DNV·GL

Certificate No:
TAP000003V

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Tank Washing Machine

with type designation(s)
SC 30T-multi

Issued to
SCANJET MARINE AB
SJÖBO, Sweden

is found to comply with
Det Norske Veritas' Rules for Classification of Ships
MARPOL 73/78 Annex 1, Reg. 13 B (2) and IMO Revised Spec. Res. A. 446 (XI) 4.2

Application :

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

Design:	**Media driven, multi nozzle, fixed installed tank washing machine, with an integrated programmable drive unit.**
Performance data:	**see table on page 2 and 3**

This Certificate is valid until **2019-09-10**.

Issued at **Høvik** on **2015-09-11**

for **DNV GL**

DNV GL local station: **Gothenburg**

Approval Engineer: **Jens Rogge**

Dag Sæle-Nilsen
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

Media driven, multi nozzle, fixed installed tank washing machine, with an integrated programmable drive unit.

Materials:
Main parts in contact with cargo are made of austenitic stainless steel AISI 316, or equivalent, and teflon/viton (sealings and bearings).

Nozzle sizes Multi type:
diameter 2 times à 8, 10, 12, 14, or 16 [mm]
diameter 3 times à 10 or 12 [mm]
diameter 4 times à 8 or 10 [mm]

Application/Limitation

Performance data **Type SC 30T:**

Nozzle diameter [mm]	***Pressure [bar]***	***Flow [m³/h]***	***Max. effective jetlength achieved [m]***
2 x Ø8	6 8 10 12	12,8 14,5 16,1 17,6	13,5 15,0 16,0 17,0
2 x Ø10	6 8 10 12	19,3 22,0 24,5 26,7	15,5 17,0 18,5 20,0
2 x Ø12	6 8 10 12	26,9 30,4 33,7 36,6	17,5 19,5 20,5 22,0
2 x Ø14	6 8 10 12	33,8 38,3 42,5 46,3	18,5 21,0 22,5 23,5
2 x Ø16	6 8 10 12	39,5 44,7 49,5 54,0	18,5 21,0 23,5 24,5
3 x Ø10	6 8 10 12	28,2 32,2 35,7 38,8	14,5 17,0 18,5 19,5
3 x Ø12	6 8 10 12	37,2 42,2 46,9 51,1	15,5 17,5 19,0 20,5

Nozzle diameter [mm]	***Pressure [bar]***	***Flow [m³/h]***	***Max. effective jetlength achieved [m]***
4 x Ø8	6 8 10 12	24,2 27,3 30,2 32,9	12,5 14,0 15,5 16,5
4 x Ø10	6 8 10 12	35,4 40,4 45,2 49,1	13,5 16,0 17,5 19,0

Performance is based upon test requirements that meet DNV TA-Program 785.70, item 3.2.

This Type Approval is based on examination of drawings and reports from prototype tests. Drawings showing number, location and supporting arrangement of the tank washing machines are to be submitted for each installation on board.

No product certificate is required

Type Approval documentation

a) Product Presentation
b) Assembly Drawings
c) Test procedure SC 30T-Multi
d) Instruction Manual SC 30T
e) Instruction Manual SC 30T-Multi

Tests carried out

Performance prototype tests in presence of DNV GL –surveyor dated 2015-06-16

Marking of product

For identification to this certificate the products are at least to be marked with:

- Manufacturers name or trade mark
- Type designation

Periodical assessment

DNV GL's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Standard for certification No. 1.2 Type Approval Item 4.

END OF CERTIFICATE