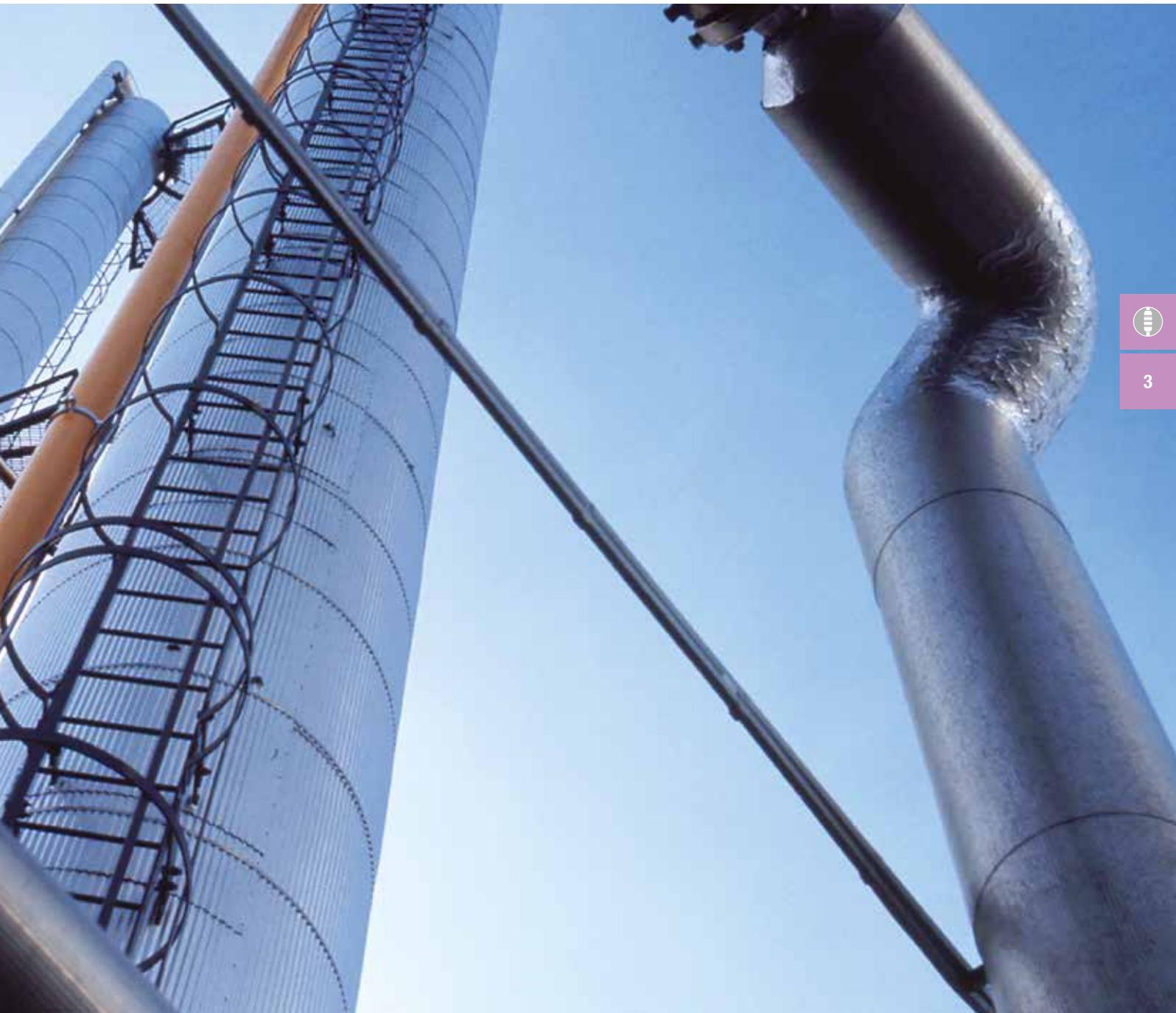


EX CABLE GLANDS





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



REFERENCE STANDARDS

Directive 2014/34/EU

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 11.0017X INMETRO: CEPEL 12.2177X EAC: TC RU C-IT.BH02.B.00587 (-75°C ÷ +180°C) RINA: ELE139017CS004 RUSSIAN MARINE CERTIFICATE (RMRS): 19.02521.280 CCOE-PESO: P405709/1

Mechanical characteristics

Body / cap	OT-58 marine brass (ON) - AISI-316L stainless steel (IX) 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 ("R" version 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)

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)

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)					
PAPD# PAPD-R#	01	ISO-M20	M	1/2"NPT	N	1/2"	G	3,5	6,0	10,0	15,0	32,0	NICKEL PL. BRASS	ON
								6,0	8,5				NICKEL PL. BRASS	IX
								8,5	11,0				STAINLESS STEEL	IX
PAPD# PAPD-R#	02	ISO-M25	M	3/4"NPT	N	3/4"	G	8,5	11,0	15,0	20,0	36,0	NICKEL PL. BRASS	ON
								11,0	13,5				NICKEL PL. BRASS	IX
								13,5	16				STAINLESS STEEL	IX
PAPD# PAPD-R#	03	ISO-M32	M	1"NPT	N	1"	G	13,0	16,0	20,0	26,0	45,0	NICKEL PL. BRASS	ON
								16,0	19,0				NICKEL PL. BRASS	IX
								19,0	22,0				STAINLESS STEEL	IX
PAPD# PAPD-R#	04	ISO-M40	M	1 1/4"NPT	N	1 1/4"	G	19,0	22,0	26,0	32,0	53,0	NICKEL PL. BRASS	ON
								22,0	25,0				NICKEL PL. BRASS	IX
								25,0	28,0				STAINLESS STEEL	IX
PAPD# PAPD-R#	05	ISO-M50	M	1 1/2"NPT	N	1 1/2"	G	22,0	25,0	30,0	37,0	61,0	NICKEL PL. BRASS	ON
								25,0	28,0				NICKEL PL. BRASS	IX
								28,0	31,0				STAINLESS STEEL	IX
								31,0	34,0				STAINLESS STEEL	IX
PAPD# PAPD-R#	06	ISO-M63	M	2"NPT	N	2"	G	34,0	37,0	42,0	48,0	71,0	NICKEL PL. BRASS	ON
								37,0	40,0				NICKEL PL. BRASS	IX
								40,0	43,0				STAINLESS STEEL	IX
PAPD# PAPD-R#	07	ISO-M75	M	2 1/2"NPT	N	2 1/2"	G	40,0	43,0	52,0	58,0	84,0	NICKEL PL. BRASS	ON
								43,0	46,0				NICKEL PL. BRASS	IX
								46,0	49,0				STAINLESS STEEL	IX
								49,0	52,0				STAINLESS STEEL	IX
PAPD# PAPD-R#	08	ISO-M90	M	3"NPT	N	3"	G	52,0	55,0	65,0	72,0	101,0	NICKEL PL. BRASS	ON
								56,0	59,0				NICKEL PL. BRASS	IX
								57,0	60,0				STAINLESS STEEL	IX
								60,0	63,0				STAINLESS STEEL	IX
								63,0	66,0				STAINLESS STEEL	IX
PAPD# PAPD-R#	09	ISO-M100	M	4"NPT	N	4"	G	58,0	66,0	81,0	88,0	126,0	NICKEL PL. BRASS	ON
								66,0	72,0				NICKEL PL. BRASS	IX
								72,0	78,0				STAINLESS STEEL	IX
								78,0	84,0				STAINLESS STEEL	IX
								84,0	90,0				STAINLESS STEEL	IX

CABLE GLAND ORDERING

EXAMPLES

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

LEGEND

(1)	CABLE GLAND TYPE/MODEL	PAPD# = NON-BARRIER CABLE GLAND - PAPD-R# = 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 - IX = STAINLESS STEEL AISI-316L

PAPD 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)
14	LEAD WASHER

* 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.



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



REFERENCE STANDARDS

Directive 2014/34/EU

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 11.0017X INMETRO: CEPEL 12.2177X EAC: TC RU C-IT.BH02.B.00587 (-75°C ÷ +180°C) RINA: ELE139017CS004 RUSSIAN MARINE CERTIFICATE (RMRS): 19.02521.280 CCOE-PESO: P405709/1

Mechanical characteristics

Body / cap	OT-58 marine brass (ON) - AISI-316L stainless steel (IX) 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 ("R" version 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)
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)

Cable gland selection table

CODE	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)				
PAP# PAP-R#	00	(16)ISO-M16 (0)3/8"	M	3/8"NPT	N	3/8"	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	(20)ISO-M20 (1)1/2"	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				STAINLESS STEEL	IX
PAP# PAP-R#	02	ISO-M25	M	3/4"NPT	N	3/4"	G	10,5	13,0	14,0	19,0	36,0	NICKEL PL.BRASS	ON
								13,0	15,5				STAINLESS STEEL	IX
PAP# PAP-R#	03	ISO-M32	M	1"NPT	N	1"	G	15,0	18,0	20,0	26,0	45,0	NICKEL PL.BRASS	ON
								18,0	21,0				STAINLESS STEEL	IX
PAP# PAP-R#	04	ISO-M40	M	1 1/4"NPT	N	1 1/4"	G	21,0	24,0	26,0	32,0	53,0	NICKEL PL.BRASS	ON
								24,0	27,0				STAINLESS STEEL	IX
PAP# PAP-R#	05	ISO-M50	M	1 1/2"NPT	N	1 1/2"	G	27,0	30,0	30,0	37,0	61,0	NICKEL PL.BRASS	ON
								30,0	33,0				STAINLESS STEEL	IX
PAP# PAP-R#	06	ISO-M63	M	2"NPT	N	2"	G	36,0	39,0	42,0	48,0	71,0	NICKEL PL.BRASS	ON
								39,0	42,0				STAINLESS STEEL	IX
PAP# PAP-R#	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
								45,0	48,0				STAINLESS STEEL	IX
PAP# PAP-R#	08	ISO-M90	M	3"NPT	N	3"	G	48,0	51,0	58,0	64,0	101,0	NICKEL PL.BRASS	ON
								51,0	54,0				STAINLESS STEEL	IX
PAP# PAP-R#	09	ISO-M100	M	4"NPT	N	4"	G	52,0	56,0	65,0	72,0	126,0	NICKEL PL.BRASS	ON
								56,0	59,0				STAINLESS STEEL	IX

CABLE GLAND ORDERING

EXAMPLES

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.)

LEGEND

(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 = 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.



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



REFERENCE STANDARDS

Directive 2014/34/EU

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 11.0017X INMETRO: CEPUL 12.2177X EAC: TC RU C-IT.BH02.B.00587 (-75°C ÷ +180°C) RINA: ELE139017CS004 RUSSIAN MARINE CERTIFICATE (RMRS): 19.02521.280 CCOE-PESO: P405709/1

Mechanical characteristics

Body / cap	OT-58 marine brass (ON) - AISI-316L stainless steel (IX) 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 ("R" version only)

Applications

For steel wire armoured cables (swa) for steel tape armoured cables
Single compression type for indoor and outdoor use
Provided armour clamping using clamping arrangements suitable for all armour wire/braid types
Single 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)

Cable gland selection table

CODE (1)	SIZE	ENTRY THREAD SIZE				DIA. UNDER ARMOUR		OUTER SHEATH DIA. max [mm]	HEXAGON Ø [mm]	MATERIAL			
		METRIC (2)	NPT (2)	ISO 228 (2)	min [mm]	max [mm]	(3)			(3)			
PA# PA-R#	00	(16)ISO-M16 (0)3/8"	M	3/8"NPT	N	3/8"	G	4,0	7,0	10,0	24,0	NICKEL PL.BRASS	ON
								7,0	10,0			STAINLESS STEEL	IX
PA# PA-R#	01	ISO-M20	M	1/2"NPT	N	1/2"	G	5,5	8,0	10,0	32,0	NICKEL PL.BRASS	ON
								8,0	10,5			STAINLESS STEEL	IX
PA# PA-R#	02	ISO-M25	M	3/4"NPT	N	3/4"	G	10,5	13,0	14,0	36,0	NICKEL PL.BRASS	ON
								13,0	15,5			STAINLESS STEEL	IX
PA# PA-R#	03	ISO-M32	M	1"NPT	N	1"	G	15,0	18,0	24,0	45,0	NICKEL PL.BRASS	ON
								18,0	21,0			STAINLESS STEEL	IX
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	ON
								24,0	27,0			STAINLESS STEEL	IX
PA# PA-R#	05	ISO-M50	M	1 1/2"NPT	N	1 1/2"	G	27,0	30,0	36,0	61,0	NICKEL PL.BRASS	ON
								30,0	33,0			STAINLESS STEEL	IX
PA# PA-R#	06	ISO-M63	M	2"NPT	N	2"	G	36,0	39,0	45,0	71,0	NICKEL PL.BRASS	ON
								39,0	42,0			STAINLESS STEEL	IX
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	ON
								45,0	48,0			STAINLESS STEEL	IX
PA# PA-R#	08	ISO-M90	M	3"NPT	N	3"	G	48,0	51,0	68,0	101,0	NICKEL PL.BRASS	ON
								51,0	54,0			STAINLESS STEEL	IX
PA# PA-R#	09	ISO-M100	M	4"NPT	N	4"	G	52,0	56,0	92,0	126,0	NICKEL PL.BRASS	ON
								56,0	59,0			STAINLESS STEEL	IX
PA# PA-R#	09	ISO-M100	M	4"NPT	N	4"	G	59,0	62,0	92,0	126,0	NICKEL PL.BRASS	ON
								62,0	65,0			STAINLESS STEEL	IX
PA# PA-R#	09	ISO-M100	M	4"NPT	N	4"	G	65,0	68,0	92,0	126,0	NICKEL PL.BRASS	ON
								68,0	74,0			STAINLESS STEEL	IX
PA# PA-R#	09	ISO-M100	M	4"NPT	N	4"	G	74,0	80,0	92,0	126,0	NICKEL PL.BRASS	ON
								80,0	86,0			STAINLESS STEEL	IX
PA# PA-R#	09	ISO-M100	M	4"NPT	N	4"	G	86,0	92,0	92,0	126,0	NICKEL PL.BRASS	ON
								86,0	92,0			STAINLESS STEEL	IX

CABLE GLAND ORDERING EXAMPLES

PA#	01	M	ON	= PA#01MON	(NON-BARRIER CABLE GLAND NICKEL PLATED BRASS ISO-M20 THR.)
PA#	03	N	IX	= 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 = 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 CABL
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.



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



REFERENCE STANDARDS

Directive 2014/34/EU

EXECUTION	<ul style="list-style-type: none"> ⊗ 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 11.0017X INMETRO: CEPEL 12.2175X EAC: TC RU C-IT.BH02.B.00587 (-75°C ÷ +180°C) RINA: ELE139017CS004 RUSSIAN MARINE CERTIFICATE (RMRS): 19.02521.280 CCOE-PESO: P405709/1

Mechanical characteristics

Body / cap	OT-58 marine brass (ON) - AISI-316L stainless steel (IX) 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 ("R" version only)

Applications

For unarmoured cables only
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 DL-NW-PTD-ET bulletin)

Cable gland selection table

CODE (1)	SIZE	ENTRY THREAD SIZE			INNER SHEATH DIA.		HEXAGON [mm]	MATERIAL				
		METRIC (2)	NPT (2)	ISO 228 (2)	min [mm]	max [mm]		(3)	(3)			
PNA# PNA-R#	00	(16)ISO-M16 (0)3/8"	M	3/8"NPT	N	3/8"	G	4,0	7,0	24,0	NICKEL PL. BRASS	ON
								7,0	10,0		STAINLESS STEEL	IX
		(20)ISO-M20 (1)1/2"	M	1/2"NPT	N	1/2"	G	5,5	8,0	32,0	NICKEL PL. BRASS	ON
								8,0	10,5		STAINLESS STEEL	IX
PNA# PNA-R#	01	ISO-M20	M	1/2"NPT	N	1/2"	G	5,5	8,0	32,0	NICKEL PL. BRASS	ON
								8,0	10,5		STAINLESS STEEL	IX
								10,5	13,0			
PNA# PNA-R#	02	ISO-M25	M	3/4"NPT	N	3/4"	G	10,5	13,0	36,0	NICKEL PL. BRASS	ON
								13,0	15,5		STAINLESS STEEL	IX
								15,5	18,0			
PNA# PNA-R#	03	ISO-M32	M	1"NPT	N	1"	G	15,0	18,0	45,0	NICKEL PL. BRASS	ON
								18,0	21,0		STAINLESS STEEL	IX
								21,0	24,0			
PNA# PNA-R#	04	ISO-M40	M	1 1/4"NPT	N	1 1/4"	G	21,0	24,0	53,0	NICKEL PL. BRASS	ON
								24,0	27,0		STAINLESS STEEL	IX
								27,0	30,0			
PNA# PNA-R#	05	ISO-M50	M	1 1/2"NPT	N	1 1/2"	G	24,0	27,0	61,0	NICKEL PL. BRASS	ON
								27,0	30,0		STAINLESS STEEL	IX
								30,0	33,0			
								33,0	36,0			
PNA# PNA-R#	06	ISO-M63	M	2"NPT	N	2"	G	36,0	39,0	71,0	NICKEL PL. BRASS	ON
								39,0	42,0		STAINLESS STEEL	IX
								42,0	45,0			
								45,0	48,0			
PNA# PNA-R#	07	ISO-M75	M	2 1/2"NPT	N	2 1/2"	G	48,0	51,0	84,0	NICKEL PL. BRASS	ON
								51,0	54,0		STAINLESS STEEL	IX
								52,0	56,0			
								56,0	59,0			
								59,0	62,0			
PNA# PNA-R#	08	ISO-M90	M	3"NPT	N	3"	G	62,0	65,0	101,0	NICKEL PL. BRASS	ON
								65,0	68,0		STAINLESS STEEL	IX
								68,0	74,0			
								74,0	80,0			
								80,0	86,0			
PNA# PNA-R#	09	ISO-M100	M	4"NPT	N	4"	G	86,0	92,0	126,0	NICKEL PL. BRASS	ON
											STAINLESS STEEL	IX

CABLE GLAND ORDERING EXAMPLES

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

LEGEND

(1)	CABLE GLAND TYPE/MODEL	PNA# = NON-BARRIER CABLE GLAND - PNA-R# = 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 - IX = AISI-316L STAINLESS STEEL

PNA DIMENSIONAL

1	BODY
2-3-4	INNER SEALING RING FOR NOT ARMOURED CABLE
5	PRESS RING
6	GLAND NUT
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.



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



REFERENCE STANDARDS

Directive 2014/34/EU

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 11.0017X INMETRO: CEPEL 12.2175X EAC: TC RU C-IT.BH02.B.00587 (-75°C ÷ +180°C) RINA: ELE139017CS004 RUSSIAN MARINE CERTIFICATE (RMRS): 19.02521.280 CCOE-PESO: P405709/1

Mechanical characteristics

Body / cap	OT-58 marine brass (ON) - AISI-316L stainless steel (IX) 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 ("R" version only)

Applications

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 DL-NW-PTD-ET bulletin)

Cable gland selection table

CODE (1)	SIZE	ENTRY THREAD SIZE			INNER SHEATH DIA.		FEMALE THREAD UNI ISO 228 (4)	HEXAGON ϕ [mm]	MATERIAL	
		METRIC (2)	NPT (2)	ISO 228 (2)	min [mm]	max [mm]			(3)	(3)
PNAF# PNAF-R#	00	(16)ISO-M16 (0)3/8"	M	3/8"NPT	3/8"	G	3/8"	24,0	NICKEL PL.BRASS	ON
									STAINLESS STEEL	IX
		(20)ISO-M20 (1)1/2"	M	1/2"NPT	1/2"	G	1/2"	32,0	NICKEL PL.BRASS	ON
									STAINLESS STEEL	IX
PNAF# PNAF-R#	01	ISO-M20	M	1/2"NPT	1/2"	G	1/2"	32,0	NICKEL PL.BRASS	ON
									STAINLESS STEEL	IX
									ISO-M25	M
PNAF# PNAF-R#	02	ISO-M25	M	3/4"NPT	3/4"	G	3/4"	36,0	NICKEL PL.BRASS	ON
									STAINLESS STEEL	IX
									ISO-M32	M
PNAF# PNAF-R#	03	ISO-M32	M	1"NPT	1"	G	1"	45,0	NICKEL PL.BRASS	ON
									STAINLESS STEEL	IX
									ISO-M40	M
PNAF# PNAF-R#	04	ISO-M40	M	1 1/4"NPT	1 1/4"	G	1 1/4"	53,0	NICKEL PL.BRASS	ON
									STAINLESS STEEL	IX
									ISO-M50	M
PNAF# PNAF-R#	05	ISO-M50	M	1 1/2"NPT	1 1/2"	G	1 1/2"	61,0	NICKEL PL.BRASS	ON
									STAINLESS STEEL	IX
									ISO-M63	M
PNAF# PNAF-R#	06	ISO-M63	M	2"NPT	2"	G	2"	71,0	NICKEL PL.BRASS	ON
									STAINLESS STEEL	IX
									ISO-M75	M
PNAF# PNAF-R#	07	ISO-M75	M	2 1/2"NPT	2 1/2"	G	2 1/2"	84,0	NICKEL PL.BRASS	ON
									STAINLESS STEEL	IX
									ISO-M90	M
PNAF# PNAF-R#	08	ISO-M90	M	3"NPT	3"	G	3"	101,0	NICKEL PL.BRASS	ON
									STAINLESS STEEL	IX
									ISO-M100	M
PNAF# PNAF-R#	09	ISO-M100	M	4"NPT	4"	G	4"	126,0	NICKEL PL.BRASS	ON
									STAINLESS STEEL	IX

CABLE GLAND ORDERING

EXAMPLES

PNAF	11	20	-	M	ON	= PNAF1120MON (NON-BARRIER CABLE GLAND NICKEL PLATED BRASS ISO-M20 THR.)
PNAF	21	-	2	N	IX	= PNAF212NIX (NON-BARRIER CABLE GLAND STAINLESS STEEL)

LEGENDA

(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 = ISO-228
(3)	CABLE GLAND MATERIAL	ONK = NICKEL PLATED MARINE BRASS - XK = AISI-316L STAINLESS STEEL
(4)	FEMALE THREAD	ISO-228 FEMALE THREAD SUITABLE FOR FLEXIBLE CONDUIT COUPLING

PNAF DIMENSIONAL

1	BODY
2-3-4	INNER SEALING RING FOR NOT ARMOURED CABLE
5	PRESS RING
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:

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



Mechanical characteristics

LOCKNUTS

Material	nickel plated brass
Finishes	full nickel plating treatment (brass material only)

SHORUDS

Material	EPDM
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GASKETS

Material	nylon 6.0
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EARTH TAGS

Material	stainless steel (for stainless cable glands)
	nickel plated brass (for nickel plated brass cable glands)

Applications

Locknuts	Are preferred items used in securing cable glands to the gland plate especially to plastic junction boxes
Shoruds	For all tipe of glands application where additional protection is required
Epoxy compoud kit	Is provided for submission of barrier cable glands type P.-R Kit composed of: - Component A (dark grey) - Component B (white) - Nitryle gloves
Gaskets	Are used to maintain the ip rating across the interface between the equipment and relevant cable gland
Earth tags	Are used to ensure earth continuity and grounding of cable armour

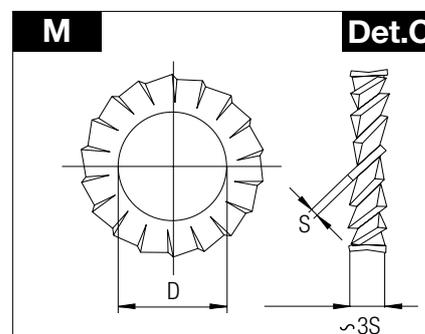
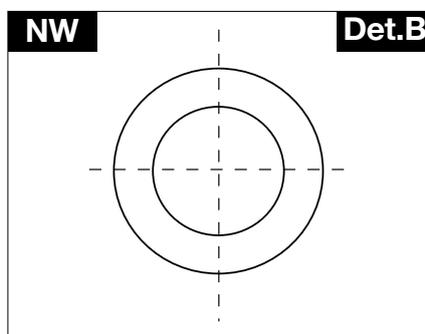
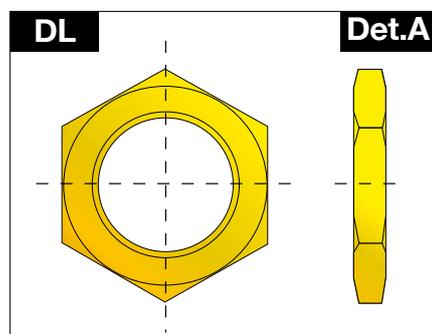


Technical Features

LOCKNUTS			
DETAIL A	THREADS / SIZE		
TYPE	NPT	UNI-228	ISO
DL0	3/8"	3/8"	M16
DL1	1/2"	1/2"	M20
DL2	3/4"	3/4"	M25
DL3	1"	1"	M32
DL4	1-1/4"	1-1/4"	M40
DL5	1-1/2"	1-1/2"	M50
DL6	2"	2"	M63
DL7	2-1/2"	2-1/2"	M75
DL8	3"	3"	M90
DL9	4"	4"	M100

GASKETS			
DETAIL B	THREADS / SIZE		
TYPE	NPT	UNI-228	ISO
NW0	3/8"	3/8"	M16
NW1	1/2"	1/2"	M20
NW2	3/4"	3/4"	M25
NW3	1"	1"	M32
NW4	1-1/4"	1-1/4"	M40
NW5	1-1/2"	1-1/2"	M50
NW6	2"	2"	M63
NW7	2-1/2"	2-1/2"	M75
NW8	3"	3"	M90
NW9	4"	4"	M100

WASHERS		
TYPE	ØD [mm]	DETAIL
M20	20	C
M25	25	C
M32	32	C
M40	40	C
M50	50	C
M63	63	C

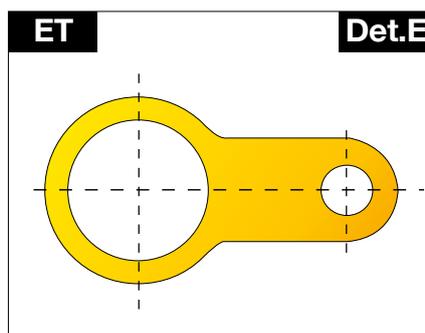
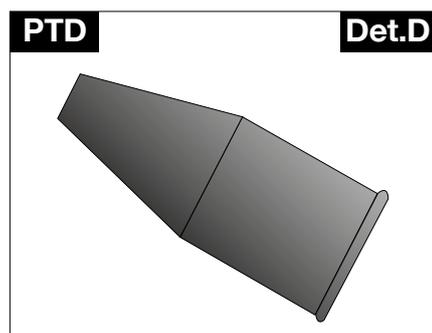


SHROUDS*			
DETAIL D	THREADS / SIZE		
TYPE	NPT	UNI-228	ISO
PTD0	3/8"	3/8"	M16
PTD1	1/2"	1/2"	M20
PTD2	3/4"	3/4"	M25
PTD3	1"	1"	M32
PTD4	1-1/4"	1-1/4"	M40
PTD5	1-1/2"	1-1/2"	M50
PTD6	2"	2"	M63
PTD7	2-1/2"	2-1/2"	M75
PTD8	3"	3"	M90
PTD9	4"	4"	M100

EARTHS TAGS			
DETAIL E	THREADS / SIZEE		
TYPE	NPT	UNI-228	ISO
ET0	3/8"	3/8"	M16
ET1	1/2"	1/2"	M20
ET2	3/4"	3/4"	M25
ET3	1"	1"	M32
ET4	1-1/4"	1-1/4"	M40
ET5	1-1/2"	1-1/2"	M50
ET6	2"	2"	M63
ET7	2-1/2"	2-1/2"	M75
ET8	3"	3"	M90
ET9	4"	4"	M100

TWO-COMPONENT EPOXY PASTE	
SIZE / CODE	Q.TY COMPOUND [gr]
0 / INN-FS0904-1	6
1 / INN-FS0904-1	6
2 / INN-FS0904-2	12
3 / INN-FS0904-3	24
4 / INN-FS0904-5	56
5 / INN-FS0904-5	56
6 / INN-FS0904-6	88
7 / INN-FS0904-7	200
8 / INN-FS0904-8	288

* Blue colour on request.



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