

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Vent Head for Tank**with type designation(s)
T.C 03/080

Issued to

Soy Teknik End.Mal.San.ve Tic.A.S.
Kocaeli, Turkey

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: DN50,65,80,100,125,150,200,250,300**Issued at **Høvik** on **2020-01-31**This Certificate is valid until **2025-01-30**.for **DNV GL**DNV GL local station: **Istanbul**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 non-metallic float.

Material: Body & Bonnet: GG25, G-ALSi7Mg, G-ALMg3Si, G-ALMg5Si
Ball: P.E.
O-Ring: NBR
Flame screen: CuZn36

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 oil tanks (flash point < 60°C).

GG25 material shall be protected by hot dip galvanizing. The zinc layer shall be 70 to 100 microns.

Average blocking velocity resulted from Discharge/Reverse test are as follows:

Size	Type DS/ES	
	80% of Blocking velocity (m/s)	Dynamic coefficient (ζ) at ΔP=250 mbar
DN50	4.48	18.23
DN65	4.48	6.66
DN80	5.60	8.71
DN100	6.00	9.04
DN125	6.40	9.74
DN150	6.40	12.04
DN200	6.40	13.55
DN250	6.24	17.71
DN300	6.24	17.39

Type Approval documentation

Tests carried out

Flow characteristics test, Discharge/reverse test, Tightness test, impact test & compression loading 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.