# PNAF

## Cable glands un armoured cables

### Mechanical characteristics

| | |
|---|---|
| Body/cab | OT-58 marine 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 |

### Applications

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|---|
| For unarmoured cables only |
| Suitable for flexible conduit coupling connection by threaded cap (uni iso 228) |
| Single compression type suitable for indoor and outdoor use |
| Single compression – on cable (inner sealing) |

### Installation

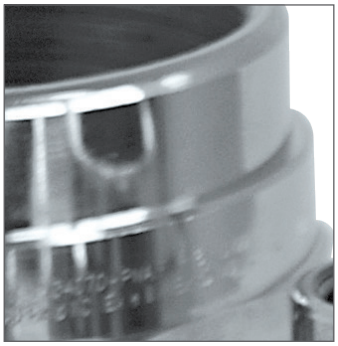
Hazardous areas – Zone 1 / 2 (Gases) – Zone 21 / 22 (Dusts)

### Classification

Group II – Category 2G 2D / 3G 3D

### Reference standards

| Directive 2014/34/EU | |
|---|---|
| Execution | II 2 G Ex db / Ex eb/ Ex ia/ IIC Gb<br>II 2 D Ex tb IIIC Db<br>II 3 G Ex nR IIC Gc / 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 60079-31 |
| 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 ÷ +180 °C (Rubber rings SILICON) |
| Other available certificates | IECEx: IECEx INE 11.0017X<br>INMETRO: CEPEL 12.2177X<br>RINA: ELE411722CS<br>Russian marine certificate (RMRS): 19.02521.280<br>CCC 2023122313116542<br>CCOE PESO: P531870<br>ECASEx: 23-06-22481/Q23-06-048569/NB0002<br>KC: in progress<br>BS standard: EPTI 22 IEC 0423 |



### On Request Accessories

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

BARTEC

## Cable gland selection table

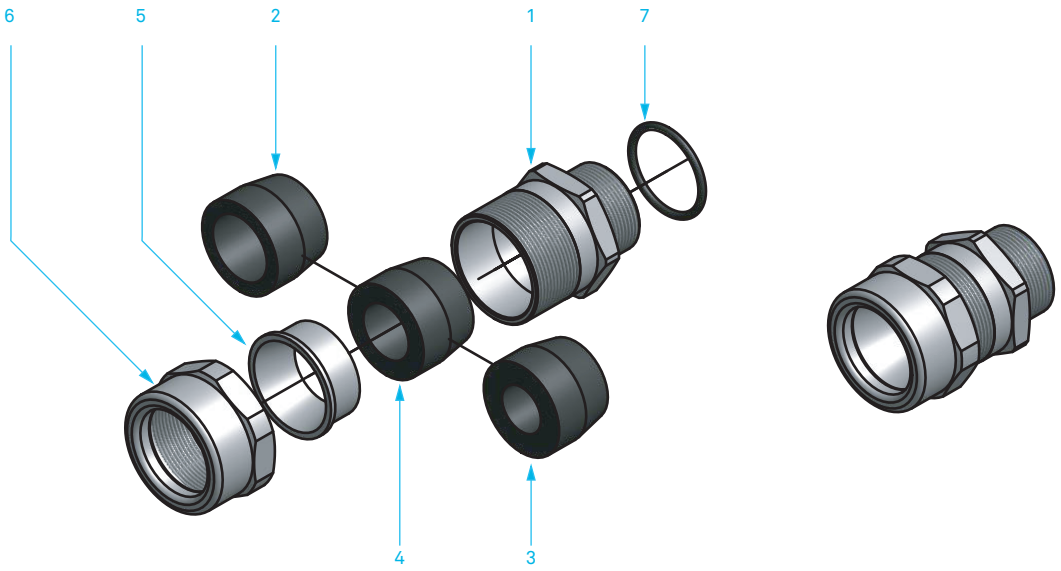
| Code (1) | Size | Entry thread size | | | | | | Inner sheath Dia. | | Female thread | Hexagon | Material | (3) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Metric | (2) | NPT | (2) | ISO 228 | (2) | min (mm) | max (mm) | UNI ISO 228 (4) | (mm) | | |
| PNAF# | 00 | ISO-M16 | M | 3/8" NPT | N | 3/8" | G | 4,0<br>7,0 | 7,0<br>10,0 | 3/8" | 24,0 | Nickel Pl. Brass | ON |
| | | | | | | | | | | | | Stainless steel | XX |
| | | ISO-M20 | | 1/2" NPT | | 1/2" | | 4,0<br>7,0 | 7,0<br>10,0 | 1/2" | 32,0 | Nickel Pl. Brass | ON |
| | | | | | | | | | | | | Stainless steel | XX |
| PNAF# | 01 | ISO-M20 | M | 1/2" NPT | N | 1/2" | G | 5,5<br>8,0<br>10,5 | 8,0<br>10,5<br>13,0 | 1/2" | 32,0 | Nickel Pl. Brass | ON |
| | | | | | | | | | | | | Stainless steel | XX |
| PNAF# | 02 | ISO-M25 | M | 3/4" NPT | N | 3/4" | G | 10,5<br>13,0<br>15,5 | 13,0<br>15,5<br>18,0 | 3/4" | 36,0 | Nickel Pl. Brass | ON |
| | | | | | | | | | | | | Stainless steel | XX |
| PNAF# | 03 | ISO-M32 | M | 1" NPT | N | 1" | G | 15,0<br>18,0<br>21,0 | 18,0<br>21,0<br>24,0 | 1" | 45,0 | Nickel Pl. Brass | ON |
| | | | | | | | | | | | | Stainless steel | XX |
| PNAF# | 04 | ISO-M40 | M | 1 1/4" NPT | N | 1 1/4" | G | 21,0<br>24,0<br>27,0 | 24,0<br>27,0<br>30,0 | 1 1/4" | 53,0 | Nickel Pl. Brass | ON |
| | | | | | | | | | | | | Stainless steel | XX |
| PNAF# | 05 | ISO-M50 | M | 1 1/2" NPT | N | 1 1/2" | G | 24,0<br>27,0<br>30,0<br>33,0 | 27,0<br>30,0<br>33,0<br>36,0 | 1 1/2" | 61,0 | Nickel Pl. Brass | ON |
| | | | | | | | | | | | | Stainless steel | XX |
| PNAF# | 06 | ISO-M63 | M | 2" NPT | N | 2" | G | 36,0<br>39,0<br>42,0 | 39,0<br>42,0<br>45,0 | 2" | 71,0 | Nickel Pl. Brass | ON |
| | | | | | | | | | | | | Stainless steel | XX |
| PNAF# | 07 | ISO-M75 | M | 2 1/2" NPT | N | 2 1/2" | G | 42,0<br>45,0<br>48,0<br>51,0 | 45,0<br>48,0<br>51,0<br>54,0 | 2 1/2" | 84,0 | Nickel Pl. Brass | ON |
| | | | | | | | | | | | | Stainless steel | XX |
| PNAF# | 08 | ISO-M90 | M | 3" NPT | N | 3" | G | 52,0<br>56,0<br>59,0<br>62,0<br>65,0 | 56,0<br>59,0<br>62,0<br>65,0<br>68,0 | 3" | 101,0 | Nickel Pl. Brass | ON |
| | | | | | | | | | | | | Stainless steel | XX |
| PNAF# | 09 | ISO-M100 | M | 4" NPT | N | 4" | G | 68,0<br>74,0<br>80,0<br>86,0 | 74,0<br>80,0<br>86,0<br>92,0 | 4" | 126,0 | Nickel Pl. Brass | ON |
| | | | | | | | | | | | | Stainless steel | XX |

| P | N | A | F | # | 0 | 1 | M | 0 | N | → PNAF01MON (non-barrier cable gland nickel plated brass ISO-M20 THR.) |
|---|---|---|---|---|---|---|---|---|---|---|
| P | N | A | F | # | 0 | 0 | N | X | X | → PNAF00NXX (non-barrier cable gland stainless steel) |

## Cable gland ordering examples

| Legend | | |
|---|---|---|
| (1) – | cable gland type/model | PNAF# = non-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 marine brass / XX = AISI-316L stainless steel |
| (3) – | Female thread | ISO-228 female thread suitable for flexible conduit coupling |

## PNAF dimensional




| | |
|---|---|
| 1 | Body |
| 2 -3 - 4 | Inner sealing ring for not armoured cable |
| 5 | Press ring |
| 6 | Gland nut “female” |
| 7 | O-ring (only for metrical) |

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.