

FOR ALL ACCESSORIES



WARNING
Aluminium accessories: clean and grease all the threads prior to reassembly.

EQUIPMENT SERIES

Type A thread adaptors, M series coupling, N series nipples, T series plugs.

Certificate ATEX: INERIS12ATEX0089X, certificate IEC Ex: INE 10.0014X

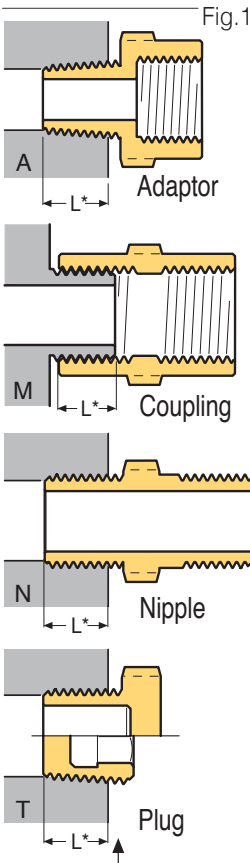
The thread adaptors, coupling, nipples and plugs are suited for all cable entries of electrical apparatus belonging to groups I and II, category M2 or II 2 GD (ATEX Directive), with protection modes Ex db I Mb, Ex eb I Mb, Ex db IIA/II B/II C Gb, Ex eb IIC Gb ed Ex tb IIIC Db (ATEX Directive and IEC Ex Scheme); ambient temperature range: -40°C/+100°C with EPDM or Nylon gaskets, -65°C/+220 °C with SILICONE/PTFE gaskets, -65°C/+400 °C without using gaskets.

All the aforementioned accessories are suitable for use on Ex d enclosures with a volume greater than 2 dm³.

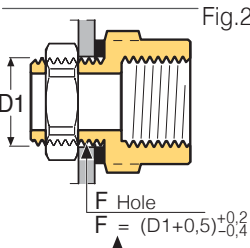
Ex db I Mb / Ex eb I Mb / Ex db IIA/II B/II C Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex tb IIIC Db execution in accordance with Standards EN 60079-0:2012 / EN 60079-1:2014 / EN 60079-7:2015 + A1:2018 / EN 60079-15:2010 / EN 60079-31:2014 EN 60529:1991 (ATEX), IEC 60079-0:2017 / IEC 60079-1:2014 + Cor1:2018 / IEC 60079-7:2015 + Amd1:2017 IEC 60079-15:2010 / IEC 60079-31:2013 / IEC 60529:1989+A1:1999+A2:2013 (IEC Ex). Degree of protection IP 66 or IP 66/68 at a depth of 30 meters for 7 days, according to EN60529; the degree of protection IP 68 can be obtained by using flat gaskets, on accessories with cylindrical or conical thread. Without these gaskets the degree of protection is IP 66. In the event that accessories with cylindrical or conical thread are screwed into the threaded hole of a piece of equipment, in order to guarantee the degree of protection IP66 or IP66/68, the coupling threads must be sealed with Loctite or similar. In order to maintain the IPX8 degree of protection, the cable entry shall be fitted on enclosure which satisfies an immersion test under 30 meters of water during 7 days.

INSTALLATION

- These products must be installed according to the requirements of Standards IEC EN 60079-14 or other national laws or standards. The EU type certificate does not cover different uses from what is described in the requirements.
- Verify the suitability of the cable glands in respects to the installation zone, group, category, temperature class, gas group and ambient temperatures.
- User must be aware of the risks related to electrical current and chemical / physical characteristics of the gases and / or vapors and of the dust present in the plant.
- Assembly and tightening of the cable glands have not to compromise the degree of protection.
- Verify the integrity and the continuity of the earthing, protection and equipotential conductors.
- You must use only RCN original spare parts and accessories, in accordance with the certificate.
- On Ex d enclosures, the length of the engaged parallel threads must be ≥ 5 mm on enclosures with a volume <100 cm³, and ≥ 8 mm if the volume is > 100 cm³. Engaged threads must be ≥ 5. On conical threaded joints, the threads for each part must be ≥ 6, considering the maximum tolerance accepted, the real number of engaged threads, might be less than 5.
- The user must use only one adaptor for the assembly of a cable entrance.
- The user must not close an adaptor or a coupling with a plug.
- These accessories are intended for the assembly of a cable entrance only.
- Accessories in aluminium are suitable only for Group II and Group III.



For protection mode "db" or "eb"
Screw body 1 in the equipment or ...



...fasten with a nut in case of clearance hole
For protection mode "eb"

MARKING

RCN (Type) (Thread) IECEx INE 10.0014X II3GD Ex nR IIC Gc CE 0080 INERIS 12ATEX0089X
⊗ IM2/II2GD Ex db I / Ex eb I Mb Ex db IIC Gb Ex eb IIC Gb Ex tb IIIC Db IP66 IP66/68

REDUCED MARKING

RCN (Type) (Thread) IECEx INE 10.0014X II3GD Ex nR IIC Gc CE 0080
INERIS 12ATEX0089X ⊗ IM2/II2GD Ex db/eb/tb IP66 IP66/68

Mark

Protection mode

- Ex db IIC Gb / Ex eb IIC Gb (gas)
- Ex nR IIC Gc (gas)
- Ex db I Mb / Ex eb I Mb (mine)
- Ex tb IIIC (dust)
- Mb (mine)

EPL

(Equipment protection level)

- Gb (gas - zone 1)
- Db (combustible dust - zone 21)

Degree of Protection

IEC Ex Certificate

- IEC Ex INE 10.0014X

ATEX Certificate

- INERIS12ATEX0089X

***Only ATEX**
The conical thread gas ISO10226 is valid only for ATEX certificate

IEC EN 60079-0		Directive 94/9/EC		
EPL	Group	Equipment Group	Equipment Category	Zones
Ma	I	I	M1	NA
Mb	I	I	M2	NA
Ga	II	II	1G	0
Gb	II	II	2G	1
Gc	II	II	3G	2
Da	III	II	1D	20
Db	III	II	2D	21
Dc	III	II	3D	22

STANDARD THREADS TABLE - IDENTIFYING ABBREVIATIONS																										
ISO 262-M		M12x1,5	I12	M16x1,5	I16	M20x1,5	I20	M25x1,5	I25	M32x1,5	I32	M40x1,5	I40	M50x1,5	I50	M63x1,5	I63	M75x1,5	I75	M80x1,5/2	I80	M85x1,5/2	I85	M90x1,5/2	I90	
ISO 228-G	G1/8	B10	G1/4	B12	G3/8	B16	G1/2	B20	G3/4	B25	G1"	B32	G1 1/4	B40	G1 1/2	B50	G2"	B63	G2 1/2	B75	-	-	-	-	G3"	B90
DIN 4034-Pg			Pg7	P12	Pg9	P16	Pg11	P20	Pg13,5	P25	Pg16	P32	Pg21	P40	Pg29	P50	Pg36	P63	Pg42	P75	-	-	-	-	Pg48	P90
ANSI B1.20.1-NPT	1/8 NPT	N10	3/8 NPT	N12	3/8 NPT	N16	1/2 NPT	N20	3/4 NPT	N25	1" NPT	N32	1 1/4 NPT	N40	1 1/2 NPT	N50	2" NPT	N63	2 1/2 NPT	N75	-	-	-	-	3" NPT	N90
*ISO 10226	R1/8	R10	R1/4	R12	R3/8	R16	R1/2	R20	R3/4	R25	R1"	R32	R1 1/4	R40	R1 1/2	R50	R2"	R63	R2 1/2	R75	-	-	-	-	R3"	R90

TABLE OF PROTECTION MODES - PLUGS					
Thread size	Thread type	Material	Ex eb Protection mode	Ex db Protection mode	
From 1/8" to 1/4"	NPT / ISO 10226	Brass	Y	N	
From 3/8" to 3"	NPT / ISO 10226	Brass	Y	Y	
From 1/8" to 1/4"	NPT / ISO 10226	Nickel plated brass	Y	N	
From 3/8" to 3"	NPT / ISO 10226	Nickel plated brass	Y	Y	
From 1/8" to 1/4"	NPT / ISO 10226	AISI 316 L	Y	N	
From 3/8" to 3"	NPT / ISO 10226	AISI 316 L	Y	Y	
From 1/8" to 1/2"	NPT / ISO 10226	Aluminum	Y	N	
From 3/4" to 1 1/2"	NPT / ISO 10226	Aluminum	Y	Y	
From 2" to 2 1/2"	NPT / ISO 10226	Aluminum	Y	N	
3"	NPT / ISO 10226	Aluminum	Y	Y	

MAINTENANCE Maintenance operations must be entrusted to personnel duly qualified and trained on the specific characteristics of the equipment in question, in accordance with standards IEC EN 60079-17.

I, the undersigned, hereby declare that the equipment referred to herein conforms to 2014/34/EU directive and IEC Ex Scheme.

Giulio Tinti Giulio Tinti - Technical Manager (ATEX Authorized Person).



TABELLA DEI MODI DI PROTEZIONE / TABLE OF PROTECTION MODES / TABLEAU DES MODES DE PROTECTION / TABELLE DER SCHUTZMODI

ADATTATORI MASCHIO-FEMMINA MASCHIO-MASCHIO FEMMINA-FEMMINA / ADAPTORS MALE-FEMALE MALE-MALE FEMALE-FEMALE

ADAPTATEUR MÂLE-FEMELLE MÂLE-MÂLE FEMELLE-FEMELLE

ADAPTER AUßENGEWINDE-INNENGEWINDE AUßENGEWINDE-AUßENGEWINDE INNENGEWINDE-INNENGEWINDE



OTTONE - OTTONE NICHELATO - AISI 316L / BRASS - NICKEL PLATED BRASS - AISI 316L
LAITON - LAITON NICKELÉ - AISI 316L / MESSING - MESSING VERNICKELT - AISI 316L

FEMALE	ISO 262										ISO 228							DIN 40430								NPT						EN 10226																				
	M12x1.5	M16x1.5	M20x1.5	M25x1.5	M32x1.5	M40x1.5	M50x1.5	M63x1.5	M75x1.5	M90x2	G1/8"	G1/4"	G3/8"	G1/2"	G3/4"	G1"	G1"1/4	G1"1/2	G2"	G2"1/2	G3"	Pg7	Pg9	Pg11	Pg13,5	Pg16	Pg21	Pg29	Pg36	Pg42	Pg48	1/8" NPT	1/4" NPT	3/8" NPT	1/2" NPT	3/4" NPT	1" NPT	1"1/4 NPT	1"1/2 NPT	2" NPT	2"1/2 NPT	3" NPT	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2
MALE																																																				
ISO 262	M12x1,5																																																			
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ISO 228	G1/8"																																																			
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	G3/8"																																																			
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	G3"																																																			
	DIN 40430	Pg7																																																		
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Ex db + Ex eb + Ex nR Ex eb + Ex nR

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ADATTATORI MASCHIO-FEMMINA MASCHIO-MASCHIO FEMMINA-FEMMINA / ADAPTORS MALE-FEMALE MALE-MALE FEMALE-FEMALE

ADAPTATEUR MÂLE-FEMELLE MÂLE-MÂLE FEMELLE-FEMELLE

ADAPTER AUßENGEWINDE-INNENGEWINDE AUßENGEWINDE-AUßENGEWINDE INNENGEWINDE-INNENGEWINDE



ALLUMINIO / ALUMINIUM / ALUMINIUM / ALUMINIUM

		FEMALE								MALE																																					
		ISO 262				ISO 228				DIN 40430				NPT				EN 10226																													
		M12x1.5	M16x1.5	M20x1.5	M25x1.5	G1/8"	G1/4"	G3/8"	G1/2"	G1"	G1 1/4"	G1 1/2"	G2"	G2 1/2"	G3"	Pg7	Pg9	Pg11	Pg13.5	Pg16	Pg21	Pg29	Pg36	Pg42	Pg48	1/8" NPT	1/4" NPT	3/8" NPT	1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT	3" NPT	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
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DIN 40430	Pg7																																														
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