

**EC-TYPE EXAMINATION  
CERTIFICATE (MODULE B)**

Certificate No:  
**MEDB00001HJ**  
Revision No:  
**1**

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

**This is to certify:**

**That the Portable fire extinguishers**

with type designation(s)  
**PRESTO FIRE EXTINGUISHERS**

Issued to  
**Zhejiang Ruihua Machinery Co., Ltd.**  
**Yuyao, Zhejiang, China**

is found to comply with the requirements in the following Regulations/Standards:  
Regulation **(EU) 2018/773**,  
**item No. MED/3.2. SOLAS 74 as amended, Regulation II-2/4, II-2/10, II-2/18, II-2/19, II-2/20 & X/3, IMO Res. A.951(23), 2000 HSC Code 7, FSS Code 4, IMO MSC.1/Circ.1239 and IMO MSC.1/Circ.1275**

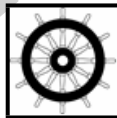
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-01-07**.

Issued at **Høvik** on **2019-01-08**

DNV GL local station:  
**Stockholm**

Approval Engineer:  
**Thorvald Furuseth**



Notified Body  
No.: **0575**

for **DNV GL AS**

.....  
**Roald Vårheim**  
**Head of Notified Body**



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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.  
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.  
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



Job Id: **344.1-000434-25**  
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### **Product description**

"PRESTO FIRE EXTINGUISHERS"

For different types, fire rating and fire extinguishing medium used, see appendix to this certificate.

### **Application/Limitation**

Each product is to be supplied with its manual for installation and use.

Extinguishers of size less than 9 L foam, 5 kg CO2 or 5 kg powder may only be used when accepted by the flag.

### **Type Examination documentation**

See appendix to this certificate.

### **Tests carried out**

Tested according to EN-3:7-9.

### **Marking of product**

The product is to be marked with name and address of manufacturer, type designation and the MED Mark of Conformity (see first page) and to be in accordance with EN 3-7, Ch. 16.

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## Appendix

### to EC Type – Examination Certificate. MEDB00001HJ

| Product description/<br>Product name | Charge<br>Volume | Temperature<br>range (°C) | Fire Rating       | Extinguishing<br>Medium           | Main<br>Drawings   |
|--------------------------------------|------------------|---------------------------|-------------------|-----------------------------------|--------------------|
| S6 Eco pro                           | 6 L              | 0 to +60                  | 27A, 183B         | P Foam Pro                        | RH30110            |
| S9 Eco pro                           | 9 L              | 0 to +60                  | 34A, 233B         | P Foam Pro                        | RH30111            |
| P6GS / P6G                           | 6 Kg             | -30 to +60                | 43A, 233B         | Prestolit ABC                     | RH30024<br>RH30040 |
| PG6 / PG6R/ P6GX                     | 6 Kg             | -30 to +60                | 55A, 233B         | Prestolit Ultra Plus              | RH30041            |
| PG9 / P9GS                           | 9 kg             | -30 to +60                | 55A, 233B         | Prestolit ABC                     | RH30039            |
| PG12 / PG12R /<br>P12GS / P12GSR     | 12 Kg            | -30 to +60                | 55A, 233B         | Prestolit ABC                     | RH30025            |
| P12 / P12R                           | 12 Kg            | -30 to +60                | 233B              | Prestolit BC30 +<br>BC95 + BC101K | RH30102            |
| P12M                                 | 12 Kg            | -30 to +60                | Class D*          | D Powder                          | RH30044            |
| S6Eco                                | 6 L              | 0 to +60                  | 21A, 183B         | AFFF/PFoam                        | RH30091            |
| S6EcoPlus                            | 6 L              | 0 to +60                  | 34A, 183B         | PFoamPlus                         | RH30092            |
| S6EcoGreen                           | 6 L              | 0 to +60                  | 43A               | PfoamGreen                        | RH30093            |
| S6K-30                               | 6 L              | -30 to +60                | 21A, 144B,<br>25F | P Foam -30                        | RH30094            |
| F6                                   | 6 L              | 0 to +60                  | 21A, 113B,<br>75F | FatSeal                           | RH30104            |
| S6EcoUltra                           | 6 L              | 0 to +60                  | 43A, 183B         | PFoamUltra<br>PFoamUltra2         | RH30108            |
| S9Eco                                | 9 L              | 0 to +60                  | 27A, 233B         | AFFF/PFoam                        | RH30095            |
| S9EcoPlus                            | 9 L              | 0 to +60                  | 43A, 233B         | PFoamPlus                         | RH30096            |
| W9K-30                               | 9 L              | -30 to +60                | 21A               | Presto Water<br>Antifreeze -30 °C | RH30097            |
| W9                                   | 9 L              | +5 to + 60                | 21A               | Water                             | RH30098            |

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|   |      |            |                   |                           |         |
|---|------|------------|-------------------|---------------------------|---------|
| S9K-30  | 9 L  | -30 + 60   | 34A, 183B,<br>F25 | P Foam -30                | RH30099 |
| S9EcoGreen  | 9 L  | 0 to +60   | 55A               | PFoamGreen<br>PFoamGreen2 | RH30100 |
| S9EcoUltra  | 9 L  | 0 to +60   | 55A, 233B         | PFoamUltra<br>PFoamUltra2 | RH30109 |
| K5  | 5 kg | -30 to +60 | 89B               | CO <sub>2</sub>           | RH30049 |
| K5S   | 5 Kg | -30 to +60 | 89B               | CO <sub>2</sub>           | RH30036 |
| *Fire test not part of this certificate/ not covered by EN 3-7. |      |            |                   |                           |         |

### **Type Examination documentation**

Test reports and component drawings are stated in Technical documentation dated 5 September 2013 from Presto Brandsäkerhet AB.

Presto-Ruihua model range (drawing and test reports) dated 5 September 2013.

Alternative brand-names, Annex 1-7 (2 pages per annex) dated 5 September 2018 from the manufacturer.

Test reports and component drawings are stated in Technical documentation dated 8 Mai 2015 from MPA Dresden GmbH., Dresden, Germany.

Supplementary test reports and component drawings are stated in Technical documentation dated 26 February 2016 from MPA Dresden GmbH., Dresden, Germany.

Test reports and component drawings are stated in Technical documentation dated 30 September 2014 from MPA Dresden GmbH., Dresden, Germany.