

MANUFACTURING SURVEY ARRANGEMENT

MSA No:
MSA0000AX6
Revision No:
1

Between "Manufacturer"

Schauenburg Industrietechnik GmbH
Bremen, Germany

and

"DNV GL"
DNV GL SE
Hamburg

Ref. Recognition Certificate: MSARC0000AX6

This Manufacturing Survey Arrangement (MSA) is applicable to

Hose assembly -

subject to testing and inspection for conformance with the requirements of DNV GL Rules, as stated herein.

This MSA implies that the manufacturer is authorised according to scope and conditions as detailed in the subsequent pages.

The MSA is valid until **2024-11-30**

The MSA will, however, be invalid if the Recognition Certificate is invalid.

The MSA is governed by DNV GL's general terms and conditions. These may be provided upon request.

Issued at **Hamburg** on **2020-12-14**

for **SCHAUENBURG INDUSTRIE
TECHNIK
GMBH**



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1. Scope of Work

For the above mentioned product(s) to be certified for conformance with DNV GL Rules, the following conditions will come into force:

1.1 Reference Documents

- I. DNV GL Rules / DNV GL Offshore Standards and all relevant reference documents: e.g. DNVGL RU SHIP Pt.4 Ch.6 Sec.6 [5.1.2], RU SHIP Pt.4 Ch.6 Sec.9 [4], DNVGL-CP-0183, DNVGL-CP-0337
- II. Approval of Manufacturer Certificate No. AMT00000G3
- III. The manufacturer's documented and accepted procedures and instructions for assembling and testing of flexible non-metallic hoses.
- IV. QMS DNVGL certificate ISO 9001:2015, valid until 2023-08-06; Certificate-No. 10000376627-MSA-RvA-DEU

1.2 Approvals

This MSA does not exempt the manufacturer from obtaining approval of new material grades or re-approval when a new manufacturing process is introduced. The validity and applicable range of the relevant DNV GL Type Approvals of these products is to be respected by the manufacturer during the recognition period.

1.3 Testing and Inspection

The verification of correct sampling of test specimen, mechanical testing and inspection are entrusted to the manufacturer on the basis of documented and accepted procedures and the use of qualified personnel familiar with the DNV GL Rules.

The manufacturer is authorized to perform the following testing and inspection without the presence of DNV GL:

- Identification of the correct fittings and hose types as per Type Approval certificates according to the intended use and media.
- Hydraulic pressure test of each manufactured hose assembly with 1.5 times nominal pressure.

The testing/inspection shall be applied to all products to be certified by DNV GL under this MSA agreement.

1.4 Assessments performed by DNV GL

Compliance with the conditions agreed in this MSA is subject to control and review by assessing as follows:

- a) Periodical assessments of the MSA function are to be made at 12 months intervals, based on a mutually agreed schedule.
- b) Project-specific assessments or unscheduled spot checks may be made to ensure compliance of the products with Rule requirements.

For this purpose DNV GL shall at all reasonable times be given access to the manufacturing plant and to the relevant manufacturing documents and records.

1.4.1 Agenda for the MSA assessments

The agenda for the assessments will be proposed by DNV GL in the notification of the meeting.

The agenda may typically contain:

- a) Organisation, responsibilities and qualifications of relevant personnel.
- b) The efficiency of the implementation of the MSA.
- c) Operational procedures and instructions related to the MSA agreement.
- d) Manufacturing processes, inspection and testing.
- e) Test records.
- f) Castings and forgings materials, properties and applications.
- g) Product marking and traceability and control of non-conforming product.
- h) Claims, question from clients and others.
- i) Review of possible problem areas raised from previous MSA assessments.
- j) Review of reports from Quality System Audits.
- k) Information to be updated.
- l) Statistical results from testing.
- m) Review of the Quality System Audit reports in connection with ISO QSC.
- n) News from DNV GL.

Any problems found should be handled as non-conformities. Corrective actions will be re-assessed by DNV GL.

2. Reporting by manufacturer

2.1 Documenting testing and inspections covered by this MSA agreement

Products tested and inspected under this agreement shall be marked with the DNVGL certificate number, see the section for marking. All test/inspection documents/reports shall refer to the DNVGL certificate number for traceability of the tested/inspected product.

The testing and inspection performed by the manufacturer under this MSA agreement shall be reported/documented as follows:

- Pressure test to be documented in a test report which minimum contains value of pressure tested, holding time of testing, pressure at the end of pressure test, name of person who carried out the test.
- The final inspection shall be documented in an inspection report which as a minimum contains number and type of assembled fittings and hoses. This information together with the reference (certificate number) of the respective Type Approval Certificate is also to be compiled in a hose list which will be used as attachment to the DNV GL product certificate

The above documentation/test reports shall be submitted to DNV GL via DNV GL's internet based customer portal "VERACITY"

A copy of the documentation of the testing and inspection shall be retained by the manufacturer as quality records and the retention period is to be as stated in the Quality System Manual.

By ordering certification of the products with reference to this MSA agreement, the manufacturer is declaring full compliance with this agreement.

2.3 Non-conformances

The manufacturer is to report any deviation from the DNV GL Rules and this MSA agreement and obtain DNV GL's written approval prior to dispatch of the product.

2.4 Information to DNV GL

The manufacturer is to report any purchaser requirement, which may extend the scope defined in the DNV GL Rules. Any additional requirements outside of the DNV GL Rules are not covered by this MSA.

All customer complaints to products delivered under this MSA agreement shall be reported to the DNV GL local office. A procedure for reporting of customer complaints has to be established by the manufacturer and approved by DNV GL. It is up to DNV GL to decide if further involvement is necessary or not at that time. However, closing of customer complaints reported to DNV GL and corrective actions implemented by the manufacturer will be discussed under the MSA assessment.

3. Reporting by DNV GL

3.1 Issuance of DNV GL certificates

DNV GL will create a product certificate based on the manufacturer's testing/inspection and DNV GL's own surveys. The digitally signed certificate will be sent to the manufacturer.

3.2 Information to manufacturer

DNV GL will inform the manufacturer of new or amended rules and regulations which would affect the arrangements authorised.

Reserved certificate numbers to be used for certification based on this MSA agreement will be communicated to the manufacturer.

3.3 MSA assessments

After each assessment a report will be prepared by DNV GL, and distributed to the involved parties.

4. Marking for Identification

4.1 Marking

Products which have been satisfactorily tested and inspected shall be marked as required by the DNV GL Rules. The product is further to be marked with the DNV GL certificate number and the VL-stamp furnished by DNV GL. Only those products covered by this arrangement are permitted to be marked with this stamp.

4.2 Handling of the VL-stamp(s)

The manufacturer's signer of the MSA agreement is kept responsible for the VL-stamp(s) provided to them as part of this agreement, and the stamp(s) shall only be used by authorised personnel.

The VL-stamp(s) must not be transferred to subsidiary companies belonging to the same group or any other third party.

A worn out or damaged VL-stamp is to be returned to DNV GL who will supply a new stamp.

The VL-stamp(s) shall be returned to DNV GL when the MSA agreement is invalid.

5. Monitoring and Administration of the MSA

The DNV GL Hamburg Office is responsible for:

- 1) Follow up of the MSA through the periodical MSA assessments.
- 2) The regular contact with the manufacturer.
- 3) Review of works certificates.
- 4) Issuing DNV GL certificates.
- 5) Invoicing.

6. Fees and Payment Terms

Certification fees will be charged in accordance with DNV GL's standard fees for manufacturers holding a certified QSC and having implemented a MSA or in accordance with special written agreements, to be updated annually.

7. Regulation for the Certification Services

Regulations with respect to obligations, publications, suspension, withdrawal/cancellation and appeal are given in DNV GL CLASS PROGRAMME No. DNVGL-CP-0337 "General description of services for certification of materials and components", Section 2 [7].

8. Validity

Any changes in production process, procedures or other matters that may influence the validity of the Recognition Certificate, the MSA agreement or the conditions stated therein are to be submitted to DNV GL for evaluation.

The MSA will be invalid if:

- a) The Recognition Certificate is invalid.
- b) The DNV GL Approval of Manufacturer Certificate(s) / Type Approval Certificate(s) is invalid.
- c) The QSC is invalid.
- d) The possible non-conformities from the MSA assessments are not responded to and/or corrective actions are not implemented within the agreed time.
- e) The manufacturer does not comply with the obligations of the MSA agreement.
- f) The certification fees are not paid in due time.

Either party shall have the right to terminate this MSA subject to three months written notice.

9. Liability and Indemnity

The liability and indemnity are covered by the frame agreement between DNV GL and the manufacturer.

10. Law and Jurisdiction

The liability and indemnity are covered by the frame agreement between DNV GL and the manufacturer.