

PAP Cable glands for armoured cables

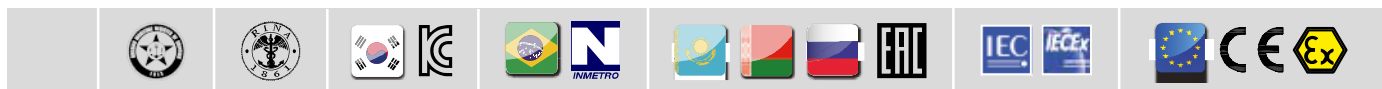
Explosion Proof Electrical Equipment



Ex Cable Glands

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

Classification: Group II - Category 2G 2D



REFERENCE STANDARDS

| Directive 94/9/EC (until April 19th, 2016) and Directive 2014/34/EU (from April 20th, 2016) | |
|---|--|
| EXECUTION | ⊕ II 2 G Ex d / Exe / Exia IIC Gb ⊕ II 2 D Ex tb IIIC Db |
| RULES OF COMPLIANCE | EN/IEC 60079-0; EN/IEC 60079-1; EN/IEC 60079-7; EN/IEC 60079-31 |
| EC Type-Examination Certificate | INERIS 09 ATEX 0028X |
| PROTECTION DEGREE | IP66 or IP66/68 |
| AMBIENT TEMPERATURE | -40°C ÷ +90°C (Rubber rings EPDM-60) -60°C ÷ +180°C (Rubber rings SILICON) |
| OTHER AVAILABLE CERTIFICATES | IECEx: IECEx INE 13.0017X INMETRO: CEPEL 12.2177X EAC: TC RU C-IT.Г508.B 01624 (-75°C ÷ +180°C) RINA: ELE18111CS_016 RUSSIAN MARINE CERTIFICATE (RMRS): 13.03518.315 Kc (Korean certification):14-KB4B0-0455X |

Mechanical characteristics

| | |
|---------------------|--|
| Body / cap | OT-58 marine brass (ON) - AISI-316L stainless steel (IX) |
| Finishes | full nickel plating treatment (brass material only) |
| Rubber rings | EPDM rubber- 50-60 shore hardness - Silicon rubber - 60 shore hardness |
| O-ring | silicon rubber - 60 shore hardness |
| Skid washer | nylon 6.0 |
| Chamber for sealing | OT-58 marine brass ("R" version only) |

Applications

For steel wire armoured cables (swa) for steel tape armoured cables

Double compression type for indoor and outdoor use

Provided armour clamping using clamping arrangements suitable for all armour wire/braid types

Double compression - under armour and overall of armour cable (inner and outer sealing)

Sealing with proper resin into "chamber of sealing" (on barrier type version "R" only)

On Request Accessories:

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



PAP Cable gland selection table

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| CODE (1) | | ENTRY THREAD SIZE | | | | DIA. UNDER ARMOUR | | OUTER SHEATH DIA. | | HEXAGON | MATERIAL | | | | |
|----------------|-----|-------------------|------------|--------------------|---|-------------------|-------------|-------------------|-------------|---------|----------|-------|-----------------|----|--|
| | | METRIC (2) | NPT (2) | UNI ISO 228 (2) | | min [mm] | max [mm] | min [mm] | max [mm] | [mm] | | (3) | | | |
| PAP# PAP-R# | 00* | ISO-M20 | M | 1/2"NPT | N | 1/2" | G | 4,0 | 7,0 | 10,0 | 15,0 | 24,0 | NICKEL PL.BRASS | ON | |
| | | | | | | | | 7,0 | 10,0 | | | | STAINLESS STEEL | IX | |
| PAP# PAP-R# | 01 | ISO-M20 | M | 1/2"NPT | N | 1/2" | G | 5,5 | 8,0 | 10,0 | 15,0 | 32,0 | NICKEL PL.BRASS | ON | |
| | | | | | | | | 8,0 | 10,5 | | | | STAINLESS STEEL | IX | |
| | | | | | | | | 10,5 | 13,0 | 14,0 | 19,0 | | | | |
| PAP# PAP-R# | 02 | ISO-M25 | M | 3/4"NPT | N | 3/4" | G | 10,5 | 13,0 | 15,0 | 20,0 | 36,0 | NICKEL PL.BRASS | ON | |
| | | | | | | | | 13,0 | 15,5 | | | | STAINLESS STEEL | IX | |
| | | | | | | | | 15,5 | 18,0 | 19,0 | 24,0 | | | | |
| PAP# PAP-R# | 03 | ISO-M32 | M | 1"NPT | N | 1" | G | 15,0 | 18,0 | 20,0 | 26,0 | 45,0 | NICKEL PL.BRASS | ON | |
| | | | | | | | | 18,0 | 21,0 | | | | STAINLESS STEEL | IX | |
| | | | | | | | | 21,0 | 24,0 | 25,0 | 31,0 | | | | |
| PAP# PAP-R# | 04 | ISO-M40 | M | 1 1/4"NPT | N | 1 1/4" | G | 21,0 | 24,0 | 26,0 | 32,0 | 53,0 | NICKEL PL.BRASS | ON | |
| | | | | | | | | 24,0 | 27,0 | | | | STAINLESS STEEL | IX | |
| | | | | | | | | 27,0 | 30,0 | 34,0 | 40,0 | | | | |
| PAP# PAP-R# | 05 | ISO-M50 | M | 1 1/2"NPT | N | 1 1/2" | G | 24,0 | 27,0 | 30,0 | 37,0 | 61,0 | NICKEL PL.BRASS | ON | |
| | | | | | | | | 27,0 | 30,0 | | | | STAINLESS STEEL | IX | |
| | | | | | | | | 30,0 | 33,0 | 36,0 | 43,0 | | | | |
| | | | | | | | | 33,0 | 36,0 | 40,0 | 47,0 | | | | |
| PAP# PAP-R# | 06 | ISO-M63 | M | 2"NPT | N | 2" | G | 36,0 | 39,0 | 42,0 | 48,0 | 71,0 | NICKEL PL.BRASS | ON | |
| | | | | | | | | 39,0 | 42,0 | | | | STAINLESS STEEL | IX | |
| | | | | | | | | 42,0 | 45,0 | 50,0 | 56,0 | | | | |
| PAP# PAP-R# | 07 | ISO-M75 | M | 2 1/2"NPT | N | 2 1/2" | G | 42,0 | 45,0 | 52,0 | 58,0 | 84,0 | NICKEL PL.BRASS | ON | |
| | | | | | | | | 45,0 | 48,0 | | | | STAINLESS STEEL | IX | |
| | | | | | | | | 48,0 | 51,0 | 58,0 | 64,0 | | | | |
| | | | | | | | | 51,0 | 54,0 | 61,0 | 67,0 | | | | |
| PAP# PAP-R# | 08 | ISO-M90 | M | 3"NPT | N | 3" | G | 52,0 | 56,0 | 65,0 | 72,0 | 101,0 | NICKEL PL.BRASS | ON | |
| | | | | | | | | 56,0 | 59,0 | | | | STAINLESS STEEL | IX | |
| | | | | | | | | 59,0 | 62,0 | 71,0 | 78,0 | | | | |
| | | | | | | | | 62,0 | 65,0 | 74,0 | 81,0 | | | | |
| | | | | | | | | 65,0 | 68,0 | 74,0 | 81,0 | | | | |
| PAP# PAP-R# | 09 | ISO-M100 | M | 4"NPT | N | 4" | G | 68,0 | 74,0 | 81,0 | 88,0 | 126,0 | NICKEL PL.BRASS | ON | |
| | | | | | | | | 74,0 | 80,0 | | | | STAINLESS STEEL | IX | |
| | | | | | | | | 80,0 | 86,0 | 88,0 | 96,0 | | | | |
| | | | | | | | | 86,0 | 92,0 | 96,0 | 104,0 | | | | |

CABLE GLAND ORDERING EXAMPLES

LEGEND

*NOTE: 00 SIZE WITH ISO-M16 OR 3/8"NPT - 3/8"ISO-228 BODY, ON REQUEST

| | | | | |
|------|----|---|----|--|
| PAP# | 01 | M | ON | = PAP#01MON (NON-BARRIER CABLE GLAND NICKEL PLATED BRASS ISO-M20 THR.) |
| PAP# | 03 | N | IX | = PAP#03NIX (NON-BARRIER CABLE GLAND STAINLESS STEEL 1"NPT THR.) |

| | | |
|-----|------------------------|--|
| (1) | CABLE GLAND TYPE/MODEL | PAP# = NON-BARRIER CABLE GLAND - PAP-R# = BARRIER CABLE GLAND |
| (2) | THREADING | M = ISO METRIC pitch 1,5mm - N = NPT (ANSI/ASME B1.20.1) - G = UNI ISO-228 |
| (3) | CABLE GLAND MATERIAL | ON = NICKEL PLATED MARINE BRASS - IX = AISI-316L STAINLESS STEEL |

PAP DIMENSIONAL

| | |
|-------|---|
| 1 | BODY |
| 2-3-4 | INNER SEALING RING FOR ARMOURED CABLE |
| 5 | ARMOUR CLAMPING CONE |
| 6 | ARMOUR CLAMPING RING FOR ARMOURED CABLE |
| 7 | GLAND BARREL |
| 8-9 | OUTER SEALING RING |
| 10 | ANTI RUBBING WASHER |
| 11 | GLAND NUT |
| 12 | O-RING (ONLY FOR METRICAL) |
| 13 | *CHAMBER FOR SEALING ("R" VERSION ONLY) |

* Chamber will be filled with sealing when cable gland is completely assembled.

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.