

# (1) EC-TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in  
Potentially Explosive Atmosphere - **Directive 94/9/EC**
- (3) EC-Type-Examination Certificate Number

## TÜV 11 ATEX 7156 X

- (4) Equipment: **600 Range of Adaptors, 700 Range of Reducers and 800 Ranges of Stopping Plugs**
- (5) Manufacturer: **Shomal Engineering & Manufacturing (Pirooz) Ltd.**
- (6) Address: **Salmanshahr Industrial Park, Salmanshahr, Mazandaran  
Iran**

- (7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Notified Body for ex-protected products of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report 557/Ex156.00/11

- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

**EN 60079-0: 2009    EN 60079-1: 2007    EN 60079-7: 2007    EN 60079-31: 2009**

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EC-Type-Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:

**Ex II 2 G D   Ex d IIC Gb / Ex e IIC Gb / Ex t IIIC Db**

TÜV Rheinland Certification Body for explosion protected equipment

Cologne, 15<sup>th</sup> May 2013

Dipl.-Ing. Klaus Peter Graffi



(Translation)

This EC-Type-Examination Certificate without signature and stamp shall not be valid.

It may be circulated only without alteration.

Extracts or alterations are subject to approval by the:

TÜV Zertifizierungsstelle für Ex-Schutz-Produkte

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Precisely Right.

(13) Annex

(14) **EC - Type Examination Certificate**  
**TÜV 11 ATEX 7156 X**

(15) Description of equipment:

15.1 Equipment and type:

600 series range of adaptors, 700 series range of reducers and 800 series range of stopping plugs with ISO Metric thread form

15.2 Description

The 600 and 700 Series are ranges of hexagonal bodied metallic adaptors and reducers. Each comprises a hollow body with an external male thread inclusive of a loose fitting "O" ring seal and an internal ISO Metric female thread to BS3463. 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.

Reducers convert an existing cable entry apertures thread form size to accommodate a certified device having smaller thread form size.

Adaptors convert an existing cable entry aperture thread form size to accommodate a certified device having a larger thread form size.

The 800 Series are a range of stopping plugs each comprising a hexagonal head for tightening and a male threaded spigot inclusive of a loose fitting "O" ring seal with a partially recessed bore. The devices are used to close unused apertures in associated enclosures.

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### 15.3 Technical Data

Service temperature  $T_s = -20^\circ\text{C}$  to  $+75^\circ\text{C}$

IP rating 66

Nominal Thread Size*	Applicable Torque [Nm]
M16 & M20	40
M25	55
M32	65
M40	80
M50	100
M63	195
$\geq M75$	310
For other thread forms, equivalent thread size corresponding to ISO Metric should be used	

**Spreadsheet 1: Torque table**

(16) Test Report No.

557/Ex 156.00/11

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(17) Special Conditions for safe use / Remarks for safe usage:


1. Two adaptors installed in series, is not permitted under certification.
2. Do not use a Stopping plug to close off the female thread of the Adaptor/Reducer.
3. Ensure that the product is certified to the same method of protection as the equipment to which it is to be installed.
4. Ensure that the correct thread form and size is selected for the cable gland entry of the enclosure to which the product will be fitted.
5. Ensure that the product can maintain the same Ingress Protection levels as the equipment to which it is to be installed.
6. Change in dimensions, marking, and finish of the product is not permitted.
7. Usage other than those specified in product catalogue is not permitted.
8. See product packaging for the Material of Construction.
9. The products shall not be used in enclosures where the temperature, at the point of mounting is outside the range of -20°C to +75°C.

(18) Basic Safety and Health Requirements

Fulfilled by the afore mentioned standards.

TÜV Rheinland Certification Body for explosion protected equipment

Cologne, 15<sup>th</sup> May 2013

  
Dipl.-Ing. Klauspeter Graff

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