

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Vent Head for Tank

with type designation(s)
533HF-F

Issued to

Changzhou Huifeng Marine Accessory Manufacture Co., Ltd.
Changzhou, Jiangsu, China

is found to comply with

DNV GL rules for classification – Ships Pt.4 Ch.6 Piping systems
DNVGL-OS-D101 – Marine and machinery systems and equipment, Edition January 2018
DNV GL class programme DNVGL-CP-0187 – Type approval – Air vent heads

Application :

Product(s) approved by this certificate is/are accepted for installation on vessels classed by DNV GL.

Sizes: DN150,200,250,300

Issued at **Høvik** on **2019-08-12**

This Certificate is valid until **2024-08-11**.

DNV GL local station: **Nanjing**

for **DNV GL**

Approval Engineer: **Adel Samiei**

.....
Zeinab Sharifi
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Product description

Air vent heads with mtallic float type 533HF-F

Material: Body: QT400-15
 Cover: Q235B
 Float & Screen: 022Cr25Ni7Mo4N

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 body and side cover shall be hot dip galvanized (The zinc layer shall be 70 to 100 microns.)

The inner chamber should be coated with epoxy aluminium paint.

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

Results of Discharge test(blocking velocity) & flow test(at a pressure drop of 250 mbar) on vent heads:

Size	80% of blocking velocity (m/s)	Flow resistance coefficient
DN150	13.86	8.48
DN200	20.86	7.13
DN250	17.69	8.63
DN300	15.79	8.70

Type Approval documentation

Tests carried out

Impact test on float, Tightness test, Flow Characteristics, Discharge/Reverse flow test

Marking of product

For traceability to this type approval the products are to be marked:

- Manufacturer's name or trade mark
- Type designation
- Size

Periodical assessment

For retention of the Type Approval, a DNV GL Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the approval are complied with. Reference is made to DNVGL-CP-0338.