - |
| | M20x1,5 | M20M12 | M20M16 | - | - | - | - | - | - | - |
| | M25x1,5 | M25M12 | M25M16 | M25M20 | - | - | - | - | - | - |
| | M32x1,5 | M32M12 | M32M16 | M32M20 | M32M25 | - | - | - | - | - |
| | M40x1,5 | M40M12 | M40M16 | M40M20 | M40M25 | M40M32 | - | - | - | - |
| | M50x1,5 | M50M12 | M50M16 | M50M20 | M50M25 | M50M32 | M50M40 | - | - | - |
| | M63x1,5 | M63M12 | M63M16 | M63M20 | M63M25 | M63M32 | M63M40 | M63M50 | - | - |
| | M75x1,5 | M75M12 | M75M16 | M75M20 | M75M25 | M75M32 | M75M40 | M75M50 | M75M50 | - |
| | M90x1,5 | M90M12 | M90M16 | M90M20 | M90M25 | M90M32 | M90M40 | M90M50 | M90M50 | M90M75 |

| FEMALE - NPT (FI) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| MALE - NPT (MI) | | NPT1/4" | NPT3/8" | NPT1/2" | NPT3/4" | NPT1" | NPT1 1/4" | NPT1 1/2" | NPT2" | NPT2 1/2" |
| | NPT1/2" | N1/2N1/4 | - | - | - | - | - | - | - | - |
| | NPT3/4" | N3/4N1/4 | N3/4N3/8 | N3/4N1/2 | - | - | - | - | - | - |
| | NPT1" | N1N1/4 | N1N3/8 | N1N1/2 | N1N3/4 | - | - | - | - | - |
| | NPT1 1/4" | N1 1/4N1/4 | N1 1/4N3/8 | N1 1/4N1/2 | N1 1/4N3/4 | N1 1/4N1 | - | - | - | - |
| | NPT1 1/2" | N1 1/2N1/4 | N1 1/2N3/8 | N1 1/2N1/2 | N1 1/2N3/4 | N1 1/2N1 | N1 1/2N1 1/4 | - | - | - |
| | NPT2" | N2N1/4 | N2N3/8 | N2N1/2 | N2N3/4 | N2N1 | N2N1 1/4 | N2N1 1/2 | - | - |
| | NPT2 1/2" | N2 1/2N1/4 | N2 1/2N3/8 | N2 1/2N1/2 | N2 1/2N3/4 | N2 1/2N1 | N2 1/2N1 1/4 | N2 1/2N1 1/2 | N2 1/2N2 | - |
| | NPT3" | N3N1/4 | N3N3/8 | N3N1/2 | N3N3/4 | N3N1 | N3N1 1/4 | N3N1 1/2 | N3N2 | N3N2 1/2 |

See the code in the references table and find the sizes in the dimensions table.

| DIMENSIONS REDUCER EX D/E (mm) | | | | |
|---|---|---|---|---|
| CODE | CHI | EI | LI | HI |
| M16M12 | 20 | 22 | 15 | 26 |
| M20M12 • M20M16 | 24 | 26,4 | 15 | 26 |
| M25M12 • M25M16 • M25M20 | 30 | 33 | 15 | 26 |
| M32M12 • M32M16 • M32M20 • M32M25 | 36 | 39,6 | 15 | 26 |
| M40M12 • M40M16 • M40M20 • M40M25 • M40M32 | 45 | 49,5 | 15 | 26 |
| M50M12 • M50M16 • M50M20 • M50M25 • M50M32 • M50M40 | 55 | 60 | 15 | 29 |
| M63M12 • M63M16 • M63M20 • M63M25 • M63M32 • M63M40 • M63M50 | - | 70 | 15 | 29 |
| M75M12 • M75M16 • M75M20 • M75M25 • M75M32 • M75M40 • M75M50 • M75M50 | - | 80 | 20 | 34 |
| M90M12 • M90M16 • M90M20 • M90M25 • M90M32 • M90M40 • M90M50 • M90M50 • M90M75 | - | 95 | 20 | 34 |

| DIMENSIONS REDUCER EX D/E (mm) | | | | |
|---|---|---|---|---|
| CODE | CHI | EI | LI | HI |
| N1/2N1/4 | 24 | 26,4 | 18 | 29 |
| N3/4N1/4 • N3/4N3/8 • N3/4N1/2 | 27 | 29,7 | 18 | 29 |
| N1N1/4 • N1N3/8 • N1N1/2 • N1N3/4 | 36 | 39,6 | 22 | 33 |
| N1 1/4N1/4 • N1 1/4N3/8 • N1 1/4N1/2 • N1 1/4N3/4 • N1 1/4N1 | 45 | 49,5 | 22 | 33 |
| N1 1/2N1/4 • N1 1/2N3/8 • N1 1/2N1/2 • N1 1/2N3/4 • N1 1/2N1 • N1 1/2N1 1/4 | 50 | 55 | 24 | 38 |
| N2N1/4 • N2N3/8 • N2N1/2 • N2N3/4 • N2N1 • N2N1 1/4 • N2N1 1/2 | - | 65 | 24 | 38 |
| N2 1/2N1/4 • N2 1/2N3/8 • N2 1/2N1/2 • N2 1/2N3/4 • N2 1/2N1 • N2 1/2N1 1/4 • N2 1/2N1 1/2 • N2 1/2N2 | - | 75 | 28 | 42 |
| N3N1/4 • N3N3/8 • N3N1/2 • N3N3/4 • N3N1 • N3N1 1/4 • N3N1 1/2 • N3N2 • N3N2 1/2 | - | 90 | 28 | 42 |

Available upon request

# CABLE GLANDS EX D/E ATEX

## ENLARGER EX D/E IP66 - IP68



- Material: Nickel-plated brass and stainless steel AISI316L
- Protection class: IP66 / IP68
- ULtraviolet (UV) resistance
- Application fields: Surface - Group II • Mines - Group I
- Protection type and normative:
  - Ex db IIC • Ex eb II (gas) • Ex tb IIIC (dusts) • Ex db I • Ex eb I (mines)
  - Atex: EN 60079-0:2012 • EN 60079-1:2014 • EN 60079-7:2015 • EN 60079-31:2014 • EN 60529:1991
  - IECEx: IEC 60079-0:2011 • IEC 60079-1:2014 • IEC 60079-7:2015 • IEC 60079-15:2010 • IEC 60079-31:2013 • IEC 60529:1989

TEMPERATURE RANGE

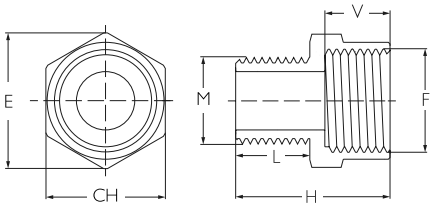
+400°

°C

-70°

Reference configuration. Examples: MVAD.M12M16.S6 or MVAD.N1/4N3/8.ON

| 1 | + | 2 | + | 3 |
|---|---|---|---|---|
| Type<br>**MVAD** | | Code | | Material<br>**ON**: Nickel-plated brass<br>**S6**: Stainless steel AISI 316L |
| MVAD | | M12M16 | | S6 |




CODE REFERENCES - ENLARGER EX D/E

FEMALE - METRICAL ISO 262 (F)

| MALE - METRICAL ISO 262 (M) | | M12x1,5 | M16x1,5 | M20x1,5 | M25x1,5 | M32x1,5 | M40x1,5 | M50x1,5 | M63x1,5 | M75x1,5 | M90x1,5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | M12x1,5 | M12M12 | M12M16 | M12M20 | M12M25 | M12M32 | M12M40 | M12M50 | M12M63 | M12M75 | M12M90 |
| | M16x1,5 | - | M16M16 | M16M20 | M16M25 | M16M32 | M16M40 | M16M50 | M16M63 | M16M75 | M16M90 |
| | M20x1,5 | - | - | M20M20 | M20M25 | M20M32 | M20M40 | M20M50 | M20M63 | M20M75 | M20M90 |
| | M25x1,5 | - | - | - | M20M25 | M25M32 | M25M40 | M25M50 | M25M63 | M25M75 | M25M90 |
| | M32x1,5 | - | - | - | - | M32M32 | M32M40 | M32M50 | M32M63 | M32M75 | M32M90 |
| | M40x1,5 | - | - | - | - | - | M40M40 | M40M50 | M40M63 | M40M75 | M40M90 |
| | M50x1,5 | - | - | - | - | - | - | M50M50 | M50M63 | M50M75 | M50M90 |
| | M63x1,5 | - | - | - | - | - | - | - | M63M63 | M63M75 | M63M90 |
| | M75x1,5 | - | - | - | - | - | - | - | - | M75M75 | M75M90 |
| | M90x1,5 | - | - | - | - | - | - | - | - | - | M90M90 |

FEMALE - NPT (F)

| MALE - NPT (M) | | NPT1/4" | NPT3/8" | NPT1/2" | NPT3/4" | NPT1" | NPT1 1/4" | NPT1 1/2" | NPT2" | NPT2 1/2" | NPT3" |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | NPT1/4" | N1/4N1/4 | N1/4N3/8 | N1/4N1/2 | N1/4N3/4 | N1/4N1 | N1/4N11/4 | N1/4N11/2 | N1/4N2 | N1/4N21/2 | N1/4N3 |
| | NPT3/8" | N3/8N1/4 | N3/8N3/8 | N3/8N1/2 | N3/8N3/4 | N3/8N1 | N3/8N11/4 | N3/8N11/2 | N3/8N2 | N3/8N21/2 | N3/8N3 |
| | NPT1/2" | - | N1/2N3/8 | N1/2N1/2 | N1/2N3/4 | N1/2N1 | N1/2N11/4 | N1/2N11/2 | N1/2N2 | N1/2N21/2 | N1/2N3 |
| | NPT3/4" | - | - | - | N3/4N3/4 | N3/4N1 | N3/4N11/4 | N3/4N11/2 | N3/4N2 | N3/4N21/2 | N3/4N3 |
| | NPT1" | - | - | - | - | N1N1 | N1N11/4 | N1N11/2 | N1N2 | N1N21/2 | N1N3 |
| | NPT1 1/4" | - | - | - | - | - | N11/4N11/4 | N11/4N11/2 | N11/4N2 | N11/4N21/2 | N11/4N3 |
| | NPT1 1/2" | - | - | - | - | - | - | N11/2N11/2 | N11/2N2 | N11/2N21/2 | N11/2N3 |
| | NPT2" | - | - | - | - | - | - | - | N2N2 | N2N21/2 | N2N3 |
| | NPT2 1/2" | - | - | - | - | - | - | - | - | N21/2N21/2 | N21/2N3 |
| | NPT3" | - | - | - | - | - | - | - | - | - | N3N3 |

See the code in the references table and find the sizes in the dimensions table.

DIMENSIONS ENLARGER EX D/E (mm)

| CODE | CH | E | L | V | H |
|---|---|---|---|---|---|
| M12M12 • N1/4N1/4 • N3/8N1/4 | 20 | 22 | 15 | 15 | 33 |
| M12M16 • M16M16 • N1/4N3/8 • N3/8N3/8 | 24 | 26,4 | 15 | 15 | 33 |
| M12M20 • M16M20 • M20M20 | 26 | 28,6 | 15 | 15 | 33 |
| M12M25 • M16M25 • M20M25 • M20M25 | 32 | 35 | 15 | 15 | 33 |
| M12M32 • M16M32 • M20M32 • M25M32 • M32M32 | 40 | 44 | 15 | 45 | 33 |
| M12M40 • M16M40 • M20M40 • M25M40 • M32M40 • M40M40 | 45 | 49,5 | 15 | 15 | 33 |
| M12M50 • M16M50 • M20M50 • M25M50 • M32M50 • M40M50 • M50M50 | 55 | 60 | 15 | 15 | 33 |
| M12M63 • M16M63 • M20M63 • M25M63 • M32M63 • M40M63 • M50M63 • M63M63 | - | 70 | 15 | 15 | 33 |
| M12M75 • M16M75 • M20M75 • M25M75 • M32M75 • M40M75 • M50M75 • M63M75 | - | 85 | 15 | 20 | 38 |
| M12M90 • M16M90 • M20M90 • M25M90 • M32M90 • M40M90 • M50M90 • M63M90 | - | 100 | 15 | 20 | 38 |
| M75M75 | - | 85 | 20 | 20 | 43 |
| M75M90 • M90M90 | - | 100 | 20 | 20 | 43 |
| N1/2N3/8 | 24 | 26,4 | 18 | 15 | 36 |
| N1/4N1/2 • N3/8N1/2 | 26 | 28,6 | 15 | 18 | 36 |
| N1/2N1/2 | 26 | 28,6 | 18 | 18 | 39 |
| N1/4N3/4 • N3/8N3/4 | 32 | 35 | 15 | 18 | 36 |
| N1/4N1 • N3/8N1 | 40 | 44 | 15 | 22 | 40 |

DIMENSIONS ENLARGER EX D/E (mm)

| CODE | CH | E | L | V | H |
|---|---|---|---|---|---|
| N1/4N11/4 • N3/8N11/4 | 50 | 55 | 15 | 22 | 40 |
| N1/4N11/2 • N3/8N11/2 | 55 | 60 | 15 | 24 | 42 |
| N1/4N2 • N3/8N2 | - | 70 | 15 | 24 | 42 |
| N1/4N21/2 • N3/8N21/2 | - | 80 | 15 | 28 | 46 |
| N1/4N3 • N3/8N3 | - | 95 | 15 | 28 | 46 |
| N1/2N1/2 | 26 | 28,6 | 18 | 18 | 39 |
| N1/2N3/4 • N3/4N3/4 | 32 | 35 | 18 | 18 | 39 |
| N1/2N1 • N3/4N1 | 40 | 44 | 18 | 22 | 43 |
| N1/2N11/4 • N3/4N11/4 | 50 | 55 | 18 | 22 | 43 |
| N1/2N11/2 • N3/4N11/2 | 55 | 60 | 18 | 24 | 45 |
| N1/2N2 • N3/4N2 | - | 70 | 18 | 24 | 45 |
| N1/2N21/2 • N3/4N21/2 | - | 80 | 18 | 28 | 49 |
| N1/2N3 • N3/4N3 | - | 95 | 18 | 28 | 49 |
| N1N1 | 40 | 44 | 22 | 22 | 47 |
| N1N11/4 • N11/4N11/4 | 50 | 55 | 22 | 22 | 47 |
| N1N11/2 • N11/4N11/2 | 55 | 60 | 22 | 24 | 49 |
| N1N2 • N11/4N2 | - | 70 | 22 | 24 | 49 |
| N1N21/2 • N11/4N21/2 | - | 80 | 22 | 28 | 52 |
| N1N3 • N11/4N3 | - | 95 | 22 | 28 | 53 |
| N11/2N11/2 | 55 | 60 | 24 | 24 | 51 |
| N11/2N2 • N2N2 | - | 70 | 24 | 24 | 51 |
| N11/2N21/2 • N2N21/2 | - | 80 | 24 | 28 | 55 |
| N11/2N3 • N2N3 | - | 85 | 24 | 28 | 55 |
| N21/2N21/2 | - | 80 | 28 | 28 | 59 |
| N21/2N3 • N3N3 | - | 95 | 28 | 28 | 59 |

Available upon request

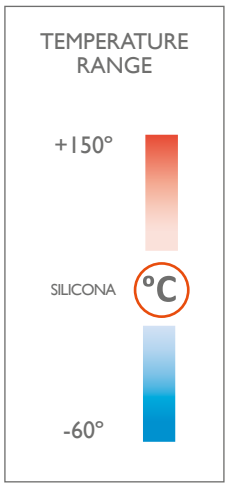
# CABLE GLANDS EX D/E ATEX

## VALVE

### AUTOMATIC BREATHER AND DRAINAGE HAZARDOUS AREA VALVES ATEX IP66

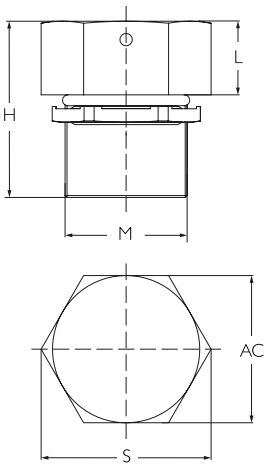


- Valves are suitable to be used on increased safety, intrinsically safety or watertight enclosures to facilitate the elimination of condensation or vapors developed inside. We recomended minimun 2 units per enclosure
- Material: stainless steel AISI316 o Nickel-plated brass
- Internal filter: stainless steel
- Gaskets: silicone
- Internal seeger: stainless steel
- ULtraviolet (UV) resistance
- Normative and marking:
  - II 2GD Ex eb IIC Gb
  - Ex tb IIIC Db
  - EN 60079-14
  - IEC 60079-0: 2011 / 60079-7:2015 / IEC 60079-31: 2013
  - Directive 2014/34/UE
  - EN 60079-0: 2012 / 60079-7: 2015 / 60079-31: 2014
- Protection class: IP66




### HOW VALVE WORKS

IP66 Waterproof Anti-condensation valve to facilitate air circulation by convection inside the modules, preventing the formation of condensation. Pressure differences in enclosures with a high degree of protection from moisture and dust, are the result of fluctuations in internal and external temperature. If negative pressure or vacuum dust and moisture can be absorbed by the sealed doors and can enter the hazardous area enclosure. Because moisture can not escape, condensation can occur. Allows to regulate the pressure to prevent condensation following an increase in the internal temperature.




| REFERENCES AUTOMATIC BREATHER AND DRAINAGE HAZARDOUS AREA VALVES ATEX | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| REFERENCES | USE | MATERIAL | DIMENSIONS (mm) | | | | | MINIMUM |
| | | | M | AC | S | H | L | |
| MVVAC04B.M20.S6.EX | Breather | Stainless steel | M20x1,5 | 24 | 28 | 26 | 12 | 60 |
| MVVAC04D.M20.S6.EX | Drainage | Stainless steel | M20x1,5 | 24 | 28 | 26 | 12 | 60 |
| MVVAC04B.M20.ON.EX | Breather | Latón niquelado | M20x1,5 | 24 | 28 | 26 | 12 | 150 |
| MVVAC04D.M20.ON.EX | Drainage | Stainless steel | M20x1,5 | 24 | 28 | 26 | 12 | 150 |

# CABLE GLANDS EX D/E ATEX

## ACCESSORIES

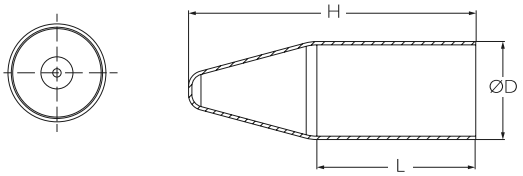
### SHROUD IP66 - IP68



- Material:
  - TPV
  - PVC
  - LSF
- ULtraviolet (UV) resistance
- Protection class: IP66 / IP68 (EN 60529)
- Temperature range: -20°C to +80°C

Reference configuration. Example: MVSHR16LSF

| 1 | + | 2 | + | 3 |
|---|---|---|---|---|
| Type<br>**MVSHR** | | Size | | Material<br>**TPV**:TPV<br>**PVC**: PVC<br>**LSF**: LSF |
| MVSHR | | 16 | | LSF |



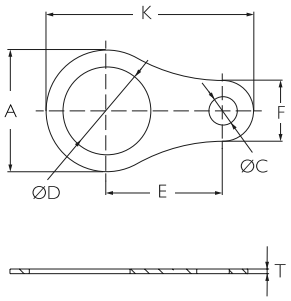

| REFERENCES SHROUD | | | | |
|---|---|---|---|---|
| SHROUD | SIZE | ØD (mm) | H (mm) | L (mm) |
| MVSHR | 16 | 25 | 100 | 60 |
| MVSHR | 20 | 32 | 110 | 65 |
| MVSHR | 25 | 41 | 130 | 70 |
| MVSHR | 32 | 49 | 145 | 77 |
| MVSHR | 40 | 60 | 170 | 85 |
| MVSHR | 50S | 65 | 155 | 86 |
| MVSHR | 50 | 75 | 175 | 92 |
| MVSHR | 63S | 81 | 180 | 92 |
| MVSHR | 63 | 86 | 180 | 92 |
| MVSHR | 75S | 100 | 220 | 115 |
| MVSHR | 75 | 110 | 220 | 115 |

Available upon request

### EARTH TAG



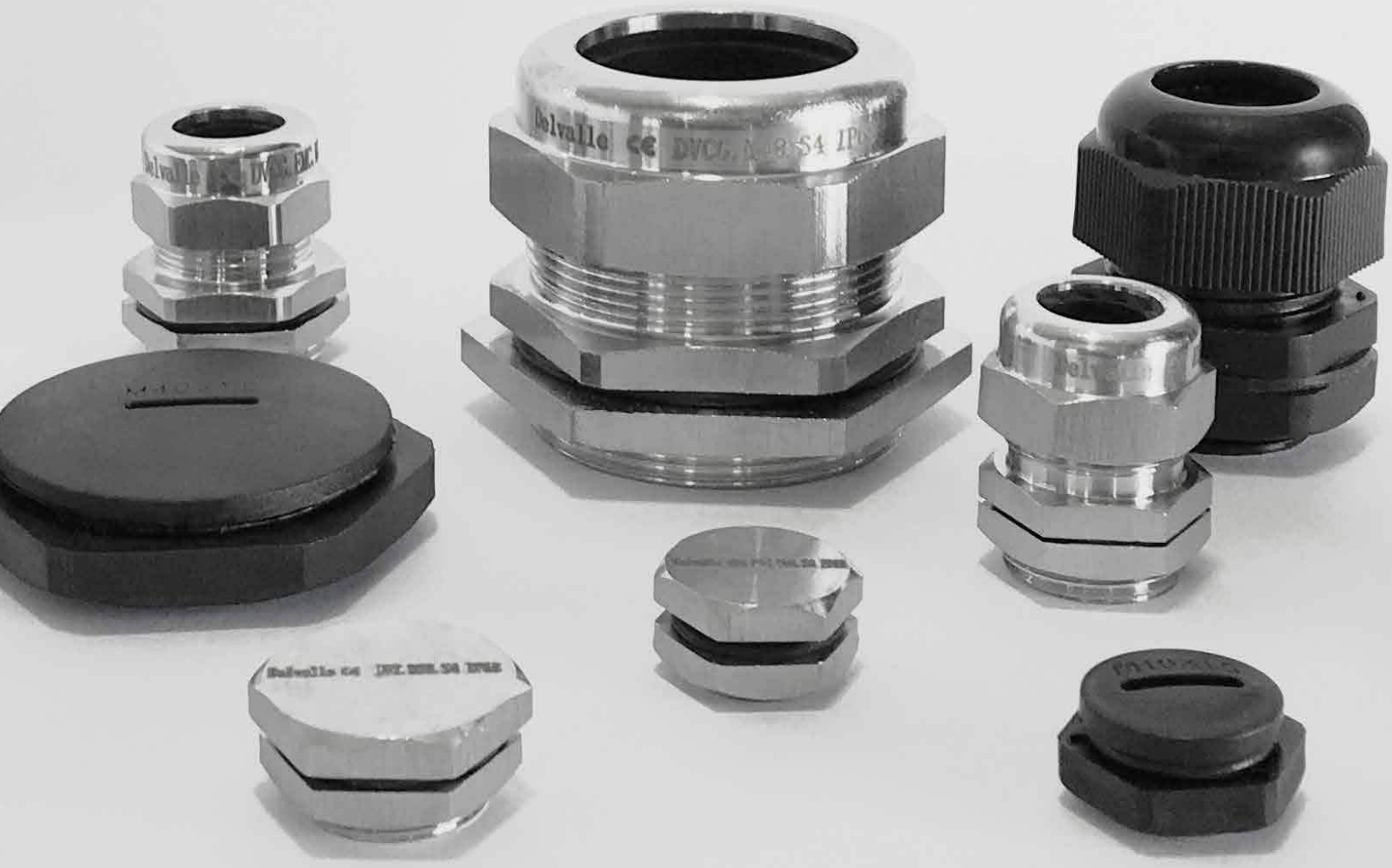
- Material: stainless steel AISI 303L
- ULtraviolet (UV) resistance
- Temperature range: -40°C to +100°C




| REFERENCES EARTH TAG | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| EARTH TAG | SIZE | A (mm) | ØD (mm) | ØC (mm) | F (mm) | K (mm) | E (mm) | T (mm) |
| MVTT16S3 | 16 | 25,4 | 16,5 | 6,5 | 12,5 | 49 | 30 | 1 |
| MVTT20S3 | 20 | 27 | 20,5 | 6,5 | 10,2 | 51,6 | 33 | 1 |
| MVTT25S3 | 25 | 35 | 25,5 | 6,5 | 13,5 | 60 | 35,5 | 1 |
| MVTT32S3 | 32 | 45 | 32,5 | 10,5 | 22,5 | 76,75 | 43 | 1 |
| MVTT40S3 | 40 | 53,5 | 40,5 | 10,5 | 23,6 | 83,5 | 45 | 1 |
| MVTT50S3 | 50 | 65 | 50,5 | 10,5 | 29,5 | 105,25 | 58 | 1 |
| MVTT63S3 | 63 | 82 | 63,5 | 10,5 | 29,5 | 122,75 | 67 | 1 |
| MVTT75S3 | 75 | 96 | 75,5 | 6,5 | 24 | - | 73 | 1,5 |
| MVTT90S3 | 90 | 114 | 90,5 | 6,5 | 37 | - | 86 | 1,5 |

Available upon request

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*Delvalle has more than 45 years of experience using the latest technology to implement and obtain the most innovative products on offer to all our customers. Delvalle is an ideal partner, combining an advanced and wide range of products at very competitive prices.*

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*In Delvallebox we bear in mind that customers perceive the quality very clearly. In every product (for instance, in the cabinets here presented) safety and useful solutions are what customers value most.*



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## ATEX INDUSTRIAL ENCLOSURES



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