

# CABLE GLANDS FOR ARMoured CABLES

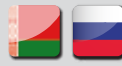
Explosion Proof Electrical Equipment



Ex Cable Glands

**Installation:** hazardous areas - Zone 1 / 2 (Gases) - Zone 21 / 22 (Dusts)  
**Classification:** Group II - Category 2G 2D

**PA**



CABLE GLANDS					
	ATEX 94/9/EC	IEC Ex	INMETRO	GOST-R (RTR/RTN)	GOST-K
<b>EXECUTION</b>	⊕ II 2 G Ex e IIC ⊕ II 2 G Ex d IIC ⊕ II 2 D Ex tD A21	Ex e IIC Gb Ex d IIC Gb Ex tb IIIC Db	Ex e IIC Gb Ex d IIC Gb Ex tb IIIC Db	Ex e IIC Gb Ex d IIC Gb Ex tb IIIC Db	Ex e IIC Gb Ex d IIC Gb Ex tb IIIC Db
<b>AMBIENT TEMPERATURE</b>	-40°C ÷ +90°C (1) -60°C ÷ +180°C (2)	-40°C ÷ +90°C (1) -60°C ÷ +180°C (2)	-40°C ÷ +90°C (1) -60°C ÷ +180°C (2)	-40°C ÷ +90°C (1) -60°C ÷ +180°C (2)	-40°C ÷ +90°C (1) -60°C ÷ +180°C (2)
<b>PROTEC. DEGREE</b>	IP66/68	IP66/68	IP66/68	IP66/68	IP66/68
<b>CERTIFICATE REF.</b>	INERIS 07 ATEX 0001X	IECEX INE 13.0018X	CEPEL 12.2177X	POCC IT. ME92.B02924	No. 07/43-269
<b>RULES OF COMPLIANCE</b>	EN 60079-0:2004; EN 60079-1:2004; EN 60079-11:2006; EN 61241-0:2004; EN 61241-1:2004	IEC 60079-0:2011; IEC 60079-1:2007; IEC 60079-7:2006; IEC 60079-31:2008	ABNT NBR IEC 60079-0:2008; ABNT NBR IEC 60079-1:2007; ABNT NBR IEC 60079-7:2008; ABNT NBR IEC 60529-0:2009;	ГОСТ Р МЭК 60079-0:2011; ГОСТ Р МЭК 61241-0:2007; ГОСТ Р МЭК 61241-1:2004;	ГОСТ Р 51330.0/1/8/14-99 ГОСТ Р МЭК 61241-1-1-2002

(1) EDPM-60 INTERNAL RUBBER RINGS - (2) SILICON-60 INTERNAL RUBBER RINGS

Zone	ATEX / IECEx / GOST					
	0	1	2	20	21	22
		X	X		X	X

Zone	NEC 505		
	Class I		
	0	1	2
		X	X

Division	NEC 500					
	Class I		Class II		Class III	
	1	2	1	2	1	2
		X	X	X	X	X

## Mechanical characteristics

Body / cap	OT-58 marine brass (ON) - AISI-316L stainless steel (IX)
Finishes	full nickel plating threatment (brass material only)
Rubber rings	EDPM rubber- 50-60 shore hardness - Silicon rubber - 60 shore hardness
O-ring	silicon rubber - 60 shore hardness
Skid washer	nylon 6
Chamber for sealing	OT-58 marine brass ("R" version only)

## APPLICATION

- 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 ACCESSORI bulletin)

# PA Cable gland selection table

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

**CABLE GLAND ORDERING EXAMPLES**

PA#	01	M	ON
PA#	03	N	IX

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

= PA#01MON (NON-BARRIER CABLE GLAND NICKEL PLATED BRASS ISO-M20 THR.)

= PA#03NIX (NON-BARRIER CABLE GLAND STAINLESS STEEL 1"NPT THR.)

**LEGEND**

(1)	CABLE GLAND TYPE/MODEL	PA# = NON-BARRIER CABLE GLAND - PA-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

**PA DIMENSIONAL**

1	BODY
2-3-4	INNER SEALING RING FOR ARMOURED CABLE
5	ARMOUR CLAMPING CONE
6	ARMOUR CLAMPING RING FOR ARMOURED CABLE
7	ANTI RUBBING WASHER
8	GLAND NUT
9	O-RING (ONLY FOR METRICAL)
10	*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.