

# CABLE GLANDS FOR UNARMoured 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

# PNAF



	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						Zone	NEC 505			Division	NEC 500						
	0	1	2	20	21	22		Class I				Class I		Class II		Class III		
		X	X		X	X			X	X			X	X	X	X	X	X

## Mechanical characteristics

Body / cap	OT-58 marine brass (ON) - AISI-316L stainless steel (IX)
Finishes	full nickel plating treatment (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 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)
- 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)

# PNAF Cable gland selection table

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

PNAF

### CABLE GLAND ORDERING EXAMPLES

PNAF#	01	M	ON	= PNAF#01MON	(NON-BARRIER CABLE GLAND NICKEL PLATED BRASS ISO-M20 THR.)
PNAF#	03	N	IX	= PNAF#03NIX	(NON-BARRIER CABLE GLAND STAINLESS STEEL 1/2"NPT THR.)

### LEGEND

(1)	CABLE GLAND TYPE/MODEL	PNAF# = NON-BARRIER CABLE GLAND - PNAF-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
(4)	FEMALE THREAD	UNI ISO-228 FEMALE THREAD SUITABLE FOR FLEXIBLE CONDUIT COUPLING

### PNAF DIMENSIONAL

1	BODY
2-3-4	INNER SEALING RING FOR NOT ARMOURED CABLE
5	ARMOUR CLAMPING CONE
6	GLAND NUT "FEMALE"
7	O-RING (ONLY FOR METRICAL)
8	*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.