

# ATTESTATION OF CONFORMITY

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Attestation number

*Attestazione numero* : 3504571.51

Issued to

*Rilasciata a* : AIR TORQUE S.p.A  
Via dei Livelli di Sopra, 11  
24060 Costa di Mezzate (BG)

Manufacturer

*Costruttore* : AIR TORQUE S.p.A  
Via dei Livelli di Sopra, 11  
24060 Costa di Mezzate (BG)

Product Type

*Tipo prodotto* : PNEUMATIC ACTUATOR

Model reference

*Riferimento Modello* : AIR TORQUE S.p.A: AT501U S12 A F10+F12 27D (4thGU Series)  
AIR TORQUE GmbH: SC00600-6UF10F1227A (4thGU Series)

Testing Laboratory

*Laboratorio prove* : DEKRA Testing and Certification S.r.l.  
Via Martiri della Liberazione, 12  
I-23875 Osnago (LC)

Test Report ref. No.

*Rapporto di prova Nr.* : 3504571.50+3503656.52

Requirements

*Requisiti* : EN 60529:1991+ A1:2000 (IP68M)

The undersigned declares that the above described product meets the above mentioned technical specification. This attestation of conformity is issued based on the test results as laid down in the referred Test Report. The investigation does not include an assessment of the manufacturer's production.

*Il sottoscritto dichiara che il prodotto di cui sopra è conforme ai requisiti tecnici menzionati. Questo attestato di conformità è rilasciato sulla base dei risultati di prova riferiti nel rapporto sopra menzionato.*

*La valutazione non include una verifica del luogo di produzione.*

Date of issue

*Emesso in data* : 2016-01-18

Luca Casiraghi  
Project Manager


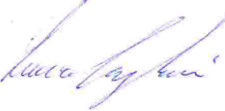
DEKRA Certification B.V. Meander 1051, 6825 MJ Arnhem P.O. Box 5185, 6802 ED Arnhem The Netherlands  
Tel +31 88 96 83000; Fax +31 88 96 83100; www.dekra-certification.com; Registered Arnhem 09085396

# TEST REPORT

## EN 60529

### DEGREES OF PROTECTION PROVIDED BY ENCLOSURES (IP CODE)

Report reference No. .... : 3504571.50  
Compiled by (+ signature)..... : Stefano Castelli  
Approved by (+ signature)..... : Luca Casiraghi  
Date of issue ..... : 2016-01-15  
Contents..... : 8 pages

#### Testing laboratory

Name..... : DEKRA Testing and Certification S.r.l.  
Address..... : Via Martiri della Liberazione, 12 I-23875 Osnago (LC)  
Testing location..... : As above

#### Client

Name..... : AIR TORQUE S.p.A.  
Address ..... : Via dei Livelli di Sopra, 11  
..... : 24060 Costa di Mezzate (BG)

#### Test specification

Standard..... : EN 60529:1991+ A1:2000  
Test procedure ..... : N/A  
Procedure deviation ..... : N/A  
Non-standard method..... : —  
Date of performance of the tests..... : 2016-01-12 to 2016-01-15

#### Test item

Description ..... : PNEUMATIC ACTUATOR  
Trademark..... : AIR TORQUE S.p.A.  
Model and/or type reference..... : AIR TORQUE S.p.A.: AT501U S12 A F10+F12 27D (4thGU Series)  
AIR TORQUE GmbH: SC00600-6UF10F1227A (4thGU Series)  
Manufacturer..... : AIR TORQUE S.p.A.



**Test case verdicts**

Test case does not apply to the test object.....: N/A

Test item does meet the requirement.....: P(Pass)

Test item does not meet the requirement.....: F(Fail)

**Testing**

Date of receipt of test item ..... : January 11, 2016

Date(s) of performance of test..... : January 12, 2016 to January 15, 2016

**General remarks**

This test report shall not be reproduced except in full without the written approval of the testing laboratory.

The test results presented in this report relate only to the item tested.

Throughout this report a comma is used as the decimal separator.

The tests have been carried out at the above testing location

**Atmospheric conditions for water or dust tests**

|      |   |  |
|------|---|--|
| 11.1 | <b>General requirements for tests</b>   |  |
|      | Ambient Temperature $T_a$   | 21 °C  |
|      | Ambient Relative humidity $U_r$   | 48 %   |
|      | Ambient Air pressure $P$  | 988 mbar   |
| 11.2 | <b>Tests sample</b>   |  |
|      | Samples in a clean and new condition, with all parts in place and mounted in the manner stated by the manufacturer. | YES <input checked="" type="checkbox"/><br>NO <input type="checkbox"/> |

## TEST DESCRIPTIONS AND TEST RESULTS

### **Water Test: IPX8M**

#### **Description:**

The test was made by completely immersing the enclosure in water in its service position as specified by the manufacturer so that the following conditions was satisfied:

- a) the lowest point of enclosures with a height less than 850 mm was located 1 000 mm below the surface of the water;
- b) pressure measured during the test was 3 bar (30 mt);
- c) the duration of the test was 48 h;
- d) the water temperature did not differ from that of the equipment by more than 5 K.
- e) Frequency of movement actuator: open/close every 24 h

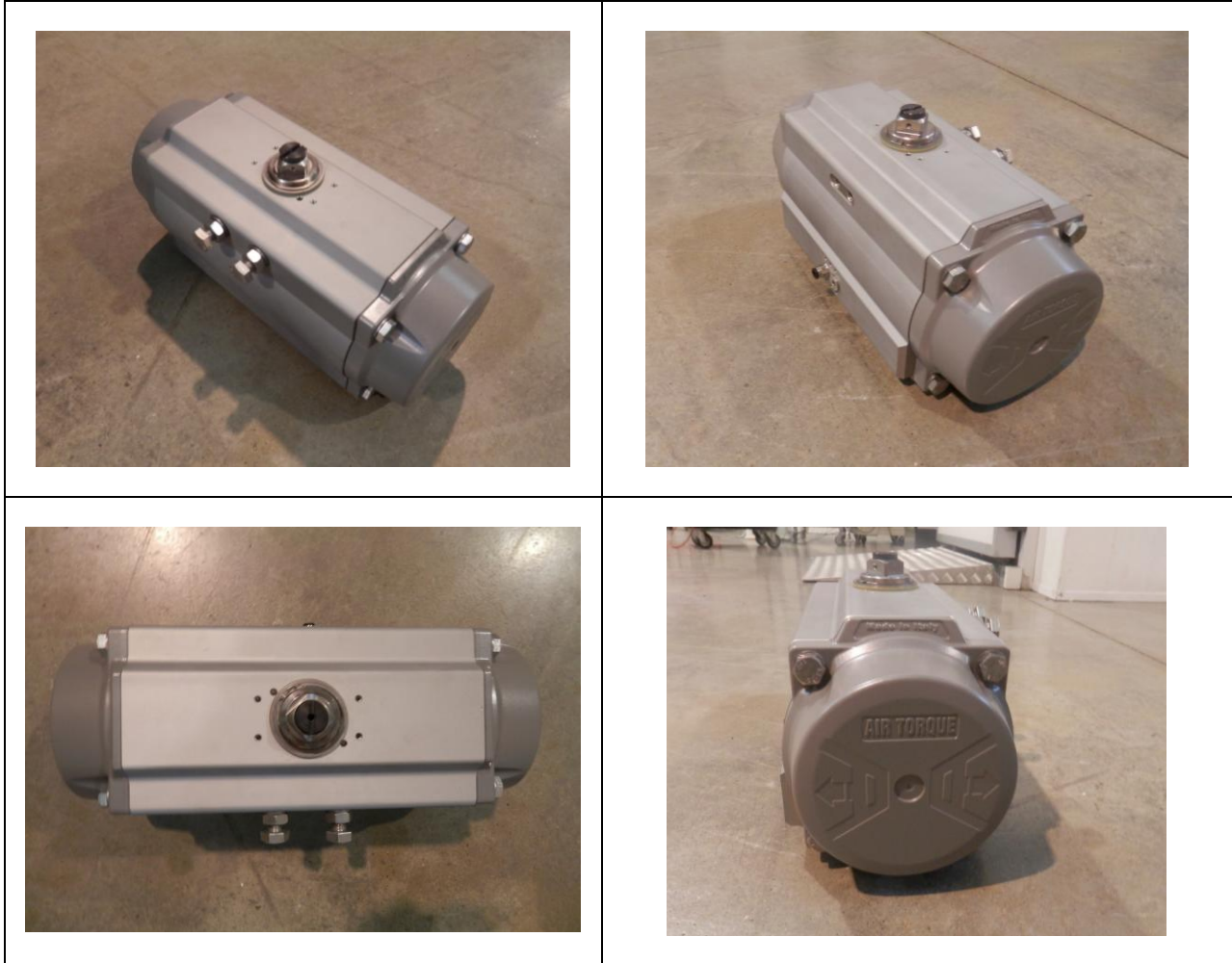
#### **Supplementary letters:**

M: Tested for harmful effects due to the ingress of water when the movable parts of the equipment (for example, the rotor of a rotating machine) are in motion

#### **Results:**

**PASS:** No accumulation of water in the equipment under test

**PHOTOGRAPHS**



**PHOTOGRAPHS**



**PHOTOGRAPHS AFTER TEST IPX8**





**TEST AND MEASURING EQUIPMENT LIST**

| Dekra Ref. | Type                  | Manufacturer      | Model  | Serial Number | Calibration (mm/yy) |          | Remarks |
|------------|-----------------------|-------------------|--------|---------------|---------------------|----------|---------|
|            |                       |                   |        |               | Last date           | Due date |         |
| AT 0429    | Chronometer           | Oregon Scientific | SL928M | AT0429        | 02/15               | 02/16    |         |
| ST 0985    | Pressure gauge 10 Bar | Nuova Fima        | MT18   | A03300        | 11/14               | 11/16    |         |