

# PAPB

## Barrier cable glands for armoured 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 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
Chamber for sealing	OT-58 marine brass OT-58 nickel plated marine brass (on demand) AISI-316L stainless steel (on demand)

### Applications

For steel wire armoured cables (swa) for steel tape armoured cables and for lead inner sheath 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 Request Accessories

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

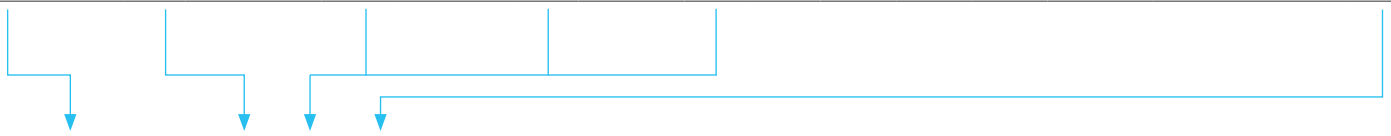
### Reference standards

Directive 2014/34/EU	
Execution	<ul style="list-style-type: none"> <li>⊕ II 2 G Ex db / Ex eb/ Ex ia/ IIC Gb</li> <li>⊕ II 2 D Ex tb IIIC Db</li> <li>⊕ II 3 G Ex nR IIC Gc</li> <li>⊕ II 3 D Ex tc IIIC Dc</li> </ul>
Rules of compliance	<ul style="list-style-type: none"> <li>EN/IEC 60079-0;</li> <li>EN/IEC 60079-1;</li> <li>EN/IEC 60079-7;</li> <li>EN/IEC 60079-11;</li> <li>EN/IEC 60079-15;</li> <li>EN/IEC 60079-31</li> </ul>
EU Type-Examination Certificate	<ul style="list-style-type: none"> <li>INERIS 09 ATEX 0028X</li> <li>INERIS 23 ATEX 3004X (Ex nR only)</li> </ul>
Protection degree	IP66 or IP66/68
Ambient temperature	<ul style="list-style-type: none"> <li>-40 °C ÷ +90 °C (Rubber rings EPDM-60)</li> <li>-60 °C ÷ +100 °C (Rubber rings SILICON)</li> </ul>
Other Available Certificates	<ul style="list-style-type: none"> <li>IECEX: IECEX INE 11.0017X</li> <li>ECASEX: 23-06-22481/Q23-06-048569/NB0002</li> <li>INMETRO: CEPEL 12.2177X</li> <li>CCC: 2023122313116542</li> <li>KC: in progress</li> </ul>



**Cable gland selection table**

Code (1)	Size	Entry thread size						Dia. under armour		Outer sheath dia.		Hexagon [mm]	Material	
		Metric	(2)	NPT	(2)	ISO 228	(2)	min [mm]	max [mm]	min [mm]	max [mm]		(3)	
PAPB#	00	ISO-M16	M	3/8" NPT	N	3/8"	G	4,0	7,0	10,0	15,0	24,0	Nickel pl. brass	ON
		ISO-M20	M	1/2" NPT	N	1/2"	G	7,0	10,0				Stainless steel	XX
			M		N		G	4,0	7,0				Nickel pl. brass	ON
			M		N		G	7,0	10,0				Stainless steel	XX
PAPB#	01	ISO-M20	M	1/2" NPT	N	1/2"	G	5,5	8,0	10,0	14,0	32,0	Nickel pl. brass	ON
			M		N		G	8,0	10,5				Stainless steel	XX
			M		N		G	10,5	13,0					
PAPB#	02	ISO-M25	M	3/4" NPT	N	3/4"	G	10,5	13,0	15,0	19,0	36,0	Nickel pl. brass	ON
			M		N		G	13,0	15,5				Stainless steel	XX
			M		N		G	15,5	18,0					
PAPB#	03	ISO-M32	M	1" NPT	N	1"	G	15,0	18,0	20,0	25,0	45,0	Nickel pl. brass	ON
			M		N		G	18,0	21,0				Stainless steel	XX
			M		N		G	21,0	24,0					
PAPB#	04	ISO-M40	M	1 1/4" NPT	N	1 1/4"	G	21,0	24,0	26,0	31,0	53,0	Nickel pl. brass	ON
			M		N		G	24,0	27,0				Stainless steel	XX
			M		N		G	27,0	30,0					
PAPB#	05	ISO-M50	M	1 1/2" NPT	N	1 1/2"	G	24,0	27,0	30,0	36,0	61,0	Nickel pl. brass	ON
			M		N		G	27,0	30,0				Stainless steel	XX
			M		N		G	30,0	33,0					
			M		N		G	33,0	36,0					
PAPB#	06	ISO-M63	M	2" NPT	N	2"	G	36,0	39,0	42,0	47,0	71,0	Nickel pl. brass	ON
			M		N		G	39,0	42,0				Stainless steel	XX
			M		N		G	42,0	45,0					
PAPB#	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
			M		N		G	45,0	48,0				Stainless steel	XX
			M		N		G	48,0	51,0					
			M		N		G	51,0	54,0					
PAPB#	08	ISO-M90	M	3" NPT	N	3"	G	52,0	56,0	65,0	71,0	101,0	Nickel pl. brass	ON
			M		N		G	56,0	59,0				Stainless steel	XX
			M		N		G	59,0	62,0					
			M		N		G	62,0	65,0					
PAPB#	09	ISO-M115	M	4" NPT	N	4"	G	65,0	68,0	81,0	88,0	126,0	Nickel pl. brass	ON
			M		N		G	68,0	74,0				Stainless steel	XX
			M		N		G	74,0	80,0					
			M		N		G	80,0	86,0					
	M		N		G	86,0	92,0							



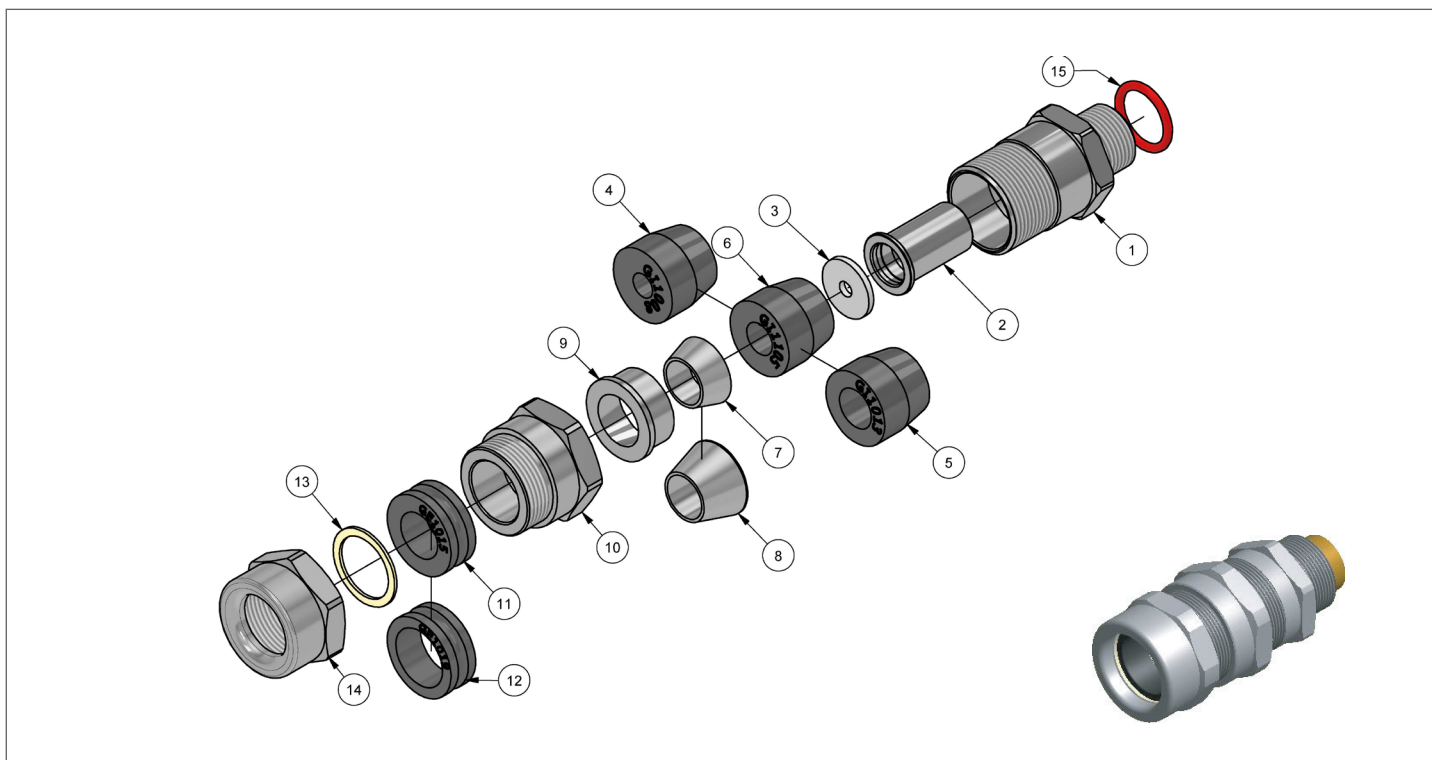
P	A	P	B	#	0	1	M	O	N	→ PAPB#01MON (barrier cable gland nickel plated brass ISO-M20 THR.)
P	A	P	B	#	0	3	N	X	X	→ PAPB#03NXX (barrier cable gland stainless steel 1" NPT THR.)
P	A	P	B	#	0	3	M	X	X	→ PAPB#03MXX (barrier cable gland stainless steel ISO-M32 THR.)

**Cable gland ordering examples**

**Legend**

(1) -	cable gland type/model	PAPB# = 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

**PAPB dimensional**



1	Barrier cable gland body
2	Sealing chamber
3	Resin seal rubber
4 - 5 - 6	Inner rubber seal
7 - 8	Pushing seal cone
9	Armour clamping ring
10	Intermediate gland body
11 - 12	Outer rubber seal
13	Nylon washer
14	Gland nut
15	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.