DNV·GL

Certificate No:
**TAP000018B**

# TYPE APPROVAL CERTIFICATE

## This is to certify:

**That the Vent Head for Tank**

with type designation(s)
**JGT-01 according to CB/T3594-94 - Float type**

Issued to
**Jiangsu Guangtong Marine Valve Co., Ltd**
**Jingjiang Jiangsu, China**

is found to comply with
**DNV GL rules for classification – Ships Pt.4 Ch.6 Piping systems**
**DNV GL class programme DNVGL-CP-0187 – Type approval – Air vent heads**

## Application :

**Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.**
**Sizes: DN50, 65, 80, 100, 125, 150, 200, 250, 300, 350, 400**

Issued at **Høvik** on **2018-01-15**
This Certificate is valid until **2023-01-14**.
DNV GL local station: **Jiangyin**

Approval Engineer: **Hagen Markus**

for **DNV GL**

**Olaf Drews**
**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.


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## Product description

The air vent heads of type JGT-01 consist of a cast iron valve body with soft sealing and metallic float made of sea water resistant stainless steel.
Optional with metallic wire mesh for application on potable water tanks and tanks containing flammable fluids.

**Over view components**

| Component | Material designation | Details |
|---|---|---|
| Valve body | Nodular cast iron | QT400-15 |
| Cover board, Casing | Steel plate | A3 |
| Corrosion protection | Zinc bearing epoxy, aluminium bearing epoxy painting | Specification: Technical requirements for paint and surface treatment for air pipe head – 2016-05-20 |
| Float | Stainless steel | Material code: 00Cr22Ni5Mo3N<br>ASTM A240/A240M-10 – Type 2205<br>Drawing JGT-01-015 |
| Jack bolt | Aluminium bronze | QAL 9-2<br>Material code: AL 9-2<br>Standard: GB/T 4423-1992 |
| Protect net | Stainless steel | Material code: 0Cr26Ni5Mo2<br>Mesh types:<br>Application water<br>Mesh 10, wire dia. 0.5mm, hole opening area 65%<br>Application flammable fluids<br>Mesh 30, wire dia. 0.20mm, hole opening area 58%. |
| Bolts | Stainless steel 316L | Material code 00Cr17Ni14Mo2<br>M10x20 |
| Sealing and gaskets | | |
| Gasket jack bolt | NBR | Colour: Black<br>HN8433, acc. to GB7038-86 |
| Gasket cover board | | |
| Joint washer (sealing float) | | |
| Gasket casing | | |

## Application/Limitation

The air vents of type **JGT-01** are type approved for application on air/overflow pipes of tanks as required by DNV GL Rules Pt.4, Ch.6 – Section 4 – 11 Air, overflow and sounding pipes.

The air vent heads are not approved as devices to prevent the passage of flame into cargo tanks and shall not be installed on oil tanks containing oil with flash point <60°C.

On fuel oil service tanks, settling tanks and any other oil tanks with media temperatures above 60°C, the air vent heads are to be fitted with flame screens of size 30 by 30 mesh/inch.

Product certificate is not required for air vent heads installed in ship class vessels.

For selection and installation of the of the air vent heads the manufacturer technical manual and installation instructions are to be observed.

## Size range

DN50, 65, 80, 100, 125, 150, 200, 250, 300, 350, 400

## Results flow characteristic and discharge with wire mesh[1] / reverse flow test

[2] Flowrate by interpolation based on flow resistance tests

## Type Approval documentation

| Size | Drawing applicable to test specimens | DNVGL CP-0183 Clause |
|---|---|---|
| DN50, 65, 80, 100, 125, 150, 200, 250, 300, 350, 400 | JGT-01-001~021 | 7 – Discharge/reverse flow test |
| | | 5 – flow characteristic test |
| DN50, 65 | JGT-01-00A | 6 - Tightness test |
| DN80, 100, 125, 150, 200, 250, 300, 350, 400 | JGT-01-00B | |
| DN50~400 | JGT-01-001~021 | 2 – Impact test on float |
| DN50, 65, 80, 100, 125, 150, 200, 250, 300, 350, 400 | | 4 - Measurement of shape/wall thickness of floats |

## Tests carried out

## Marking of product

For traceability to this type approval certificate each air pipe head is to be provided with a name plate with at least the following content:

| | Example |
|---|---|
| Manufacturer name or short sign | Jiangsu Guangtong Marine Valve Co., Ltd. |
| Nominal size of inlet flange | DN80 |
| Type / Drawing number | JGT-01-00B |
| Float |  |
| Manufacturing date | 2017-10-26 |

## Periodical assessment

For retention of the type approval certificate periodical assessments shall be carried out at production places by DNVGL surveyor. The objective of the periodical assessment is to verify that the design and production conditions for the type approval have not been altered.
Main scope of the assessment:
- verification of the production and quality control system
- review of quality control documentation of recent deliveries
- review of drawings in production to verify any design changes which may have an impact on data specified in the type approval certificate, performance and range of application
- verification of the product marking

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

**End of certificate**