



STANDARD FOR CERTIFICATION

No. 2.9

TYPE APPROVAL PROGRAMME

5 - 779.70 - 1

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# Spark Arrestors

OCTOBER 2011

*The electronic pdf version of this document found through <http://www.dnv.com> is the officially binding version*

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## CHANGES

This issue supersedes Approval Programme No. 5 - 779.70 - 1 of July 2004.

Text affected by the main changes is highlighted in red colour. However, where the changes involve a whole section or sub-section, only the title may be in red colour.

### **Main Changes:**

— Minor editorial change.

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## 1. Scope

### 1.1 General

This Standard for Certification 2.9 – Type Approval Programme gives the requirements on which DNV is basing type approval of spark arrestors.

### 1.2 Objective

The type approval of spark arrestors is based upon the requirements in the following documents:

- European Standard EN 1834-1
- SAE standards J350, J342 and J997
- Other standards found to be equivalent with the EN and SAE standards mentioned above.

## 2. Type Approval

### 2.1 Procedure

The type approval procedure consists of the following elements:

- design assessment
- type testing
- issuance of type approval certificate
- certificate retention survey.

See DNV Standard for Certification No.1.2 for the general procedure for type approval.

### 2.2 Documentation to be submitted

The following documentation is to be submitted:

- 1) A general arrestor principle description, including a design drawing.
- 2) Test reports.
- 3) Maker's installation guidelines.

### 2.3 Functional requirements

The spark arrestor shall comply with the spark arresting requirements given in one of the standards mentioned in 1.2 above.

## 3. Elements of Type Approval

### 3.1 Documentation evaluation

The documentation evaluation is carried out to assess whether the arrestor is in conformity with given documentation requirements stated in the standards mentioned in 1.2.

### 3.2 Issuance of Type Approval certificate

When the documentation evaluation is successfully completed, a type approval certificate will be issued to the maker.

The certificate is given a validity period of 4 years.

**Spark arrestors with a valid type approval certificate will be accepted for installation in a DNV classed vessel/offshore unit, where arrestors are required by the Rules or Offshore Standards.**

### 3.3 Renewal of Type Approval Certificates

At least three months before the period of validity expires, the supplier has to apply for renewal of the certificate, stating the changes in the product (system).

If, during the validity period of the type approval certificate, there has been any major change in the relevant rule requirement or design changes, then a new documentation evaluation may be required.

### 3.4 Requirements to identification of product type

For identification purposes, in relation to the type approval, the arrestor is at least, to be marked with manufacturers name or trade mark and type number designation.