



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 db / Ex eb/ Ex ia/ IIC Gb ⊗ II 2 D Ex tb IIC 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 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

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)
- Deluge option from size 1 to size 6 with silicon rubber rings only

Cable gland selection table

CODE	SIZE	ENTRY THREAD SIZE				DIA. UNDER ARMOUR		OUTER SHEATH DIA.		HEXAGON	MATERIAL			
		METRIC	NPT	ISO 228	min [mm]	max [mm]	min [mm]	max [mm]	[mm]	(3)				
PAP# PAP-R#	00	ISO-M16	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
		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				STAINLESS STEEL	IX
PAP# PAP-R# PAPDL#* PAPDL#*	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				STAINLESS STEEL	IX
								10,5	13,0				14,0	19,0
	02	ISO-M25	M	3/4"NPT	N	3/4"	G	10,5	13,0	15,0	20,0	36,0	NICKEL PL.BRASS	ON
								13,0	15,5				19,0	24,0
								15,5	18,0	20,0	26,0			
	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				25,0	31,0
								21,0	24,0	26,0	32,0			
	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				31,0	37,0
								27,0	30,0	34,0	40,0			
24,0								27,0	30,0	37,0				
05	ISO-M50	M	1 1/2"NPT	N	1 1/2"	G	27,0	30,0	36,0	43,0	61,0	NICKEL PL.BRASS	ON	
							30,0	33,0				40,0	47,0	STAINLESS STEEL
							33,0	36,0	42,0	48,0				
							36,0	39,0	47,0	53,0				
06	ISO-M63	M	2"NPT	N	2"	G	39,0	42,0	47,0	53,0	71,0	NICKEL PL.BRASS	ON	
							42,0	45,0				50,0	56,0	STAINLESS STEEL
							42,0	45,0	52,0	58,0				
							45,0	48,0	58,0	64,0				
07	ISO-M75	M	2 1/2"NPT	N	2 1/2"	G	48,0	51,0	61,0	67,0	84,0	NICKEL PL.BRASS	ON	
							51,0	54,0				65,0	72,0	STAINLESS STEEL
							52,0	56,0	65,0	72,0				
							56,0	59,0	71,0	78,0				
08	ISO-M90	M	3"NPT	N	3"	G	59,0	62,0	74,0	81,0	101,0	NICKEL PL.BRASS	ON	
							62,0	65,0				77,0	84,0	STAINLESS STEEL
							65,0	68,0	81,0	88,0				
							68,0	74,0	88,0	96,0				
09	ISO-M100	M	4"NPT	N	4"	G	74,0	80,0	88,0	96,0	126,0	NICKEL PL.BRASS	ON	
							80,0	86,0				96,0	104,0	STAINLESS STEEL
							86,0	92,0	96,0	104,0				

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.)
PAPDL#	03	N	IX	= PAPDL#03NIX (NON-BARRIER CABLE GLAND STAINLESS STEEL WITH DELUGE)

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 - 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:

Deluge is available on request from size 1 to 6 with silicon rubber rings only. 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.

