## **BARTEC**

### PAP – PAPDL

### Cable glands for armoured cables



Ex

#### **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)
0-ring	silicon rubber – 60 shore hardness
Skid washer	nylon 6.0

#### 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 II 2 D Ex tb IIIC Db II 3 G Ex nR IIC Gc/II 3 D Ex tc IIIC Dc					
Rules of compliance	EN/IEC 60079-0; EN/IEC 60079-1; EN/IEC 60079-7; EN/IEC 60079-11; EN/IEC 60079-31					
EU type-examination certificate	INERIS 09 ATEX 0028X INERIS 23 ATEX 3004X (Ex nR only)					
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	CCOE PESO: P531870					
certificates	ECASEx: 23-06-22481/Q23-06-048569/NB0002					
	KC: in progress					
	BS standard: EPTI 22 IEC 0423					
	IECEx: IECEx INE 11.0017X					
	INMETRO: CEPEL 12.2177X					
	RINA: ELE411722CS					
	Russian Marine Certificate (RMRS): 19.02521.280					
	CCC 2023122313116542					
	Deluge certification* for sizes 1÷6 with					
	silicon rubber rings only:					
	SIR20200310-001, SIR20200310-002,					
	SIR20200310-003, SIR20200311-004,					
	SIR20200311-005, SIR20200311-006					
	according to Shell DTS-01:91					

\*on request only

#### 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

Internal lead device for electrical bond of cable lead inner sheath

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

#### **On Request Accessories**

- Locknuts, Gaskets, PVC Shrouds, Earthing Tags, Sealing (See DL-NW-PTD-ET bulletin)
- Deluge option from size 1 to size 6 with silicon rubber rings only



# **BARTEC**

#### Cable gland selection table

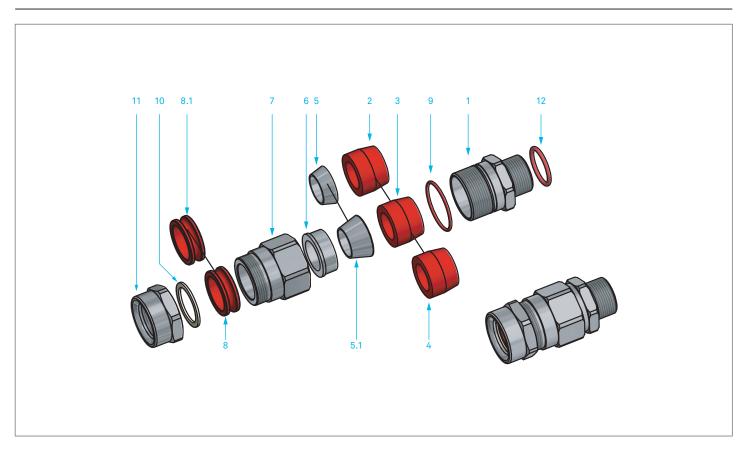
Code (1)	0:	Entry thread size						Dia. unde	rarmour	Outer sheath Dia.		Hexagon	Matarial	(0)
	Size	Metric	(2)	NPT	(2)	ISO 228	(2)	min (mm)	max (mm)	min (mm)	max (mm)	(mm)	Material	(3)
PAP# 00				0.(011) IDT		3/8"		4,0	7,0	10.0	15.0		Nickel pl. brass	ON
	00	ISO-M16	M	3/8"NPT	N			7,0	10,0	10,0	15,0	24,0	Stainless steel	XX
	00	ISO-M20	M	1/2"NPT	- N	1/2"	- G	4,0	7,0	10,0	15,0	32,0	Nickel pl. brass	ON
								7,0	10,0		10,0		Stainless steel	XX
	01	ISO-M20	M	1/2"NPT	N	1/2"	G	5,5 8,0	8,0 10,5	10,0	15,0	32,0	Nickel pl. brass	ON
								10,5	13,0	14,0	19,0		Stainless steel	XX
	02	ISO-M25	М	3/4"NPT	Ν	3/4"	G	10,5 13,0	13,0 15,5	15,0 19,0	20,0	36,0	Nickel pl. brass	ON
		130-11/20						15,5	18,0		24,0		Stainless steel	XX
	03	ISO-M32	М	1"NPT	N	1"	G	15,0 18,0	18,0 21,0	20,0	26,0	45,0	Nickel pl. brass	ON
PAP#		100 1002						21,0	24,0	25,0	31,0	40,0	Stainless steel	XX
PAPDL#*	04	ISO-M40	М	1 1/4"	N	1 1/4"	G	21,0 24,0	24,0 27,0	26,0 31,0	32,0 37,0	53,0	Nickel pl. brass	ON
		130-10140	IVI	NPT		1 1/4	G	27,0	30,0	34,0	40,0		Stainless steel	XX
				1 1/2" NPT		1 1/2"		24,0 27,0	27,0 30,0	30,0	37,0		Nickel pl. brass	ON
	05	ISO-M50	Μ		Ν		G	30,0 33,0	33,0 36,0	36,0 40,0	43,0 47,0	61,0	Stainless steel	XX
				2"NPT	N	2"	G	36,0	39,0	42,0	48,0 53,0 56,0	71,0	Nickel pl. brass	ON
	06	ISO-M63	М					39,0 42,0	42,0 45,0	47,0 50,0			Stainless steel	XX
PAP#			5 M	2 1/2" NPT	N	2 1/2"	G	42,0	45,0	52,0	58,0 64,0 67,0	84,0	Nickel pl. brass	ON
	07	ISO-M75						45,0 48,0	48,0 51,0	58,0			· · · · · · · · · · · · · · · · · · ·	
								51,0	54,0	61,0			Stainless steel	XX
PAP# 0		ISO-M90	М	3"NPT	Ν	3"	G	52,0 56,0	56,0 59,0	65,0	72,0 78,0	101,0	Nickel pl. brass	ON
	80							59,0	62,0	71,0				
								62,0 65,0	65,0 68,0	74,0	81,0		Stainless steel	XX
		09 ISO-M100	M	4"NPT	N	4"	G	68,0	74,0	81,0 88,0	88,0	126,0	Nickel pl. brass	ON
PAP#	09							74,0 80,0	80,0 86,0	88,0 96,0	96,0 104,0		Stainless steel	 XX
								86,0	92,0	90,0 102				
			┑└											
	7			↓ ↓										
PAF	o #	0	1	мо	N -		)N (no	-barriar ca	blo gland ni		orass ISO-Mi	20 +br )		
				╏╴╏╴╏					-					
PAF	P #	0	3	NX	X -	PAP#03NX	(X (nor	i-barrier cat	ole gland sta	iinless steel	1"NPT THR.)	)		
PAF	P D	L # 0	3	N X	X –	PAPDL#03	NXX (r	ion-barrier (	able gland	stainless ste	eel with delu	ge)		
	امير م	lering exar	n n l n	-										

Legend

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



#### PAP – PAPDL dimensional



1	Body			
2 - 3 - 4	Inner sealing ring for armoured cable			
5 - 5.1	Armour clamping cone			
6	Armour clamping ring for armoured cable			
7	Gland barrel			
8 - 8.1	Outer sealing silicon ring			
9	Deluge* silicon rubber o-ring			
10	Anti rubbing washer			
11	Gland nut			
12	Silicon o. ring (only for isometric body)			
*on request, from size 1 to 6 only				

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.