



Marine &amp; Offshore

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This certificate is not valid when presented without the full attached schedule  
composed of 7 sections  
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Notified Body 2690 - MARINE EQUIPMENT DIRECTIVE 2014/90/EU

## EC TYPE EXAMINATION CERTIFICATE

as per Module B of Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations and Commission Implementing Regulation (EU) 2020/1170 of 16 July 2020

This certificate is issued to:

**DESAUTEL**

MEYZIEU - FRANCE

for the type of product

### PORTABLE FIRE EXTINGUISHERS

PORTABLE PULVERIZED WATER AND FOAM 9L EXTINGUISHERS (MED005) : Types PPE9A2, E9, AL9W+, AL9S-30, E9A1EVT, E9A1EV, AL9SK & E9A6EVP.

Trade names : DESAUTEL, AUCA, MIM, SURVITEC, KENBRI

**Requirements:**

SOLAS 74 convention as amended, Regulations II-2/4, II-2/10, II-2/18, II-2/19, II-2/20, X/3

IMO Res. MSC.36(63) -(1994 HSC Code)- as amended, 7

IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 7

IMO Res. MSC.98(73) -(FSS Code)- as amended by MSC.206(81), MSC.217(82), MSC.292(87), MSC.311(88), MSC.327(90) and MSC.339(91), 4

IMO Res. MSC.391(95) - (IGF Code)- as amended, 11

IMO Res. A.951(23), IMO MSC/Circ.1239 incl. Corr.1 and IMO MSC/Circ.1275

EN 3-7:2004 incl. /A.1:2007, EN 3-8:2006 incl. /AC:2007, EN 3-9:2006 incl. /AC:2007 and EN 3-10:2009

This certificate is issued on behalf of the French Maritime Authorities to attest that Bureau Veritas Marine & Offshore did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations.

**This certificate will expire on: 03 Mar 2026****For Bureau Veritas Marine & Offshore Notified Body 2690,**

At BV LYON, on 03 Mar 2021,

Yann Krempelwicz



This certificate does not allow to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark ) to the products corresponding to this type. To this end, the production-control phase module (D, E or F) of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. Bureau Veritas Marine & Offshore is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

Stored pressure extinguisher with pulverized water

Type	<b>PPE9A2</b>
Capacity Water	9 litres
Total Weight	~ 15 kg
Temperature Range of Use	+5°C to +60°C
Propelling Gas	N <sub>2</sub> + He or compressed air
Additive (2%)	BSX 233 (0.18 L in premixed)
Discharge Time	42.6 seconds
Test Pressure (cylinder)	30 bar
Design Pressure (at 60°C)	14 bar
Diameter	D185 mm
Overall Height	~ 680 mm
Hose Length	650 – 1200 mm
Fire Class	21 A – 233B
Usable on live electrical equipment	Yes (see §4.3 for limitations of use)

Water extinguishers (Class A only):

Type	<b>E9</b>	<b>AL9W+</b>
Global capacity (water)	9L	9L (8.55L)
Additive	-	0.45L F334 (5%)
Total Weight	~ 16 Kg	~ 16 Kg
Temperature Range of Use	+5° C to +60° C	
Propelling Gas	CO <sub>2</sub> ; 60 g	
Discharge Time	42.6 s	
Test Pressure (cylinder)	26 bar	
Design Pressure (at 60°C)	16.8 bar	
Diameter	D170 mm	
Overall Height	~ 780 mm	
Hose Length	600 to 800 mm	
Fire Class	21A	43A
Usable on live electrical	Yes (see §4.3 for limitations of use)	

## Foam Extinguishers (Class A &amp; B):

Type	AL9S-30	E9A1EVT	E9A1EV	AL9SK	E9A6EVP
Global capacity (water)	9L EXD-30	9L (6.91L)	9L (8.91L)	9L (8.46L)	9L (8.46L)
Additive	-	0.09L AFFF EX1BT + 2L Antifreeze MEG	0.09L AFFF (EX1 or BSX233 or Compact)	0.09L EX1 + 0.45L F334	0.54 L Polyfoam 3/6S
Total Weight	~ 16 Kg				
Temperature Range of Use	- 30°C to + 60°C	-10°C / 60°C	+5°C to +60°C		
Propelling Gas	CO <sub>2</sub> ; 80 g	CO <sub>2</sub> ; 60 g			
Discharge Time	37.9 s	36.3 s	38 s	39 s	29.57 s
Test Pressure (cylinder)	26 bar				
Design Pressure (at 60°C)	16.8 bar				
Diameter	D170 mm				
Overall Height	~ 780 mm				
Hose Length	600 to 800 mm				
Fire Class	27A/233B	13A/183B	27A/233B	43A/233B	27A/183B and Polar solvent
Usable on live electrical equipment	Yes (see §4.3 for limitations of use)				

## Other materials and/or components:

Cylinder	Steel
Operative Valve	Aluminium alloy
Siphon tube	PVC
Hose	Reinforced rubber
Nozzle	Polyamide
Mounting Bracket	Steel

**2. DOCUMENTS AND DRAWINGS:**

As per Manufacturer's documents and drawings:

Type	PPE9A2
Extinguisher PPE9A2	UDA00650 Issue A
Body M74	UDA00611 Issue A
Head cap with dip tube	UDA00612 Issue A
Hose 1200mm M14	UDA00615 Issue A
Nozzle	UDA00326 Issue A
Informative form	6059018 Ed 01
Maintenance manual	6080021 Ed 01

Type	E9	AL9W+	AL9S-30
Extinguisher 9L	UDA00440 Issue B		
Body	UDA00036 Issue C		
Head cap with CO <sub>2</sub> cartridge	UDA00312 Issue B01		
Head cap M18	UDA00300 Issue C		
CO <sub>2</sub> cartridge	60g UDA00600 Issue B	80g UDA00600 Issue B	
Hose and nozzle connectors M18	UDA00302 Issue B		
Nozzle	0312470		
Mounting support	UDM021 Issue A & UDA00320 Issue A		
Informative form	n° 6080044 Ed 10	n° 6080160 Ed 00	n° 6080690 Ed 01
Maintenance manual	n° 6080130 Ed 02	n° 6080161 Ed 00	n° 6080161 Ed 00

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Type	E9A1EVT	E9A1EV	AL9SK	E9A6EVP
Extinguisher 9L	UDA00267 Issue E			UDA00406 Issue D01
Body	UDA00036 Issue C			
Head cap with CO <sub>2</sub> cartridge	UDA00301 Issue B01			UDA00415 Ind B01
Head cap M18	UDA00300 Issue C			
CO <sub>2</sub> cartridges	60g UDA00600 Issue B			
Hose and nozzle connectors M18	UDA00302 Issue B			
Concentrate container	UDA00257 Issue B01			UDA00405 Issue C
Nozzle	0312470 Issue B			UDA00408 Issue A
Mounting support	UDM021 Issue A and UDA00320 Issue A			
Informative form	n° 6080044 Ed 10	n° 6080160 Ed 00		n°6080193 Ed 00
Maintenance manual	n° 6080130 Ed 02	n° 6080161 Ed 00		n° 6080132 Ed 05

### **3. TEST REPORTS:**

#### **3.1 – Stored pressure extinguisher - Type PPE9A2:**

- Test report N°20140703 as per EN 3-7+A1:2007 dated 03/10/2014 (Fire Class 233B with BSX233)
- Test report N° ESS041001 as per EN 3-1.2.4.5 dated 01/02/2004 (Fire class 21A & 233B with Forafac 1203)
- Technical assessment n° 2013/02/22/Fd dated 22/02/2013 for additive equivalences
- Test report N°20140704 as per EN 3-8:2006 dated 03/07/2014

#### **3.2 – Auxiliary pressure extinguishers :**

##### **3.2.1 - Common documents:**

###### **3.2.1.1. For variants**

- Technical assessment n° EH 09 12 05 1060 dated 16/12/2009 as per EN 3.7:2004 from CNPP. (M18 connector variant)
- Test report n° EH 05 10 06 1070-1 dated 16/12/2009 as per EN 3 from CNPP. (M18 connector variant)
- Technical assessment n° EA 11 09 01 1060 dated 26/09/2011 as per EN 3.7:2004 from CNPP. (Operating lever variant)

###### **3.2.1.2 Test report as per EN 3.8/AC:**

- Test report n° 120327 as per EN 3-8:2006 dated 27/03/2012
- Test report n° 20130222 as per EN 3-8:2006 dated 22/02/2013

\*\*\*Following on next page\*\*\*

**3.2.2 - Test report as per EN 3.7:****3.2.2.1 - Type E9:**

- Test report N° EH 98 03 02 1070 dated 06/03/1998 as per EN 3-1.2.4.5 from CNPP.
- Test report N° EH 98 03 02 1070-1 dated 14/06/1999 as per EN 3-1.2.4.5 from CNPP.
- Test report N° EH 09 12 14 1070 Rapport EN3-7 dated 15/12/2009 as per EN 3-7+A1:2007 from CNPP.
- Technical assessment n° MM-ID-16-01-007 dated 26/01/2016 from CNPP.
- Technical assessment n° NSE 04-025 A dated 25/06/04 from CNPP.

**3.2.2.2 - Type AL9W+:**

- Test report n° 2014-0930 DS 27 dated 24/09/2014 as per EN 3-7+A1:2007 from MPA.

**3.2.2.3 – Type AL9S-30:**

- Test report n° 2011-F-5476\_DS 17 dated 12/03/2012 as per EN 3-7+A1: 2007 from MPA.

**3.2.2.4 - Type E9A1EVT:**

- Test report N°EH 13 01 02 1070 RevA dated 18/03/2013 as per EN 3-7+A1:2007 from CNPP (AFFF EX1BT).

**3.2.2.5 – Type E9A1 EV:**

- Technical assessment n° EA 12 07 01 1060 dated 06/07/2012 as per EN 3-7+A1:2007 from CNPP (AFFF BSX233 variant)
- Test report n° EH 12 05 07 1070 dated 20/06/2012 as per EN 3-7+A1:2007 from CNPP (AFFF EX1 Variant).
- Test report n° EH 12 10 04 1070 dated 05-11-2012 as per EN 3-7+A1: 2007 from CNPP (AFFF Compact variant).

**3.2.2.6 – Type AL9SK:**

- Test report n° 2011-F-5476/DS 14 dated 28/02/2012 as per EN 3-7+A1:2007 from MPA.

**3.2.2.7 – Type E9A6 EVP:**

- Test report n° EN11807 dated 30/07/2018 as per EN 3-7+A1:2007 from Apragaz.

**4. APPLICATION / LIMITATION:**

4.1 - Manufacturer's instruction for maintenance and recharging should be kept on board.

4.2 - The equipment is to be installed according to manufacturer's instructions.

4.3 - The extinguisher are suitable for use on live electrical equipment up to 1000V except for the E9A6EVP which is to be used on live electrical equipment up to 500V.

4.4 - Due to the type of extinguishers covered by this certificate, the standard EN 3-9:2006 incl. AC:2007 quoted in the requirements in front page is not applicable.

**5. PRODUCTION SURVEY REQUIREMENTS:**

This certificate alone does not allow the applicant to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module D "Production Quality Assurance" or E "Product Quality Assurance" or F "Product Verification" of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

**6. MARKING OF PRODUCT:**

As per IMO Resolution A.951 (23), paragraph 8 and the provisions of the Directive:

1 - Model designation

2 - Manufacturer's name and address

3- Type of fire for which the extinguisher is suitable, i.e. :

Suitable for the use on live electrical equipment up to 1000 V at a distance of 1 m (for every type except E9A6EVP)

Suitable for the use on live electrical equipment up to 500V (only E9A6EVP)

4 - Type and quantity of extinguishing medium, i.e. : Water ; 9 litres

5 - Propelling gas : CO<sub>2</sub> ; N<sub>2</sub> + He or compressed air

6 - Instruction for use and recharge (*it is recommended that operating instructions be given in pictorial form, in addition to explanatory text in language understood by the likely user*)

7 - Temperature range over which the extinguisher will operate satisfactorily

8 - Test pressure

9 - Year of manufacture

10 - Reference is made to MED 2014/90/EU chapter 2.

In particular Article 10.3 specifies that the wheelmark shall be followed by the identification number of the Notified Body involved in the production control phase (module D, E or F) and by the year in which the mark is affixed (4 digits or last 2 digits).

**7. OTHERS:**

7.1 - It is **DESAUTEL**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the EC Examination Certificate N° 09066/E1 EC issued on 14/09/2018 by the Society.

**\*\*\* END OF CERTIFICATE \*\*\***