

# EU RO MUTUAL RECOGNITION TYPE APPROVAL CERTIFICATE

Certificate No:  
**MRP0000004**  
Revision No:  
**1**

This Certificate is issued to

**Saldus Welding SIA**  
**Saldus novads, Latvia**

for

**Air Pipe Automatic Closing Device**

with type designation(s)

**Hide Type**

The product is found to comply with

**EU RO Mutual Recognition Technical Requirements for Air Pipe Automatic Closing Device**

Intended service

**For the water tank or oil tank except cargo tank extending above the freeboard or superstructure decks", as per Reg.20 of ICLL.**

**Sizes DN40, 50, 65, 80, 100, 125, 150, 200, 250, 300, 350, 400, 450, 500, 600**

This Certificate is valid until **2023-03-20**.

Issued at **Høvik** on **2018-05-22**

DNV GL local station: **Ulsteinvik**

for **DNV GL**

Approval Engineer: **Adel Samiei**

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**Marianne Spæren Marveng**  
**Head of Section**



Job Id: **262.4-000090-2**  
Certificate No: **MRP0000004**  
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## Product description

Air Vent Heads type Hide with plastic ABS float (up to 300 mm sizes) and 1.4462 duplex stainless steel float (350 mm up to 600 mm sizes)  
Material of body: Al 5083/H111, 1.4462 duplex stainless steel, Galvanized Carbon steel

## Manufactured by

Saldus Welding SIA, Saldus novads, Latvia

## Application/Limitation

The certificate covers design assessment of air vent heads. Installation and other additional requirements related to installation are out of scope of this certificate.

The air vent heads are not considered as devices to prevent the passage of flame into cargo tanks. They shall not be installed on cargo tanks of oil or chemical tankers (flash point < 60°C).

For the galvanised steel air pipe heads, the zinc coating shall be applied by the hot method and the thickness shall be 70 to 100 microns.

Flag national authorities may have their own requirements for the products to be installed aboard ships flying their flag. Both the requirements of national authorities and those of the classification Rules must be complied with.

Results of flow characteristics test and discharge/reverse tests:

| Size  | 80% of Blocking velocity for each size obtained from discharge/Reverse tests |             | Resistance coefficient (average values) |             |
|-------|--|-------------|---|-------------|
|       | Without screen   | With screen | Without screen                          | With screen |
| DN40  | 21.60 m/s  | 22.56 m/s   | 3.01                                    | 3.84        |
| DN50  | 18.40 m/s  | 20.64 m/s   | 2.44                                    | 3.56        |
| DN65  | 15.68 m/s  | 15.68 m/s   | 3.40                                    | 4.75        |
| DN80  | 20.80 m/s  | 24.56 m/s   | 3.81                                    | 6.43        |
| DN100 | 16.80 m/s  | 16.80 m/s   | 4.03                                    | 5.86        |
| DN125 | 19.20 m/s  | 19.76 m/s   | 3.72                                    | 5.15        |
| DN150 | 17.36 m/s  | 17.20 m/s   | 4.93                                    | 6.93        |
| DN200 | 16.64 m/s  | 18.40 m/s   | 5.56                                    | 7.18        |
| DN250 | 17.52 m/s  | 16.72 m/s   | 5.77                                    | 8.32        |
| DN300 | 17.20 m/s  | 17.20 m/s   | 7.66                                    | 9.63        |
| DN350 | 23.44 m/s  | 23.44 m/s   | 8.05                                    | 10.37       |
| DN400 | 26.56 m/s  | 26.56 m/s   | 8.90                                    | 11.37       |
| DN450 | 22.80 m/s  | 22.80 m/s   | 9.75                                    | 12.37       |
| DN500 | 21.04 m/s  | 21.04 m/s   | 10.60                                   | 13.37       |
| DN600 | 26.72 m/s  | 26.72 m/s   | 12.30                                   | 15.37       |

The air vent heads covered by this certificate may be delivered with a heating element. The heating element and its functionality are not a part of approval scope.

## Type Approval documentation

### Test Carried out

Flow characteristics test, impact test on float, compression loading test on float, tightness test, discharge/reverse test

### Marking of product

Each air pipe automatic closing device covered by this certificate shall be marked before shipment for identification of approved equipment. In addition, and as a minimum, the following items to be marked at the suitable place:

- Manufacturer's name or logo Manufacturer's name;

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- Type designation;
- Nominal Diameter;
- Resistance coefficient;

### **Periodical assessment**

The manufacturer shall apply annually for periodical assessment to DNVGL. A survey will be carried out to confirm that the production under the MR TAC and the quality assurance scheme are being satisfactory maintained.