



RINA

## CE TYPE EXAMINATION CERTIFICATE

CERTIFICATE Nr. PPE116710CS

*We certify, as notified body (no.0474), that the following personal protective equipment is in compliance with the essential safety requirements of the Directive 89/686/EEC.*

*Description*

**Self- contained re-breathing diving apparatus**

*Type*

**MEGALODON APECS**

*Applicant*

**INNERSPACE SYSTEM CO.**

P.O.BOX 448  
CENTRALIA WASHINGTON  
U.S.A.

*Reference standards*

**prEN14143:2009 (doc.310)**

*Reference documents*

**Rules for the Certification of Personal Protective Equipment**

*Issued at Genoa on*  
March 7, 2011

*This Certificate is valid until*  
March 6, 2016

*This Certificate consists of this sheet plus an attachment*



**Dino Ettore Cervetto**

HEAD OF TECHNICAL SERVICES UNIT

*and*



RINA

**ATTACHMENT TO  
CERTIFICATE Nr. PPE116710CS**

Page 1 of 2

*Manufacturer*

**INNERSPACE SYSTEM CO.**

*Place of Manufacturer*

P.O.BOX 448  
CENTRALIA WASHINGTON  
U.S.A.

**TECHNICAL DATA**

**Breathing circuit**

**Pressure vessel**

**Gas control**

MEGALODON

double cylinder (230 bar)

HUD + APECS controller

**TECHNICAL DOCUMENTATION EXAMINATION**

**Technical documentation content:**

- Manufacturer Test results for CE compliance
- Certificates other components (pressure gauge, hoses and valves)
- Assembly drawings and part list;
- Failure mode effect and criticality analysis (FMECA)
- MEGALODON Closed circuit rebreather manual - APECS Operational Instructions

**TYPE EXAMINATION**

| <b>Standard</b>          | <b>Reference</b> | <b>Test</b>                                      |
|--------------------------|------------------|--|
| prEN14143:2009 (doc.310) | 6.3              | Breathing circuit                                |
| prEN14143:2009 (doc.310) | 6.4              | Hydrostatic imbalance                            |
| prEN14143:2009 (doc.310) | 6.5              | Breathable volume                                |
| prEN14143:2009 (doc.310) | 6.6              | Apparatus endurance                              |
| prEN14143:2009 (doc.310) | 6.7              | Inspired oxygen level                            |
| prEN14143:2009 (doc.310) | 6.8              | Hoses assemblies                                 |
| prEN14143:2009 (doc.310) | 6.9              | Burst pressure of high and medium pressure parts |
| prEN14143:2009 (doc.310) | 6.10             | Safety device                                    |
| prEN14143:2009 (doc.310) | 6.12             | Electrical system, EMC                           |
| prEN14143:2009 (doc.310) | 6.13             | Resistance to specific temperatures tests        |
| prEN14143:2009 (doc.310) | 6.15             | Practical performance tests                      |
| prEN14143:2009 (doc.310) | 6.16             | Oxygen pressure surge test                       |
| prEN14143:2009 (doc.310) | 6.17             | Casing and monitors                              |
| prEN14143:2009 (doc.310) | 6.18             | Sea water resistance                             |

- RINA Test Report No. 2010CS01 1167 dd. 16/02/11.



*mdw*



RINA

**ATTACHMENT TO  
CERTIFICATE Nr. PPE116710CS**

**Page 2 of 2**

*On the basis of Article 13, this Certificate allows the manufacturer to affix the following marking to the product described above.*



**"MARKING FORMAT"**

**XXXX** Notified Body number undertaking manufacturing surveillance

*The Mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production control according to Article 11A or 11B of the Directive is fully complied with a written inspection agreement with a Notified Body.*

***General conditions for the approval***

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) This certificate will no be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA
- d) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on the market.



**Dino Ettore Cervetto**