

SCHEDULE

to EC-Type Examination Certificate KEMA 01ATEX2213 U

EC-TYPE EXAMINATION CERTIFICATE

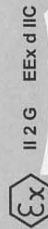
- (1) Components intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (2) EC-Type Examination Certificate Number: **KEMA 01ATEX2213 U**
- (3) Components: **Flexible conduit type FNN**
- (4) Manufacturer: **CO.SI.ME. S.R.L.**
- (5) Address: **Via Asiago, 51, 20218 Milan, Italy**
- (6) These components and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (7) KEMA Quality B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that these components have been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components intended for use in potentially explosive atmospheres given in Annex II to the directive.
- (8) The examination and test results are recorded in confidential report no. 2013898.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014 : 1997 EN 50018 : 2000

- (10) The sign "U" placed after the certificate number indicates that this certificate describes components and must not be mistaken for a certificate intended for an equipment or protective system. This EC-Type Examination Certificate may be used as a basis for certification of an equipment or protective system.

- (11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified components according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of these components. These are not covered by this certificate.

- (12) The marking of the components shall include the following:



Arnhem, 15 November 2002
KEMA Quality B.V.

T. Pijpker
Certification Manager

* This Certificate may only be reproduced in its entirety and without any change



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ACCREDITED BY THE
DUTCH COUNCIL FOR
ACCREDITATION

(13)

(14)

(15)

Description

Flexible conduit type FNN, in type of explosion protection flameproof enclosure "d", provided with two threaded end fittings, max. length 5 meter.

Operating temperature range: - 20 °C ... + 80 °C.

The relation between end fitting size and model code of the flexible conduit is shown in the table below.

Size	Code
1/2"	FNN 1
1/2"	FNN 1A
3/4"	FNN 2
3/4"	FNN 2A
1 "	FNN 3
1 1/4"	FNN 4
1 1/2"	FNN 5
2"	FNN 6
2 1/2"	FNN 7
3"	FNN 8
4"	FNN 9

Installation instructions

The installation instructions as provided by the manufacturer shall be followed in detail in order to assure proper and safe operation of the flexible coupling.

(16)

Report

KEMA No. 2013898.

(17)

Special conditions for safe use

None

(18)

Essential Health and Safety Requirements

Covered by the standards listed at (9).

(19)

Test documentation

dated

1. Technical Note AC10014TN (2 pages) 08.08.2001

2. Installation and maintenance instructions
IU-FNN 08.08.2001

3. Drawing No. AC10014 08.08.2001

TUBI FLESSIBILI FNN
FLEXIBLE COUPLINGS FNN

REV	0	1	2	3	4
DATA	08/08/01				
EXE by	M.T.				
CHK by	F.C.				
APP by	M.T.				

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Questo documento non può essere modificato senza l'approvazione dell' Organismo Notificato.
This document cannot be modified without approval of the Notified Body.



1 Istruzioni di sicurezza

Queste istruzioni devono essere conservate in luogo sicuro per future consultazioni. Per personale esperto e qualificato in accordo alle Leggi nazionali, in accordo alle relative Norme e, dove applicabile, in accordo alla IEC-79-17 per costruzioni elettriche per atmosfere potenzialmente esplosive. Questa costruzione elettrica deve essere installata solo per l'utilizzo per il quale è destinata. Non è ammessa alcuna modifica alla costruzione elettrica. Rispettare le caratteristiche elettriche indicate sulla costruzione.

1 Safety instructions

These operating instructions must be kept in safe place for later consultations. For skilled and experienced personnel according with the national laws, the relevant standards and, where applicable, according with IEC-79-17 standards for electrical apparatus for potentially explosive atmospheres. This electrical apparatus must be used for its intended purpose. No modifications to the electrical apparatus shall be allowed. Observe the electrical features indicated on the apparatus.

2 Conformità alle Norme

La costruzione elettrica è conforme a :
 Norme EN 50014, EN 50018 ed alla Direttiva 94/9/EC. Componente per zona 1 e zona 2 (IEC 79-14 / CEI EN 60079-14).

2 Conformity with standards

The electrical apparatus meet the requirements of: EN 50014, EN 50018 and Directive 94/9/EC. Component for zone 1 and zone 2 (IEC 79-14 / CEI EN 60079-14).

3 Dati Tecnici - Technical data

Modo di protezione : Protection mode :	EEx d IIC (EN 50014)	II 2 G (Directive 94/9/EC)
Certificato di esame CE del tipo : EC-type examination certificate :	KEMA 01ATEX2213U	
Temperatura ambiente [°C] :-20 ÷ +40 Ambient temperature [°C] :	Temperatura ambiente speciale [°C] : Special ambient temperature [°C] :	-20 ÷ +80

4 Installazione

Il componente può essere installato solo se esente da danni. Rispettare le Norme nazionali in materia di costruzioni elettriche per atmosfera potenzialmente esplosiva. Utilizzare solo accessori forniti da CO.SI.ME. per l'installazione del componente. Prima di installare il tubo flessibile verificare che i giunti filettati siano lubrificati ed esenti da corpi estranei e difetti.

4 Installation

The component shall be installed in absence of damages. Observe the national standards concerning electrical apparatus for potentially explosive atmospheres. Utilize the installation accessories supplied by CO.SI.ME. For the installation of the component. Before installing the flexible coupling, check that threaded joint were lubricated and free of foreign matters and deformations.

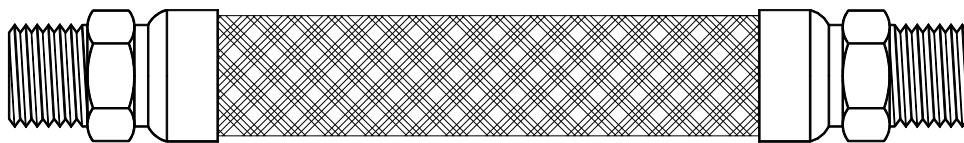


5 Manutenzione

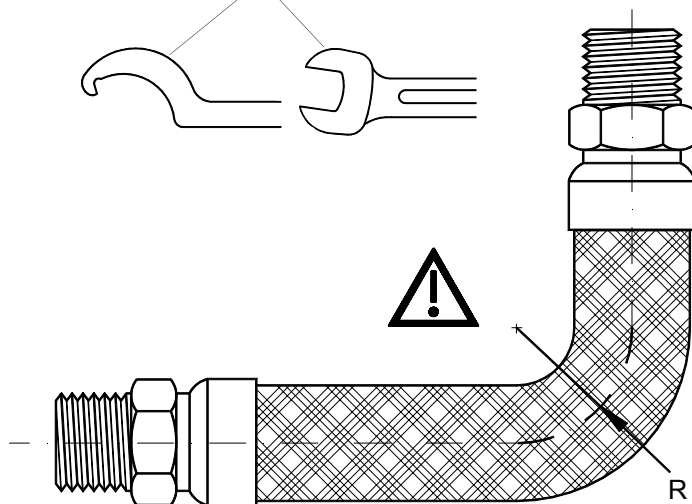
Non sono ammesse riparazioni o sostituzioni. In caso di danneggiamento del componente procedere alla sostituzione. Utilizzare per il montaggio e lo smontaggio del componente l'utensile appropriato (vedi figura). Rispettare i raggi di curvatura indicati in tabella. Durante la movimentazione, il montaggio e lo smontaggio del tubo flessibile indossare sempre guanti protettivi.

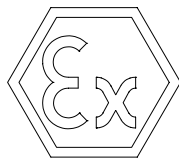
5 Maintenance

Repairs and replacements not allowed. Damaged components must be replaced. To install and uninstall the component use the fit tool (see figure). Observe radius of curvature indicated in the table. Use always protective gloves While handling, installing and uninstalling the flexible coupling.



Grandezza Size	Raggio minimo di curvatura R [mm] Minimum radius of curvature R [mm]
1 (1/2")	250
1A (1/2")	265
2 (3/4")	265
2A (3/4")	275
3 (1")	310
4 (1 1/4")	320
5 (1 1/2")	395
6 (2")	520
7 (2 1/2")	670
8 (3")	725
9 (4")	880





Attestato di conformità dei componenti *Attestation of conformity of components*

Noi
We

CO.SI.ME. Srl
Via Asiago, 51
20128 Milan
ITALY

Dichiariamo sotto la nostra esclusiva responsabilità che i prodotti :
Declare under our sole responsibility that the products :

Tubi flessibili tipo **FNN**
Flexible couplings FNN type

ai quali questo attestato si riferisce sono conformi alla Direttiva comunitaria ATEX 94/9/CE
to which this attestation relates are in conformity with the community Directive ATEX 94/9/EC

e sono costruiti in accordo alle seguenti Norme :
and they are manufactured in conformity with the following Standards :

EN 50014 : 1997 + A1/A2 : 1999
EN 50018 : 2000

Certificato di esame del componente :
Examination certificate of the component :

KEMA 01 ATEX 2213 U

Nome dell' Organismo incaricato della sorveglianza ai fini della qualità : **CESI**
Name of Body involved in the production quality system surveillance :

N° dell' Organismo notificato
N° of the notified Body

0722

Milano, 08 august 2001
(luogo e data)
(place and date of issue)

Ing. Massimo Tonetti
(nome e firma o timbratura equivalente della persona autorizzata)
(name and signature or equivalent marking of authorised person)