

PAP Cable glands for armoured cables

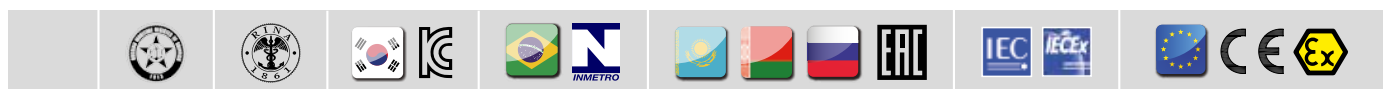
Explosion Proof Electrical Equipment



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.Γ508.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		ENTRY THREAD SIZE					DIA. UNDER ARMOUR		OUTER SHEATH DIA.		HEXAGON [mm]	MATERIAL		
		METRIC	(2)	NPT	(2)	UNI ISO 228	(2)	min [mm]	max [mm]	min [mm]		max [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	14,0	19,0		STAINLESS STEEL	IX
								10,5	13,0	15,0	20,0	36,0	NICKEL PL.BRASS	ON
								13,0	15,5	19,0	24,0		STAINLESS STEEL	IX
PAP# PAP-R#	02	ISO-M25	M	3/4"NPT	N	3/4"	G	15,5	18,0	20,0	26,0	45,0	NICKEL PL.BRASS	ON
								18,0	21,0	25,0	31,0		STAINLESS STEEL	IX
PAP# PAP-R#	03	ISO-M32	M	1"NPT	N	1"	G	21,0	24,0	26,0	32,0	53,0	NICKEL PL.BRASS	ON
								24,0	27,0	31,0	37,0		STAINLESS STEEL	IX
								27,0	30,0	34,0	40,0		NICKEL PL.BRASS	ON
								30,0	33,0	36,0	43,0	61,0	STAINLESS STEEL	IX
								33,0	36,0	40,0	47,0		NICKEL PL.BRASS	ON
								36,0	39,0	42,0	48,0	71,0	STAINLESS STEEL	IX
PAP# PAP-R#	04	ISO-M40	M	1 1/4"NPT	N	1 1/4"	G	39,0	42,0	47,0	53,0	84,0	NICKEL PL.BRASS	ON
								42,0	45,0	50,0	56,0		STAINLESS STEEL	IX
								45,0	48,0	52,0	58,0	84,0	NICKEL PL.BRASS	ON
								48,0	51,0	58,0	64,0		STAINLESS STEEL	IX
								51,0	54,0	61,0	67,0		NICKEL PL.BRASS	ON
								52,0	56,0	65,0	72,0	101,0	STAINLESS STEEL	IX
								56,0	59,0	71,0	78,0		NICKEL PL.BRASS	ON
								59,0	62,0	74,0	81,0		STAINLESS STEEL	IX
								62,0	65,0	74,0	81,0		NICKEL PL.BRASS	ON
								65,0	68,0	81,0	88,0	126,0	STAINLESS STEEL	IX
								68,0	74,0	88,0	96,0		NICKEL PL.BRASS	ON
								74,0	80,0	88,0	96,0		STAINLESS STEEL	IX
								80,0	86,0	96,0	104,0		NICKEL PL.BRASS	ON
								86,0	92,0	96,0	104,0		STAINLESS STEEL	IX

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.