

EU RO MUTUAL RECOGNITION TYPE APPROVAL CERTIFICATE

This Certificate is issued to

Pres-Vac Engineering A/S
Allerød Hovedstaden, Denmark

for

Air Pipe Automatic Closing Device

with type designation(s)

M4

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 (flash point less than 60°C) except cargo tank extending above the freeboard or superstructure decks", as per Reg.20 of ICLL.

Sizes DN50, 65, 80, 100, 125, 150, 200, 250, 300, 350

This Certificate is valid until **2019-12-17**.

Issued at **Høvik** on **2018-01-29**

DNV GL local station: **Copenhagen**

for **DNV GL**

Approval Engineer: **Adel Samiei**

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Marianne Spæren Marveng
Head of Section



Job Id: **262.4-000057-1**
Certificate No: **MRP0000001**

Product description

Air Vent Heads type M4 with Polyethylene floats and body/top cover made of GG20
Reference to IACS UR P3:2016

Manufactured by

PRES-VAC Engineering A/S, ALLERØD, Denmark

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).

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.

Material of the body shall be adequately protected against corrosion by sea water and the media intended to be carried in the tank. For Galvanized Irons, the zinc coating shall be applied by the hot method and the thickness shall be 70 to 100 microns.

Size	80% of Blocking velocity for each size obtained from Discharge/Reverse tests			Resistance coefficient at $\Delta P = 250$ mbar	
	No Flame Screen	With Bug Screen	With flame screen	No Flame Screen / With Bug Screen	With flame screen
DN50	81,64	63,37	64,27	2,60	2,60
DN65	24,07	27,22	19,40	6,55	7,43
DN80	17,76	12,31	31,58	6,55	6,82
DN100	10,60	11,30	12,04	8,40	8,91
DN125	9,60	9,00	6,89	7,13	7,65
DN150	8,10	7,82	5,94	9,00	11,11
DN200	8,76	8,34	6,55	7,11	7,35
DN250	8,58	8,57	Not covered	4,49	Not covered
DN300	6,26	6,23	Not covered	6,25	Not covered
DN350	13,38	14,10	Not covered	4,54	Not covered

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;
- Type designation;
- Nominal Diameter;
- Resistance coefficient;
- Intended for the water tank or oil tank.

Periodical assessment



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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.