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Amphenol®







# GuardXcel®
# Cable Gland Series

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# Company Profile




*Endicott, NY*

## Amphenol Industrial Operations

Amphenol Industrial Operations, headquartered in a 30,000 square foot facility in Endicott, N.Y., provides a full range of high reliability power/signal connectors and interconnection systems specifically for the industrial markets including rail/mass transit, process control, automotive manufacturing, heavy equipment, wireless base stations and petrochemical/power generation.

Products include ruggedized-for-industry cylindrical, rectangular, fiber optic, signal and power, RADSOK power and power-to-board solutions, cable and harness assemblies, as well as industrialized versions of Amphenol's MIL-DTL-5015 cylindrical, MIL-DTL-26482 miniature cylindrical and GT reverse bayonet cylindrical connectors. Amphenol Industrial Operations employs more than 1,400 people globally and is ISO9001, TS96949 and MIL-STD-790 certified.



## Amphenol Technology (Zhuhai) Co., Ltd

Established in 2007, Amphenol Technology (Zhuhai) Co., Ltd. is a manufacturing facility for Amphenol Industrial Operations, which serves a number of industrial markets. Included but not limited to Factory Automation, Transportation, Heavy Equipment, Alternative Energy, Energy Storage. Server/Data Comm and Power Distribution.

Amphenol Technology (Zhuhai) Co., Ltd. covers an area of 276,000 ft² and is equipped with CNC, plating, injection molding and assembly workshops. This plant specializes in the design and manufacturing of industrial connectors featuring high power, high density, medium to high voltage electrical properties, and harsh environment applications.

With industry leading engineering, design and manufacturing expertise, Amphenol Technology(Zhuhai) Co., Ltd. has earned more than 60 utility patents on its innovative interconnects. Many of the products produced have been certified by independent standards including UL, IEC/TUV, ATEX, IECEx and MA. The facility is also certified to ISO 9001, ISO 14001 and IATF 16949.

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# STANDARD CABLE GLANDS WITH THREAD, POLYAMIDE

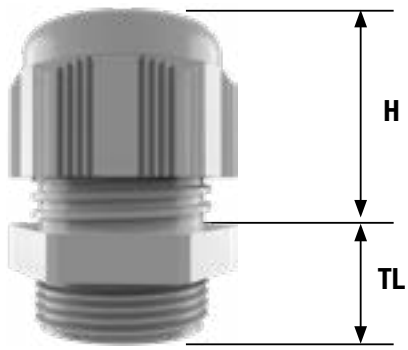
## Polyamide Cable Glands with Lamellar Clamping

- For standard industrial applications in harsh environments.
- Easy assembly.
- High quality strain relief and sealing reliable performance for standard industrial applications.
- Up-to-date international approvals

| Technical Details | | | |
|---|---|---|---|
| Material | Body, Cap | PA 6 (Polyamide 6) | |
| | Seal | CR (Chloroprene) | |
| Ingress Protection Rating | IP 68-5 Bar, 30 min<br>IP 66 | | |
| Flammability | V2 according to UL94 | | |
| Operating Temperature | **Permanent** | **Intermittent** | |
| | -20 °C to +100 °C | -40 °C to +150 °C | |
| Thread Type | • Metric EN 60423<br>• NPT ANSI B1.20.1<br>• PG DIN 40430<br>• Gas ISO 228<br>• Other thread types also available upon request. | | |
| Cable Type | Non-armored | | |
| Accessories | • Lock nuts<br>• Dome plugs<br>• Reducing seals<br>• Flat cable seals<br>• Multihole seals<br>• Gaskets (Washers) | | |
| Remarks | • Manufactured according to DIN EN 62444/50262.<br>• We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.<br>• Some approvals do not cover all sizes.<br>• Other colors on request<br>RAL 5015 (blue)<br>RAL 9003 (white)<br>RAL 3020 (red) | | |
| Approvals | Certification Number | Standards | |
| UL | E542803 | UL514B<br>CSA22.2 No 18.3-12<br>CSA22.2 No 94.2-15 | |
| TYPE 4X | | UL50E | |
| For more approvals: see our web page | | | |







# STANDARD CABLE GLANDS WITH THREAD, POLYAMIDE

| Thread Type Metric Acc. to EN 60423 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Outer Thread Size | Core Ø | Outer Thread Length | Spanner Width | | Outer Ø | Max. Height | Part Number | | |
| | min-max (mm) | TL (mm) | Cap (mm) | Body (mm) | D (mm) | H (mm) | RAL 7035 Light Gray | RAL 7001 Gray | RAL 9005 Black |
| M12x1.5 | 2.0-5.0 | 8.0 | 15 | 15 | 17.0 | 25.3 | AIO-BICS-1S | AIO-BICS-0S | AIO-BICS-2S |
| | 2.0-5.0 | 10.0 | | | | | AIO-BMCS-EN-1SMR | AIO-BMCS-EN-0SMR | AIO-BMCS-EN-2SMR |
| | 2.0-5.0 | 15.0 | | | | | AIO-BMCS-EN-1SRL | AIO-BMCS-EN-0SRL | AIO-BMCS-EN-2SRL |
| | 3.0-6.5 | 8.0 | | | | | AIO-BMCS-1S | AIO-BMCS-0S | AIO-BMCS-2S |
| | 3.0-6.5 | 10.0 | | | | | AIO-BMCS-EN-1SM | AIO-BMCS-EN-0SM | AIO-BMCS-EN-2SM |
| | 3.0-6.5 | 15.0 | | | | | AIO-BMCS-EN-1SL | AIO-BMCS-EN-0SL | AIO-BMCS-EN-2SL |
| M16x1.5 | 2.0-6.0 | 8.0 | 19 | 19 | 21.7 | 27.4 | AIO-BMCS-EN-11R | AIO-BMCS-EN-01R | AIO-BMCS-EN-21R |
| | 2.0-6.0 | 10.0 | | | | | AIO-BMCS-EN-11MR | AIO-BMCS-EN-01MR | AIO-BMCS-EN-21MR |
| | 2.0-6.0 | 15.0 | | | | | AIO-BMCS-EN-11LR | AIO-BMCS-EN-01LR | AIO-BMCS-EN-21LR |
| | 3.0-7.0 | 10.0 | 22 | 22 | 25.0 | 32.2 | AIO-BICS-11 | AIO-BICS-01 | AIO-BICS-21 |
| | 3.0-7.0 | 15.0 | | | | | AIO-BICS-11L | AIO-BICS-01L | AIO-BICS-21L |
| | 4.0-8.0 | 8.0 | 19 | 19 | 21.7 | 27.4 | AIO-BMCS-EN-11 | AIO-BMCS-EN-01 | AIO-BMCS-EN-21 |
| | 4.0-8.0 | 10.0 | | | | | AIO-BMCS-EN-11M | AIO-BMCS-EN-01M | AIO-BMCS-EN-21M |
| | 4.0-8.0 | 15.0 | | | | | AIO-BMCS-EN-11L | AIO-BMCS-EN-01L | AIO-BMCS-EN-21L |
| | 5.0-10.0 | 10.0 | 22 | 22 | 25.0 | 32.2 | AIO-BMCS-11 | AIO-BMCS-01 | AIO-BMCS-21 |
| | 5.0-10.0 | 15.0 | | | | | AIO-BMCS-11L | AIO-BMCS-01L | AIO-BMCS-21L |
| M20x1.5 | 5.0-9.0 | 10.0 | 24 | 24 | 27.0 | 32.4 | AIO-BICS-12 | AIO-BICS-02 | AIO-BICS-22 |
| | 5.0-9.0 | 15.0 | | | | | AIO-BICS-12L | AIO-BICS-02L | AIO-BICS-22L |
| | 6.0-12.0 | 10.0 | | | | | AIO-BMCS-12 | AIO-BMCS-02 | AIO-BMCS-22 |
| | 6.0-12.0 | 15.0 | | | | | AIO-BMCS-12L | AIO-BMCS-02L | AIO-BMCS-22L |
| | 7.0-12.0 | 10.0 | 27 | 27 | 30.9 | 31.9 | AIO-BICS-13 | AIO-BICS-03 | AIO-BICS-23 |
| | 7.0-12.0 | 15.0 | | | | | AIO-BICS-14 | AIO-BICS-04 | AIO-BICS-24 |
| | 7.0-13.0 | 10.0 | 25 | 25 | 27.5 | 34.0 | AIO-BMCS-EN-12S | AIO-BMCS-EN-02S | AIO-BMCS-EN-22S |
| | 10.0-14.0 | 10.0 | 27 | 27 | 30.9 | 31.9 | AIO-BMCS-13 | AIO-BMCS-03 | AIO-BMCS-23 |
| | 10.0-14.0 | 15.0 | | | | | AIO-BMCS-14 | AIO-BMCS-04 | AIO-BMCS-24 |
| M25x1.5 | 9.0-13.0 | 8.0 | 29 | 29 | 32.5 | 37.7 | AIO-BMCS-EN-13R | AIO-BMCS-EN-03R | AIO-BMCS-EN-23R |
| | 9.0-13.0 | 15.0 | | | | | AIO-BMCS-EN-13RL | AIO-BMCS-EN-03RL | AIO-BMCS-EN-23RL |
| | 9.0-16.0 | 10.0 | 33 | 33 | 37.2 | 38.4 | AIO-BICS-15 | AIO-BICS-05 | AIO-BICS-25 |
| | 9.0-16.0 | 15.0 | 33 | 33 | 37.2 | 38.4 | AIO-BICS-16 | AIO-BICS-06 | AIO-BICS-26 |
| | 11.0-17.0 | 8.0 | 29 | 29 | 32.5 | 37.7 | AIO-BMCS-EN-13 | AIO-BMCS-EN-03 | AIO-BMCS-EN-23 |
| | 11.0-17.0 | 15.0 | | | | | AIO-BMCS-EN-13L | AIO-BMCS-EN-03L | AIO-BMCS-EN-23L |
| | 13.0-18.0 | 10.0 | 33 | 33 | 37.2 | 38.4 | AIO-BMCS-15 | AIO-BMCS-05 | AIO-BMCS-25 |
| | 13.0-18.0 | 15.0 | | | | | AIO-BMCS-16 | AIO-BMCS-06 | AIO-BMCS-26 |
| M32x1.5 | 11.0-15.0 | 10.0 | 36 | 36 | 41.0 | 42.3 | AIO-BMCS-EN-14R | AIO-BMCS-EN-04R | AIO-BMCS-EN-24R |
| | 11.0-15.0 | 15.0 | | | | | AIO-BMCS-EN-14RL | AIO-BMCS-EN-04RL | AIO-BMCS-EN-24RL |
| | 12.0-20.0 | 15.0 | 42 | 42 | 47.1 | 42.3 | AIO-BICS-17 | AIO-BICS-07 | AIO-BICS-27 |
| | 15.0-21.0 | 10.0 | 36 | 36 | 41.0 | 42.3 | AIO-BMCS-EN-14 | AIO-BMCS-EN-04 | AIO-BMCS-EN-24 |
| | 15.0-21.0 | 15.0 | | | | | AIO-BMCS-EN-14L | AIO-BMCS-EN-04L | AIO-BMCS-EN-24L |
| | 18.0-25.0 | 15.0 | 42 | 42 | 47.1 | 43.3 | AIO-BMCS-17 | AIO-BMCS-07 | AIO-BMCS-27 |
| M40x1.5 | 16.0-23.0 | 10.0 | 46 | 46 | 52.4 | 47.4 | AIO-BMCS-EN-15R | AIO-BMCS-EN-05R | AIO-BMCS-EN-25R |
| | 16.0-23.0 | 18.0 | | | | | AIO-BMCS-EN-15RL | AIO-BMCS-EN-05RL | AIO-BMCS-EN-25RL |
| | 19.0-28.0 | 10.0 | | | | | AIO-BMCS-EN-15 | AIO-BMCS-EN-05 | AIO-BMCS-EN-25 |
| | 19.0-28.0 | 18.0 | | | | | AIO-BMCS-EN-15L | AIO-BMCS-EN-05L | AIO-BMCS-EN-25L |
| | 20.0-26.0 | 18.0 | 53 | 53 | 59.6 | 52.4 | AIO-BICS-18 | AIO-BICS-08 | AIO-BICS-28 |
| | 22.0-32.0 | 18.0 | | | | | AIO-BMCS-18 | AIO-BMCS-08 | AIO-BMCS-28 |
| M50x1.5 | 25.0-31.0 | 18.0 | 60 | 60 | 67.8 | 54.8 | AIO-BICS-19 | AIO-BICS-09 | AIO-BICS-29 |
| | 30.0-38.0 | 18.0 | | | | | AIO-BMCS-19 | AIO-BMCS-09 | AIO-BMCS-29 |
| M63x1.5 | 29.0-35.0 | 18.0 | 65 | 65 | 72.4 | 54.9 | AIO-BICS-20 | AIO-BICS-10 | AIO-BICS-30 |
| | 34.0-44.0 | 18.0 | | | | | AIO-BMCS-20 | AIO-BMCS-10 | AIO-BMCS-30 |
| M75x2.0 | 48.0-55.0 | 25.0 | 75 | 80 | 89.0 | 55.0 | AIO-BMCS-B12 | AIO-BMCS-B02 | AIO-BMCS-B22 |

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# STANDARD CABLE GLANDS WITH THREAD, POLYAMIDE

## Polyamide Cable Glands with Lamellar Clamping

- For standard industrial applications in harsh environments.
- Easy assembly.
- High quality strain relief and sealing reliable performance for standard industrial applications.
- Up-to-date international approvals.





| Technical Details | | | |
|---|---|---|---|
| Material | | Body, Cap | PA 6 (Polyamide 6) |
| | | Seal | CR (Chloroprene) |
| Ingress Protection Rating | | IP 68-5 Bar, 30 min IP 66 | |
| Flammability | | V2 according to UL94 | |
| Operating Temperature | | Permanent | Intermittent |
| | | -20 °C to +100 °C | -40 °C to +150 °C |
| Thread Type | | • Metric EN 60423<br>• NPT ANSI B1.20.1<br>• PG DIN 40430<br>• Gas ISO 228<br>• Other thread types also available upon request. | |
| Cable Type | | Non-armored | |
| Accessories | | • Lock nuts<br>• Dome plugs<br>• Reducing seals<br>• Flat cable seals<br>• Multihole seals<br>• Gaskets (Washers) | |
| Remarks | | • Manufactured according to DIN EN 62444/50262.<br>• We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.<br>• Some approvals do not cover all sizes.<br>• Other colors on request:<br>RAL 5015 (blue)<br>RAL 9003 (white)<br>RAL 3020 (red) | |
| Approvals | Certification Number | Standards | |
| UL | E542803 | UL514B<br>CSA22.2 No 18.3-12<br>CSA22.2 No 94.2-15 | |
| TYPE 4X | | UL50E | |

For more approvals: see our web page

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# STANDARD CABLE GLANDS WITH THREAD, POLYAMIDE

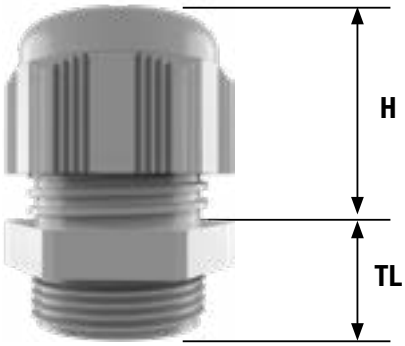
| Thread Type NPT Acc. to ANSI B1.20.1 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Outer Thread Size (Male) | Clamping Range Ø | Outer Thread Length | Spanner Width | | Outer Ø | Max. Height | Part Number | | |
| | min-max (mm) | TL (mm) | Cap (mm) | Body (mm) | D (mm) | H (mm) | RAL 7035 Light Gray | RAL 7001 Gray | RAL 9005 Black |
| NPT 3/8" | 3.0-7.0 | 15.0 | 22 | 22 | 25.0 | 32.2 | AIO-BSCSPA-11R | AIO-BSCSPA-01R | AIO-BSCSPA-21R |
| | 5.0-10.0 | 15.0 | 22 | 22 | 25.0 | 32.2 | AIO-BSCSPA-11 | AIO-BSCSPA-01 | AIO-BSCSPA-21 |
| NPT 1/2" | 5.0-9.0 | 15.0 | 24 | 24 | 27.0 | 32.4 | AIO-BSCSPB-12R | AIO-BSCSPB-02R | AIO-BSCSPB-22R |
| | 6.0-12.0 | 15.0 | 24 | 24 | 27.0 | 32.4 | AIO-BSCSPB-12 | AIO-BSCSPB-02 | AIO-BSCSPB-22 |
| | 7.0-12.0 | 15.0 | 27 | 27 | 30.9 | 31.9 | AIO-BSCSPC-12R | AIO-BSCSPC-02R | AIO-BSCSPC-22R |
| | 10.0-14.0 | 15.0 | 27 | 27 | 30.9 | 31.9 | AIO-BSCSPC-12 | AIO-BSCSPC-02 | AIO-BSCSPC-22 |
| NPT 3/4" | 9.0-16.0 | 15.0 | 33 | 33 | 37.2 | 38.4 | AIO-BSCSPD-13R | AIO-BSCSPD-03R | AIO-BSCSPD-23R |
| | 13.0 -18.0 | 15.0 | 33 | 33 | 37.2 | 38.4 | AIO-BSCSPD-13 | AIO-BSCSPD-03 | AIO-BSCSPD-23 |
| NPT 1" | 12.0-20.0 | 18.0 | 42 | 42 | 47.1 | 43.3 | AIO-BSCSP-14R | AIO-BSCSP-04R | AIO-BSCSP-24R |
| | 18.0-25.0 | 18.0 | 42 | 42 | 47.1 | 43.3 | AIO-BSCSP-14 | AIO-BSCSP-04 | AIO-BSCSP-24 |

| Thread Type PG Acc. to DIN 40430 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Outer Thread Size | Core Ø | Outer Thread Length | Spanner Width | | Outer Ø | Nax. Height | Part Number | | |
| | min-max (mm) | TL (mm) | Cap (mm) | Body (mm) | D (mm) | h (mm) | RAL 7035 Light Gray | RAL 7001 Gray | RAL 9005 Black |
| PG 7 | 2.0-5.0 | 8.0 | 15 | 15 | 17 | 25.3 | AIO-BSCSR-11 | AIO-BSCSR-01 | AIO-BSCSR-21 |
| | 3.0-6.5 | | | | | | AIO-BSCS-11 | AIO-BSCS-01 | AIO-BSCS-21 |
| PG 9 | 2.0-6.0 | 8.0 | 19 | 19 | 21.7 | 27.4 | AIO-BSCSR-12 | AIO-BSCSR-02 | AIO-BSCSR-22 |
| | 4.0-8.0 | | | | | | AIO-BSCS-12 | AIO-BSCS-02 | AIO-BSCS-22 |
| PG 11 | 3.0-7.0 | 8.0 | 22 | 22 | 25 | 32.2 | AIO-BSCSR-13 | AIO-BSCSR-03 | AIO-BSCSR-23 |
| | 5.0-10.0 | | | | | | AIO-BSCS-13 | AIO-BSCS-03 | AIO-BSCS-23 |
| PG 13.5 | 5.0-9.0 | 10.0 | 24 | 24 | 27 | 32.4 | AIO-BSCSR-14 | AIO-BSCSR-04 | AIO-BSCSR-24 |
| | 6.0-12.0 | | | | | | AIO-BSCS-14 | AIO-BSCS-04 | AIO-BSCS-24 |
| PG 16 | 7.0-12.0 | 10.0 | 27 | 27 | 30.9 | 31.9 | AIO-BSCSR-15 | AIO-BSCSR-05 | AIO-BSCSR-25 |
| | 10.0-14.0 | | | | | | AIO-BSCS-15 | AIO-BSCS-05 | AIO-BSCS-25 |
| PG 21 | 9.0-16.0 | 11.0 | 33 | 33 | 37.2 | 38.4 | AIO-BSCSR-16 | AIO-BSCSR-06 | AIO-BSCSR-26 |
| | 13.0-18.0 | | | | | | AIO-BSCS-16 | AIO-BSCS-06 | AIO-BSCS-26 |
| PG 29 | 12.0-20.0 | 11.0 | 42 | 42 | 47.1 | 43.3 | AIO-BSCSR-17 | AIO-BSCSR-07 | AIO-BSCSR-27 |
| | 18.0-25.0 | | | | | | AIO-BSCS-17 | AIO-BSCS-07 | AIO-BSCS-27 |
| PG 36 | 20.0-26.0 | 13.0 | 53 | 53 | 59.6 | 52.4 | AIO-BSCSR-18 | AIO-BSCSR-08 | AIO-BSCSR-28 |
| | 22.0-32.0 | | | | | | AIO-BSCS-18 | AIO-BSCS-08 | AIO-BSCS-28 |
| PG 42 | 25.0-31.0 | 13.0 | 60 | 60 | 67.8 | 54.8 | AIO-BSCSR-19 | AIO-BSCSR-09 | AIO-BSCSR-29 |
| | 30.0-38.0 | | | | | | AIO-BSCS-19 | AIO-BSCS-09 | AIO-BSCS-29 |
| PG 48 | 29.0-35.0 | 14.0 | 65 | 65 | 72.4 | 54.9 | AIO-BSCSR-20 | AIO-BSCSR-10 | AIO-BSCSR-30 |
| | 34.0-44.0 | | | | | | AIO-BSCS-20 | AIO-BSCS-10 | AIO-BSCS-30 |

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# STANDARD CABLE GLANDS WITH THREAD, POLYAMIDE




| Thread Type G Acc. to G ISO 228 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Outer Thread Size (Male) | Clamping Range Ø | Outer Thread Length | Spanner Width | | Outer Ø | Max Height | Part Number | | |
| | min-max (mm) | TL (mm) | Cap (mm) | Body (mm) | D (mm) | H (mm) | RAL 7035 Light Gray | RAL 7001 Gray | RAL 9005 Black |
| G 1/4 | 2.0-5.0 | 10.0 | 15 | 15 | 17.0 | 25.3 | AIO-BPCSFR-1S | AIO-BPCSFR-0S | AIO-BPCSFR-2S |
| | 3.0-6.5 | 10.0 | 15 | 15 | 17.0 | 25.3 | AIO-BPCSF-1S | AIO-BPCSF-0S | AIO-BPCSF-2S |
| G 3/8 | 3.0-7.0 | 11.0 | 22 | 22 | 25.0 | 32.2 | AIO-BPCSFR-11 | AIO-BPCSFR-01 | AIO-BPCSFR-21 |
| | 5.0-10.0 | 11.0 | 22 | 22 | 25.0 | 32.2 | AIO-BPCSF-11 | AIO-BPCSF-01 | AIO-BPCSF-21 |
| G 1/2 | 5.0-9.0 | 10.0 | 24 | 24 | 27.0 | 32.4 | AIO-BPCSFR-12 | AIO-BPCSFR-02 | AIO-BPCSFR-22 |
| | 6.0-12.0 | 10.0 | 24 | 24 | 27.0 | 32.4 | AIO-BPCSF-12 | AIO-BPCSF-02 | AIO-BPCSF-22 |
| | 7.0-12.0 | 11.0 | 27 | 27 | 30.9 | 31.9 | AIO-BPCSFR-13 | AIO-BPCSFR-03 | AIO-BPCSFR-23 |
| | 10.0-14.0 | 11.0 | 27 | 27 | 30.9 | 31.9 | AIO-BPCSF-13 | AIO-BPCSF-03 | AIO-BPCSF-23 |
| G 3/4 | 9.0-16.0 | 12.0 | 33 | 33 | 37.2 | 38.4 | AIO-BPCSFR-14 | AIO-BPCSFR-04 | AIO-BPCSFR-24 |
| | 13.0-18.0 | 12.0 | 33 | 33 | 37.2 | 38.4 | AIO-BPCSF-14 | AIO-BPCSF-04 | AIO-BPCSF-24 |
| G 1 | 12.0-20.0 | 13.0 | 42 | 42 | 47.1 | 43.3 | AIO-BPCSFR-15 | AIO-BPCSFR-05 | AIO-BPCSFR-25 |
| | 18.0-25.0 | 13.0 | 42 | 42 | 47.7 | 43.3 | AIO-BPCSF-15 | AIO-BPCSF-05 | AIO-BPCSF-25 |

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# STANDARD CABLE GLANDS WITH THREAD, BRASS

## Brass Cable Glands with Lamellar Clamping

- For standard industrial applications in harsh environments.
- Easy assembly.
- High quality strain relief and sealing reliable performance for standard industrial applications.
- Up-to-date international approvals.



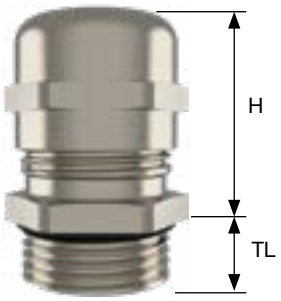
| Technical Details | | | |
|---|---|---|---|
| Material | Body, Cap | Brass Nickel plated | |
| | Seal | CR (Chloroprene) | |
| | Clamping Insert | PA 6 (Polyamide 6) | |
| | O-Ring | NBR | |
| Ingress Protection Rating | IP 68-5 Bar, 30 min<br>IP 66 | | |
| Flammability | V2 according to UL94 | | |
| Operating Temperature | **Permanent** | **Intermittent** | |
| | -20 °C to +100 °C | -40 °C to +150 °C | |
| Thread Type | • Metric EN 60423<br>• NPT ANSI B1.20.1<br>• PG DIN 40430<br>• Other thread types also available upon request. | | |
| Cable Type | Non-armored | | |
| Accessories | • Lock nuts<br>• Dome plugs<br>• Reducing seals<br>• Flat cable seals<br>• Multihole seals<br>• Gaskets (Washers) | | |
| Remarks | • Manufactured according to DIN EN 62444/50262.<br>• We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.<br>• Some approvals do not cover all sizes.<br>• O-ring available in Metric and PG threads as a standard. For NPT threads, O-ring available upon request.<br>• Accessories must be ordered separately. | | |
| **Approvals** | **Certificate Number** | **Standards** | |
| UL | E542803 | UL514B<br>CSA22.2 No 18.3-12<br>CSA22.2 No 94.2-15 | |
| TYPE 4X | | UL50E | |

| Order Coding | | | | |
|---|---|---|---|---|
| **Part Number** | **-** | **Gasket (Washer)** | **Lock Nut** | **Sealing Plug** |
| **Mandatory** | **-** | **Option** | **Option** | **Option** |
| See table | - | WC-Chloroprene<br>WS-Silicone | L-Lock Nut | P-Dome Plug<br>T-Dust Plug |
| Example | | | | |
| AIO-BMCSBE-E4 | - | WC | L | P |

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# STANDARD CABLE GLANDS WITH THREAD, BRASS




| Thread Type NPT Acc. to ANSI B | | | | | | | |
|---|---|---|---|---|---|---|---|
| Outer Thread Size (Male) | Clamp Range Ø | Outer Thread Length | Spanner Width | | Outer Ø | Max. Height | Part Number |
| | min-max (mm) | TL (mm) | Cap (mm) | Body (mm) | D (mm) | H (mm) | |
| NPT 3/8" | 2.0-6.0 | 11.5 | 17 | 19 | 21.0 | 25.5 | AIO-BNCSBD-01 |
| | 3.0-7.0 | 11.5 | 20 | 20 | 22.0 | 31.5 | AIO-BNCSBD-01S |
| | 4.0-8.0 | 11.5 | 17 | 19 | 21.0 | 25.5 | AIO-BNCSBC-01 |
| | 5.0-10.0 | 11.5 | 20 | 20 | 22.0 | 31.5 | AIO-BNCSBC-01S |
| NPT 1/2" | 5.0-9.0 | 13.0 | 22 | 22 | 24.5 | 27.5 | AIO-BNCSBD-02 |
| | 6.0-12.0 | 13.0 | 22 | 22 | 24.5 | 27.5 | AIO-BNCSBC-02 |
| | 7.0-12.0 | 13.0 | 24 | 24 | 26.8 | 30.0 | AIO-BNCSBD-02S |
| | 10.0-14.0 | 13.0 | 24 | 24 | 26.8 | 30.0 | AIO-BNCSBC-02S |
| NPT 3/4" | 9.0-16.0 | 13.0 | 30 | 30 | 33.0 | 38.0 | AIO-BNCSBD-03 |
| | 13.0-18.0 | 13.0 | 30 | 30 | 33.0 | 38.0 | AIO-BNCSBC-03 |
| NPT 1" | 12.0-20.0 | 13.0 | 40 | 43 | 48.5 | 45.5 | AIO-BNCSBD-04 |
| | 18.0-25.0 | 13.0 | 40 | 43 | 48.5 | 45.5 | AIO-BNCSBC-04 |
| NPT 1 1/4" | 22.0-32.0 | 25.6 | 50 | 50 | 55.5 | 50.0 | AIO-BNCSBC-05 |
| NPT 1 1/2" | 30.0-38.0 | 26.0 | 58 | 58 | 64.0 | 51.0 | AIO-BNCSBC-06 |
| NPT 2" | 34.0-44.0 | 27.0 | 64 | 64 | 70.0 | 55.0 | AIO-BNCSBC-07 |

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# STANDARD CABLE GLANDS WITH THREAD, BRASS

| Thread Type PG Acc. to DIN 40430 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Outer Thread Size (Male) | Clamp Range Ø | Outer Thread Length | Spanner Width | | Outer Ø | Max. Height | Part Number |
| | min-max (mm) | TL (mm) | Cap (mm) | Body (mm) | D (mm) | H (mm) | |
| PG 7 | 2.0-5.0 | 6.0 | 14 | 14 | 15.5 | 24.0 | AIO-BSCSBD-01 |
| | 2.0-5.0 | 10.0 | 14 | 14 | 15.5 | 24.0 | AIO-BSCSBE-01R |
| | 3.0-6.5 | 6.0 | 14 | 14 | 15.5 | 24.0 | AIO-BSCSBC-01 |
| | 3.0-6.5 | 10.0 | 14 | 14 | 15.5 | 24.0 | AIO-BSCSBE-01 |
| PG 9 | 2.0-6.0 | 6.0 | 17 | 17 | 18.9 | 25.5 | AIO-BSCSBD-02 |
| | 2.0-6.0 | 10.0 | 17 | 17 | 18.9 | 25.5 | AIO-BSCSBE-02R |
| | 4.0-8.0 | 6.0 | 17 | 17 | 18.9 | 25.5 | AIO-BSCSBC-02 |
| | 4.0-8.0 | 10.0 | 17 | 17 | 18.9 | 25.5 | AIO-BSCSBE-02 |
| PG 11 | 3.0-7.0 | 6.0 | 20 | 20 | 22.0 | 28.0 | AIO-BSCSBD-03 |
| | 3.0-7.0 | 10.0 | 20 | 20 | 22.0 | 28.0 | AIO-BSCSBE-03R |
| | 5.0-10.0 | 6.0 | 20 | 20 | 22.0 | 28.0 | AIO-BSCSBC-03 |
| | 5.0-10.0 | 10.0 | 20 | 20 | 22.0 | 28.0 | AIO-BSCSBE-03 |
| PG 13.5 | 5.0-9.0 | 6.5 | 22 | 22 | 24.5 | 26.5 | AIO-BSCSBD-04 |
| | 5.0-9.0 | 10.0 | 22 | 22 | 24.5 | 26.5 | AIO-BSCSBE-04R |
| | 6.0-12.0 | 6.5 | 22 | 22 | 24.5 | 26.5 | AIO-BSCSBC-04 |
| | 6.0-12.0 | 10.0 | 22 | 22 | 24.5 | 26.5 | AIO-BSCSBE-04 |
| PG 16 | 7.0-12.0 | 6.5 | 24 | 24 | 26.5 | 30.0 | AIO-BSCSBD-05 |
| | 7.0-12.0 | 10.0 | 24 | 24 | 26.5 | 30.0 | AIO-BSCSBE-05R |
| | 10.0-14.0 | 6.5 | 24 | 24 | 26.5 | 30.0 | AIO-BSCSBC-05 |
| | 10.0-14.0 | 10.0 | 24 | 24 | 26.5 | 30.0 | AIO-BSCSBE-05 |
| PG 21 | 9.0-16.0 | 7.2 | 30 | 30 | 33.0 | 35.0 | AIO-BSCSBD-06 |
| | 9.0-16.0 | 12.0 | 30 | 30 | 33.0 | 35.0 | AIO-BSCSBE-06R |
| | 13.0-18.0 | 7.2 | 30 | 30 | 33.0 | 35.0 | AIO-BSCSBC-06 |
| | 13.0-18.0 | 12.0 | 30 | 30 | 33.0 | 35.0 | AIO-BSCSBE-06 |
| PG 29 | 12.0-20.0 | 8.0 | 40 | 40 | 44.5 | 40.5 | AIO-BSCSBD-07 |
| | 12.0-20.0 | 12.0 | 40 | 40 | 44.5 | 40.5 | AIO-BSCSBE-07R |
| | 18.0-25.0 | 8.0 | 40 | 40 | 44.5 | 40.5 | AIO-BSCSBC-07 |
| | 18.0-25.0 | 12.0 | 40 | 40 | 44.5 | 40.5 | AIO-BSCSBE-07 |
| PG 36 | 20.0-26.0 | 9.0 | 50 | 50 | 55.5 | 50.0 | AIO-BSCSBD-08 |
| | 20.0-26.0 | 14.0 | 50 | 50 | 55.5 | 50.0 | AIO-BSCSBE-08R |
| | 22.0-32.0 | 9.0 | 50 | 50 | 55.5 | 50.0 | AIO-BSCSBC-08 |
| | 22.0-32.0 | 14.0 | 50 | 50 | 55.5 | 50.0 | AIO-BSCSBE-08 |
| PG 42 | 25.0-31.0 | 12.0 | 58 | 58 | 64.0 | 51.0 | AIO-BSCSBD-09 |
| | 25.0-31.0 | 16.0 | 58 | 58 | 64.0 | 51.0 | AIO-BSCSBE-09R |
| | 30.0-38.0 | 12.0 | 58 | 58 | 64.0 | 51.0 | AIO-BSCSBC-09 |
| | 30.0-38.0 | 16.0 | 58 | 58 | 64.0 | 51.0 | AIO-BSCSBE-09 |
| PG 48 | 29.0-35.0 | 14.0 | 64 | 64 | 70.0 | 54.5 | AIO-BSCSBD-10 |
| | 29.0-35.0 | 18.0 | 64 | 64 | 70.0 | 54.5 | AIO-BSCSBE-10R |
| | 34.0-44.0 | 14.0 | 64 | 64 | 70.0 | 54.5 | AIO-BSCSBC-10 |
| | 34.0-44.0 | 18.0 | 64 | 64 | 70.0 | 54.5 | AIO-BSCSBE-10 |

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# STANDARD CABLE GLANDS WITH THREAD, BRASS

## Brass Cable Glands with Lamellar Clamping

- For standard industrial applications in harsh environments.
- Easy assembly.
- High quality strain relief and sealing reliable performance for standard industrial applications.
- Up-to-date international approvals.





| Technical Details | | |
|---|---|---|
| Material | Body, Cap | Brass Nickel plated |
| | Seal | CR (Chloroprene) |
| | Clamping Insert | PA 6 (Polyamide 6) |
| | O-Ring | NBR |
| Ingress Protection Rating | IP 68-5 Bar, 30 min<br>IP 66 | |
| Flammability | V2 according to UL94 | |
| Operating Temperature | **Permanent** | **Intermittent** |
| | -20 °C to +100 °C | -40 °C to +150 °C |
| Thread Type | • Metric EN 60423<br>• NPT ANSI B1.20.1<br>• PG DIN 40430<br>• Other thread types also available upon request. | |
| Cable Type | Non-armored | |
| Accessories | • Lock nuts<br>• Dome plugs<br>• Reducing seals<br>• Flat cable seals<br>• Multihole seals<br>• Gaskets (Washers) | |
| Remarks | • Manufactured according to DIN EN 62444/50262.<br>• We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.<br>• Some approvals do not cover all sizes.<br>• O-ring available in Metric and PG threads as a standard. For NPT thread, O-ring available upon request.<br>• Accessories must be ordered separately. | |
| Approvals | Certificate Number | Standards |
| UL | E542803 | UL514B<br>CSA22.2 No 18.3-12<br>CSA22.2 No 94.2-15 |
| TYPE 4X | | UL50E |

| Order Coding | | | | |
|---|---|---|---|---|
| **Part Number** | **-** | **Gasket (Washer)** | **Lock Nut** | **Sealing Plug** |
| **Mandatory** | **-** | **Option** | **Option** | **Option** |
| See table | - | WC-Chloroprene<br>WS-Silicone | L-Lock Nut | P-Dome Plug<br>T-Dust Plug |
| **Example** | | | | |
| AIO-BMCSBE-E4 | - | WC | L | P |

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# STANDARD CABLE GLANDS WITH THREAD, BRASS

| Thread Type Metric Acc. to EN 60423 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Outer Thread Size (Male) | Clamp Range Ø min-max (mm) | Outer Thread Length TL (mm) | Spanner Width Cap (mm) | Spanner Width Body (mm) | Outer Ø D (mm) | Max. Height H (mm) | Part Number |
| M12x1.5 | 2.0-5.0 | 6.0 | 14 | 14 | 15.5 | 24.0 | AIO-BMCSBD-0S |
| | 2.0-5.0 | 12.0 | 14 | 14 | 15.5 | 24.0 | AIO-BMCSBE-0SR |
| | 3.0-6.5 | 6.0 | 14 | 14 | 15.5 | 24.0 | AIO-BMCSBC-0S |
| | 3.0-6.5 | 12.0 | 14 | 14 | 15.5 | 24.0 | AIO-BMCSBE-0S |
| M16x1.5 | 2.0-6.0 | 7.0 | 17 | 18 | 20.0 | 25.5 | AIO-BMCSBD-01 |
| | 2.0-6.0 | 12.0 | 17 | 18 | 20.0 | 25.5 | AIO-BMCSBE-01R |
| | 3.0-7.0 | 7.0 | 20 | 20 | 22.0 | 30.5 | AIO-BMCSBD-E1 |
| | 3.0-7.0 | 12.0 | 20 | 20 | 22.0 | 30.5 | AIO-BMCSBE-E1R |
| | 4.0-8.0 | 7.0 | 17 | 18 | 20.0 | 25.5 | AIO-BMCSBC-01 |
| | 4.0-8.0 | 12.0 | 17 | 18 | 20.0 | 25.5 | AIO-BMCSBE-01 |
| | 5.0-10.0 | 6.5 | 20 | 20 | 22.0 | 31.5 | AIO-BMCSBC-01S |
| | 5.0-10.0 | 7.0 | 20 | 20 | 22.0 | 30.5 | AIO-BMCSBC-E1 |
| | 5.0-10.0 | 12.0 | 20 | 20 | 22.0 | 31.5 | AIO-BMCSBE-01S |
| M20x1.5 | 5.0-9.0 | 8.0 | 22 | 22 | 24.5 | 28.0 | AIO-BMCSBD-E2 |
| | 5.0-9.0 | 12.0 | 22 | 22 | 24.5 | 28.0 | AIO-BMCSBE-E2R |
| | 6.0-12.0 | 8.0 | 22 | 22 | 24.5 | 26.5 | AIO-BMCSBC-02 |
| | 6.0-12.0 | 12.0 | 22 | 22 | 24.5 | 26.5 | AIO-BMCSBE-02 |
| | 7.0-13.0 | 8.0 | 24 | 24 | 26.5 | 30.5 | AIO-BMCSBC-E2S |
| | 10.0-14.0 | 8.0 | 24 | 24 | 26.5 | 30.0 | AIO-BMCSBC-02S |
| | 10.0-14.0 | 12.0 | 24 | 24 | 26.5 | 30.0 | AIO-BMCSBE-02S |
| M25x1.5 | 7.0-12.0 | 8.0 | 24 | 27 | 30.0 | 30.0 | AIO-BMCSBD-03 |
| | 7.0-12.0 | 12.0 | 24 | 27 | 30.0 | 30.0 | AIO-BMCSBE-03R |
| | 9.0-16.0 | 8.0 | 30 | 30 | 33.0 | 35.0 | AIO-BMCSBD-03S |
| | 9.0-16.0 | 12.0 | 30 | 30 | 33.0 | 35.0 | AIO-BMCSBE-03SR |
| | 10.0-14.0 | 8.0 | 24 | 27 | 30.0 | 30.0 | AIO-BMCSBC-03 |
| | 10.0-14.0 | 12.0 | 24 | 27 | 30.0 | 30.0 | AIO-BMCSBE-03 |
| | 11.0-17.0 | 8.0 | 27 | 27 | 30.0 | 32.5 | AIO-BMCSBC-E3 |
| | 11.0-17.0 | 12.0 | 27 | 27 | 30.0 | 32.5 | AIO-BMCSBE-E3 |
| | 13.0-18.0 | 8.0 | 30 | 30 | 33.0 | 35.0 | AIO-BMCSBC-03S |
| | 13.0-18.0 | 12.0 | 30 | 30 | 33.0 | 35.0 | AIO-BMCSBE-03S |
| M32x1.5 | 9.0-16.0 | 9.0 | 30 | 34 | 37.5 | 35.0 | AIO-BMCSBD-04 |
| | 9.0-16.0 | 15.0 | 30 | 34 | 37.5 | 35.0 | AIO-BMCSBE-04R |
| | 12.0-20.0 | 9.0 | 40 | 40 | 44.5 | 46.0 | AIO-BMCSBD-04S |
| | 12.0-20.0 | 15.0 | 40 | 40 | 44.5 | 46.0 | AIO-BMCSBE-04SR |
| | 13.0-18.0 | 9.0 | 30 | 34 | 37.5 | 35.0 | AIO-BMCSBC-04 |
| | 13.0-18.0 | 15.0 | 30 | 34 | 37.5 | 35.0 | AIO-BMCSBE-04 |
| | 15.0-21.0 | 8.0 | 34 | 34 | 37.5 | 38.0 | AIO-BMCSBC-E4 |
| | 15.0-21.0 | 15.0 | 34 | 34 | 37.5 | 38.0 | AIO-BMCSBE-E4 |
| | 18.0-25.0 | 9.0 | 40 | 40 | 44.5 | 46.0 | AIO-BMCSBC-04S |
| | 18.0-25.0 | 15.0 | 40 | 40 | 44.5 | 46.0 | AIO-BMCSBE-04S |



| Thread Type Metric Acc. to EN 60423 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Outer Thread Size (Male) | Clamp Range Ø min-max (mm) | Outer Thread Length TL (mm) | Spanner Width Cap (mm) | Spanner Width Body (mm) | Outer Ø D (mm) | Max. Height H (mm) | Part Number |
| M40x1.5 | 12.0-20.0 | 9.0 | 40 | 43 | 48.5 | 40.5 | AIO-BMCSBD-05 |
| | 12.0-20.0 | 15.0 | 40 | 43 | 48.5 | 40.5 | AIO-BMCSBE-05R |
| | 18.0-25.0 | 9.0 | 40 | 43 | 48.5 | 40.5 | AIO-BMCSBC-05 |
| | 18.0-25.0 | 15.0 | 40 | 43 | 48.5 | 40.5 | AIO-BMCSBE-05 |
| | 16.0-23.0 | 9.0 | 43 | 43 | 48.5 | 45.5 | AIO-BMCSBD-E5 |
| | 16.0-23.0 | 15.0 | 43 | 43 | 48.5 | 45.5 | AIO-BMCSBE-E5R |
| | 19.0-28.0 | 9.0 | 43 | 43 | 48.5 | 45.5 | AIO-BMCSBC-E5 |
| | 19.0-28.0 | 15.0 | 43 | 43 | 48.5 | 45.5 | AIO-BMCSBE-E5 |
| | 22.0-32.0 | 9.0 | 50 | 50 | 55.5 | 54.5 | AIO-BMCSBC-05S |
| | 22.0-32.0 | 15.0 | 50 | 50 | 55.5 | 54.5 | AIO-BMCSBE-05S |
| M50x1.5 | 20.0-26.0 | 9.0 | 50 | 55 | 61.0 | 50.0 | AIO-BMCSBD-06 |
| | 20.0-26.0 | 15.0 | 50 | 55 | 61.0 | 50.0 | AIO-BMCSBE-06R |
| | 22.0-32.0 | 9.0 | 50 | 55 | 61.0 | 50.0 | AIO-BMCSBC-06 |
| | 22.0-32.0 | 15.0 | 50 | 55 | 61.0 | 50.0 | AIO-BMCSBE-06 |
| | 27.0-38.0 | 9.0 | 58 | 58 | 64.0 | 54.0 | AIO-BMCSBC-E6 |
| | 27.0-38.0 | 15.0 | 58 | 58 | 64.0 | 54.0 | AIO-BMCSBE-E6 |
| | 34.0-44.0 | 9.0 | 64 | 64 | 70.0 | 55.0 | AIO-BMCSBC-06S |
| | 34.0-44.0 | 15.0 | 64 | 64 | 70.0 | 55.0 | AIO-BMCSBE-06S |
| M63x1.5 | 29.0-35.0 | 10.0 | 64 | 68 | 75.0 | 56.0 | AIO-BMCSBD-E7 |
| | 29.0-35.0 | 14.0 | 64 | 68 | 75.0 | 55.0 | AIO-BMCSBD-07 |
| | 29.0-35.0 | 18.0 | 64 | 68 | 75.0 | 55.0 | AIO-BMCSBE-07R |
| | 34.0-44.0 | 10.0 | 64 | 68 | 75.0 | 55.0 | AIO-BMCSBC-E7 |
| | 34.0-44.0 | 15.0 | 64 | 68 | 75.0 | 56.0 | AIO-BMCSBE-E7 |
| | 34.0-44.0 | 14.0 | 64 | 68 | 75.0 | 55.0 | AIO-BMCSBC-07 |
| | 34.0-44.0 | 18.0 | 64 | 68 | 75.0 | 55.0 | AIO-BMCSBE-07 |
| | 37.0-53.0 | 10.0 | 75 | 75 | 83.0 | 53.0 | AIO-BMCSBC-07S |
| | 37.0-53.0 | 18.0 | 75 | 75 | 83.0 | 53.0 | AIO-BMCSBE-07S |

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# CABLE PROTECTION GLANDS, POLYAMIDE



## Cable Protection Glands with Lamellar Clamping

- For cable bending protection.
- Easy assembly.
- High quality strain relief and sealing, reliable performance for standard industrial applications.
- Up-to-date international approvals.

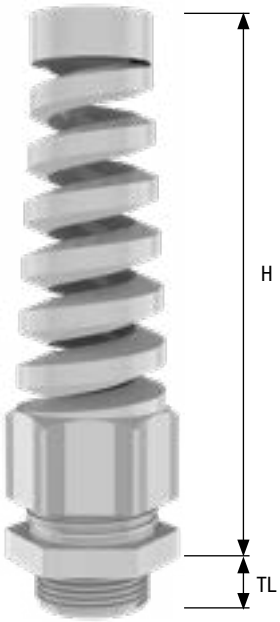
| Technical Details | | |
|---|---|---|
| Material | Body, Cap | PA 6 (Polyamide 6) |
| | Seal | CR (Chloroprene) |
| Ingress Protection Rating | IP 68-5 Bar, 30 min | |
| Flammability | V2 according to UL94 | |
| Operating Temperature | **Permanent** | **Intermittent** |
| | -20° C to +100° C | -40° C to +150° C |
| Thread Type | • Metric EN 60423<br>• PG DIN 40430<br>• NPT ANSI B1.20.1<br>• Gas ISO 228<br>• Other thread types also available upon request. | |
| Cable Type | Non-armored | |
| Accessories | • Lock nuts<br>• Reducing seals<br>• Flat cable seals<br>• Multihole seals<br>• Gaskets (Washers) | |
| Remarks | • Different Seal types available. Manufactured according to DIN EN 62444/50262.<br>• All accessories must be ordered separately.<br>• We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.<br>• Some approvals do not cover all sizes. Other colors on request:<br>• RAL 5015 (blue)<br>• RAL 9003 (white)<br>• RAL 3020 (red) | |
| Approvals | Certificate Number | Standards |
| UL | E542803 | UL514B<br>CSA22.2 No 18.3-12<br>CSA22.2 No 94.2-15 |
| TYPE 4X | | UL50E |



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# CABLE PROTECTION GLANDS, POLYAMIDE




| Thread Type Metric Acc. to EN 60423 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Outer Thread Size (Male) | Clamping Range Ø | Outer Thread Length | Spanner Width | | Outer Ø | Max. Height | Part Number | | |
| | min-max (mm) | TL (mm) | Cap (mm) | Body (mm) | D (mm) | H (mm) | RAL 7035 Light Gray | RAL 7001 Gray | RAL 9005 Black |
| M12x1.5 | 2.0-5.0 | 8.0 | 15 | 15 | 16.6 | 58.0 | AIO-BICSSP-1S | AIO-BICSSP-0S | AIO-BICSSP-2S |
| | 2.0-5.0 | 10.0 | 15 | 15 | 16.6 | 58.0 | AIO-BICSSP-1SM | AIO-BICSSP-0SM | AIO-BICSSP-2SM |
| | 2.0-5.0 | 15.0 | 15 | 15 | 16.6 | 58.0 | AIO-BICSSP-1SL | AIO-BICSSP-0SL | AIO-BICSSP-2SL |
| | 3.0-6.5 | 8.0 | 15 | 15 | 16.6 | 58.0 | AIO-BMCSSP-1S | AIO-BMCSSP-0S | AIO-BMCSSP-2S |
| | 3.0-6.5 | 10.0 | 15 | 15 | 16.6 | 58.0 | AIO-BMCSSP-1SM | AIO-BMCSSP-0SM | AIO-BMCSSP-2SM |
| | 3.0-6.5 | 15.0 | 15 | 15 | 16.6 | 58.0 | AIO-BMCSSP-1SL | AIO-BMCSSP-0SL | AIO-BMCSSP-2SL |
| M16x1.5 | 3.0-7.0 | 10.0 | 22 | 22 | 25.1 | 83.2 | AIO-BICSSP-11 | AIO-BICSSP-01 | AIO-BICSSP-21 |
| | 3.0-7.0 | 15.0 | 22 | 22 | 25.1 | 83.2 | AIO-BICSSP-11L | AIO-BICSSP-01L | AIO-BICSSP-21L |
| | 5.0-10.0 | 10.0 | 22 | 22 | 25.1 | 83.2 | AIO-BMCSSP-11 | AIO-BMCSSP-01 | AIO-BMCSSP-21 |
| | 5.0-10.0 | 15.0 | 22 | 22 | 25.1 | 83.2 | AIO-BMCSSP-11L | AIO-BMCSSP-01L | AIO-BMCSSP-21L |
| M20x1.5 | 5.0-9.0 | 10.0 | 24 | 24 | 27.6 | 96.5 | AIO-BICSSP-12 | AIO-BICSSP-02 | AIO-BICSSP-22 |
| | 5.0-9.0 | 15.0 | 24 | 24 | 27.6 | 96.5 | AIO-BICSSP-12L | AIO-BICSSP-02L | AIO-BICSSP-22L |
| | 6.0-12.0 | 10.0 | 24 | 24 | 27.6 | 96.5 | AIO-BMCSSP-12 | AIO-BMCSSP-02 | AIO-BMCSSP-22 |
| | 6.0-12.0 | 15.0 | 24 | 24 | 27.6 | 96.5 | AIO-BMCSSP-12L | AIO-BMCSSP-02L | AIO-BMCSSP-22L |
| | 7.0-12.0 | 10.0 | 27 | 27 | 30.5 | 106.4 | AIO-BICSSP-13 | AIO-BICSSP-03 | AIO-BICSSP-23 |
| | 7.0-12.0 | 15.0 | 27 | 27 | 30.5 | 106.4 | AIO-BICSSP-14 | AIO-BICSSP-04 | AIO-BICSSP-24 |
| | 10.0-14.0 | 10.0 | 27 | 27 | 30.5 | 106.4 | AIO-BMCSSP-13 | AIO-BMCSSP-03 | AIO-BMCSSP-23 |
| | 10.0-14.0 | 15.0 | 27 | 27 | 30.5 | 106.4 | AIO-BMCSSP-14 | AIO-BMCSSP-04 | AIO-BMCSSP-24 |
| M25x1.5 | 9.0-16.0 | 10.0 | 33 | 33 | 37.8 | 118.9 | AIO-BICSSP-15 | AIO-BICSSP-05 | AIO-BICSSP-25 |
| | 9.0-16.0 | 15.0 | 33 | 33 | 37.8 | 118.9 | AIO-BICSSP-16 | AIO-BICSSP-06 | AIO-BICSSP-26 |
| | 13.0-18.0 | 10.0 | 33 | 33 | 37.8 | 118.9 | AIO-BMCSSP-15 | AIO-BMCSSP-05 | AIO-BMCSSP-25 |
| | 13.0-18.0 | 15.0 | 33 | 33 | 37.8 | 118.9 | AIO-BMCSSP-16 | AIO-BMCSSP-06 | AIO-BMCSSP-26 |

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# CABLE PROTECTION GLANDS, POLYAMIDE

## Cable Protection Glands with Lamellar Clamping

- For cable bending protection.
- Easy assembly.
- High quality strain relief and sealing, reliable performance for standard industrial applications.
- Up-to-date international approvals.

| Technical Details | | |
|---|---|---|
| Material | Body, Cap | PA 6 (Polyamide 6) |
| | Seal | CR (Chloroprene) |
| Ingress Protection Rating | IP 68-5 Bar, 30 min<br>IP 66 | |
| Flammability | V2 according to UL94 | |
| Operating Temperature | **Permanent** | **Intermittent** |
| | -20 °C to +100 °C | -30 °C to +150 °C |
| Thread Type | • Metric EN 60423<br>• PG DIN 40430<br>• NPT ANSI B1.20.1<br>• Gas ISO 228<br>• Other thread types also available upon request. | |
| Cable Type | Non-armored | |
| Accessories | • Lock nuts<br>• Reducing seals<br>• Flat cable seals<br>• Multihole seals<br>• Gaskets (Washers) | |
| Remarks | • Different Seal types available.<br>• Manufactured according to DIN EN 62444/50262.<br>• Accessories must be ordered separately.<br>• We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.<br>• Some approvals do not cover all sizes. Other colors on request:<br>• RAL 5015 (blue)<br>• RAL 9003 (white)<br>• RAL 3020 (red) | |
| Approvals | Certificate Number | Standards |
| UL | E542803 | UL514B<br>CSA22.2 No 18.3-12<br>CSA22.2 No 94.2-15 |
| TYPE 4X | | UL50E |

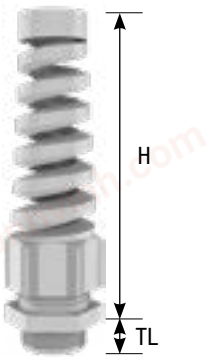




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# CABLE PROTECTION GLANDS, POLYAMIDE




| Thread Type NPT Acc. to ANSI B1.20.1 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Outer Thread Size (Male) | Clamping Range Ø | Outer Thread Length | Spanner Width | | Outer Ø | Max. Height | Part Number | | |
| | min-max (mm) | TL (mm) | Cap (mm) | Body (mm) | D (mm) | H (mm) | RAL 7035 Light Gray | RAL 7001 Gray | RAL 9005 Black |
| NPT 3/8" | 3.0-7.0 | 15.0 | 22 | 22 | 25.1 | 83.2 | AIO-BNCSSPA-11R | AIO-BNCSSPA-01R | AIO-BNCSSPA-21R |
| | 5.0-10.0 | 15.0 | 22 | 22 | 25.1 | 83.2 | AIO-BNCSSPA-11 | AIO-BNCSSPA-01 | AIO-BNCSSPA-21 |
| NPT 1/2" | 5.0-9.0 | 15.0 | 24 | 24 | 27.6 | 96.5 | AIO-BNCSSPB-12R | AIO-BNCSSPB-02R | AIO-BNCSSPB-22R |
| | 6.0-12.0 | 15.0 | 24 | 24 | 27.6 | 96.5 | AIO-BNCSSPB-12 | AIO-BNCSSPB-02 | AIO-BNCSSPB-22 |
| | 7.0-12.0 | 15.0 | 27 | 27 | 30.5 | 106.4 | AIO-BNCSSPC-12R | AIO-BNCSSPC-02R | AIO-BNCSSPC-22R |
| | 10.0-14.0 | 15.0 | 27 | 27 | 30.5 | 106.4 | AIO-BNCSSPC-12 | AIO-BNCSSPC-02 | AIO-BNCSSPC-22 |
| NPT 3/4" | 9.0-16.0 | 15.0 | 33 | 33 | 37.8 | 118.9 | AIO-BNCSSPD-13R | AIO-BNCSSPD-03R | AIO-BNCSSPD-23R |
| | 13.0-18.0 | 15.0 | 33 | 33 | 37.8 | 118.9 | AIO-BNCSSPD-13 | AIO-BNCSSPD-03 | AIO-BNCSSPD-23 |

| Thread Type PG Acc. to DIN 40430 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Outer Thread Size (Male) | Clamping Range Ø | Outer Thread Length | Spanner Width | | Outer Ø | Max. Height | Part Number | | |
| | min-max (mm) | TL (mm) | Cap (mm) | Body (mm) | D (mm) | H (mm) | RAL 7035 Light Gray | RAL 7001 Gray | RAL 9005 Black |
| PG 7 | 2.0-5.0 | 8.0 | 15 | 15 | 16.6 | 58.0 | AIO-BSCSRP-11 | AIO-BSCSRP-01 | AIO-BSCSRP-21 |
| | 3.0 -6.5 | 8.0 | 15 | 15 | 16.6 | 58.0 | AIO-BSCSSP-11 | AIO-BSCSSP-01 | AIO-BSCSSP-21 |
| PG 9 | 2.0 -6.0 | 8.0 | 19 | 19 | 21.5 | 68.4 | AIO-BSCSRP-12 | AIO-BSCSRP-02 | AIO-BSCSRP-22 |
| | 4.0 -8.0 | 8.0 | 19 | 19 | 21.5 | 68.4 | AIO-BSCSSP-12 | AIO-BSCSSP-02 | AIO-BSCSSP-22 |
| PG 11 | 3.0-7.0 | 8.0 | 22 | 22 | 25.1 | 83.2 | AIO-BSCSRP-13 | AIO-BSCSRP-03 | AIO-BSCSRP-23 |
| | 5.0-10.0 | 8.0 | 22 | 22 | 25.1 | 83.2 | AIO-BSCSSP-13 | AIO-BSCSSP-03 | AIO-BSCSSP-23 |
| PG 13.5 | 5.0-9.0 | 10.0 | 24 | 24 | 27.6 | 96.5 | AIO-BSCSRP-14 | AIO-BSCSRP-04 | AIO-BSCSRP-24 |
| | 6.0-12.0 | 10.0 | 24 | 24 | 27.6 | 96.5 | AIO-BSCSSP-14 | AIO-BSCSSP-04 | AIO-BSCSSP-24 |
| PG 16 | 7.0-12.0 | 10.0 | 27 | 27 | 30.5 | 106.4 | AIO-BSCSRP-15 | AIO-BSCSRP-05 | AIO-BSCSRP-25 |
| | 10.0-14.0 | 10.0 | 27 | 27 | 30.5 | 106.4 | AIO-BSCSSP-15 | AIO-BSCSSP-05 | AIO-BSCSSP-25 |
| PG 21 | 9.0-16.0 | 11.0 | 33 | 33 | 37.8 | 118.9 | AIO-BSCSRP-16 | AIO-BSCSRP-06 | AIO-BSCSRP-26 |
| | 13.0-18.0 | 11.0 | 33 | 33 | 37.8 | 118.9 | AIO-BSCSSP-16 | AIO-BSCSSP-06 | AIO-BSCSSP-26 |

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# CABLE PROTECTION GLANDS, BRASS

## Cable Protection Glands with Lamellar Clamping, Brass

- For cable bending protection.
- Easy assembly.
- High quality strain relief and sealing, reliable performance for standard industrial applications.



| Technical Details | | |
|---|---|---|
| Material | Body, Cap | Brass, Nickel plated |
| | Seal | CR (Chloroprene) |
| | Clamping Insert | PA 6 (Polyamide 6) |
| | Bending Spiral | Stainless steel (AISI 301) |
| | O-ring | NBR |
| Ingress Protection Rating | IP 68-5 Bar, 30 min | |
| Flammability | V2 according to UL94 | |
| Operating Temperature | **Permanent** | **Intermittent** |
| | -20 °C to +100 °C | -30 °C to +150 °C |
| Thread Type | • Metric EN 60423<br>• PG DIN 40430<br>• Other thread types also available upon request. | |
| Cable Type | Non-armored | |
| Accessories | • Lock nuts<br>• Reducing seals<br>• Flat cable seals | • Multihole seals<br>• Gaskets (Washers) |
| Remarks | • Different Seal types available.<br>• Manufactured according to DIN EN 62444/50262.<br>• Accessories must be ordered separately.<br>• We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.<br>• O-ring available in Metric and PG threads.<br>• Accessories must be ordered separately. | |

## Thread Type Metric Acc. to EN 60423

| Outer Thread Size (Male) | Clamping Range Ø | Outer Thread Length | Spanner Width | | Outer Ø | Max Height | Part Number |
|---|---|---|---|---|---|---|---|
| | min-max (mm) | TL (mm) | Cap (mm) | Body (mm) | D (mm) | H (mm) | |
| M12x1.5 | 3.0-6.5 | 6.0 | 14 | 14 | 15.5 | 60.0 | AIO-BMCSBCSP-0S |
| M16x1.5 | 3.0-7.0 | 6.5 | 20 | 20 | 22.0 | 77.0 | AIO-BMCSBDSP-01 |
| | 5.0-10.0 | 6.5 | 20 | 20 | 22.0 | 77.0 | AIO-BMCSBCSP-01 |
| M20x1.5 | 5.0-9.0 | 8.0 | 22 | 22 | 24.5 | 87.0 | AIO-BMCSBDSP-02 |
| | 6.0-12.0 | 8.0 | 22 | 22 | 24.5 | 87.0 | AIO-BMCSBCSP-02 |
| | 10.0-14.0 | 8.0 | 24 | 24 | 26.5 | 91.5 | AIO-BMCSBCSP-02S |
| M25x1.5 | 7.0-12.0 | 8.0 | 24 | 27 | 30.0 | 91.5 | AIO-BMCSBDSP-03 |
| | 10.0-14.0 | 8.0 | 24 | 27 | 30.0 | 91.5 | AIO-BMCSBCSP-03 |
| M32x1.5 | 9.0-16.0 | 9.0 | 30 | 34 | 37.5 | 96.0 | AIO-BMCSBDSP-04 |
| | 13.0-18.0 | 9.0 | 30 | 34 | 37.5 | 96.0 | AIO-BMCSBCSP-04 |

## Thread Type PG Acc. to DIN 40430

| Outer Thread Size (Male) | Clamping Range Ø | Outer Thread Length | Spanner Width | | Outer Ø | Max Height | Part Number |
|---|---|---|---|---|---|---|---|
| | min-max (mm) | TL (mm) | Cap (mm) | Body (mm) | D (mm) | H (mm) | |
| PG 11 | 3.0-7.0 | 6.0 | 20 | 20 | 22.0 | 73.5 | AIO-BSCSBDSP-03 |
| | 5.0-10.0 | 6.0 | 20 | 20 | 22.0 | 73.5 | AIO-BSCSBCSP-03 |
| PG 13.5 | 5.0-9.0 | 6.5 | 22 | 22 | 24.5 | 86.0 | AIO-BSCSBDSP-04 |
| | 6.0-12.0 | 6.5 | 22 | 22 | 24.5 | 86.0 | AIO-BSCSBCSP-04 |
| PG 16 | 7.0-12.0 | 6.5 | 24 | 24 | 26.5 | 91.5 | AIO-BSCSBDSP-05 |
| | 10.0-14.0 | 6.5 | 24 | 24 | 26.5 | 91.5 | AIO-BSCSBCSP-05 |
| PG 21 | 9.0-16.0 | 7.2 | 30 | 30 | 33.0 | 96.5 | AIO-BSCSBDSP-06 |
| | 13.0-18.0 | 7.2 | 30 | 30 | 33.0 | 96.5 | AIO-BSCSBCSP-06 |

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# SNAP-IN GLANDS WITHOUT THREAD, POLYAMIDE

## Polyamide Cable Glands, without Thread

- Easy assembly: push cable gland and turn body clockwise.
- For wall thickness 0.5 mm to 4.0 mm.
- High quality strain relief and sealing, reliable performance for standard industrial applications.
- Easy disassembly (with separate tool).



| Technical Details | | |
|---|---|---|
| Material | Body, Cap | PA 6 (Polyamide 6) |
| | Gasket | CR (Chloroprene) |
| | Seal | CR (Chloroprene) |
| Ingress Protection Rating | IP 68-5 Bar, 30 min<br>IP 66 | |
| Flammability | V2 according to UL94 | |
| Operating Temperature | **Permanent** | **Intermittent** |
| | -20 °C to +100 °C | -30 °C to +150 °C |
| Cable Type | Non-armored | |
| Accessories | • Dome plugs<br>• Reducing seals<br>• Flat cable seals<br>• Multihole seals<br>• Disassembly tools (one piece included per Minimum Order Quantity) | |
| Remarks | • Different Seal types available.<br>• Manufactured according to DIN EN 62444/50262.<br>• Accessories must be ordered separately.<br>• Some approvals do not cover all sizes.<br>• Other colors on request:<br>• RAL 5015 (blue)<br>• RAL 9003 (white)<br>• RAL 3020 (red) | |
| Approvals | Certificate Number | Standards |
| UL | E542803 | UL514B<br>CSA22.2 No 18.3-12<br>CSA22.2 No 94.2-15 |
| TYPE 4X | | UL50E |

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# SNAP-IN GLANDS WITHOUT THREAD, POLYAMIDE




| Wall Thickness (E) : 0.5-4.0 mm | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Snap Size | Clamp Range | | Snap | | Wall Hole Ø | Spanner Width | | Outer Ø | Max. Height | Part Number | | |
| | | | Length | Ø | | | | | | | | |
| | Ø min-max (mm) | Seal Type | SL (mm) | SD (mm) | HD (mm) | Cap (mm) | Body (mm) | D (mm) | H (mm) | RAL 7035 Light Gray | RAL 7001 Gray | RAL 9005 Black |
| 16 | 3.0-10.0 | Double | 9.0 | 15.9 | 16.2-16.4 | 22 | 22 | 26.5 | 44.5 | AIO-BMCSOS-DS-11 | AIO-BMCSOS-DS-01 | AIO-BMCSOS-DS-21 |
| | 5.0-10.0 | Single | 9.0 | 15.9 | 16.2-16.4 | 22 | 22 | 26.5 | 44.5 | AIO-BMCSOS-11 | AIO-BMCSOS-01 | AIO-BMCSOS-21 |
| 20 | 5.0-12.0 | Double | 9.0 | 19.9 | 20.2-20.4 | 24 | 24 | 30.3 | 43.5 | AIO-BMCSOS-DS-12 | AIO-BMCSOS-DS-02 | AIO-BMCSOS-DS-22 |
| | 3.0-13.0 | Double | 9.0 | 19.9 | 20.2-20.4 | 25 | 25 | 30.3 | 43.5 | AIO-BMCSOS-EU-DS-12 | AIO-BMCSOS-EU-DS-02 | AIO-BMCSOS-EU-DS-22 |
| | 6.0-12.0 | Single | 9.0 | 19.9 | 20.2-20.4 | 24 | 24 | 30.3 | 43.5 | AIO-BMCSOS-12 | AIO-BMCSOS-02 | AIO-BMCSOS-22 |
| | 7.0-13.0 | Single | 9.0 | 19.9 | 20.2-20.4 | 25 | 25 | 30.3 | 43.5 | AIO-BMCSOS-EU-12 | AIO-BMCSOS-EU-02 | AIO-BMCSOS-EU-22 |
| 25 | 8.0-17.0 | Double | 9.0 | 24.9 | 25.2-25.4 | 29 | 29 | 36.3 | 45.5 | AIO-BMCSOS-EU-DS-13 | AIO-BMCSOS-EU-DS-03 | AIO-BMCSOS-EU-DS-23 |
| | 11.0-17.0 | Single | 9.0 | 24.9 | 25.2-25.4 | 29 | 29 | 36.3 | 45.5 | AIO-BMCSOS-EU-13 | AIO-BMCSOS-EU-03 | AIO-BMCSOS-EU-23 |
| 32 | 11.0-21.0 | Double | 9.0 | 31.9 | 32.2-32.4 | 36 | 36 | 43.2 | 51.5 | AIO-BMCSOS-EU-DS-14 | AIO-BMCSOS-EU-DS-04 | AIO-BMCSOS-EU-DS-24 |
| | 15.0-21.0 | Single | 9.0 | 31.9 | 32.2-32.4 | 36 | 36 | 43.2 | 51.5 | AIO-BMCSOS-EU-14 | AIO-BMCSOS-EU-04 | AIO-BMCSOS-EU-24 |
| 40 | 16.0-28.0 | Double | 13.2 | 39.9 | 40.2-40.4 | 46 | 46 | 55.2 | 58.0 | AIO-BMCSOS-EU-DS-15 | AIO-BMCSOS-EU-DS-05 | AIO-BMCSOS-EU-DS-25 |
| | 19.0-28.0 | Single | 13.2 | 39.9 | 40.2-40.4 | 46 | 46 | 55.2 | 58.0 | AIO-BMCSOS-EU-15 | AIO-BMCSOS-EU-05 | AIO-BMCSOS-EU-25 |

## Tool to Disassemble Snap-In Glands

| Technical Details | |
|---|---|
| Material | Plastic |

| For Gland Size | Inner Ø | Height | Part Number |
|---|---|---|---|
| | ID (mm) | h (mm) | |
| 16 | 16.0 | 13.0 | AIO-BECSX-16 |
| 20 | 20.0 | 13.0 | AIO-BECSX-20 |
| 25 | 25.0 | 13.0 | AIO-BECSX-25 |
| 32 | 32.0 | 13.0 | AIO-BECSX-32 |
| 40 | 40.0 | 15.5 | AIO-BECSX-40 |

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# SNAP-IN CABLE GLANDS WITHOUT THREAD, BRASS

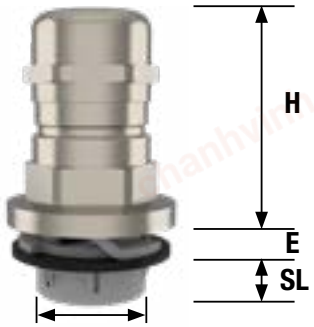
## Brass Cable Glands without Thread

- Easy assembly: push cable gland and turn body clockwise.
- For wall thickness 0.5 mm to 4.0 mm.
- High quality strain relief and sealing, reliable performance for standard industrial applications.
- Easy disassembly (with separate tool).

| Technical Details | | |
|---|---|---|
| Material | Body, Cap | Brass Nickel plated |
| | Seal | CR (Chloroprene) |
| | Gasket | CR (Chloroprene) |
| | Clamping Insert | PA 6 (Polyamide 6) |
| | Lower Body | PA 6 (Polyamide 6) |
| Ingress Protection Rating | IP 68-5 Bar, 30 min<br>IP 66 | |
| Flammability | V2 according to UL94 | |
| Operating Temperature | **Permanent** | **Intermittent** |
| | -20 °C to +100 °C | -40 °C to +150 °C |
| Cable Type | Shielded | |
| Accessories | • Dome plugs<br>• Reducing seals<br>• Flat cable seals<br>• Multihole seals<br>• Disassembly tools (one piece included per Minimum Order Quantity) | |
| Remarks | • Different Seal types available.<br>• Manufactured according to DIN EN 62444/50262.<br>• Accessories must be ordered separately. | |



# SNAP-IN CABLE GLANDS WITHOUT THREAD, BRASS




| Snap Size | Clamping Range Ø min-max (mm) | Seal Type | Snap Length SL mm) | Snap Ø SD (mm) | Enclosure Hole Ø HD (mm) | Spanner Width Cap (mm) | Spanner Width Body (mm) | Outer Ø D (mm) | Max Height H (mm) | Part Number |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 3.0-7.0 | Single | 9.0 | 16 | 16.2-16.4 | 20 | 20 | 28.3 | 47.0 | AIO-BBCSOS-11R |
| | 5.0-10.0 | Single | 9.0 | 16 | 16.2-16.4 | 20 | 20 | 28.3 | 47.0 | AIO-BBCSOS-11 |
| | 3.0-10.0 | Double | 9.0 | 16 | 16.2-16.4 | 20 | 20 | 28.3 | 47.0 | AIO-BBCSOS-DS-11 |
| 20 | 5.0-9.0 | Single | 9.0 | 20 | 20.2-20.4 | 22 | 22 | 32.3 | 46.0 | AIO-BBCSOS-12R |
| | 6.0-12.0 | Single | 9.0 | 20 | 20.2-20.4 | 22 | 22 | 32.3 | 46.0 | AIO-BBCSOS-12 |
| | 5.0-12.0 | Double | 9.0 | 20 | 20.2-20.4 | 22 | 22 | 32.3 | 46.0 | AIO-BBCSOS-DS-12 |
| 25 | 9.0-13.0 | Single | 9.0 | 25 | 25.2-25.4 | 27 | 27 | 38.5 | 48.0 | AIO-BBCSOS-EU-13R |
| | 11.0-17.0 | Single | 9.0 | 25 | 25.2-25.4 | 27 | 27 | 38.5 | 48.0 | AIO-BBCSOS-EU-13 |
| | 8.0-17.0 | Double | 9.0 | 25 | 25.2-25.4 | 27 | 27 | 38.5 | 48.0 | AIO-BBCSOS-EU-DS-13 |
| 32 | 11.0-15.0 | Single | 9.0 | 32 | 32.2-32.4 | 34 | 34 | 45.5 | 56.5 | AIO-BBCSOS-EU-14R |
| | 15.0-21.0 | Single | 9.0 | 32 | 32.2-32.4 | 34 | 34 | 45.5 | 56.5 | AIO-BBCSOS-EU-14 |
| | 11.0-21.0 | Double | 9.0 | 32 | 32.2-32.4 | 34 | 34 | 45.5 | 56.5 | AIO-BBCSOS-EU-DS-14 |
| 40 | 16.0-23.0 | Single | 13.2 | 40 | 40.2-40.4 | 43 | 43 | 59.0 | 64.0 | AIO-BBCSOS-EU-15R |
| | 19.0-28.0 | Single | 13.2 | 40 | 40.2-40.4 | 43 | 43 | 59.0 | 64.0 | AIO-BBCSOS-EU-15 |
| | 16.0-28.0 | Double | 13.2 | 40 | 40.2-40.4 | 43 | 43 | 59.0 | 64.0 | AIO-BBCSOS-EU-DS-15 |

# SNAP-IN GLAND DISASSEMBLING TOOL

| Tool to Disassemble Snap-In Glands | |
|---|---|
| Technical Details | |
| Material | PA 6 (Polyamide 6) |

| For Gland Size | Inner Ø ID (mm) | Height h (mm) | Part Number |
|---|---|---|---|
| 16 | 16.0 | 13.0 | AIO-BECSX-16 |
| 20 | 20.0 | 13.0 | AIO-BECSX-20 |
| 25 | 25.0 | 13.0 | AIO-BECSX-25 |
| 32 | 32.0 | 13.0 | AIO-BECSX-32 |
| 40 | 40.0 | 15.5 | AIO-BECSX-40 |

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# EMC 2 CABLE GLANDS, BRASS

## EMC Cable Glands with Fixed Spring Contact

- Specially designed EMC protective cable glands.
- Long-lasting contact by high definition contact spring.
- Easy assembly: install cable gland-prepare cable sheath-insert cable-tighten cap.
- High quality strain relief and sealing reliable performance for EMC applications.





| Technical Details | | | |
|---|---|---|---|
| Material | | Body, Cap | Brass Nickel plated |
| | | Seal | CR (Chloroprene) |
| | | Clamping Insert | PA 6 (Polyamide 6) |
| | | Contact Spring | Special Copper Alloy |
| | | O-Ring | NBR |
| Ingress Protection Rating | | IP 68-5 Bar, 30 min | |
| Flammability | | V2 according to UL94 | |
| Operating Temperature | | Permanent | Intermittent |
| | | -20 °C to +100 °C | -40 °C to +150 °C |
| Thread Type | | • Metric EN 60423<br>• PG DIN 40430<br>• NPT ANSI B1.20.1<br>• Other thread types also available upon request. | |
| Cable Type | | Shielded | |
| Accessories | | • EMC Lock nuts<br>• Dome plugs<br>• Gaskets (Washers) | |
| Remarks | | • Manufactured according to DIN EN 62444/50262.<br>• We recommend the use of threaded holes and/or the use of special EMC lock nuts to ensure high quality EMC contact quality.<br>• Some approvals do not cover all sizes.<br>• O-ring available in Metric and PG threads as a standard. For NPT threads, O-ring available upon request.<br>• Accessories must be ordered separately.<br>• Other lock nut types also available upon request. | |
| Approvals | Certification Number | Standards | |
| UL | E542803 | UL514B<br>CSA22.2 No 18.3-12<br>CSA22.2 No 94.2-15 | |
| TYPE 4X | | UL50E | |
| For more approvals: see our web page | | | |

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# EMC 2 CABLE GLANDS, BRASS

| Thread Type Metric Acc. to EN 60423 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Outer Thread Size (Male) | Clamping Range Ø | Shield Diameter Ø | Outer Thread Length | Spanner Width | | Outer Ø | Max Height | Part Number |
| | min-max (mm) | min-max (mm) | TL (mm) | Cap (mm) | Body (mm) | D (mm) | H (mm) | |
| M12x1.5 | 3.0-6.5 | 2.5-4.5 | 6.0 | 14 | 14 | 15.5 | 24.0 | AIO-BMCSEM-0S |
| | 3.0-6.5 | 2.5-4.5 | 12.0 | 14 | 14 | 15.5 | 24.0 | AIO-BMCSEN-0S |
| M16x1.5 | 4.0-8.0 | 3.5-6.0 | 7.0 | 17 | 18 | 20.0 | 25.5 | AIO-BMCSEM-01 |
| | 4.0-8.0 | 3.5-6.0 | 12.0 | 17 | 18 | 20.0 | 25.5 | AIO-BMCSEN-01 |
| | 5.0-10.0 | 4.0-8.0 | 6.5 | 20 | 20 | 22.0 | 31.5 | AIO-BMCSEM-01S |
| M20x1.5 | 6.0-12.0 | 5.0-10.0 | 8.0 | 22 | 22 | 24.5 | 26.5 | AIO-BMCSEM-02 |
| | 6.0-12.0 | 5.0-10.0 | 12.0 | 22 | 22 | 24.5 | 26.5 | AIO-BMCSEN-02 |
| M25x1.5 | 10.0-14.0 | 8.5-11.5 | 8.0 | 24 | 27 | 30.0 | 30.0 | AIO-BMCSEM-03 |
| | 10.0-14.0 | 8.5-11.5 | 12.0 | 24 | 27 | 30.0 | 30.0 | AIO-BMCSEN-03 |
| | 13.0-18.0 | 11.0-14.0 | 8.0 | 30 | 30 | 33.0 | 40.0 | AIO-BMCSEM-03S |
| M32x1.5 | 13.0-18.0 | 11.0-14.0 | 9.0 | 30 | 34 | 37.5 | 35.0 | AIO-BMCSEM-04 |
| | 13.0-18.0 | 11.0-14.0 | 15.0 | 30 | 34 | 37.5 | 35.0 | AIO-BMCSEN-04 |
| | 18.0-25.0 | 16.0-20.0 | 9.0 | 40 | 40 | 44.5 | 46.0 | AIO-BMCSEM-04S |
| M40x1.5 | 18.0-25.0 | 16.0-20.0 | 9.0 | 40 | 43 | 48.5 | 40.5 | AIO-BMCSEM-05 |
| | 18.0-25.0 | 16.0-20.0 | 15.0 | 40 | 43 | 48.5 | 40.5 | AIO-BMCSEN-05 |
| | 22.0-32.0 | 20.0-27.0 | 9.0 | 50 | 50 | 55.5 | 54.5 | AIO-BMCSEM-05S |
| M50x1.5 | 22.0-32.0 | 20.0-27.0 | 9.0 | 50 | 55 | 61.0 | 50.0 | AIO-BMCSEM-06 |
| | 22.0-32.0 | 20.0-27.0 | 15.0 | 50 | 55 | 61.0 | 50.0 | AIO-BMCSEN-06 |
| M63x1.5 | 34.0-44.0 | 31.0-40.0 | 14.0 | 64 | 68 | 75.0 | 55.0 | AIO-BMCSEM-07 |
| | 34.0-44.0 | 31.0-40.0 | 18.0 | 64 | 68 | 75.0 | 55.0 | AIO-BMCSEN-07 |

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# EMC 2 CABLE GLANDS, BRASS




## Thread Type NPT Acc. to ANSI BI .20.1

| Outer Thread Size (Male) | Clamping Range Ø | Shield Diameter Ø | Outer Thread Length | Spanner Width | | Outer Ø | Max Height | Part Number |
|---|---|---|---|---|---|---|---|---|
| | min-max (mm) | min-max (mm) | TL (mm) | Cap (mm) | Body (mm) | D (mm) | H (mm) | |
| NPT 3/8" | 5.0-10.0 | 4.0-8.0 | 11.5 | 20 | 20 | 22.0 | 31.5 | AIO-BNCSEM-01 |
| NPT 1/2" | 6.0-12.0 | 5.0-10.0 | 13.0 | 22 | 22 | 24.5 | 27.5 | AIO-BNCSEM-02 |
| NPT 3/4" | 13.0-18.0 | 11.0-14.0 | 13.0 | 30 | 30 | 33.0 | 38.0 | AIO-BNCSEM-03 |
| NPT 1" | 18.0-25.0 | 16.0-20.0 | 13.0 | 40 | 43 | 48.5 | 45.5 | AIO-BNCSEM-04 |

## Thread Type PG Acc. to DIN 40430

| Outer Thread Size (Male) | Clamping Range Ø | Shield Diameter Ø | Outer Thread Length | Spanner Width | | Outer Ø | Max Height | Part Number |
|---|---|---|---|---|---|---|---|---|
| | min-max (mm) | min-max (mm) | TL (mm) | Cap (mm) | Body (mm) | D (mm) | H (mm) | |
| PG 7 | 3.0-6.5 | 2.5-4.5 | 6.0 | 14 | 14 | 15.5 | 24.0 | AIO-BSCSEM-01 |
| | 3.0-6.5 | 2.5-4.5 | 10.0 | 14 | 14 | 15.5 | 24.0 | AIO-BSCSEN-01 |
| PG 9 | 4.0-8.0 | 3.5-6.0 | 6.0 | 17 | 17 | 18.9 | 25.5 | AIO-BSCSEM-02 |
| | 4.0-8.0 | 3.5-6.0 | 10.0 | 17 | 17 | 18.9 | 25.5 | AIO-BSCSEN-02 |
| PG 11 | 5.0-10.0 | 4.0-8.0 | 6.0 | 20 | 20 | 22.0 | 28.0 | AIO-BSCSEM-03 |
| | 5.0-10.0 | 4.0-8.0 | 10.0 | 20 | 20 | 22.0 | 28.0 | AIO-BSCSEN-03 |
| PG 13.5 | 6.0-12.0 | 5.0-10.0 | 6.5 | 22 | 22 | 24.5 | 26.5 | AIO-BSCSEM-04 |
| | 6.0-12.0 | 5.0-10.0 | 10.0 | 22 | 22 | 24.5 | 26.5 | AIO-BSCSEN-04 |
| PG 16 | 10.0-14.0 | 8.5-11.5 | 6.5 | 24 | 24 | 26.5 | 30.0 | AIO-BSCSEM-05 |
| | 10.0-14.0 | 8.5-11.5 | 10.0 | 24 | 24 | 26.5 | 30.0 | AIO-BSCSEN-05 |
| PG 21 | 13.0-18.0 | 11.0-14.0 | 7.2 | 30 | 30 | 33.0 | 35.0 | AIO-BSCSEM-06 |
| | 13.0-18.0 | 11.0-14.0 | 12.0 | 30 | 30 | 33.0 | 35.0 | AIO-BSCSEN-06 |
| PG 29 | 18.0-25.0 | 16.0-20.0 | 8.0 | 40 | 40 | 44.5 | 40.5 | AIO-BSCSEM-07 |
| | 18.0-25.0 | 16.0-20.0 | 12.0 | 40 | 40 | 44.5 | 40.5 | AIO-BSCSEN-07 |
| PG 36 | 22.0-32.0 | 20.0-27.0 | 9.0 | 50 | 50 | 55.5 | 50.0 | AIO-BSCSEM-08 |
| | 22.0-32.0 | 20.0-27.0 | 14.0 | 50 | 50 | 55.5 | 50.0 | AIO-BSCSEN-08 |
| PG 42 | 30.0-38.0 | 28.0-34.0 | 12.0 | 58 | 58 | 64.0 | 51.0 | AIO-BSCSEM-09 |
| | 30.0-38.0 | 28.0-34.0 | 16.0 | 58 | 58 | 64.0 | 51.0 | AIO-BSCSEN-09 |
| PG 48 | 34.0-44.0 | 31.0-40.0 | 14.0 | 64 | 64 | 70.0 | 55.0 | AIO-BSCSEM-10 |
| | 34.0-44.0 | 31.0-40.0 | 18.0 | 64 | 64 | 70.0 | 55.0 | AIO-BSCSEN-10 |

## Order Coding

| Part Number | | Gasket (Washer) | EMC Lock Nut | Sealing Plug |
|---|---|---|---|---|
| Mandatory | - | Option | Option | Option |
| See table | - | WC CR (Chloroprene)<br>WS Silicone | EL Lock Nut | P Dome Plug<br>T Dust Plugs |
| **Example** | | | | |
| AIO-BMCSEM-03 | - | WC | EL | P |

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# EMC 3 CABLE GLANDS, BRASS

## EMC Cable Glands with Moving Spring Contact

- Specially designed EMC protective cable glands.
- Long-lasting contact by high definition contact spring.
- Moving spring contact offers reduced risk of sheath damage.
- Easy assembly: install cable gland-prepare cable sheath-insert cable-tighten cap.
- High quality strain relief and sealing, reliable performance for EMC applications.
- Up-to-date international approvals.





| Technical Details | | | |
|---|---|---|---|
| Material | | Body, Cap | Brass Nickel plated |
| | | Seal | CR (Chloroprene) |
| | | Clamping Insert | PA 6 (Polyamide 6) |
| | | Contact Spring | Special Copper Alloy |
| | | O-Ring | NBR |
| Ingress Protection Rating | | IP 68-5 Bar, 30 min | |
| Flammability | | V2 according to UL94 | |
| Operating Temperature | | Permanent | Intermittent |
| | | -20 °C to +100 °C | -40 °C to +150 °C |
| Thread Type | | • Metric EN 60423<br>• Other thread types also available upon request. | |
| Cable Type | | Shielded | |
| Accessories | | • EMC Lock nuts<br>• Dome plugs<br>• Gaskets (Washers) | |
| Remarks | | • Manufactured according to DIN EN 62444/50262.<br>• We recommend the use lock nuts and gaskets<br>• to ensure IP rating for rough surfaces or through holes.<br>• Some approvals do not cover all sizes.<br>• O-ring available in Metric and PG threads as a standard. For NPT threads, O-ring available upon request.<br>• Accessories must be ordered separately.<br>• Other lock nut types also available upon request. | |
| Approvals | Certification Number | Standards | |
| UL | E542803 | UL514B<br>CSA22.2 No 18.3-12<br>CSA22.2 No 94.2-15 | |
| TYPE 4X | | UL50E | |
| For more approvals: see our web page | | | |

## Order Coding

| Part Number | | Gasket (Washer) | EMC Lock Nut | Sealing Plug |
|---|---|---|---|---|
| Mandatory | - | Option | Option | Option |
| See table | - | WC CR (Chloroprene)<br>WS Silicone | EL Lock Nut | P Dome Plug<br>T Dust Plugs |
| **Example** | | | | |
| AIO-KBCSET2LM | - | WC | EL | P |

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# EMC 3 CABLE GLANDS, BRASS




| Thread Type Metric Acc. to EN 60423 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Clamping Range Ø | Shield Diameter Ø | Outer Thread Length | Spanner Width | | Outer Ø | Max Height | |
| Outer Thread Size (Male) | min-max (mm) | min-max (mm) | TL (mm) | Cap (mm) | Body (mm) | D (mm) | H (mm) | Part Number |
| M12x1.5 | 3.0-6.5 | 2.5-4.5 | 6.0 | 14 | 14 | 15.5 | 24.0 | AIO-BMCSEM-ES |
| M16x1.5 | 5.0-10.0 | 4.0-8.0 | 7.0 | 20 | 20 | 22.0 | 32.0 | AIO-BMCSEM-E1 |
| M20x1.5 | 6.0-12.0 | 5.0-10.0 | 8.0 | 22 | 22 | 24.5 | 29.5 | AIO-BMCSEM-E2 |
| M25x1.5 | 11.0-17.0 | 9.5-15.0 | 8.0 | 27 | 27 | 30.0 | 33.5 | AIO-BMCSEM-E3 |
| M32x1.5 | 15.0-21.0 | 13.5-19.0 | 8.0 | 34 | 34 | 37.5 | 38.0 | AIO-BMCSEM-E4 |
| M40x1.5 | 19.0-28.0 | 17.0-25.0 | 9.0 | 43 | 43 | 48.5 | 48.0 | AIO-BMCSEM-E5 |
| M50x1.5 | 27.0-38.0 | 25.0-32.0 | 9.0 | 58 | 58 | 64.0 | 56.0 | AIO-BMCSEM-E6 |
| M63x1.5 | 34.0-44.0 | 31.0-41.0 | 14.0 | 64 | 68 | 75.0 | 59.5 | AIO-BMCSEM-E7 |

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# EMC 4 CABLE GLANDS, BRASS





## Brass Cable Gland for EMC

- Vibration proof EMC performance.
- Long-lasting contact by high definition contact spring.
- Moving spring contact offers reduced risk of sheath damage.
- Easy assembly and disassembly of cable. Spring closes and opens according to fastening of the cap.
- Easy movement of cable as long as not fastened.
- High quality strain relief and sealing, reliable performance for EMC applications.
- Up-to-date international approvals.

| Technical Details | | | |
|---|---|---|---|
| Material | | Body, Cap | Brass Nickel plated |
| | | Seal | CR (Chloroprene) |
| | | Clamping Insert | PA 6 (Polyamide 6) |
| | | Contact Spring | Special Copper Alloy |
| | | O-Ring | NBR |
| Ingress Protection Rating | | IP 68-5 Bar, 30 min | |
| Flammability | | V2 according to UL94 | |
| Operating Temperature | | **Permanent** | **Intermittent** |
| | | -20 °C to +100 °C | -40 °C to +150 °C |
| Thread Type | | • Metric EN 60423<br>• PG DIN 40430<br>• NPT ANSI B1.20.1<br>• Other thread types also available upon request. | |
| Cable Type | | Shielded | |
| Accessories | | • EMC Lock nuts<br>• Dome plugs<br>• Gaskets (Washers) | |
| Remarks | | • Manufactured according to DIN EN 62444/50262.<br>• We recommend the use of threaded holes and/or the use of special EMC lock nuts to ensure high quality EMC contact quality.<br>• Some approvals do not cover all sizes.<br>• O-ring available in Metric and PG threads as a standard. For NPT threads O-ring available upon request.<br>• Accessories must be ordered separately.<br>• Other lock nut types also available upon request. | |
| Approvals | Certification Number | Standards | |
| UL | E542803 | UL514B<br>CSA22.2 No 18.3-12<br>CSA22.2 No 94.2-15 | |
| TYPE 4X | | UL50E | |
| For more approvals: see our web page | | | |

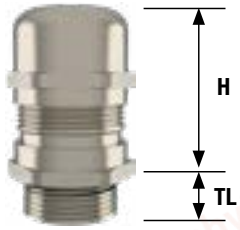
## Order Coding

| Part Number | | Gasket (Washer) | EMC Lock Nut | Sealing Plug |
|---|---|---|---|---|
| Mandatory | - | Option | Option | Option |
| See table | - | WC CR (Chloroprene)<br>WS Silicone | EL Lock Nut | P Dome Plug<br>T Dust Plugs |
| **Example** | | | | |
| AIO-BMCSEM-E6(M50T) | - | WC | EL | P |

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# EMC 4 CABLE GLANDS, BRASS




## Thread Type Metric Acc. to EN 60423

| Outer Thread Size (Male) | Clamping Range Ø min-max (mm) | Shield Diameter Ø min-max (mm) | Outer Thread Length TL (mm) | Spanner Width Cap (mm) | Spanner Width Body (mm) | Outer Ø D (mm) | Max Height H (mm) | Part Number |
|---|---|---|---|---|---|---|---|---|
| M12x1.5 | 3.0-6.5 | 2.0-5.0 | 6.0 | 14 | 14 | 15.5 | 30.0 | AIO-BMCSEM-ES(M12T) |
| M16x1.5 | 5.0-10.0 | 3.5-8.0 | 6.0 | 20 | 20 | 22.0 | 35.0 | AIO-BMCSEM-E1(M16T) |
| M20x1.5 | 6.0-12.0 | 4.5-10.0 | 6.0 | 22 | 22 | 24.5 | 33.5 | AIO-BMCSEM-E2S(M20T) |
| | 7.5-14.0 | 5.5-11.5 | 8.0 | 24 | 24 | 26.8 | 41.5 | AIO-BMCSEM-E2(M20T) |
| M25x1.5 | 10.0-18.0 | 7.0-14.0 | 8.0 | 30 | 30 | 33.0 | 44.5 | AIO-BMCSEM-E3(M25T) |
| M32x1.5 | 16.0-25.0 | 12.0-20.0 | 9.0 | 40 | 40 | 44.5 | 55.0 | AIO-BMCSEM-E4(M32T) |
| M40x1.5 | 22.0-32.0 | 18.0-27.0 | 9.0 | 50 | 50 | 55.5 | 62.5 | AIO-BMCSEM-E5(M40T) |
| M50x1.5 | 30.0-38.0 | 26.0-34.0 | 9.0 | 58 | 58 | 64.0 | 74.0 | AIO-BMCSEM-E6(M50T) |
| M63x1.5 | 34.0-44.0 | 30.0-40.0 | 14.0 | 64 | 68 | 75.0 | 60.0 | AIO-BMCSEM-E7(M63T) |
| | 37.0-53.0 | 33.0-49.0 | 10.0 | 75 | 75 | 83.0 | 75.0 | AIO-BMCSEM-E7L(M63T) |

## Thread Type NPT Acc. to ANSI B1.20.1

| Outer Thread Size (Male) | Clamping Range Ø min-max (mm) | Shield Diameter Ø min-max (mm) | Outer Thread Length TL (mm) | Spanner Width Cap (mm) | Spanner Width Body (mm) | Outer Ø D (mm) | Max Height H (mm) | Part Number |
|---|---|---|---|---|---|---|---|---|
| NPT 1/4" | 3.0-6.5 | 2.0-5.0 | 11.5 | 14 | 15 | 16.5 | 30.0 | AIO-BNCSEM-ES(NPT1/4"T) |
| NPT 3/8" | 5.0-10.0 | 3.5-8.0 | 11.5 | 20 | 20 | 22.0 | 35.0 | AIO-BNCSEM-E1(NPT3/8"T) |
| NPT 1/2" | 6.0-12.0 | 4.5-10.0 | 15.0 | 22 | 22 | 24.5 | 39.5 | AIO-BNCSEM-E2S(NPT1/2"T) |
| | 7.5-14.0 | 5.5-11.5 | 15.0 | 24 | 24 | 26.8 | 41.5 | AIO-BNCSEM-E2(NPT1/2"T) |
| NPT 3/4" | 10.0-18.0 | 7.0-14.0 | 15.0 | 30 | 30 | 33.0 | 43.5 | AIO-BNCSEM-E3(NPT3/4"T) |
| NPT 1" | 16.0-25.0 | 12.0-20.0 | 20.0 | 40 | 40 | 44.5 | 54.0 | AIO-BNCSEM-E4(NPT1"T) |
| NPT 1 1/4" | 22.0-32.0 | 18.0-27.0 | 20.0 | 50 | 50 | 55.5 | 63.0 | AIO-BNCSEM-E5(NPT11/4"T) |
| NPT 1 1/2" | 30.0-38.0 | 26.0-34.0 | 22.0 | 58 | 58 | 64.0 | 73.0 | AIO-BNCSEM-E6(NPT11/2"T) |
| NPT 2" | 34.0-44.0 | 30.0-40.0 | 22.0 | 64 | 68 | 75.0 | 73.0 | AIO-BNCSEM-E7(NPT2"T) |

## Thread Type PG Acc. to DIN 40430

| Outer Thread Size (Male) | Clamping Range Ø min-max (mm) | Shield Diameter Ø min-max (mm) | Outer Thread Length TL (mm) | Spanner Width Cap (mm) | Spanner Width Body (mm) | Outer Ø D (mm) | Max Height H (mm) | Part Number |
|---|---|---|---|---|---|---|---|---|
| PG 7 | 3.0-6.5 | 2.0-5.0 | 6.0 | 14 | 15 | 16.5 | 30.0 | AIO-BSCSEM-E1(PG7T) |
| PG 9 | 4.0-8.0 | 2.5-6.0 | 6.0 | 17 | 17 | 19.0 | 36.0 | AIO-BSCSEM-E2(PG9T) |
| PG 11 | 5.0-10.0 | 3.5-8.0 | 6.0 | 20 | 21 | 23.0 | 35.0 | AIO-BSCSEM-E3(PG11T) |
| PG 13.5 | 6.0-12.0 | 4.5-10.0 | 6.5 | 22 | 22 | 24.5 | 33.5 | AIO-BSCSEM-E4(PG13.5T) |
| PG 16 | 7.5-14.0 | 5.5-11.5 | 6.5 | 24 | 25 | 27.5 | 41.5 | AIO-BSCSEM-E5(PG16T) |
| PG 21 | 10.0-18.0 | 7.0-14.0 | 7.0 | 30 | 32 | 35.5 | 44.5 | AIO-BSCSEM-E6(PG21T) |
| PG 29 | 16.0-25.0 | 12.0-20.0 | 9.0 | 40 | 40 | 44.5 | 55.0 | AIO-BSCSEM-E7(PG29T) |
| PG 36 | 22.0-32.0 | 18.0-27.0 | 9.0 | 50 | 50 | 55.5 | 62.0 | AIO-BSCSEM-E8(PG36T) |
| PG 42 | 30.0-38.0 | 26.0-34.0 | 12.0 | 58 | 60 | 66.5 | 74.5 | AIO-BSCSEM-E9(PG42T) |
| PG 48 | 34.0-44.0 | 30.0-40.0 | 14.0 | 64 | 68 | 75.0 | 60.5 | AIO-BSCSEM-E10(PG48T) |

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# OCTANS CABLE GLANDS FOR RAILWAY APPLICATION, BRASS

## Brass Railway Cable Glands with Lamellar Clamping

- For railway applications.
- Prevents damages according to pressure differences.
- Easy assembly.
- High quality strain relief and sealing, reliable performance for standard industrial applications.
- Up-to-date international approvals.

| Technical Details | | |
|---|---|---|
| Material | Body, Cap: | Brass, Brass Nickel Plated |
| | Seal: | EPDM |
| | O-ring: | EPDM |
| Ingress Protection Rating | | IP 68-5 Bar, 30 min<br>IP 66 |
| Flammability | | R22 acc. to EN45545-2<br>R23 acc. to EN45545-2<br>HL2 acc. to EN45545-2<br>HL3 acc. to EN45545-2 |
| Approvals | | The sealing material of the products has CURRENTA Approval in conformity with EN 45545-3. |
| Operating Temperature | | SEAL MATERIAL<br>Permanent<br>-50°C to +125°C |
| Thread Type | | Metric (M) EN 60423<br>NPT (N) ANSI ASME B1.20.1 |
| Accessories | | Locknuts |
| Remarks | | • We recommend the use of locknuts and gaskets to ensure IP rating for rough surfaces or through holes.<br>• Accessories must be ordered separately. |





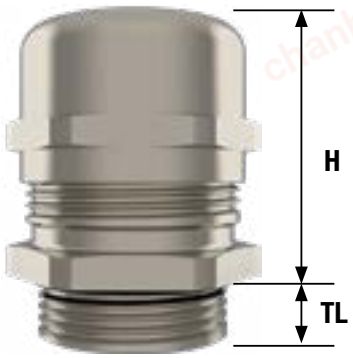
## Order Coding

| Part Number | - | Lock Nut |
|---|---|---|
| Mandatory | - | Option |
| See table | - | L Lock nut |
| **Example** | | |
| AIO-AIO-R-BCSCSU2MBNE | - | L |

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# OCTANS CABLE GLANDS FOR RAILWAY APPLICATION, BRASS




| Thread Type Metric Acc. to EN 60423 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Outer Thread Size (Male) | Clamping Range Ø min-max (mm) | Clamping Range Seal Type | Outer Thread Length TL (mm) | Spanner Width Cap (mm) | Spanner Width Body (mm) | Outer Ø D (mm) | Max. Height H (mm) | Part Number |
| M20x1.5 | 4.0-12.0 | Triple | 9.0 | 22 | 22 | 24.5 | 29.0 | AIO-R-BCSU1MBNE |
| | 10.0-16.0 | Triple | 9.0 | 28 | 28 | 31.0 | 32.0 | AIO-R-BCSU12MBNE |
| M25x1.5 | 4.0-12.0 | Triple | 9.0 | 22 | 28 | 31.0 | 29.0 | AIO-R-BCSU2SMBNE |
| | 10.0-18.0 | Triple | 9.0 | 28 | 28 | 31.0 | 32.5 | AIO-R-BCSU2MBNE |
| M32x1.5 | 10.0-18.0 | Triple | 9.0 | 28 | 35 | 39.0 | 32.5 | AIO-R-BCSU3SMBNE |
| | 14.0-24.0 | Triple | 9.0 | 35 | 35 | 39.0 | 35.0 | AIO-R-BCSU3MBNE |
| | 22.0-28.0 | Triple | 9.0 | 45 | 45 | 49.5 | 42.5 | AIO-R-BCSU34MBNE |
| M40x1.5 | 14.0-24.0 | Triple | 9.0 | 35 | 45 | 49.5 | 35.0 | AIO-R-BCSU4SMBNE |
| | 22.0-32.0 | Triple | 9.0 | 45 | 45 | 49.5 | 42.5 | AIO-R-BCSU4MBNE |
| M50x1.5 | 26.0-35.0 | Triple | 9.0 | 50 | 55 | 61.0 | 45.5 | AIO-R-BCSU5MBNE |
| | 35.0-44.0 | Triple | 9.0 | 64 | 64 | 70.0 | 45.0 | AIO-R-BCSU56MBNE |

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# STANDARD CABLE GLANDS FOR RAILWAY APPLICATIONS, POLYAMIDE

## Polyamide Cable Glands for Railway Application

- For standard industrial applications.
- Easy Assembly
- High quality strain relief and sealing, reliable performance for standard industrial applications.
- Up-to-date international approvals





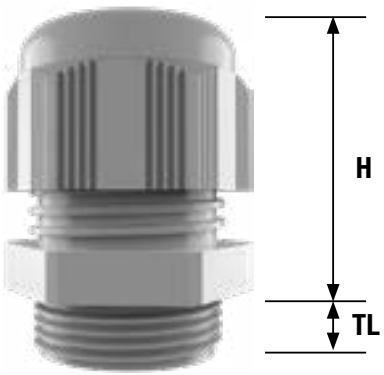
| Technical Details | | |
|---|---|---|
| Material | Body, Cap:<br>Seal: | PA 6 (Polyamide 6) (R22, HL3 and R23, HL3)<br>EPDM (R22, HLC and R23, HL3) |
| Ingress Protection Rating | | IP 68-5 Bar, 30 min<br>IP 66 |
| Flammability | | • R22 acc. to EN45545-2<br>• R23 acc. to EN45545-2<br>• HL2 acc. to EN45545-2<br>• HL3 acc. to EN45545-2 |
| Operating Temperature | | EPDM<br>-40°C to +100°C |
| Thread Type | | • Metric EN 60423<br>• PG DIN 40430<br>• NPT ANSI B1.20.1<br>• GasISO 228<br>• Other thread types also available upon request |
| Cable Type | | Non-armored |
| Accessories | | • Locknuts<br>• Dome plugs<br>• Reducing seals<br>• Flat cable seals<br>• Multihole seals<br>• Gaskets (Washers) |
| Remarks | | • Manufactured according to DIN EN 62444/50262<br>• We recommend the use of lockets an d gaskets to ensure IP rating for rough surfaces or through holes<br>• Some approvals do not cover all sizes<br>• Accessories must be ordered separately<br>• Other colors on request: RAL 5015 (blue), RAL 9003 (white) RAL 3020 (red) |

| Order Coding | | | | |
|---|---|---|---|---|
| Part Number | - | Gasket (Washer) | Sealing Plug | Lock Nut |
| Mandatory | - | Option | Option | Option |
| See table | - | WC Chloroprene<br>WS Silicon | P Dome Plug | L Lock nut |
| **Example** | | | | |
| AIO-R-BCSMEM-E2S (M20T) | - | WC | P | L |

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# STANDARD CABLE GLANDS FOR RAILWAY APPLICATIONS, POLYAMIDE




| Thread Type Metric Acc. to EN 60423 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Outer Thread Size (Male) | Clamping Range Ø | Outer Thread Length | Spanner Width | | Outer Ø | Max Height | RAL 7035 Light Gray | RAL 7001 Gray | RAL 9005 Black |
| | min-max (mm) | TL (mm) | Cap (mm) | Body (mm) | D (mm) | H (mm) | | | |
| M12x1.5 | 3.0-6.5 | 8.0 | 15 | 15 | 17.0 | 25.3 | AIO-R-BCSM-1S | AIO-R-BCSM-0S | AIO-R-BCSM-2S |
| M16x1.5 | 4.0-8.0 | 8.0 | 19 | 19 | 21.7 | 27.4 | AIO-R-BCSM-EN-11 | AIO-R-BCSM-EN-01 | AIO-R-BCSM-EN-21 |
| | 4.0-8.0 | 10.0 | 19 | 19 | 21.7 | 27.4 | AIO-R-BCSM-EN-11M | AIO-R-BCSM-EN-01M | AIO-R-BCSM-EN-21M |
| | 5.0-10.0 | 10.0 | 22 | 22 | 25.0 | 32.2 | AIO-R-BCSM-11 | AIO-R-BCSM-01 | AIO-R-BCSM-21 |
| | 5.0-10.0 | 15.0 | 22 | 22 | 25.0 | 32.2 | AIO-R-BCSM-11L | AIO-R-BCSM-01L | AIO-R-BCSM-21L |
| M20x1.5 | 6.0-12.0 | 10.0 | 24 | 24 | 27.0 | 32.4 | AIO-R-BCSM-12 | AIO-R-BCSM-02 | AIO-R-BCSM-22 |
| | 6.0-12.0 | 15.0 | 24 | 24 | 27.0 | 32.4 | AIO-R-BCSM-12L | AIO-R-BCSM-02L | AIO-R-BCSM-22L |
| | 10.0-14.0 | 10.0 | 27 | 27 | 30.9 | 31.9 | AIO-R-BCSM-13 | AIO-R-BCSM-03 | AIO-R-BCSM-23 |
| | 10.0-14.0 | 15.0 | 27 | 27 | 30.9 | 31.9 | AIO-R-BCSM-14 | AIO-R-BCSM-04 | AIO-R-BCSM-24 |
| M25x1.5 | 13.0-18.0 | 10.0 | 33 | 33 | 37.2 | 38.4 | AIO-R-BCSM-15 | AIO-R-BCSM-05 | AIO-R-BCSM-25 |
| | 13.0-18.0 | 15.0 | 33 | 33 | 37.2 | 38.4 | AIO-R-BCSM-16 | AIO-R-BCSM-06 | AIO-R-BCSM-26 |
| M32x1.5 | 18.0-25.0 | 15.0 | 42 | 42 | 47.1 | 43.3 | AIO-R-BCSM-17 | AIO-R-BCSM-07 | AIO-R-BCSM-27 |
| M40x1.5 | 22.0-32.0 | 18.0 | 53 | 53 | 59.6 | 52.4 | AIO-R-BCSM-18 | AIO-R-BCSM-08 | AIO-R-BCSM-28 |

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# STANDARD CABLE GLANDS FOR RAILWAY APPLICATION, BRASS

## Brass Railway Cable Glands with Lamellar Clamping

- For railway applications.
- Prevents damages according to pressure differences.
- Easy assembly.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

| Technical Details | | |
|---|---|---|
| Material | Body, Cap | Brass, Brass Nickel Plated |
| | Seal | EPDM |
| | Clamping Insert | PA 6 (Polyamide 6) |
| | O-ring | EPDM |
| Ingress Protection Rating | | IP 68-5 Bar, 30 min<br>IP 66 |
| Flammability | | • R22 acc. to EN45545-2<br>• R23 acc. to EN45545-2<br>• HL2 acc. to EN45545-2<br>• HL3 acc. to EN45545-2 |
| Approvals | | The sealing material of the products has CURRENTA Approval in conformity with EN 45545-3. |
| Operating Temperature | | SEAL MATERIAL<br>Permanent<br>-40°C to +100°C |
| Thread Type | | Metric (M) EN 60423<br>NPT (N) ANSI ASME B1.20.1 |
| Accessories | | Locknuts |
| Remarks | | • We recommend the use of locknuts and gaskets to ensure IP rating for rough surfaces or through holes.<br>• Accessories must be ordered separately. |





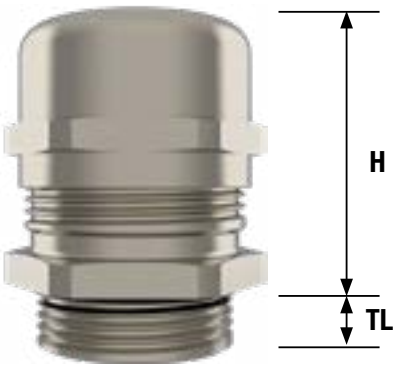
## Order Coding

| Part Number | - | Lock Nut |
|---|---|---|
| Mandatory | - | Option |
| See table | - | L Lock nut |
| **Example** | | |
| AIO-R-BCSMBC-E2 | - | L |

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# CABLE GLANDS FOR RAILWAY APPLICATIONS, BRASS




| Thread Type Metric Acc. to EN 60423 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Outer Thread Size (Male) | Clamping Range Ø | Outer Thread Length | Spanner Width | | Outer Ø | Max Height | Part Number |
| | min-max (mm) | TL (mm) | Cap (mm) | Body (mm) | D (mm) | H (mm) | |
| M12x1.5 | 3.0-6.5 | 6.0 | 14 | 14 | 15.5 | 24.0 | AIO-R-BCSMBC-ES |
| | 3.0-6.5 | 12.0 | 14 | 14 | 15.5 | 24.0 | AIO-R-BCSMBE-ES |
| M16x1.5 | 4.0-8.0 | 7.0 | 17 | 18 | 20.0 | 25.5 | AIO-R-BCSMBC-01 |
| | 4.0-8.0 | 12.0 | 17 | 18 | 20.0 | 25.5 | AIO-R-BCSMBE-01 |
| | 5.0-10.0 | 7.0 | 20 | 20 | 22.0 | 30.5 | AIO-R-BCSMBC-E1 |
| | 5.0-10.0 | 12.0 | 20 | 20 | 22.0 | 30.5 | AIO-R-BCSMBE-E1 |
| M20x1.5 | 6.0-12.0 | 8.0 | 22 | 22 | 24.5 | 28.0 | AIO-R-BCSMBC-E2 |
| | 6.0-12.0 | 12.0 | 22 | 22 | 24.5 | 28.0 | AIO-R-BCSMBE-E2 |
| | 10.0-14.0 | 8.0 | 24 | 24 | 26.5 | 30.0 | AIO-R-BCSMBC-02S |
| | 10.0-14.0 | 12.0 | 24 | 24 | 26.5 | 30.0 | AIO-R-BCSMBE-02S |
| M25x1.5 | 13.0-18.0 | 8.0 | 30 | 30 | 33.0 | 35.0 | AIO-R-BCSMBC-03S |
| | 13.0-18.0 | 12.0 | 30 | 30 | 33.0 | 35.0 | AIO-R-BCSMBE-03S |
| M32x1.5 | 18.0-25.0 | 9.0 | 40 | 40 | 44.5 | 46.0 | AIO-R-BCSMBC-04S |
| | 18.0-25.0 | 15.0 | 40 | 40 | 44.5 | 46.0 | AIO-R-BCSMBE-04S |
| M40x1.5 | 22.0-32.0 | 9.0 | 50 | 50 | 55.5 | 54.5 | AIO-R-BCSMBC-05S |
| | 22.0-32.0 | 15.0 | 50 | 50 | 55.5 | 54.5 | AIO-R-BCSMBE-05S |

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# CABLE GLANDS FOR RAILWAY APPLICATIONS, EMC 4, BRASS

## EMC 4 Railway Cable Glands with Lamellar Clamping

- For railway applications.
- Vibration proof EMC performance
- Long-lasting contact by high definition contact spring
- Moving spring contact offers reduced rish of sheath damage.
- Easy assembly and disassembly of cable. Spring closes and opens according to fastening of the cap.
- Easy movement of cable as long as not fastened.
- High quality strain relief and sealing, reliable performance for EMC applications.
- Up-to-date international approvals.



| Technical Details | | |
|---|---|---|
| Material | Body, Cap: | Brass Nickel Plated |
| | Seal: | EPDM |
| | Clamping Insert: | PA 6 (Polyamide 6) |
| | Contact Spring: | Special Copper Alloy |
| | O-ring: | EPDM |
| Ingress Protection Rating | | IP 68-5 Bar, 30 min<br>IP 66 |
| Flammability | | R22 acc. to EN45545-2<br>R23 acc. to EN45545-2<br>HL2 acc. to EN45545-2<br>HL3 acc. to EN45545-2 |
| Approvals | | The raw material of the products has CURRENTA Approval in conformity with EN 45545-3. |
| Operating Temperature | | SEAL MATERIAL<br>Permanent<br>-40°C to +100°C |
| Thread Type | | Metric (M) EN 60423<br>NPT (N) ANSI ASME B1.20.1 |
| Accessories | | • Locknuts |
| Remarks | | • We recommend the use of locknuts and gaskets to ensure IP rating for rough surfaces or through holes.<br>• Accessories must be ordered separately. |

| Order Coding | | | |
|---|---|---|---|
| Part Number | - | Gasket (Washer) | Lock Nut |
| Mandatory | - | Option | Option |
| See table | - | WC Chloroprene<br>WS Silicon | L Lock nut |
| **Example** | | | |
| AIO-R-BCSMEM-E2S (M20T) | - | WC | L |

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# CABLE GLANDS FOR RAILWAY APPLICATIONS, EMC 4, BRASS




| Thread Type Metric Acc. to EN 60423 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Outer Thread Size (Male) | Clamping Range Ø | Shield Diameter Ø | Outer Thread Length | Spanner Width | | Outer Ø | max. Height | Part Number |
| | min-max mm) | min-max (mm) | TL (mm) | Cap (mm) | Body (mm) | D (mm) | H (mm) | |
| M12x1.5 | 3.0-6.5 | 2.0-5.0 | 6.0 | 14 | 14 | 15.5 | 30.0 | AIO-R-BCSMEM-ES (M12T) |
| M16x1.5 | 5.0-10.0 | 3.5-8.0 | 6.0 | 20 | 20 | 22.0 | 35.0 | AIO-R-BCSMEM-E1 (M16T) |
| M20x1.5 | 6.0-12.0 | 4.5-10.0 | 6.0 | 22 | 22 | 24.5 | 33.5 | AIO-R-BCSMEM-E2S (M20T) |
| M20x1.5 | 7.5-14.0 | 5.5-11.5 | 8.0 | 24 | 24 | 26.8 | 41.5 | AIO-R-BCSMEM-E2 (M20T) |
| M25x1.5 | 10.0-18.0 | 7.0-14.0 | 8.0 | 30 | 30 | 33.0 | 44.5 | AIO-R-BCSMEM-E3 (M25T) |
| M32x1.5 | 16.0-25.0 | 12.0-20.0 | 9.0 | 40 | 40 | 44.5 | 55.0 | AIO-R-BCSMEM-E4 (M32T) |
| M40x1.5 | 22.0-32.0 | 18.0-27.0 | 9.0 | 50 | 50 | 55.5 | 62.5 | AIO-R-BCSMEM-E5 (M40T) |

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# ARMORED CABLE GLANDS



## Cable Glands for Armored Cables

- Specially designed cable glands for armored cables. Large temperature range applications.
- Easy assembly: install cable gland-prepare steel wires-insert cable-tighten cap.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

**Technical Details**

| | | |
|---|---|---|
| Material | Cable Gland | Brass, Brass Nickel Plated, Stainless Steel |
| | Inner Part | Brass, Brass Nickel Plated, Stainless Steel |
| | Sealing | CR (Chloroprene), Silicone |
| Ingress Protection Rating | IP 66 | |
| Operating Temperature | Seal Material | |
| | *CR (Chloroprene)* | *Silicone* |
| | -40°C to +100°C | -60°C to + 180°C |
| Thread Type | • Metric EN 60423<br>• NPT ANSI B1.20.1<br>• Other thread types also available upon request. | |
| Cable Type | SWA, SWB, AWA, STA and Shielded | |
| Accessories | • Lock nuts<br>• Gaskets (Washers)<br>• Shroud | |
| Remarks | • Manufactured according to DIN EN 62444/50262.<br>• We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.<br>• Accessories must be ordered separately. | |



## Order Coding

| Part Number | Seal | Material | - | Gasket (Washer) | Lock Nut | Shroud |
|---|---|---|---|---|---|---|
| Mandatory | Mandatory | Mandatory | - | Option | Option | Option |
| See table | C CR (Chloroprene)<br>S Silicone | B Brass<br>BN Brass Nickel Plated<br>X Stainless Steel | - | WC CR (Chloroprene)<br>WS Silicone | L Lock Nut | S Shroud |
| **Example** | | | | | | |
| AIO-KBCSET2LM | S | BN | - | WC | L | S |

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# ARMORED CABLE GLANDS

| Thread Type Metric Acc. to EN 60423 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Outer Thread Size (Male) | Clamp Range Ø | Armour Wire Ø | Outer Thread Length | Spanner Width | | | Outer Ø | Max. Height | Part Number |
| | min-max (mm) | min-max (mm) | TL (mm) | Cap (mm) | Middle Body (mm) | Lower Body (mm) | D (mm) | H (mm) | |
| M16x1.5 | 8.0-15.0 | 0.3-1.3 | 9.0 | 25 | 25 | 24 | 27.0 | 42.5 | AIO-KBCSET01M |
| M20x1.5 | 8.0-15.0 | 0.3-1.3 | 9.0 | 25 | 25 | 24 | 27.0 | 42.5 | AIO-KBCSET1M |
| | 13.5-21.0 | 0.4-1.3 | 9.0 | 30 | 30 | 29 | 33.0 | 43.5 | AIO-KBCSET1LM |
| M25x1.5 | 8.0-15.0 | 0.3-1.3 | 9.0 | 25 | 25 | 25 | 27.0 | 42.5 | AIO-KBCSET2SM |
| | 13.5-21.0 | 0.4-1.3 | 9.0 | 30 | 30 | 29 | 33.0 | 43.5 | AIO-KBCSET2M |
| | 18.0-27.0 | 04-1.6 | 9.0 | 40 | 40 | 40 | 44.5 | 50.0 | AIO-KBCSET2LM |
| M32x1.5 | 18.0-27.0 | 0.4-1.6 | 9.0 | 40 | 40 | 40 | 44.5 | 50.0 | AIO-KBCSET3SM |
| | 23.0-33.0 | 0.4-2.0 | 9.0 | 43 | 43 | 43 | 47.0 | 53.5 | AIO-KBCSET3M |
| M40x1.5 | 29.0-40.0 | 0.4-2.0 | 9.0 | 52 | 52 | 52 | 59.0 | 57.0 | AIO-KBCSET4M |
| M50x1.5 | 35.0-48.0 | 0.4-2.5 | 9.0 | 60 | 60 | 60 | 66.5 | 69.5 | AIO-KBCSET5SM |
| | 42.0-56.0 | 0.6-2.5 | 9.0 | 75 | 74 | 70 | 83.0 | 76.5 | AIO-KBCSET5M |
| M63X1.5 | 42.0-56.0 | 0.6-2.5 | 9.0 | 75 | 74 | 70 | 83.0 | 76.5 | AIO-KBCSET6SM |
| | 53.0-66.0 | 0.6-2.5 | 9.0 | 85 | 85 | 80 | 94.0 | 77.5 | AIO-KBCSET6M |
| M75X1.5 | 53.0-66.0 | 0.6-2.5 | 9.0 | 85 | 85 | 80 | 94.0 | 77.5 | AIO-KBCSET7SM |
| | 63.0-75.0 | 0.6-2.5 | 9.0 | 95 | 95 | 90 | 105.0 | 81.0 | AIO-KBCSET7M |

| Thread Type NPT Acc. to ANSI B1.20.1 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Outer Thread Size (Male) | Clamp Range Ø | Armour Wire Ø | Outer Thread Length | Spanner Width | | | Outer Ø | Max. Height | Part Number |
| | min-max (mm) | min-max (mm) | TL (mm) | Cap (mm) | Middle Body (mm) | Lower Body (mm) | D (mm) | H (mm) | |
| NPT 3/8" | 8.0-15.0 | 0.3-1.3 | 16.0 | 25 | 25 | 24 | 27.0 | 42.5 | AIO-KBCSET01N |
| NPT 1/2" | 8.0-15.0 | 0.3-1.3 | 16.0 | 25 | 25 | 24 | 27.0 | 42.5 | AIO-KBCSET1N |
| | 13.5-21.0 | 0.4-1.3 | 16.0 | 30 | 30 | 29 | 33.0 | 43.5 | AIO-KBCSET1LN |
| NPT 3/4" | 8.0-15.0 | 0.3-1.3 | 16.0 | 25 | 25 | 27 | 30.0 | 42.5 | AIO-KBCSET2SN |
| | 13.5-21.0 | 0.4-1.3 | 16.0 | 30 | 30 | 29 | 33.0 | 43.5 | AIO-KBCSET2N |
| | 18.0-27.0 | 04-1.6 | 16.0 | 40 | 40 | 40 | 44.5 | 50.0 | AIO-KBCSET2LN |
| NPT 1" | 18.0-27.0 | 0.4-1.6 | 21.0 | 40 | 40 | 40 | 44.5 | 50.0 | AIO-KBCSET3SN |
| | 23.0-33.0 | 0.4-2.0 | 21.0 | 43 | 43 | 43 | 47.0 | 53.5 | AIO-KBCSET3N |
| NPT 1 1/4" | 29.0-40.0 | 0.4-2.0 | 21.0 | 52 | 52 | 52 | 59.0 | 57.0 | AIO-KBCSET4N |
| NPT 1 1/2" | 35.0-48.0 | 0.4-2.5 | 21.0 | 60 | 60 | 60 | 66.5 | 69.5 | AIO-KBCSET5SN |
| | 42.0-56.0 | 0.6-2.5 | 21.0 | 75 | 74 | 70 | 83.0 | 76.5 | AIO-KBCSET5N |
| NPT 2" | 42.0-56.0 | 0.6-2.5 | 21.0 | 75 | 74 | 70 | 83.0 | 76.5 | AIO-KBCSET6SN |
| | 53.0-66.0 | 0.6-2.5 | 21.0 | 85 | 85 | 80 | 94.0 | 77.5 | AIO-KBCSET6N |
| NPT 2 1/2" | 53.0-66.0 | 0.6-2.5 | 21.0 | 85 | 85 | 80 | 94.0 | 77.5 | AIO-KBCSET7SN |
| | 63.0-75.0 | 0.6-2.5 | 21.0 | 95 | 95 | 90 | 105.0 | 81.0 | AIO-KBCSET7N |

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# DRAIN PLUGS, POLYAMIDE

## Drain Plugs

- Balances pressure differences between inner housing and the outside environment.
- Prevents damages according to pressure differences.
- Prevents the formation of water condensation in tightly-sealed standard housings.
- Membrane properties: hydrophobic, oleophobic.

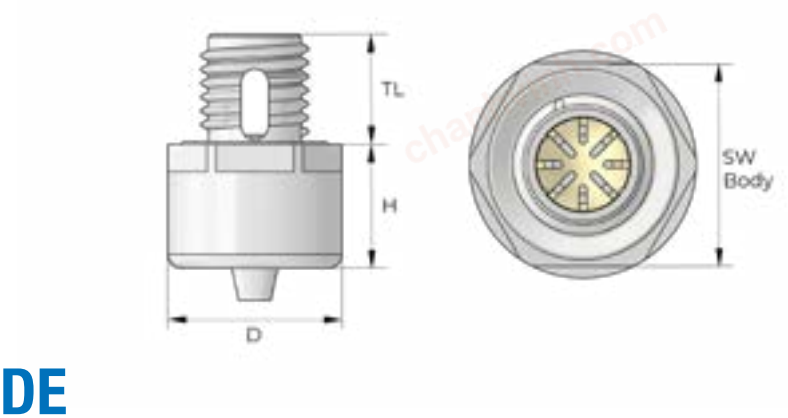
| Technical Details | | |
|---|---|---|
| Material Body | PA 66 | |
| Ingress Protection Rating | IP 56/IP 66 (Category 2) | |
| Flammability | V2 according to UL94 | |
| Operating Temperature | Permanent | Intermittent |
| | -20°C to +80°C | -30°C to +150°C |
| Thread Type | Metric EN 60423 and EN 62444 | |
| Accessories | Locknuts<br>Gaskets (Washers) | |
| Remarks | • We recommend the use of locknuts and gaskets to ensure IP rating for rough surfaces or through holes.<br>• Accessories must be ordered separately. | |





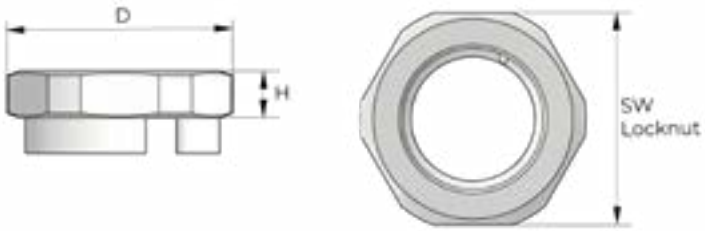
## Order Coding

| Part Number | - | Locknut |
|---|---|---|
| Mandatory | - | -Option |
| See table | - | -L Lock nut |
| Example | | |
| AIO-BPCSDRP-11 | - | L |




# DRAIN PLUGS, POLYAMIDE

| Thread Type Metric Acc. to EN 60423 | | | | | | |
|---|---|---|---|---|---|---|
| Outer Thread Size (Male) | Outer Thread Length | Outer Ø | Height | Part Number | | |
| | TL (mm) | D (mm) | h (mm) | RAL 7035 Light Gray | RAL 7001 Gray | RAL 9005 Black |
| M12x1.5 | 12.0 | 19.0 | 17.0 | AIO-BPCSDRP-11 | AIO-BPCSDRP-01 | AIO-BPCSDRP-21 |




# SPECIAL LOCK NUTS FOR DRAIN PLUGS

| | | | | | | |
|---|---|---|---|---|---|---|
| Outer Thread Size (Female) | Spanner Width | Outer Ø | Height | Part Number | | |
| | Lock nut (mm) | D (mm) | h (mm) | RAL 7035 Light Gray | RAL 7001 Gray | RAL 9005 Black |
| M12x1.5 | 18 | 19.2 | 7.0 | AIO-BMCSL-1S(DRP) | AIO-BMCSL-0S(DRP) | AIO-BMCSL-2S(DRP) |

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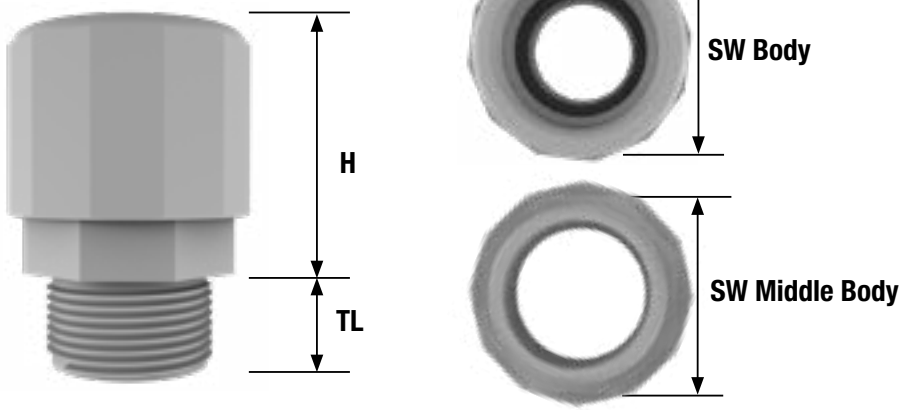
# ENCLOSURE COUPLERS, POLYAMIDE

## Enclosure Couplers

- Halogen free.
- No toxic fumes when involved in a fire.
- No conduit tubes
- One side with standard metric threads and special fitting for conduit spiral on the other side.



| Technical Details | | |
|---|---|---|
| Material | Fitting<br>Seal | Polyamide 6 Halogen free<br>TPE Halogen free |
| Ingress Protection Rating | | IP 67 |
| Operating Temperature | | Permanent<br>-20°C to +80°C |
| Thread Type | | Metric, according to EN 60423 and EN 62444 |
| Accessories | | • Locknuts |
| Remarks | | • We recommend the use of locknuts to ensure IP rating for rough surfaces or through holes.<br>• Accessories must be ordered separately. |




## Thread Type Metric Acc. to EN 60423

| Outer Thread Size (Male) | For Conduit Nominal Size | Outer Thread Length | Spanner Width | | Outer Ø | Inner Ø | Height | Part Number RAL 7035 Light Gray |
|---|---|---|---|---|---|---|---|---|
| | | TL (mm) | Body (mm) | Middle Body (mm) | D (mm) | ID (mm) | H (mm) | |
| M16x1.5 | 16.0 | 14.0 | 26.0 | 21.0 | 26.3 | 16.5 | 34.5 | AIO-BRCSCF-01 |
| M20x1.5 | 20.0 | 14.0 | 30.0 | 25.0 | 31.1 | 20.5 | 33.6 | AIO-BRCSCF-02 |
| M25x1.5 | 25.0 | 14.0 | 35.0 | 30.0 | 35.7 | 25.1 | 34.7 | AIO-BRCSCF-03 |
| M32x1.5 | 32.0 | 14.0 | 42.0 | 37.0 | 43.0 | 32.6 | 34.5 | AIO-BRCSCF-04 |
| M40x1.5 | 40.0 | 19.0 | 50.0 | 45.0 | 51.5 | 40.4 | 42.2 | AIO-BRCSCF-05 |
| M50x1.5 | 50.0 | 19.0 | 61.0 | 55.0 | 63.4 | 50.7 | 42.1 | AIO-BRCSCF-06 |
| M63x1.5 | 63.0 | 19.0 | 74.0 | 68.0 | 77.2 | 58.2 | 42.2 | AIO-BRCSCF-07 |

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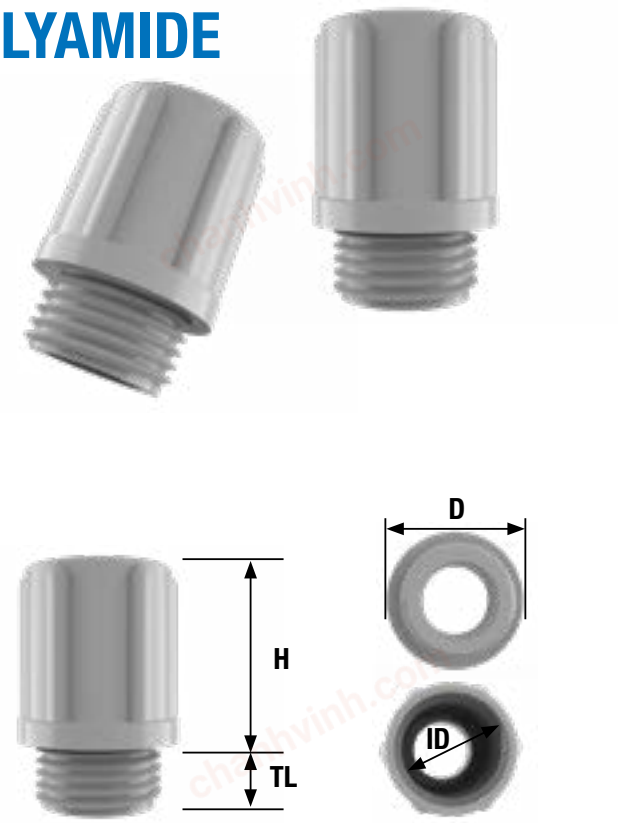


# STRAIGHT CONDUIT FITTINGS, POLYAMIDE

## Straight Conduit Fittings, Polyamide

- Halogen free.
- No toxic fumes when involved in a fire.
- No flexible spiral conduits.
- One side with standard metric or PG thread and special thread for conduit spiral on the other side.

| Technical Details | |
|---|---|
| Material | Polyamide 6 Halogen free |
| Ingress Protection Rating | IP 54 |
| Operating Temperature | Permanent<br>-20°C to +80°C |
| Thread Type | Metric, according to EN 60423<br>PG, according to DIN 40430 |
| Accessories | • Locknuts |
| Remarks | • We recommend the use of locknuts and gaskets to ensure IP rating for rough surfaces or through holes.<br>• Accessories must be ordered separately. |




## Thread Type Metric Acc. to EN 60423

| Outer Thread Size (Male) | For Conduit Nominal Size | Outer Thread Length | Outer Ø | Inner Ø | Height | Part Number | | |
|---|---|---|---|---|---|---|---|---|
| | | TL (mm) | D (mm) | ID (mm) | H (mm) | RAL 7035 Light Gray | RAL 7001 Gray | RAL 9005 Black |
| M12x1.5 | 12.8 | 8.0 | 17.4 | 7.0 | 21.2 | AIO-BCCSM-1S | AIO-BCCSM-0S | AIO-BCCSM-2S |
| M16x1.5 | 15.0 | 8.0 | 20.0 | 10.0 | 21.3 | AIO-BCCSM-11 | AIO-BCCSM-01 | AIO-BCCSM-21 |
| M20x1.5 | 19.0 | 8.0 | 24.1 | 15.0 | 24.5 | AIO-BCCSM-12 | AIO-BCCSM-02 | AIO-BCCSM-22 |
| M20x1.5 | 21.0 | 9.0 | 26.0 | 13.0 | 25.5 | AIO-BCCSM-13 | AIO-BCCSM-03 | AIO-BCCSM-23 |
| M25x1.5 | 22.0 | 10.0 | 28.9 | 18.0 | 25.5 | AIO-BCCSM-14 | AIO-BCCSM-04 | AIO-BCCSM-24 |
| M32x1.5 | 28.3 | 11.0 | 36.0 | 27.0 | 27.5 | AIO-BCCSM-15 | AIO-BCCSM-05 | AIO-BCCSM-25 |
| M40x1.5 | 36.4 | 11.0 | 44.2 | 31.5 | 32.5 | AIO-BCCSM-16 | AIO-BCCSM-06 | AIO-BCCSM-26 |
| M50x1.5 | 46.2 | 14.0 | 54.1 | 40.5 | 39.8 | AIO-BCCSM-17 | AIO-BCCSM-07 | AIO-BCCSM-27 |
| M63x1.5 | 57.0 | 14.0 | 67.0 | 51.0 | 43.5 | AIO-BCCSM-18 | AIO-BCCSM-08 | AIO-BCCSM-28 |

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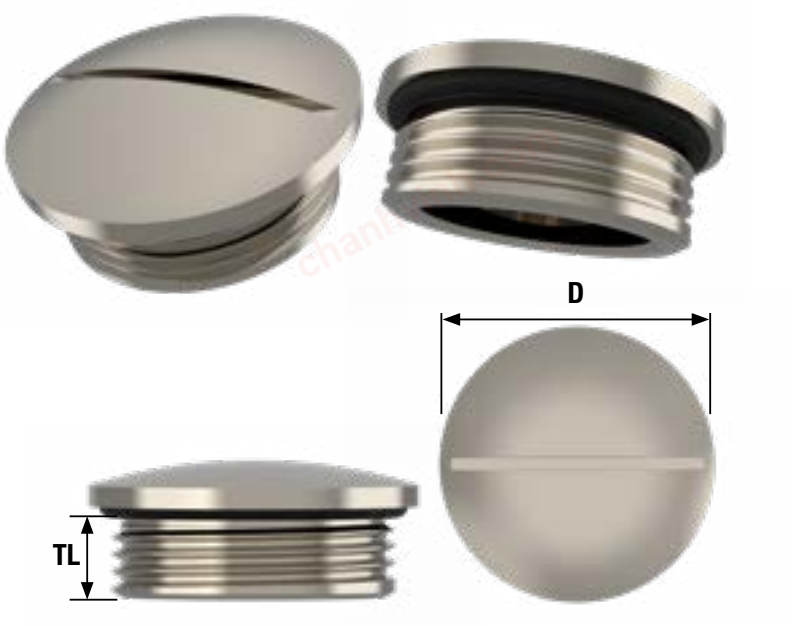
# STRAIGHT CONDUIT FITTINGS, POLYAMIDE

| Thread Type PG Acc. to DIN 40430 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Outer Thread Size (Male) | For Conduit Nominal Size | Outer Thread Length | Outer Ø | Inner Ø | Height | Part Number | | |
| | | TL (mm) | D (mm) | ID (mm) | H (mm) | RAL 7035 Light Gray | RAL 7001 Gray | RAL 9005 Black |
| PG 7 | 12.8 | 8.0 | 17.4 | 7.0 | 21.2 | AIO-BCCSF-11 | AIO-BCCSF-01 | AIO-BCCSF-21 |
| PG 9 | 15.0 | 8.0 | 20.0 | 10.0 | 21.3 | AIO-BCCSF-12 | AIO-BCCSF-02 | AIO-BCCSF-22 |
| PG 11 | 19.0 | 8.0 | 24.0 | 13.5 | 24.5 | AIO-BCCSF-13 | AIO-BCCSF-03 | AIO-BCCSF-23 |
| PG 13.5 | 21.0 | 9.0 | 25.9 | 14.5 | 25.3 | AIO-BCCSF-14 | AIO-BCCSF-04 | AIO-BCCSF-24 |
| PG 16 | 22.0 | 10.0 | 28.9 | 16.0 | 25.5 | AIO-BCCSF-15 | AIO-BCCSF-05 | AIO-BCCSF-25 |
| PG 21 | 28.3 | 11.0 | 36.0 | 21.5 | 27.5 | AIO-BCCSF-16 | AIO-BCCSF-06 | AIO-BCCSF-26 |
| PG 29 | 36.4 | 11.0 | 44.2 | 31.5 | 32.4 | AIO-BCCSF-17 | AIO-BCCSF-07 | AIO-BCCSF-27 |
| PG 36 | 46.2 | 14.0 | 53.0 | 41.0 | 39.9 | AIO-BCCSF-18 | AIO-BCCSF-08 | AIO-BCCSF-28 |
| PG 48 | 57.0 | 14.0 | 67.8 | 51.0 | 43.3 | AIO-BCCSF-19 | AIO-BCCSF-09 | AIO-BCCSF-29 |

| Thread Type Metric Acc. to EN 60423 | | | | |
|---|---|---|---|---|
| Outer Thread Size (Male) | Spanner Width | Part Number | | |
| | Locknut (mm) | RAL 7035 Light Gray | RAL 7001 Gray | RAL 9005 Black |
| M16x1.5 | 22.0 | AIO-BRCSCF-11-L | AIO-BRCSCF-01-L | AIO-BRCSCF-21-L |
| M20x1.5 | 26.0 | AIO-BRCSCF-12-L | AIO-BRCSCF-02-L | AIO-BRCSCF-22-L |
| M25x1.5 | 32.0 | AIO-BRCSCF-13-L | AIO-BRCSCF-03-L | AIO-BRCSCF-23-L |
| M32x1.5 | 41.0 | AIO-BRCSCF-14-L | AIO-BRCSCF-04-L | AIO-BRCSCF-24-L |
| M40x1.5 | 50.0 | AIO-BRCSCF-15-L | AIO-BRCSCF-05-L | AIO-BRCSCF-25-L |
| M50x1.5 | 60.0 | AIO-BRCSCF-16-L | AIO-BRCSCF-06-L | AIO-BRCSCF-26-L |
| M63x1.5 | 75.0 | AIO-BRCSCF-17-L | AIO-BRCSCF-07-L | AIO-BRCSCF-27-L |

# ROUND PLUGS, METAL

| Technical Details | | | |
|---|---|---|---|
| Material | Body | Brass, Brass Nickel Plated, Stainless Steel, Galvanised Steel | |
| | O-Ring | NBR, Silicone | |
| Ingress Protection Rating | | IP 68 (5 bar, 30 min), according to EN 60 529 | |
| Operating Temperature | | O-Ring Material | |
| | | NBR | Silicone |
| | | -30°C to +100°C | 60°C to +140°C |
| Thread Type | | Metric, according to EN 60423<br>PG, according to DIN 40430 | |
| Accessories | | Locknuts<br>Gaskets (Washers) | |
| Remarks | | • Accessories must be ordered separately.<br>• O-ring available in Metric and PG threads. | |




| Thread Type Metric Acc. to EN 60423 | | | | |
|---|---|---|---|---|
| Outer Thread Size (Male) | Outer Thread Length | Outer Ø | Height | Part Number |
| | TL (mm) | D (mm) | H (mm) | |
| M12x1.5 | 6.0 | 15.0 | 2.5 | AIO-ITSCSR-0SMBNN |
| M16x1.5 | 7.0 | 19.0 | 3.0 | AIO-ITSCSR-01MBNN |
| M20x1.5 | 8.0 | 23.0 | 3.0 | AIO-ITSCSR-02MBNN |
| M25x1.5 | 8.0 | 29.0 | 4.0 | AIO-ITSCSR-03MBNN |
| M32x1.5 | 9.0 | 36.0 | 4.0 | AIO-ITSCSR-04MBNN |
| M40x1.5 | 9.0 | 44.0 | 4.0 | AIO-ITSCSR-05MBNN |
| M50x1.5 | 9.0 | 54.0 | 5.0 | AIO-ITSCSR-06MBNN |
| M63x1.5 | 10.0 | 69.0 | 6.0 | AIO-ITSCSR-07MBNN |

| Thread Type PG Acc. to DIN 40430 | | | | |
|---|---|---|---|---|
| Outer Thread Size (Male) | Outer Thread Length | Outer Ø | Height | Part Number |
| | TL (mm) | D (mm) | H (mm) | |
| PG 7 | 6.0 | 16.0 | 3.0 | AIO-ITSCSR-01PBNN |
| PG 9 | 6.0 | 19.0 | 3.0 | AIO-ITSCSR-02PBNN |
| PG 11 | 6.0 | 22.0 | 3.0 | AIO-ITSCSR-03PBNN |
| PG 13.5 | 6.5 | 24.0 | 3.0 | AIO-ITSCSR-04PBNN |
| PG 16 | 6.5 | 26.0 | 3.0 | AIO-ITSCSR-05PBNN |
| PG 21 | 7.0 | 33.0 | 4.0 | AIO-ITSCSR-06PBNN |
| PG 29 | 8.0 | 42.0 | 4.0 | AIO-ITSCSR-07PBNN |
| PG 36 | 9.0 | 52.0 | 6.0 | AIO-ITSCSR-08PBNN |
| PG 42 | 10.0 | 59.0 | 6.0 | AIO-ITSCSR-09PBNN |
| PG 48 | 10.0 | 66.0 | 6.0 | AIO-ITSCSR-10PBNN |

| Order Coding | | | |
|---|---|---|---|
| Part Number | Material | - | O-Ring |
| Mandatory | Mandatory | - | Option |
| See table | B-Brass<br>BN-Brass Nickel plated<br>X-Stainless steel | - | N-NBR<br>S-Silicone |
| Example | | | |
| AIO-ITSCSR-01MBNN | X | - | N |

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# VENTILATION PLUGS, POLYAMIDE

## Ventilation Plugs

- Balances pressure differences between inner housing and the outside environment.
- Prevents damages according to pressure differences.
- Prevents the formation of water condensation in tightly-sealed standard housings.
- Membrane properties: hydrophobic, oleophobic.

| Technical Details | | | |
|---|---|---|---|
| Material | Body, Cap | PA 6 (Polyamide 6) | |
| | Sealing | Acrylic co-polymer on nylon-support | |
| | O-Ring | NBR | |
| | Gaskets | NBR (standard for B and J types) | |
| Ingress Protection Rating | | IP 68 / IP 67 (for water intrusion pressure 0.1 bar) | |
| | | IP 69K (only for J and D types) | |
| Flammability | | V2 according to UL94 | |
| Operating Temperature | | Permanent | Intermittent |
| | | -20 °C to +100 °C | -30 °C to +150 °C |
| Thread Type | | • Metric EN 60423<br>• Without thread | |
| Accessories | | • Lock nuts<br>• Gaskets | |
| Remarks | | • We recommend the use of lock nuts and gaskets to ensure IP rating for rough surfaces or through holes.<br>• Same approvals do not cover all colors or sizes. | |

| Approvals | Certificate Number | Standards |
|---|---|---|
| UL | E542804 | CAN/CSA C22.2 No. 14-2010 |
| TYPE 4X | | |

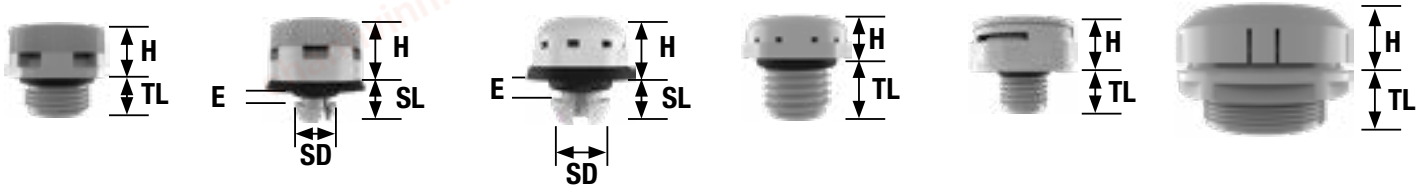
For more approvals: see our webpage.











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# VENTILATION PLUGS, POLYAMIDE

## Thread Type Metric Acc. to EN 60423

| Outer Thread Size (Male) | Average Air Flow (ΔP = 70 mbar/1 psi) l/h | Water Intrusion Pressure mbar | Outer Thread Length TL (mm) | Spanner Width SW (mm) | Outer Ø D (mm) | Height H (mm) | Design Type | Part Number RAL 7035 Light Gray | Part Number RAL 7001 Gray | Part Number RAL 9005 Black |
|---|---|---|---|---|---|---|---|---|---|---|
| M6x0.75 | 8 | 0.5 | 10.0 | 10.0 | 11.0 | 6.15 | D | AIO-MBCSVPG-11 | AIO-MBCSVPG-01 | AIO-MBCSVPG-21 |
| M8x1.0 | 15 | 0.5 | 10.0 | 12.0 | 13.0 | 6.15 | D | AIO-MBCSVPG-12 | AIO-MBCSVPG-02 | AIO-MBCSVPG-22 |
| M12x1.0 | 16 | 0.9 | 6.6 | 17.0 | 18.5 | 7.6 | A | AIO-SBCSVPA-11 | AIO-SBCSVPA-01 | AIO-SBCSVPA-21 |
| | 25 | 0.5 | 6.6 | 17.0 | 18.5 | 7.6 | A | AIO-MBCSVPA-11 | AIO-MBCSVPA-01 | AIO-MBCSVPA-21 |
| | 120 | 0.2 | 6.6 | 17.0 | 18.5 | 7.6 | A | AIO-HBCSVPA-11 | AIO-HBCSVPA-01 | AIO-HBCSVPA-21 |
| | 300 | 0.1 | 6.6 | 17.0 | 18.5 | 7.6 | A | AIO-UHBCSVPA-11 | AIO-UHBCSVPA-01 | AIO-UHBCSVPA-21 |
| M12x1.5 | 25 | 0.5 | 10.0 | 17.0 | 18.8 | 6.15 | D | AIO-MBCSVPG-13 | AIO-MBCSVPG-03 | AIO-MBCSVPG-23 |
| | 16 | 0.9 | 6.0 | 17.0 | 18.5 | 7.6 | A | AIO-SBCSVPB-11 | AIO-SBCSVPB-01 | AIO-SBCSVPB-21 |
| | 16 | 0.9 | 10.0 | 17.0 | 18.5 | 7.6 | A | AIO-SBCSVPB-11L | AIO-SBCSVPB-01L | AIO-SBCSVPB-21L |
| | 25 | 0.5 | 6.0 | 17.0 | 18.5 | 7.6 | A | AIO-MBCSVPB-11 | AIO-MBCSVPB-01 | AIO-MBCSVPB-21 |
| | 25 | 0.5 | 10.0 | 17.0 | 18.5 | 7.6 | A | AIO-MBCSVPB-11L | AIO-MBCSVPB-01L | AIO-MBCSVPB-21L |
| | 42 | 0.9 | 10.0 | 24.0 | 26.0 | 11.7 | E | AIO-SBCSVPD-11 | AIO-SBCSVPD-01 | AIO-SBCSVPD-21 |
| | 120 | 0.5 | 10.0 | 24.0 | 26.0 | 11.7 | E | AIO-MBCSVPD-11 | AIO-MBCSVPD-01 | AIO-MBCSVPD-21 |
| | 120 | 0.2 | 6.0 | 17.0 | 18.5 | 7.6 | A | AIO-HBCSVPB-11 | AIO-HBCSVPB-01 | AIO-HBCSVPB-21 |
| | 120 | 0.2 | 10.0 | 17.0 | 18.5 | 7.6 | A | AIO-HBCSVPB-11L | AIO-HBCSVPB-01L | AIO-HBCSVPB-21L |
| | 300 | 0.1 | 6.0 | 17.0 | 18.5 | 7.6 | A | AIO-UHBCSVPB-11 | AIO-UHBCSVPB-01 | AIO-UHBCSVPB-21 |
| | 300 | 0.1 | 10.0 | 17.0 | 18.5 | 7.6 | A | AIO-UHBCSVPB-11L | AIO-UHBCSVPB-01L | AIO-UHBCSVPB-21L |
| | 450 | 0.2 | 10.0 | 24.0 | 26.0 | 11.7 | E | AIO-HBCSVPD-11 | AIO-HBCSVPD-01 | AIO-HBCSVPD-21 |
| | 750 | 0.1 | 10.0 | 24.0 | 26.0 | 11.7 | E | AIO-UHBCSVPD-11 | AIO-UHBCSVPD-01 | AIO-UHBCSVPD-21 |
| M16x1.5 | 42 | 0.9 | 10.0 | 24.0 | 26.0 | 11.7 | E | AIO-SBCSVPF-11 | AIO-SBCSVPF-01 | AIO-SBCSVPF-21 |
| | 120 | 0.5 | 10.0 | 24.0 | 26.0 | 11.7 | E | AIO-MBCSVPF-11 | AIO-MBCSVPF-01 | AIO-MBCSVPF-21 |
| | 450 | 0.2 | 10.0 | 24.0 | 26.0 | 11.7 | E | AIO-HBCSVPF-11 | AIO-HBCSVPF-01 | AIO-HBCSVPF-21 |
| | 750 | 0.1 | 10.0 | 24.0 | 26.0 | 11.7 | E | AIO-UHBCSVPF-11 | AIO-UHBCSVPF-01 | AIO-UHBCSVPF-21 |
| M20x1.5 | 42 | 0.9 | 10.0 | 24.0 | 26.0 | 11.7 | E | AIO-SBCSVPE-11 | AIO-SBCSVPE-01 | AIO-SBCSVPE-21 |
| | 120 | 0.5 | 10.0 | 24.0 | 26.0 | 11.7 | E | AIO-MBCSVPE-11 | AIO-MBCSVPE-01 | AIO-MBCSVPE-21 |
| | 450 | 0.2 | 10.0 | 24.0 | 26.0 | 11.7 | E | AIO-HBCSVPE-11 | AIO-HBCSVPE-01 | AIO-HBCSVPE-21 |
| | 750 | 0.1 | 10.0 | 24.0 | 26.0 | 11.7 | E | AIO-UHBCSVPE-11 | AIO-UHBCSVPE-01 | AIO-UHBCSVPE-21 |
| M40x1.5 | 120 | 0.9 | 18.0 | - | 55.3 | 15.5 | F | AIO-SBCSVPX-18S | AIO-SBCSVPX-08S | AIO-SBCSVPX-28S |
| | 375 | 0.5 | 18.0 | - | 55.3 | 15.5 | F | AIO-MBCSVPX-18S | AIO-MBCSVPX-08S | AIO-MBCSVPX-28S |
| | 1350 | 0.2 | 18.0 | - | 55.3 | 15.5 | F | AIO-HBCSVPX-18S | AIO-HBCSVPX-08S | AIO-HBCSVPX-28S |
| | 2200 | 0.1 | 18.0 | - | 55.3 | 15.5 | F | AIO-UHBCSVPX-18S | AIO-UHBCSVPX-08S | AIO-UHBCSVPX-28S |

## Wall Thickness (E): 2.5mm

| Snap Size | Average Air Flow (ΔP = 70 mbar/1 psi) l/h | Water Intrusion Pressure bar | Snap Length SL (mm) | Snap Ø SD (mm) | Outer Ø D (mm) | Spanner Width (mm) | Height H (mm) | Design Type | Part Number RAL 7035 Light Gray | Part Number RAL 7001 Gray | Part Number RAL 9005 Black |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.5 | 16 | 0.9 | 7.5 | 5.4 | 18.5 | - | 9.3 | B | AIO-SBCSVQ-M11 | AIO-SBCSVQ-M01 | AIO-SBCSVQ-M21 |
| | 25 | 0.5 | 7.5 | 5.4 | 18.5 | - | 9.3 | B | AIO-MBCSVQ-M11 | AIO-MBCSVQ-M01 | AIO-MBCSVQ-M21 |
| | 120 | 0.2 | 7.5 | 5.4 | 18.5 | - | 9.3 | B | AIO-HBCSVQ-M11 | AIO-HBCSVQ-M01 | AIO-HBCSVQ-M21 |
| | 300 | 0.1 | 7.5 | 5.4 | 18.5 | - | 9.3 | B | AIO-UHBCSVQ-M11 | AIO-UHBCSVQ-M01 | AIO-UHBCSVQ-M21 |

## Wall Thickness (E): 3.2 mm

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.5 | 15 | 0.5 | 7.5 | 5.4 | 18.5 | 12 | 6.5 | J | AIO-MBCSVPGQ-12 | AIO-MBCSVPGQ-02 | AIO-MBCSVPGQ-22 |
| | 25 | 0.5 | 7.5 | 5.4 | 18.5 | 17 | 6.5 | J | AIO-MBCSVPGQ-13 | AIO-MBCSVPGQ-03 | AIO-MBCSVPGQ-23 |

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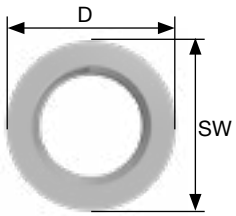


# LOCK NUTS, POLYAMIDE

## Lock Nuts, Flanged

- For standard industrial applications.
- Safe fastening of cable glands.
- Flanged design offers safe sealing.






| Technical Details | | |
|---|---|---|
| Material | PA 6 GF (Polyamide 6, 30% Glass Fiber Reinforced) | |
| Flammability | HB according to UL94 | |
| Operating Temperature | Permanent | Intermittend |
| | -20 °C to +100 °C | -30 °C to +150 °C |
| Thread Type | • Metric EN 60423<br>• NPS ANSI B1.20.1<br>• PG DIN 40430<br>• Gas ISO 228 | |

## Lock Nut for Metric Applications Acc. to EN 604 Lock N 23

| Inner Thread Size (Female) | Spanner Width (mm) | Outer Ø D (mm) | Height h (mm) | Part Number RAL 7035 Light Gray | RAL 7001 Gray | RAL 9005 Black |
|---|---|---|---|---|---|---|
| M12x1.5 | 18 | 19.5 | 5.0 | AIO-BMCSL-1S | AIO-BMCSL-0S | AIO-BMCSL-2S |
| M16x1.5 | 22 | 24.2 | 5.0 | AIO-BMCSL-11 | AIO-BMCSL-01 | AIO-BMCSL-21 |
| M20x1.5 | 26 | 28.6 | 6.0 | AIO-BMCSL-12 | AIO-BMCSL-02 | AIO-BMCSL-22 |
| M25x1.5 | 32 | 35.0 | 6.0 | AIO-BMCSL-13 | AIO-BMCSL-03 | AIO-BMCSL-23 |
| M32x1.5 | 41 | 46.1 | 7.0 | AIO-BMCSL-14 | AIO-BMCSL-04 | AIO-BMCSL-24 |
| M40x1.5 | 50 | 55.3 | 7.0 | AIO-BMCSL-15 | AIO-BMCSL-05 | AIO-BMCSL-25 |
| M50x1.5 | 60 | 65.7 | 8.0 | AIO-BMCSL-16 | AIO-BMCSL-06 | AIO-BMCSL-26 |
| M63x1.5 | 75 | 82.5 | 8.0 | AIO-BMCSL-17 | AIO-BMCSL-07 | AIO-BMCSL-27 |
| M75x2.0 | 85 | 94.0 | 15.0 | AIO-BMCSL-18 | AIO-BMCSL-08 | AIO-BMCSL-28 |

## Lock Nut for NPT Applications Acc. to ANSI B1.20.1

| Inner Thread Size (Female) | Spanner Width (mm) | Outer Ø D (mm) | Height h (mm) | Part Number RAL 7035 Light Gray | RAL 7001 Gray | RAL 9005 Black |
|---|---|---|---|---|---|---|
| for NPT 3/8" | 22 | 25.0 | 7.0 | AIO-BPCSL-11 | AIO-BPCSL-01 | AIO-BPCSL-21 |
| for NPT 1/2" | 27 | 30.5 | 7.0 | AIO-BPCSL-12 | AIO-BPCSL-02 | AIO-BPCSL-22 |
| for NPT 3/4" | 33 | 37.5 | 7.0 | AIO-BPCSL-13 | AIO-BPCSL-03 | AIO-BPCSL-23 |
| for NPT 1" | 41 | 46.2 | 7.0 | AIO-BPCSL-14 | AIO-BPCSL-04 | AIO-BPCSL-24 |

## Lock Nut for PG Applications Acc. to DIN 40430

| Inner Thread Size (Female) | Spanner Width (mm) | Outer Ø D (mm) | Height h (mm) | Part Number RAL 7035 Light Gray | RAL 7001 Gray | RAL 9005 Black |
|---|---|---|---|---|---|---|
| PG 7 | 19 | 20.9 | 5.0 | AIO-BLCS-11 | AIO-BLCS-01 | AIO-BLCS-21 |
| PG 9 | 22 | 23.9 | 5.0 | AIO-BLCS-12 | AIO-BLCS-02 | AIO-BLCS-22 |
| PG 11 | 24 | 25.9 | 5.0 | AIO-BLCS-13 | AIO-BLCS-03 | AIO-BLCS-23 |
| PG 13.5 | 27 | 28.9 | 6.0 | AIO-BLCS-14 | AIO-BLCS-04 | AIO-BLCS-24 |
| PG 16 | 30 | 32.9 | 6.0 | AIO-BLCS-15 | AIO-BLCS-05 | AIO-BLCS-25 |
| PG 21 | 36 | 38.8 | 7.0 | AIO-BLCS-16 | AIO-BLCS-06 | AIO-BLCS-26 |
| PG 29 | 46 | 49.8 | 7.0 | AIO-BLCS-17 | AIO-BLCS-07 | AIO-BLCS-27 |
| PG 36 | 60 | 65.7 | 8.0 | AIO-BLCS-18 | AIO-BLCS-08 | AIO-BLCS-28 |
| PG 42 | 65 | 72.7 | 8.0 | AIO-BLCS-19 | AIO-BLCS-09 | AIO-BLCS-29 |
| PG 48 | 70 | 77.7 | 8.0 | AIO-BLCS-20 | AIO-BLCS-10 | AIO-BLCS-30 |

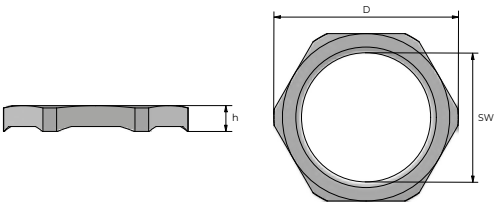
## Lock Nut for G Applications Acc. to G ISO 228

| Inner Thread Size (Female) | Spanner Width (mm) | Outer Ø D (mm) | Height h (mm) | Part Number RAL 7035 Light Gray | RAL 7001 Gray | RAL 9005 Black |
|---|---|---|---|---|---|---|
| G 3/8" | 22 | 25.0 | 6.0 | AIO-BFCSL-11 | AIO-BFCSL-01 | AIO-BFCSL-21 |
| G 1/2" | 27 | 30.5 | 6.0 | AIO-BFCSL-12 | AIO-BFCSL-02 | AIO-BFCSL-22 |
| G 3/4" | 33 | 37.5 | 6.4 | AIO-BFCSL-13 | AIO-BFCSL-03 | AIO-BFCSL-23 |
| 1" | 42 | 47.5 | 6.5 | AIO-BFCSL-14 | AIO-BFCSL-04 | AIO-BFCSL-24 |

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# LOCK NUTS, METAL






## Lock Nuts, Metal

- For standard industrial applications in harsh environments.
- Safe fastening of cable glands.

| Technical Details | |
|---|---|
| Material | Brass Nickel plated, Stainless Steel |
| Thread Type | • Metric EN 60423<br>• NPSL ANSI B1.20.1<br>• PG DIN 40430<br>• G (PF) Din ISO 228 |

## Thread Type Metric Acc. to EN 60423

| Inner Thread Size (Female) | Brass Nickel Plated | | | | Stainless Steel | | | |
|---|---|---|---|---|---|---|---|---|
| | Spanner Width | Outer Ø | Height | | Spanner Width | Outer Ø | Height | |
| | (mm) | D (mm) | H (mm) | Part Number | (mm) | D (mm) | H (mm) | Part Number |
| M12x1.5 | 15 | 16.6 | 2.8 | AIO-BMCSBL-01 | 15 | 16.6 | 2.8 | AIO-BMCSBLS-01 |
| M16x1.5 | 19 | 21.0 | 3.0 | AIO-BMCSBL-02 | 19 | 21.0 | 3.0 | AIO-BMCSBLS-02 |
| M20x1.5 | 24 | 26.5 | 3.5 | AIO-BMCSBL-03 | 24 | 26.5 | 3.5 | AIO-BMCSBLS-03 |
| M25x1.5 | 30 | 33.0 | 4.0 | AIO-BMCSBL-04 | 30 | 33.0 | 4.0 | AIO-BMCSBLS-04 |
| M32x1.5 | 36 | 39.5 | 5.0 | AIO-BMCSBL-05 | 36 | 39.5 | 5.0 | AIO-BMCSBLS-05 |
| M40x1.5 | 46 | 51.0 | 5.0 | AIO-BMCSBL-06 | 46 | 51.0 | 5.0 | AIO-BMCSBLS-06 |
| M50x1.5 | 60 | 66.0 | 5.0 | AIO-BMCSBL-07 | 60 | 66.0 | 5.0 | AIO-BMCSBLS-07 |
| M63x1.5 | 70 | 77.0 | 6.0 | AIO-BMCSBL-08 | 70 | 77.0 | 6.0 | AIO-BMCSBLS-08 |
| M70x1.5 | 75 | 83.0 | 7.0 | AIO-BMCSBL-09S | 75 | 83.0 | 7.0 | AIO-BMCSBLS-09S |
| M72x2.0 | 77 | 86.0 | 7.0 | AIO-BMCSBL-09 | 77 | 86.0 | 7.0 | AIO-BMCSBLS-09 |
| M75x1.5 | 80 | 89.0 | 7.0 | AIO-BMCSBL-10S | 80 | 89.0 | 7.0 | AIO-BMCSBLS-10S |
| M75x2.0 | 80 | 89.6 | 7.0 | AIO-BMCSBL-10 | 80 | 89.6 | 7.0 | AIO-BMCSBLS-10 |
| M80x2.0 | 90 | 100.0 | 8.0 | AIO-BMCSBL-11 | 90 | 100.0 | 8.0 | AIO-BMCSBLS-11 |
| M85x1.5 | 95 | 106.2 | 8.0 | AIO-BMCSBL-12S | 95 | 106.2 | 8.0 | AIO-BMCSBLS-12S |
| M85x2.0 | 95 | 106.2 | 8.0 | AIO-BMCSBL-12 | 95 | 106.2 | 8.0 | AIO-BMCSBLS-12 |
| M90x1.5 | 100 | 112.0 | 8.0 | AIO-BMCSBL-13S | 100 | 112.0 | 8.0 | AIO-BMCSBLS-13S |
| M90x2.0 | 100 | 112.0 | 8.0 | AIO-BMCSBL-13 | 100 | 112.0 | 8.0 | AIO-BMCSBLS-13 |
| M100x1.5 | 120 | 128.0 | 10.0 | AIO-BMCSBL-14 | 120 | 128.0 | 10.0 | AIO-BMCSBLS-14 |
| M110x1.5 | 130 | 145.0 | 10.0 | AIO-BMCSBL-15 | 130 | 145.0 | 10.0 | AIO-BMCSBLS-15 |
| M115x2.0 | 135 | 151.0 | 10.0 | AIO-BMCSBL-16 | 135 | 151.0 | 10.0 | AIO-BMCSBLS-16 |
| M130x2.0 | 150 | 167.0 | 12.0 | AIO-BMCSBL-18 | 150 | 167.0 | 12.0 | AIO-BMCSBLS-18 |

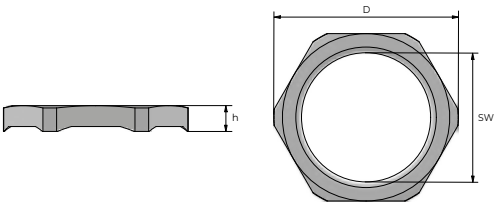
## Thread Type NPSL Acc. to ANSI B1.20.1

| Inner Thread Size (Female) | Brass Nickel Plated | | | | Stainless Steel | | | |
|---|---|---|---|---|---|---|---|---|
| | Spanner Width | Outer Ø | Height | | Spanner Width | Outer Ø | Height | |
| | (mm) | D (mm) | H (mm) | Part Number | (mm) | D (mm) | H (mm) | Part Number |
| NPSL 1/4" | 17.0 | 18.8 | 5.0 | AIO-BNCSLN-01S | 17.0 | 18.8 | 5.0 | AIO-BNCSLNS-01S |
| NPSL 3/8" | 24.0 | 26.5 | 5.0 | AIO-BNCSLN-01 | 24.0 | 26.5 | 5.0 | AIO-BNCSLNS-01 |
| NPSL 1/2" | 24.0 | 26.5 | 5.0 | AIO-BNCSLN-02 | 24.0 | 26.5 | 5.0 | AIO-BNCSLNS-02 |
| NPSL 3/4" | 34.0 | 37.5 | 6.0 | AIO-BNCSLN-03 | 35.0 | 39.0 | 6.0 | AIO-BNCSLNS-03 |
| NPSL 1" | 42.0 | 46.4 | 6.0 | AIO-BNCSLN-04 | 46.0 | 51.0 | 6.0 | AIO-BNCSLNS-04 |
| NPSL 1 1/4" | 52.0 | 57.4 | 7.0 | AIO-BNCSLN-05 | 55.0 | 61.0 | 7.0 | AIO-BNCSLNS-05 |
| NPSL 1 1/2" | 60.0 | 65.1 | 7.0 | AIO-BNCSLN-06 | 60.0 | 65.1 | 7.0 | AIO-BNCSLNS-06 |
| NPSL 2" | 74.0 | 81.8 | 8.0 | AIO-BNCSLN-07 | 74.0 | 81.8 | 8.0 | AIO-BNCSLNS-07 |
| NPSL 2 1/2" | 80.0 | 89.0 | 10.0 | AIO-BNCSLN-08 | 80.0 | 89.0 | 10.0 | AIO-BNCSLNS-08 |
| NPSL 3" | 95.0 | 105.0 | 10.0 | AIO-BNCSLN-09 | 95.0 | 105.0 | 10.0 | AIO-BNCSLNS-09 |
| NPSL 3 1/2" | 115.0 | 128.5 | 10.0 | AIO-BNCSLN-10 | 115.0 | 128.5 | 10.0 | AIO-BNCSLNS-10 |
| NPSL 4" | 130.0 | 145.0 | 10.0 | AIO-BNCSLN-11 | 130.0 | 145.0 | 10.0 | AIO-BNCSLNS-11 |
| NPSL 5" | 160.0 | 178.5 | 12.0 | AIO-BNCSLN-12 | 160.0 | 178.5 | 12.0 | AIO-BNCSLNS-12 |

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# LOCK NUTS, METAL






## Lock Nuts, Metal

- For standard industrial applications in harsh environments.
- Safe fastening of cable glands.

| Technical Details | |
|---|---|
| Material | Brass Nickel plated, Stainless Steel |
| Thread Type | • Metric EN 60423<br>• NPSL ANSI B1.20.1<br>• PG DIN 40430<br>• G (PF) Din ISO 228 |

## Thread Type PG Acc. to DIN 40430

| Inner Thread Size (Female) | Brass Nickel Plated | | | | Stainless Steel | | | |
|---|---|---|---|---|---|---|---|---|
| | Spanner Width (mm) | Outer Ø D (mm) | Height H (mm) | Part Number | Spanner Width (mm) | Outer Ø D (mm) | Height H (mm) | Part Number |
| PG 7 | 15 | 16.6 | 2.8 | AIO-BSCSL-01 | 17 | 18.6 | 2.8 | AIO-BSCSLS-01 |
| PG 9 | 18 | 20.0 | 2.8 | AIO-BSCSL-02 | 19 | 21.0 | 2.8 | AIO-BSCSLS-02 |
| PG 11 | 21 | 23.5 | 3.0 | AIO-BSCSL-03 | 22 | 24.5 | 3.0 | AIO-BSCSLS-03 |
| PG 13.5 | 23 | 25.5 | 3.0 | AIO-BSCSL-04 | 24 | 26.5 | 3.0 | AIO-BSCSLS-04 |
| PG 16 | 26 | 29.0 | 3.0 | AIO-BSCSL-05 | 27 | 30.0 | 3.0 | AIO-BSCSLS-05 |
| PG 21 | 32 | 35.5 | 3.5 | AIO-BSCSL-06 | 32 | 35.5 | 3.5 | AIO-BSCSLS-06 |
| PG 29 | 41 | 45.0 | 4.0 | AIO-BSCSL-07 | 41 | 45.0 | 4.0 | AIO-BSCSLS-07 |
| PG 36 | 51 | 56.0 | 5.0 | AIO-BSCSL-08 | 60 | 66.0 | 5.0 | AIO-BSCSLS-08 |
| PG 42 | 60 | 66.0 | 5.0 | AIO-BSCSL-09 | 60 | 66.0 | 5.0 | AIO-BSCSLS-09 |
| PG 48 | 64 | 70.5 | 5.5 | AIO-BSCSL-10 | 65 | 71.5 | 5.5 | AIO-BSCSLS-10 |

## Thread Type G Acc. to DIN ISO 228

| Inner Thread Size (Female) | Brass Nickel Plated | | | | Stainless Steel | | | |
|---|---|---|---|---|---|---|---|---|
| | Spanner Width (mm) | Outer Ø D (mm) | Height H (mm) | Part Number | Spanner Width (mm) | Outer Ø D (mm) | Height H (mm) | Part Number |
| G 3/8" | 22 | 24.5 | 5.0 | AIO-BPCSFL-01 | 22 | 24.5 | 5.0 | AIO-BPCSFLS-01 |
| G 1/2" | 27 | 30.0 | 5.0 | AIO-BPCSFL-02 | 27 | 30.0 | 5.0 | AIO-BPCSFLS-02 |
| G 3/4" | 33 | 36.5 | 5.0 | AIO-BPCSFL-03 | 36 | 39.5 | 5.0 | AIO-BPCSFLS-03 |
| G 1" | 43 | 46.5 | 5.0 | AIO-BPCSFL-04 | 46 | 51.0 | 5.0 | AIO-BPCSFLS-04 |
| G 1 1/4" | 48 | 53.0 | 5.0 | AIO-BPCSFL-05 | 50 | 55.5 | 5.0 | AIO-BPCSFLS-05 |
| G 1 1/2" | 55 | 61.0 | 5.0 | AIO-BPCSFL-06 | 55 | 61.0 | 5.0 | AIO-BPCSFLS-06 |
| G 2" | 64 | 70.5 | 5.5 | AIO-BPCSFL-07 | 65 | 71.5 | 5.5 | AIO-BPCSFLS-07 |
| G 4" | 130 | 145.0 | 8.0 | AIO-BPCSFL-11 | 130 | 145.0 | 8.0 | AIO-BPCSFLS-11 |

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# MULTIHOLE SEALS






## Multihole Seals

- To use a number of small cables in one cable gland.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

### Technical Details

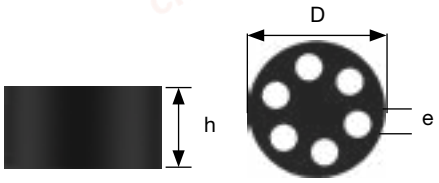
| | |
|---|---|
| Material | • CR (Chloroprene)<br>• NBR<br>• Silicone<br>• EPDM |

| Replaced Standard Seal | | No. of Cores | Core Ø | Outer Ø Height | | Part Number | |
|---|---|---|---|---|---|---|---|
| #1 Ø min-max (mm) | #2 Ø min-max (mm) | n | e (mm) | D (mm) | h (mm) | CR Black | NBR Black |
| 4.0-8.0 | 2.0-6.0 | 2 | 3.0 | 10.9 | 7.0 | AIO-MMSCS-012C | AIO-MMSCS-012N |
| | | | 4.0 | 10.9 | 7.0 | AIO-MMSCS-011C | AIO-MMSCS-011N |
| | | 4 | 3.0 | 10.9 | 7.0 | AIO-MMSCS-013C | AIO-MMSCS-013N |
| 5.0-10.0 | 3.0-7.0 | 2 | 3.0 | 13.7 | 10.4 | AIO-MMSCS-017C | AIO-MMSCS-017N |
| | | | 4.0 | 13.7 | 10.4 | AIO-MMSCS-014C | AIO-MMSCS-014N |
| | | | 4.5 | 13.7 | 10.4 | AIO-MMSCS-015C | AIO-MMSCS-015N |
| | | | 5.0 | 13.7 | 10.4 | AIO-MMSCS-018C | AIO-MMSCS-018N |
| | | 3 | 4.0 | 13.7 | 10.4 | AIO-MMSCS-019C | AIO-MMSCS-019N |
| 6.0-12.0 | 5.0-9.0 | 2 | 1x4.7-1x6.6 | 16.0 | 8.0 | AIO-MMSCS-02M1C | AIO-MMSCS-02M1N |
| | | | 5.0 | 16.0 | 8.4 | AIO-MMSCS-025C | AIO-MMSCS-025N |
| | | | 6.0 | 16.0 | 8.4 | AIO-MMSCS-021C | AIO-MMSCS-021N |
| | | 3 | 4.0 | 16.0 | 8.4 | AIO-MMSCS-022C | AIO-MMSCS-022N |
| | | | 5.0 | 16.0 | 8.4 | AIO-MMSCS-023C | AIO-MMSCS-023N |
| | | 4 | 3.0 | 16.0 | 8.4 | AIO-MMSCS-024C | AIO-MMSCS-024N |
| | | | 4.0 | 16.0 | 8.4 | AIO-MMSCS-026C | AIO-MMSCS-026N |
| 10.0-14.0 | 7.0-12.0 | 2 | 1x6.8-1x7.8 | 18.0 | 9.3 | AIO-MMSCS-02LC | AIO-MMSCS-02LN |
| | | | 4.0 | 18.0 | 9.3 | AIO-MMSCS-02AC | AIO-MMSCS-02AN |
| | | | 6.0 | 18.0 | 9.3 | AIO-MMSCS-02CC | AIO-MMSCS-02CN |
| | | | 6.5 | 18.0 | 9.3 | AIO-MMSCS-02GC | AIO-MMSCS-02GN |
| | | | 7.0 | 18.0 | 9.3 | AIO-MMSCS-28C | AIO-MMSCS-028N |
| | | 3 | 2x7.0-1x4.0 | 18.0 | 9.3 | AIO-MMSCS-02HC | AIO-MMSCS-02HN |
| | | | 4.0 | 18.0 | 9.3 | AIO-MMSCS-029C | AIO-MMSCS-029N |
| | | | 5.6 | 18.0 | 9.3 | AIO-MMSCS-02JC | AIO-MMSCS-02JN |
| | | | 6.0 | 18.0 | 9.3 | AIO-MMSCS-02DC | AIO-MMSCS-02DN |
| | | 4 | 5.0 | 18.0 | 9.3 | AIO-MMSCS-02BC | AIO-MMSCS-02BN |
| | | | 6.0 | 18.0 | 9.3 | AIO-MMSCS-02KC | AIO-MMSCS-02KN |
| | | 5 | 4.0 | 18.0 | 9.3 | AIO-MMSCS-02EC | AIO-MMSCS-02EN |
| | | 6 | 4.0 | 18.0 | 9.3 | AIO-MMSCS-02MC | AIO-MMSCS-02MN |
| 11.0-17.0 | 9.0-13.0 | 2 | 6.0 | 20.4 | 10.7 | AIO-MMSCS-03CC | AIO-MMSCS-03CN |
| | | 3 | 5.0 | 20.4 | 10.7 | AIO-MMSCS-03EC | AIO-MMSCS-03EN |
| | | | 6.0 | 20.4 | 10.7 | AIO-MMSCS-03DC | AIO-MMSCS-03DN |
| | | | 7.0 | 20.4 | 10.7 | AIO-MMSCS-03FC | AIO-MMSCS-03FN |
| | | 4 | 5.0 | 20.4 | 10.7 | AIO-MMSCS-03GC | AIO-MMSCS-03GN |
| | | 5 | 4.0 | 20.4 | 10.7 | AIO-MMSCS-03HC | AIO-MMSCS-03HN |
| | | 6 | 4.0 | 20.4 | 10.7 | AIO-MMSCS-03IC | AIO-MMSCS-03IN |
| | | 7 | 3.0 | 20.4 | 10.7 | AIO-MMSCS-03JC | AIO-MMSCS-03JN |
| 13.0-18.0 | 9.0-16.0 | 2 | 6.6 | 22.9 | 12.2 | AIO-MMSCS-032C | AIO-MMSCS-032N |
| | | | 7.0 | 22.9 | 12.2 | AIO-MMSCS-033C | AIO-MMSCS-033N |
| | | | 8.0 | 22.9 | 12.2 | AIO-MMSCS-034C | AIO-MMSCS-034N |
| | | | 9.0 | 22.9 | 12.2 | AIO-MMSCS-035C | AIO-MMSCS-035N |
| | | 3 | 6.6 | 22.9 | 12.2 | AIO-MMSCS-036AC | AIO-MMSCS-036AN |
| | | | 7.0 | 22.9 | 12.2 | AIO-MMSCS-03BC | AIO-MMSCS-03BN |
| | | | 8.0 | 22.9 | 12.2 | AIO-MMSCS-037C | AIO-MMSCS-037N |
| | | 4 | 6.6 | 22.9 | 12.2 | AIO-MMSCS-039C | AIO-MMSCS-039N |
| | | | 7.0 | 22.9 | 12.2 | AIO-MMSCS-039AC | AIO-MMSCS-039AN |
| | | 8 | 4x2.0-2x4.0-2x6.0 | 22.9 | 12.2 | AIO-MMSCS-039DC | AIO-MMSCS-039DN |

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# MULTIHOLE SEALS






## Multihole Seals

- To use a number of small cables in one cable gland.
- High quality strain relief and sealing, reliable performance for standard industrial applications.

**Technical Details**

| | |
|---|---|
| Material | • CR (Chloroprene)<br>• NBR<br>• Silicone<br>• EPDM |

| Replaced Standard Seal | | No. of Cores | Core Ø | Outer Ø | Height | Part Number | |
|---|---|---|---|---|---|---|---|
| #1 Ø min-max | #2 Ø min-max (mm) | n (mm) | e (mm) | D (mm) | h (mm) | CR Black | NBR Black |
| 15.0-21.0 | 11.0-15.0 | 2 | 7.0 | 25.4 | 14.2 | AIO-MMSCS-04CC | AIO-MMSCS-04CN |
| | | | 8.0 | | | AIO-MMSCS-04AC | AIO-MMSCS-04AN |
| | | | 9.0 | | | AIO-MMSCS-04DC | AIO-MMSCS-04DN |
| | | 3 | 8.0 | | | AIO-MMSCS-04BC | AIO-MMSCS-04BN |
| | | | 2x9.0-1x6.2 | | | AIO-MMSCS-043AC | AIO-MMSCS-043AN |
| | | 4 | 6.0 | | | AIO-MMSCS-04HC | AIO-MMSCS-04HN |
| | | | 7.0 | | | AIO-MMSCS-04IC | AIO-MMSCS-04IN |
| | | | 8.0 | | | AIO-MMSCS-04EC | AIO-MMSCS-04EN |
| | | 5 | 6.0 | | | AIO-MMSCS-04FC | AIO-MMSCS-04FN |
| | | 6 | 5.0 | | | AIO-MMSCS-04JC | AIO-MMSCS-04JN |
| | | | 6.0 | | | AIO-MMSCS-04KC | AIO-MMSCS-04KN |
| | | 8 | 4.0 | | | AIO-MMSCS-04MC | AIO-MMSCS-04MN |
| | | | 5.0 | | | AIO-MMSCS-04NC | AIO-MMSCS-04NN |
| | | 9 | 3.0 | | | AIO-MMSCS-04LC | AIO-MMSCS-04LN |
| | | | 4.0 | | | AIO-MMSCS-040C | AIO-MMSCS-040N |
| 18.0-25.0 | 12.0-20.0 | 2 | 8.0 | 30.4 | 14.0 | AIO-MMSCS-041C | AIO-MMSCS-041N |
| | | | 9.0 | | | AIO-MMSCS-042C | AIO-MMSCS-042N |
| | | 3 | 7.5 | | | AIO-MMSCS-043C | AIO-MMSCS-043N |
| | | 4 | 8.0 | | | AIO-MMSCS-045C | AIO-MMSCS-045N |
| | | 5 | 8.5 | | | AIO-MMSCS-046C | AIO-MMSCS-046N |
| | | | 3x4.9-2x4.2 | | | AIO-MMSCS-046AC | AIO-MMSCS-046AN |
| | | 6 | 5.0 | | | AIO-MMSCS-049C | AIO-MMSCS-049N |
| | | | 6.0 | | | AIO-MMSCS-047C | AIO-MMSCS-047N |
| | | | 7.5 | | | AIO-MMSCS-048C | AIO-MMSCS-048N |
| 19.0-28.0 | 16.0-23.0 | 2 | 10.0 | 33.4 | 17.0 | AIO-MMSCS-051C | AIO-MMSCS-051N |
| | | 3 | 10.0 | | | AIO-MMSCS-052C | AIO-MMSCS-052N |
| | | | 2x10.8-1x7.0 | | | AIO-MMSCS-052AC | AIO-MMSCS-052AN |
| | | 4 | 8.0 | | | AIO-MMSCS-053C | AIO-MMSCS-053N |
| | | 5 | 8.0 | | | AIO-MMSCS-054C | AIO-MMSCS-054N |
| | | | 9.0 | | | AIO-MMSCS-055C | AIO-MMSCS-055N |
| | | 6 | 7.0 | | | AIO-MMSCS-056C | AIO-MMSCS-056N |
| | | 8 | 6.0 | | | AIO-MMSCS-057C | AIO-MMSCS-057N |
| | | 9 | 7.0 | | | AIO-MMSCS-058C | AIO-MMSCS-058N |
| | | 10 | 6.0 | | | AIO-MMSCS-059BC | AIO-MMSCS-059BN |
| | | 12 | 5.3 | | | AIO-MMSCS-060AC | AIO-MMSCS-060AN |
| 22.0-32.0 | 20.0-26.0 | 5 | 9.0 | 40.0 | 16.8 | AIO-MMSCS-071C | AIO-MMSCS-071N |
| | | 8 | 8.0 | | | AIO-MMSCS-072C | AIO-MMSCS-072N |
| 30.0-38.0 | 25.0-31.0 | 9 | 6x3.4-2x6.9-1x8.3 | 45.0 | 16.5 | AIO-MMSCS-082C | AIO-MMSCS-082N |
| | | | 6x3.6-1x7.9-1x7.2-1x9.2 | | | AIO-MMSCS-082AC | AIO-MMSCS-082AN |
| | | 11 | 1x7.1-4x6.2-5x5.2-1x10.8 | | | AIO-MMSCS-083C | AIO-MMSCS-083N |
| | | | 5x6.0-5x5.0-1x10.5 | | | AIO-MMSCS-083AC | AIO-MMSCS-083AN |

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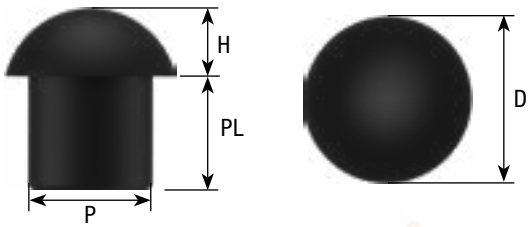
# DOME PLUGS FOR INDUSTRIAL APPLICATIONS

## Plugs for Sealing Cable Insert

- For standard industrial applications.
- Sealing of cable glands when no cable is used.

| Technical Details | | |
|---|---|---|
| Material | PA 6 (Polyamide 6) | |
| Flammability | V2 acc. to UL94 | |
| Operating Temperature | Permanent | Intermittend |
| | -20 °C to +100 °C | -30 °C to +150 °C |






| Size | Plug | | Outer Ø | Max. Height | Dome Plug Fit Into Clamping Range Ø min-max | | | | Part Number | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ø P (mm) | Length PL (mm) | D (mm) | H (mm) | Standard Seal (mm) | Reducing Seal (mm) | Double Seal (mm) | Outer Seal (mm) | RAL 7035 Light Gray | RAL 7001 Gray | RAL 9005 Black |
| 9 | 4.0 | 12.0 | 9.2 | 4.0 | - | 2.0-5.0 | 2.0-6.5 | - | AIO-BDPCS-09-11 | AIO-BDPCS-09-01 | AIO-BDPCS-09-21 |
| | 6.4 | 12.0 | 9.2 | 4.0 | 3.0-6.5 | - | - | 3.0-6.5 | AIO-BDPCS-09-12 | AIO-BDPCS-09-02 | AIO-BDPCS-09-22 |
| 11 | 5.0 | 14.0 | 10.5 | 5.0 | - | 2.0-6.0 | 3.0-8.0 | - | AIO-BDPCS-11-11 | AIO-BDPCS-11-01 | AIO-BDPCS-11-21 |
| | 8.0 | 13.7 | 10.5 | 4.7 | 4.0-8.0 | - | - | 4.0-8.0 | AIO-BDPCS-11-12 | AIO-BDPCS-11-02 | AIO-BDPCS-11-22 |
| 13 | 7.0 | 15.0 | 13.3 | 5.7 | - | 3.0-7.0 | 3.0-10.0 | - | AIO-BDPCS-13-11 | AIO-BDPCS-13-01 | AIO-BDPCS-13-21 |
| | 9.7 | 9.0 | 13.3 | 5.3 | 5.0-10.0 | - | - | 5.0-10.0 | AIO-BDPCS-13-12 | AIO-BDPCS-13-02 | AIO-BDPCS-13-22 |
| | 9.7 | 15.0 | 13.3 | 5.7 | 5.0-10.0 | - | - | 5.0-10.0 | AIO-BDPCS-13-12S | AIO-BDPCS-13-02S | AIO-BDPCS-13-22S |
| 16 | 7.0 | 14.0 | 15.8 | 7.5 | - | - | 3.0-13.0 | - | AIO-BDPCS-16-10 | AIO-BDPCS-16-00 | AIO-BDPCS-16-20 |
| | 8.5 | 13.0 | 15.8 | 7.7 | - | 5.0-9.0 | 5.0-12.0 | - | AIO-BDPCS-16-11 | AIO-BDPCS-16-01 | AIO-BDPCS-16-21 |
| | 12.0 | 13.0 | 15.8 | 8.0 | 6.0-12.0 | - | - | 6.0-12.0 | AIO-BDPCS-16-12 | AIO-BDPCS-16-02 | AIO-BDPCS-16-22 |
| | 13.0 | 14.0 | 15.8 | 7.5 | 7.0-13.0 | - | - | 7.0-13.0 | AIO-BDPCS-16-13 | AIO-BDPCS-16-03 | AIO-BDPCS-16-23 |
| 18 | 11.0 | 13.5 | 18.0 | 8.5 | - | 7.0-12.0 | 7.0-14.0 | - | AIO-BDPCS-18-11 | AIO-BDPCS-18-01 | AIO-BDPCS-18-21 |
| | 13.6 | 13.5 | 18.0 | 8.7 | 10.0-14.0 | - | - | 10.0-14.0 | AIO-BDPCS-18-12 | AIO-BDPCS-18-02 | AIO-BDPCS-18-22 |
| 20 | 13.0 | 14.5 | 20.0 | 7.0 | - | 9.0-13.0 | 8.0-17.0 | - | AIO-BDPCS-20-11 | AIO-BDPCS-20-01 | AIO-BDPCS-20-21 |
| | 16.4 | 14.5 | 19.9 | 7.3 | 11.0-17.0 | - | - | 11.0-17.0 | AIO-BDPCS-20-12 | AIO-BDPCS-20-02 | AIO-BDPCS-20-22 |
| 22 | 14.0 | 14.0 | 22.0 | 9.5 | - | 11.0-15.0 | 9.0-18.0 | - | AIO-BDPCS-22-11 | AIO-BDPCS-22-01 | AIO-BDPCS-22-21 |
| | 17.8 | 14.0 | 22.0 | 10.0 | 13.0-18.0 | - | - | 13.0-18.0 | AIO-BDPCS-22-12 | AIO-BDPCS-22-02 | AIO-BDPCS-22-22 |
| 24 | 16.1 | 15.5 | 24.0 | 9.0 | - | 9.0-16.0 | 11.0-21.0 | - | AIO-BDPCS-24-11 | AIO-BDPCS-24-01 | AIO-BDPCS-24-21 |
| | 20.4 | 15.5 | 24.1 | 9.2 | 15.0-21.0 | - | - | 15.0-21.0 | AIO-BDPCS-24-12 | AIO-BDPCS-24-02 | AIO-BDPCS-24-22 |
| 29 | 19.7 | 15.0 | 28.5 | 9.7 | - | 12.0-20.0 | 13.0-25.0 | - | AIO-BDPCS-29-11 | AIO-BDPCS-29-01 | AIO-BDPCS-29-21 |
| | 25.0 | 15.0 | 28.5 | 9.7 | 18.0-25.0 | - | - | 18.0-25.0 | AIO-BDPCS-29-12 | AIO-BDPCS-29-02 | AIO-BDPCS-29-22 |
| 32 | 20.5 | 15.8 | 31.5 | 9.2 | - | 16.0-23.0 | 16.0-28.0 | - | AIO-BDPCS-32-11 | AIO-BDPCS-32-01 | AIO-BDPCS-32-21 |
| | 27.3 | 15.8 | 31.5 | 9.2 | 19.0-28.0 | - | - | 19.0-28.0 | AIO-BDPCS-32-12 | AIO-BDPCS-32-02 | AIO-BDPCS-32-22 |
| 37 | 25.7 | 17.0 | 36.8 | 10.7 | - | 20.0-26.0 | 20.0-32.0 | - | AIO-BDPCS-37-11 | AIO-BDPCS-37-01 | AIO-BDPCS-37-21 |
| | 31.8 | 17.0 | 36.8 | 10.7 | 22.0-32.0 | - | - | 19.0-28.0 | AIO-BDPCS-37-12 | AIO-BDPCS-37-02 | AIO-BDPCS-37-22 |
| 45 | 30.6 | 20.2 | 43.3 | 11.9 | - | 25.0-31.0 | 21.0-38.0 | - | AIO-BDPCS-45-11 | AIO-BDPCS-45-01 | AIO-BDPCS-45-21 |
| | 38.0 | 20.2 | 43.3 | 11.9 | 30.0-38.0 | - | - | 30.0-38.0 | AIO-BDPCS-45-12 | AIO-BDPCS-45-02 | AIO-BDPCS-45-22 |
| 52 | 34.6 | 22.5 | 51.0 | 16.0 | - | 29.0-35.0 | 27.0-44.0 | - | AIO-BDPCS-52-11 | AIO-BDPCS-52-01 | AIO-BDPCS-52-21 |
| | 44.2 | 22.5 | 51.0 | 16.0 | 34.0-44.0 | - | - | 34.0-44.0 | AIO-BDPCS-52-12 | AIO-BDPCS-52-02 | AIO-BDPCS-52-22 |

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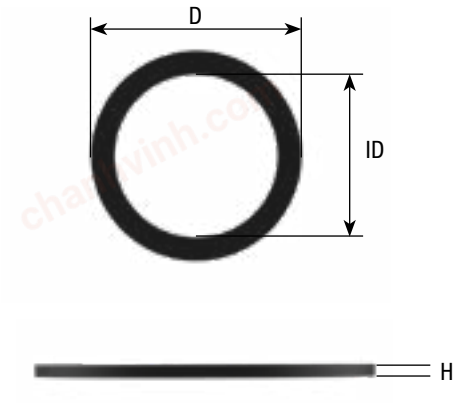
# GASKETS (WASHERS)

## Gaskets

•To ensure IP rating for rough surfaces or through holes.

| Technical Details | |
|---|---|
| Material | • CR (Chloroprene)<br>• NBR<br>• Silicone<br>• Polyamide 6<br>• Fiber |



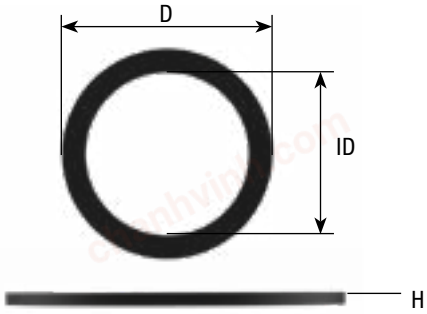



## Gaskets (Washers) for Metric Size

| For Thread Size Metric | Outer Ø D (mm) | Inner Ø ID (mm) | Height H (mm) | Part Number CR Black | NBR Black | Silicone Red | Polyamide White | Green |
|---|---|---|---|---|---|---|---|---|
| M12 | 15.5 | 10.3 | 1.5 | AIO-BMCSSW-21C | AIO-BMCSSW-21N | AIO-BMCSSW-21SR | - | - |
| | 15.5 | 12.1 | 1.5 | - | - | - | AIO-BMCSSW-1PA | AIO-BMCSSW-1FB |
| M16 | 21.5 | 14.3 | 1.5 | AIO-BMCSSW-22C | AIO-BMCSSW-22N | AIO-BMCSSW-22SR | - | - |
| | 19.6 | 16.1 | 1.5 | - | - | - | AIO-BMCSSW-2PA | AIO-BMCSSW-2FB |
| M20 | 26.0 | 18.5 | 1.5 | AIO-BMCSSW-23C | AIO-BMCSSW-23N | AIO-BMCSSW-23SR | - | - |
| | 23.8 | 20.1 | 1.5 | - | - | - | AIO-BMCSSW-3PA | AIO-BMCSSW-3FB |
| M25 | 31.5 | 23.3 | 1.5 | AIO-BMCSSW-24C | AIO-BMCSSW-24N | AIO-BMCSSW-24SR | - | - |
| | 32.2 | 25.1 | 1.5 | - | - | - | AIO-BMCSSW-4PA | AIO-BMCSSW-4FB |
| M32 | 38.5 | 30.5 | 1.5 | AIO-BMCSSW-25C | AIO-BMCSSW-25N | AIO-BMCSSW-25SR | - | - |
| | 39.8 | 32.1 | 1.5 | - | - | - | AIO-BMCSSW-5PA | AIO-BMCSSW-5FB |
| M40 | 48.5 | 38.5 | 1.5 | AIO-BMCSSW-26C | AIO-BMCSSW-26N | AIO-BMCSSW-26SR | - | - |
| | 49.6 | 40.1 | 1.5 | - | - | - | AIO-BMCSSW-6PA | AIO-BMCSSW-6FB |
| M50 | 58.0 | 48.0 | 1.5 | AIO-BMCSSW-27C | AIO-BMCSSW-27N | AIO-BMCSSW-27SR | - | - |
| | 62.0 | 50.2 | 1.5 | - | - | - | AIO-BMCSSW-7PA | AIO-BMCSSW-7FB |
| M60 | 68.0 | 58.0 | 1.5 | AIO-BMCSSW-28SC | AIO-BMCSSW-28SN | AIO-BMCSSW-28SSR | - | - |
| | 72.0 | 60.2 | 1.5 | - | - | - | AIO-BMCSSW-60PA | AIO-BMCSSW-60FB |
| M63 | 70.0 | 61.2 | 1.5 | AIO-BMCSSW-28C | AIO-BMCSSW-28N | AIO-BMCSSW-28SR | - | - |
| | 78.4 | 63.2 | 1.5 | - | - | - | AIO-BMCSSW-8PA | AIO-BMCSSW-8FB |
| M70 | 83.0 | 68.0 | 1.5 | AIO-BMCSSW-29SC | AIO-BMCSSW-29SN | AIO-BMCSSW-29SSR | - | - |
| | 82.0 | 70.2 | 1.5 | - | - | - | AIO-BMCSSW-70PA | AIO-BMCSSW-70FB |
| M75 | 88.0 | 72.5 | 1.5 | AIO-BMCSSW-29C | AIO-BMCSSW-29N | AIO-BMCSSW-29SR | - | - |
| | 93.4 | 75.2 | 1.5 | - | - | - | AIO-BMCSSW-9PA | AIO-BMCSSW-9FB |
| M80 | 92.0 | 78.0 | 1.5 | AIO-BMCSSW-29LC | AIO-BMCSSW-29LN | AIO-BMCSSW-29LSR | - | - |
| | 98.0 | 80.2 | 1.5 | - | - | - | AIO-BMCSSW-80PA | AIO-BMCSSW-80FB |
| M85 | 97.0 | 83.0 | 1.5 | AIO-BMCSSW-30SC | AIO-BMCSSW-30SN | AIO-BMCSSW-30SSR | - | - |
| | 103.0 | 85.2 | 1.5 | - | - | - | AIO-BMCSSW-85PA | AIO-BMCSSW-85FB |
| M90 | 102.0 | 88.0 | 1.5 | AIO-BMCSSW-30C | AIO-BMCSSW-30N | AIO-BMCSSW-30SR | - | - |
| | 112.0 | 90.2 | 1.5 | - | - | - | AIO-BMCSSW-10PA | AIO-BMCSSW-10FB |
| M100 | 112.0 | 98.0 | 1.5 | AIO-BMCSSW-31SC | AIO-BMCSSW-31SN | AIO-BMCSSW-31SSR | - | - |
| | 124.5 | 100.2 | 1.5 | - | - | - | AIO-BMCSSW-11PA | AIO-BMCSSW-11FB |
| M110 | 122.0 | 108.0 | 1.5 | AIO-BMCSSW-31C | AIO-BMCSSW-31N | AIO-BMCSSW-31SR | - | - |
| | 134.0 | 110.2 | 2.0 | - | - | - | AIO-BMCSSW-12PA | AIO-BMCSSW-12FB |
| M115 | 127.0 | 113.0 | 1.5 | AIO-BMCSSW-31LC | AIO-BMCSSW-31LN | AIO-BMCSSW-31LSR | - | - |
| | 139.0 | 115.2 | 2.0 | - | - | - | AIO-BMCSSW-13PA | AIO-BMCSSW-13FB |
| M130 | 142.0 | 128.0 | 1.5 | AIO-BMCSSW-33C | AIO-BMCSSW-33N | AIO-BMCSSW-33SR | - | - |
| | 154.0 | 130.2 | 2.0 | - | - | - | AIO-BMCSSW-14PA | AIO-BMCSSW-14FB |

# GASKETS (WASHERS)






## Gaskets

To ensure IP rating for rough surfaces or through holes.

| Technical Details | |
|---|---|
| Material | • CR (Chloroprene)<br>• NBR<br>• Silicone<br>• Polyamide 6<br>• Fiber |

## Gaskets (Washers) for NPT and G Size

| For Thread Size NPT | Outer Ø D (mm) | Inner Ø ID (mm) | Height H (mm) | Part Number CR Black | NBR Black | Silicone Red | Polyamide White | Green |
|---|---|---|---|---|---|---|---|---|
| NPT 1/4" | 16.8 | 11.7 | 2.0 | AIO-BFCSSW-0SC | AIO-BFCSSW-0SN | AIO-BFCSSW-0SSR | - | - |
| | 17.5 | 13.8 | 1.5 | - | - | - | AIO-BNCSSW-1PA | AIO-BNCSSW-1FB |
| NPT 3/8" | 24.0 | 16.4 | 2.0 | AIO-BFCSSW-01C | AIO-BFCSSW-01N | AIO-BFCSSW-01SR | - | - |
| | 21.0 | 17.5 | 1.5 | - | - | - | AIO-BNCSSW-2PA | AIO-BNCSSW-2FB |
| NPT 1/2" | 29.0 | 20.4 | 2.0 | AIO-BFCSSW-02C | AIO-BFCSSW-02N | AIO-BFCSSW-02SR | - | - |
| | 25.0 | 21.5 | 1.5 | - | - | - | AIO-BNCSSW-3PA | AIO-BNCSSW-3FB |
| NPT 3/4" | 37.0 | 26.0 | 2.0 | AIO-BFCSSW-03C | AIO-BFCSSW-03N | AIO-BFCSSW-03SR | - | - |
| | 33.0 | 26.8 | 1.5 | - | - | - | AIO-BNCSSW-4PA | AIO-BNCSSW-4FB |
| NPT 1" | 45.0 | 32.6 | 2.0 | AIO-BFCSSW-04C | AIO-BFCSSW-04N | AIO-BFCSSW-04SR | - | - |
| | 40.5 | 33.5 | 1.5 | - | - | - | AIO-BNCSSW-5PA | AIO-BNCSSW-5FB |
| NPT 1 1/4" | 53.0 | 41.4 | 2.0 | AIO-BFCSSW-05C | AIO-BFCSSW-05N | AIO-BFCSSW-05SR | - | - |
| | 50.0 | 42.3 | 1.5 | - | - | - | AIO-BNCSSW-6PA | AIO-BNCSSW-6FB |
| NPT 1 1/2" | 61.0 | 47.2 | 2.0 | AIO-BFCSSW-06C | AIO-BFCSSW-06N | AIO-BFCSSW-06SR | - | - |
| | 60.0 | 48.4 | 1.5 | - | - | - | AIO-BNCSSW-7PA | AIO-BNCSSW-7FB |
| NPT 2" | 75.0 | 59.0 | 2.0 | AIO-BFCSSW-07C | AIO-BFCSSW-07N | AIO-BFCSSW-07SR | - | - |
| | 78.4 | 60.5 | 1.5 | - | - | - | AIO-BNCSSW-8PA | AIO-BNCSSW-8FB |
| NPT 2 1/2" | 85.0 | 73.2 | 1.5 | - | - | - | AIO-BNCSSW-9PA | AIO-BNCSSW-9FB |
| NPT 3" | 110.0 | 89.0 | 1.5 | - | - | - | AIO-BNCSSW-10PA | AIO-BNCSSW-10FB |
| NPT 3 1/2" | 125.0 | 101.8 | 1.5 | - | - | - | AIO-BNCSSW-11PA | AIO-BNCSSW-11FB |
| NPT 4" | 138.0 | 114.4 | 2.0 | - | - | - | AIO-BNCSSW-12PA | AIO-BNCSSW-12FB |
| NPT 5" | 165.0 | 141.5 | 2.0 | - | - | - | AIO-BNCSSW-13PA | AIO-BNCSSW-13FB |

## Gaskets (Washers) for PG Size

| For Thread Size PG | Outer Ø D (mm) | Inner Ø ID (mm) | Height H (mm) | Part Number CR Black | NBR Black | Silicone Red | Polyamide White | Green |
|---|---|---|---|---|---|---|---|---|
| PG 7 | 16.8 | 11.8 | 1.5 | AIO-BSCSSW-01C | AIO-BSCSSW-01N | AIO-BSCSSW-01SR | - | - |
| | 17.0 | 12.6 | 1.5 | - | - | - | AIO-BSCSSW-1PA | AIO-BSCSSW-1FB |
| PG 9 | 21.8 | 14.5 | 1.5 | AIO-BSCSSW-02C | AIO-BSCSSW-02N | AIO-BSCSSW-02SR | - | - |
| | 20.0 | 15.3 | 1.5 | - | - | - | AIO-BSCSSW-2PA | AIO-BSCSSW-2FB |
| PG 11 | 25.8 | 17.5 | 1.5 | AIO-BSCSSW-03C | AIO-BSCSSW-03N | AIO-BSCSSW-03SR | - | - |
| | 23.5 | 18.7 | 1.5 | - | - | - | AIO-BSCSSW-3PA | AIO-BSCSSW-3FB |
| PG 13.5 | 27.8 | 19.8 | 1.5 | AIO-BSCSSW-04C | AIO-BSCSSW-04N | AIO-BSCSSW-04SR | - | - |
| | 27.5 | 20.5 | 1.5 | - | - | - | AIO-BSCSSW-4PA | AIO-BSCSSW-4FB |
| PG 16 | 29.8 | 21.8 | 1.5 | AIO-BSCSSW-05C | AIO-BSCSSW-05N | AIO-BSCSSW-05SR | - | - |
| | 29.5 | 22.6 | 1.5 | - | - | - | AIO-BSCSSW-5PA | AIO-BSCSSW-5FB |
| PG 21 | 35.8 | 27.0 | 1.5 | AIO-BSCSSW-06C | AIO-BSCSSW-06N | AIO-BSCSSW-06SR | - | - |
| | 35.5 | 28.4 | 1.5 | - | - | - | AIO-BSCSSW-6PA | AIO-BSCSSW-6FB |
| PG 29 | 46.8 | 35.5 | 1.5 | AIO-BSCSSW-07C | AIO-BSCSSW-07N | AIO-BSCSSW-07SR | - | - |
| | 46.5 | 37.1 | 1.5 | - | - | - | AIO-BSCSSW-7PA | AIO-BSCSSW-7FB |
| PG 36 | 59.0 | 45.5 | 1.5 | AIO-BSCSSW-08C | AIO-BSCSSW-08N | AIO-BSCSSW-08SR | - | - |
| | 57.5 | 47.2 | 1.5 | - | - | - | AIO-BSCSSW-8PA | AIO-BSCSSW-8FB |
| PG 42 | 66.8 | 52.8 | 1.5 | AIO-BSCSSW-09C | AIO-BSCSSW-09N | AIO-BSCSSW-09SR | - | - |
| | 66.5 | 54.2 | 1.5 | - | - | - | AIO-BSCSSW-9PA | AIO-BSCSSW-9FB |
| PG 48 | 71.8 | 57.8 | 1.5 | AIO-BSCSSW-10C | AIO-BSCSSW-10N | AIO-BSCSSW-10SR | - | - |
| | 72.0 | 59.5 | 1.5 | - | - | - | AIO-BSCSSW-10PA | AIO-BSCSSW-10FB |

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