

PNAB

Barrier cable glands for unarmoured cables



**Installation**  
hazardous areas - Zone 1 / 2 (Gases) - Zone 21 / 22 (Dusts)

**Classification**  
Group II - Category 2G 2D / 3G 3D

| Mechanical characteristics |                                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------------|
| Body / cap                 | OT-58 brass (ON) - AISI-316L stainless steel (XX) marine grade copper free aluminium (on project request only) |
| Finishes                   | full nickel plating treatment (brass material only)                                                            |
| Rubber rings               | EPDM rubber 50-60 shore hardness (standard supply) Silicon rubber 60 shore hardness (on demand only)           |
| O-ring                     | silicon rubber - 60 shore hardness                                                                             |
| Skid washer                | nylon 6.0                                                                                                      |
| Chamber for sealing        | OT-58 brass<br>OT-58 nickel plated brass (on demand) AISI-316L stainless steel (on demand)                     |

| Applications                                                |
|-------------------------------------------------------------|
| For unarmoured cables only                                  |
| Single compression type suitable for indoor and outdoor use |
| Single compression - on cable (inner sealing)               |
| Sealing with proper resin into "chamber of sealing"         |

**On Request Accessories**

- Locknuts, Gaskets, PVC Shrouds, Earthing Tags, Sealing, (See DL-NW-PTD-ET bulletin)

| Reference standards             |                                                                                                                        |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Directive 2014/34/EU            |                                                                                                                        |
| Execution                       | Ex II 2 G Ex db / Ex eb/ Ex ia/ IIC Gb<br>Ex II 2 D Ex tb IIIC Db<br>Ex II 3 G Ex nR IIC Gc<br>Ex II 3 D Ex tc IIIC Dc |
| Rules of compliance             | EN/IEC 60079-0;<br>EN/IEC 60079-1;<br>EN/IEC 60079-7;<br>EN/IEC 60079-11;<br>EN/IEC 60079-15;<br>EN/IEC 60079-31       |
| EU Type-Examination Certificate | INERIS 09 ATEX 0028X<br>INERIS 23 ATEX 3004X (Ex nR only)                                                              |
| Protection degree               | IP66 or IP66/68                                                                                                        |
| Ambient temperature             | -40 °C ÷ +90 °C (Rubber rings EPDM-60)<br>-60 °C ÷ +100 °C (Rubber rings SILICON)                                      |
| Other Available Certificates    | IECEx: IECEx INE 11.0017X<br>ECASEx: 23-06-22481/Q23-06-048569/NB0002<br>INMETRO: CEPEL 12.2177X<br>KC: in progress    |

Cable gland selection table

| Code<br>(1) | Size | Entry thread size |     |            |     |         |     | Inner<br>sheath dia. |             | Hexagon | Material         |     |
|-------------|------|-------------------|-----|------------|-----|---------|-----|----------------------|-------------|---------|------------------|-----|
|             |      | Metric            | (2) | NPT        | (2) | ISO 228 | (2) | min<br>[mm]          | max<br>[mm] | [mm]    |                  | (3) |
| PNAB#       | 00   | ISO-M16           | M   | 3/8" NPT   | N   | 3/8"    | G   | 4,0                  | 7,0         | 24,0    | Nickel pl. brass | ON  |
|             |      | ISO-M20           |     | 1/2" NPT   |     | 1/2"    |     | 7,0                  | 10,0        |         | Stainless steel  | XX  |
|             |      |                   |     |            |     |         |     | 4,0                  | 7,0         |         | Nickel pl. brass | ON  |
|             |      |                   |     |            |     |         |     | 7,0                  | 10,0        |         | Stainless steel  | XX  |
| PNAB#       | 01   | ISO-M20           | M   | 1/2" NPT   | N   | 1/2"    | G   | 5,5                  | 8,0         | 32,0    | Nickel pl. brass | ON  |
|             |      |                   |     |            |     |         |     | 8,0                  | 10,5        |         | Stainless steel  | XX  |
|             |      |                   |     |            |     |         |     | 10,5                 | 13,0        |         |                  |     |
| PNAB#       | 02   | ISO-M25           | M   | 3/4" NPT   | N   | 3/4"    | G   | 10,5                 | 13,0        | 36,0    | Nickel pl. brass | ON  |
|             |      |                   |     |            |     |         |     | 13,0                 | 15,5        |         | Stainless steel  | XX  |
|             |      |                   |     |            |     |         |     | 15,5                 | 18,0        |         |                  |     |
| PNAB#       | 03   | ISO-M32           | M   | 1" NPT     | N   | 1"      | G   | 15,0                 | 18,0        | 45,0    | Nickel pl. brass | ON  |
|             |      |                   |     |            |     |         |     | 18,0                 | 21,0        |         | Stainless steel  | XX  |
|             |      |                   |     |            |     |         |     | 21,0                 | 24,0        |         |                  |     |
| PNAB#       | 04   | ISO-M40           | M   | 1 1/4" NPT | N   | 1 1/4"  | G   | 21,0                 | 24,0        | 53,0    | Nickel pl. brass | ON  |
|             |      |                   |     |            |     |         |     | 24,0                 | 27,0        |         | Stainless steel  | XX  |
|             |      |                   |     |            |     |         |     | 27,0                 | 30,0        |         |                  |     |
| PNAB#       | 05   | ISO-M50           | M   | 1 1/2" NPT | N   | 1 1/2"  | G   | 24,0                 | 27,0        | 61,0    | Nickel pl. brass | ON  |
|             |      |                   |     |            |     |         |     | 27,0                 | 30,0        |         | Stainless steel  | XX  |
|             |      |                   |     |            |     |         |     | 30,0                 | 33,0        |         |                  |     |
|             |      |                   |     |            |     |         |     | 33,0                 | 36,0        |         |                  |     |
| PNAB#       | 06   | ISO-M63           | M   | 2" NPT     | N   | 2"      | G   | 36,0                 | 39,0        | 71,0    | Nickel pl. brass | ON  |
|             |      |                   |     |            |     |         |     | 39,0                 | 42,0        |         | Stainless steel  | XX  |
|             |      |                   |     |            |     |         |     | 42,0                 | 45,0        |         |                  |     |
| PNAB#       | 07   | ISO-M75           | M   | 2 1/2" NPT | N   | 2 1/2"  | G   | 42,0                 | 45,0        | 84,0    | Nickel pl. brass | ON  |
|             |      |                   |     |            |     |         |     | 45,0                 | 48,0        |         | Stainless steel  | XX  |
|             |      |                   |     |            |     |         |     | 48,0                 | 51,0        |         |                  |     |
|             |      |                   |     |            |     |         |     | 51,0                 | 54,0        |         |                  |     |
| PNAB#       | 08   | ISO-M90           | M   | 3" NPT     | N   | 3"      | G   | 52,0                 | 56,0        | 101,0   | Nickel pl. brass | ON  |
|             |      |                   |     |            |     |         |     | 56,0                 | 59,0        |         | Stainless steel  | XX  |
|             |      |                   |     |            |     |         |     | 59,0                 | 62,0        |         |                  |     |
|             |      |                   |     |            |     |         |     | 62,0                 | 65,0        |         |                  |     |
|             |      |                   |     |            |     |         |     | 65,0                 | 68,0        |         |                  |     |
| PNAB#       | 09   | ISO-M115          | M   | 4" NPT     | N   | 4"      | G   | 68,0                 | 74,0        | 126,0   | Nickel pl. brass | ON  |
|             |      |                   |     |            |     |         |     | 74,0                 | 80,0        |         | Stainless steel  | XX  |
|             |      |                   |     |            |     |         |     | 80,0                 | 86,0        |         |                  |     |
|             |      |                   |     |            |     |         |     | 86,0                 | 92,0        |         |                  |     |



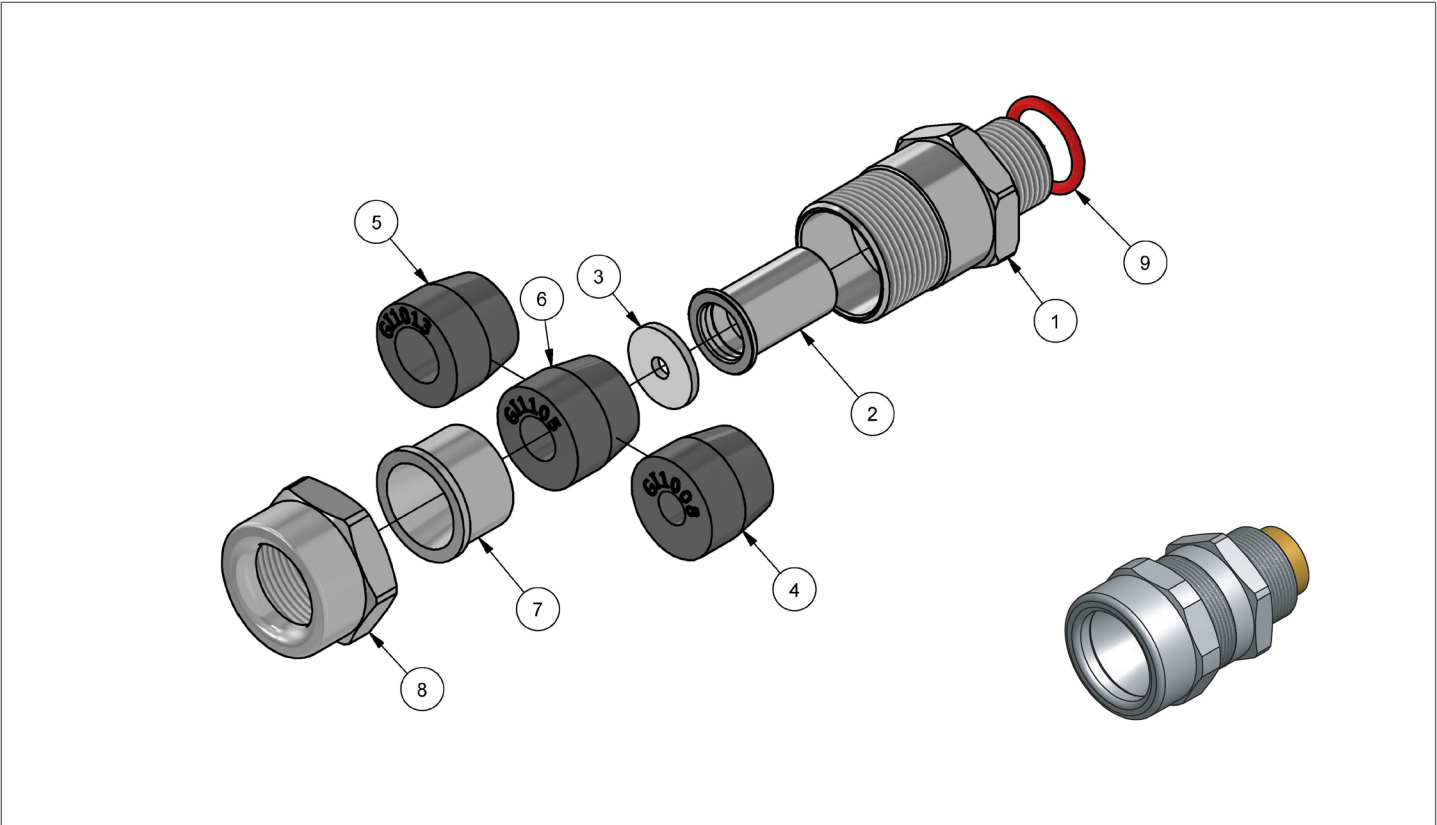
P N A B # 0 1 M O N → PNAB#01MON (barrier cable gland nickel plated brass ISO-M20 THR.)

P N A B # 0 3 N X X → PNAB#03NXX (barrier cable gland stainless steel 1" NPT THR.)

Cable gland ordering examples

| Legend |                        |                                                                       |
|--------|------------------------|-----------------------------------------------------------------------|
| (1) –  | cable gland type/model | PNAB# = barrier cable gland                                           |
| (2) –  | threading              | M = ISO metric pitch 1,5mm / N =NPT (ANSI/ASME B1.20.1) / G = ISO-228 |
| (3) –  | cable gland material   | ON – nickel plated brass / XX = AISI-316l stainless steel             |

PNAB dimensional



|           |                                |
|-----------|--------------------------------|
| 1         | Barrier cable gland body       |
| 2         | Sealing chamber                |
| 3         | Resin seal rubber              |
| 4 - 5 - 6 | Inner rubber seal              |
| 7         | Pushing seal cone              |
| 8         | Gland nut                      |
| 9         | Or gasket (metric thread only) |

| Flowable epoxy resin RSN#C0200 |                    |
|--------------------------------|--------------------|
| Cable gland size               | Resin quantity [g] |
| 0                              | 4                  |
| 1                              | 7                  |
| 2                              | 12                 |
| 3                              | 21                 |
| 4                              | 36                 |
| 5                              | 53                 |
| 6                              | 86                 |
| 7                              | 159                |
| 8                              | 250                |
| 9                              | 533                |

REMARK:  
Due to the development of the national and international specifications and of the technology, the above technical characteristics showed on this bulletin can be considered as binding on our confirmation only.