

# TYPE APPROVAL CERTIFICATE

## This is to certify:

**That the Electrogas**

with trade name  
**FAMILIARC™ DW-S43G / C1**

Manufacturer  
**Kobe Steel, Ltd. Ibaraki Plant**  
**Ibaraki Osaka Pef, Japan**

is found to comply with  
**DNV GL rules for classification – Ships**

with this approval

|                          |                 |
|--------------------------|-----------------|
| <b>Grade</b>             | <b>III Y</b>    |
| <b>Current</b>           | <b>DC(+)</b>    |
| <b>Approved diameter</b> | <b>1.6 mm</b>   |
| <b>Positions</b>         | <b>Vertical</b> |
| <b>Remarks</b>           |                 |

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

This Certificate is valid until **2021-06-30**.

Issued at **Høvik** on **2016-07-01**

DNV GL local station: **Yokohama**

Approval Engineer: **Maxim Bobrov**

for **DNV GL**

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**Hanne Anita Hjerpetjønn**  
**Head of Section**

Any significant change in design or construction may render this Certificate invalid.