



# Certificato di esame UE del tipo

EU-type examination certificate

**ECM 18 ATEX 3845 U**

Rilasciato ai sensi della direttiva 2014/34/UE – Allegato III - Modulo B  
Issued according to 2014/34/EU Directive – Annex III - Module B



**Richiedente**

**Applicant**

Ragione Sociale

TAVAN OMRAN SANAT (PEREX)

Company Name

Indirizzo

No 378, Between Mirzaye Shirazi and Sanayi, Motahari St, Tehran, Iran

Address

Luogo di produzione

No. 154 - Zone E2 - Shiraz Economic - Area - Shiraz - Iran

Place of production

Apparecchiatura

Stopping Plugs, Adaptors, Fittings

Equipment

Model PLG, RE, REB, CP, NP, UMF

Modo di protezione

Exdb

Type of protection

Questa apparecchiatura o sistema di protezione e le sue eventuali varianti accettate sono descritte nel presente Certificato e nell'allegato dello stesso. This equipment or protective system and any acceptable variation thereto are described in this Certificate and its Annex.

L'ECM, Organismo Notificato n° 1282 in conformità all'art. 17 della Direttiva 2014/34/UE del Parlamento europeo e del Consiglio del 26 febbraio 2014, certifica che questa apparecchiatura o sistema di protezione verificata secondo la procedura di cui all'allegato III, Modulo B, è conforme ai requisiti essenziali di sicurezza e salute per il progetto e la costruzione di apparecchiature e sistemi di protezione destinati ad essere utilizzati in atmosfere potenzialmente esplosive, definiti nell'allegato II della Direttiva.

ECM, Notified Body No. 1282 in accordance with Article. 17 of Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment or protective system was tested according to the procedure set out in Annex III, Module B, complies with the essential health and safety requirements for the project and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II of the Directive.

Le verifiche ed i risultati di prova sono registrati nel rapporto a carattere riservato n° PRD-2018-TOSTO45

The examination and test results are recorded in confidential report no. PRD-2018-TOSTO45


I requisiti essenziali di sicurezza e salute sono assicurati dalla rispondenza alle Norme applicate: EN 60079-0/A11:2013, EN 60079-1:2014, EN 60529/A2:2013

The essential health and safety requirements are assured by compliance with applied Standard: EN 60079-0/A11:2013, EN 60079-1:2014, EN 60529/A2:2013

Questo Certificato di esame UE del tipo è relativo soltanto al progetto, all'esame ed alle prove dell'apparecchiatura o sistema di protezione specificato in accordo con la Direttiva 2014/34/UE. Ulteriori requisiti di questa Direttiva si applicano al processo di produzione e fornitura dell'apparecchiatura o sistema di protezione: questi requisiti non sono oggetto del presente certificato.

This EU-type examination certificate relates only to the design, examination and tests specified equipment in accordance with Directive 2014/34/EU. Further requirements of the Directive shall be applied to the manufacturing process and supply condition: these requirements are not covered by this certificate.

L'apparecchiatura o il sistema di protezione deve riportare i seguenti contrassegni:

The equipment shall be marked with the following symbols:  II 2G Ex db IIC Gb, II 2D Ex tb IIIC Db

Valsamoggia (BO)

Data - Date 11/10/2018

Timbro



Firma autorizzata

Authorized signature

Amanda Payne  
(Deputy Manager)

Questo certificato, incluso l'allegato, può essere riprodotto solo integralmente e senza alcuna variazione.  
This certificate, annex included, can only be reproduced in its entirety and without any change.



# Allegato I

## Annex I

### ECM 18 ATEX 3845 U

Rilasciato ai sensi della direttiva 2014/34/UE – Allegato III - Modulo B  
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- **Description of equipment:**

The Adaptors (Reduce and Increase) RE, REB series are ranges of hexagonal bodied metallic adaptors. Each comprises a hollow body with an external male thread and an internal female thread. The devices are used to convert an existing cable entry aperture to a different thread form and/or size. Thread combinations are such that minimum wall thickness should be maintained.

The Stopping Plugs PLG series are range of threaded each comprising a threaded body with a hexagonal socket for tightening. The devices are used to close unused apertures in associated component.

The Nipples NP series comprise a cylindrical straight body with male threaded on each end. They are used for the protection of wire conductors and intended to connect to cast hubs on drilled and tapped openings.

The Couplings CP series comprise a cylindrical straight body with female threaded on each end. They are used for the protection of wire conductors and intended to connect conduit to hubs on drilled and tapped conduit openings.

These Union (male-female) UMF series are available as either inline or 90° elbow thread union fittings. They have a male thread on the front entry body and a female thread on the rear sleeve, sealing, in the form of a silicon gasket, is provided between the two parts. Each union can be fitted with an anti-rotation device, lockstep, this retains the position of the union once it is installed.

Their mating thread fitted with an O-ring seal to provide increased ingress protection.

- **Entry components thread forms:**

Metric ISO 965-1, ISO 965-3 medium fit (6g)  
NPT ANSI/ASME B1.20.1

- **Materials of manufacture and reference code:**

Item	Materials	Code
1	Brass (Nickel Plated Brass)	B
2	Aluminum Alloy ( 7000 Series)	A
3	Galvanized Steel	G
4	Stainless Steel 316	S

- **Thread size and reference code for (Stopping Plugs, Nipple, Couplings, Unions)**

ISO Metric		NPT	
Size	Code	Size	Code
M20x1.5	1I	1/2"	1N
M25x1.5	2I	3/4"	2N
M32x1.5	3I	1"	3N
M40x1.5	4I	1.1/4"	4N
M50x1.5	5I	1.1/2"	5N
M63x1.5	6I	2"	6N
M75x1.5	7I	2.1/2"	7N
M90x1.5	8I	3"	8N

- **Thread size and reference code for Increase Adaptor**

ISO Metric Thread			NPT Thread		
REF. Code	Male	Female	REF. Code	Male	Female
REB-12I	M20x1.5	M25x1.5	REB-12N	1/2"	3/4"
REB-23I	M25x1.5	M32x1.5	REB-23N	3/4"	1"
REB-34I	M32x1.5	M40x1.5	REB-34N	1"	1.1/4"
REB-45I	M40x1.5	M50x1.5	REB-45N	1.1/4"	1.1/2"
REB-56I	M50x1.5	M63x1.5	REB-56N	1.1/2"	2"
REB-67I	M63x1.5	M75x1.5	REB-67N	2"	2.1/2"
REB-78I	M75x1.5	M90x1.5	REB-78N	2.1/2"	3"

- **Thread Size and reference code for Reduce Adaptor**

ISO Metric Thread			NPT Thread		
REF. Code	Male	Female	REF. Code	Male	Female
RE-21I	M25x1.5	M20x1.5	RE-21N	3/4"	1/2"
RE-32I	M32x1.5	M25x1.5	RE-32N	1"	3/4"
RE-43I	M40x1.5	M32x1.5	RE-43N	1.1/4"	1"
RE-54I	M50x1.5	M40x1.5	RE-54N	1.1/2"	1.1/4"
RE-65I	M63x1.5	M50x1.5	RE-65N	2"	1.1/2"
RE-76I	M75x1.5	M63x1.5	RE-76N	2.1/2"	2"
RE-87I	M90x1.5	M75x1.5	RE-87N	3"	2.1/2"

- **Type designation code:**

Model code: PLG-AD, NP-AD, CP-AD, UMF-AD, REB-BD, RE-CD

Where:

Stopping Plugs PLG series ("PLG-1 ... PLG-8")

Nipples NP series ("NP-1 ... NP-8")

Couplings CP series ("CP-1 ... CP-8")

Unions (Male-Female) UMF series ("UMF-1 ... UMF-8")

Adaptors (Increase) REB series ("REB-12 ... REB-78")

Adaptors (Reduce) RE series ("RE-21 ... RE-87")

**A** = Thread size and reference code for Stopping Plugs, Nipples, Couplings and Unions. (Table 2)

**B** = Thread size and reference code for Increase Adaptors. (Table 3)

**C** = Thread size and reference code for Reduce Adaptors. (Table 4)

**D** = Materials of manufacture and reference code (Table 1)

- **Other characteristics:**

The components subject of this certificate are reported in the schedule drawings.

- **Schedule of limitations (Special Condition for Safe Use):**

The Explosion Proof Stopping Plugs, Adaptors and Fittings intended to be part of Ex equipment, marked with the symbol "U", which is not intended to be used alone, and requires additional consideration when incorporated into Ex equipment.

- This certificate relates only to the component specified herein as executed in the samples supplied for evaluation.
- An Ex component certificate shall state that it is not an Ex equipment certificate.
- Stopping Plug shall not be used with any form of (Adaptors, Unions, Couplings).
- Service Temperature Range: **-30°C to +140°C**

- **Descriptive documents:**

Routine Tests: Non

Test Report No.:

Schedule Drawing No.:

For CP Series: (TAVAN OMRAN REF.: TD-100~101-00)

For NP Series: (TAVAN OMRAN REF.: TD-200~201-00)

For PLG Series: (TAVAN OMRAN REF.: TD-300~301-00)

For REB, RE Series: (TAVAN OMRAN REF.: TD-401~404-00)

For UMF Series: (TAVAN OMRAN REF.: TD-500~508-00)

Technical File No.: