

# TYPE APPROVAL CERTIFICATE

## This is to certify:

**That the Flux Cored Wire/Gas combination**

with trade name

**Böhler EAS 4 M-FD/ M21**

Manufacturer

**voestalpine Böhler Welding Austria GmbH  
KAPFENBERG, Austria**

is found to comply with

**DNV GL rules for classification – Ships**

with this approval

|                          |                                                           |
|--------------------------|-----------------------------------------------------------|
| <b>Grade</b>             | <b>VL 316L</b>                                            |
| <b>Current</b>           | <b>DC +</b>                                               |
| <b>Approved diameter</b> | <b>0,9 - 1,6mm</b>                                        |
| <b>Positions</b>         | <b>PA, PB, PC, PF (1G, 1F, 2F, 2G, 3Gu, 3Fd)</b>          |
| <b>Remarks</b>           | <b>Impact test at - 120°C average value &gt; 34 Joule</b> |

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

This Certificate is valid until **2018-12-31**.

Issued at **Hamburg** on **2015-10-21**

DNV GL local station: **Augsburg**

Approval Engineer: **Hans-Joachim Vogt**

for **DNV GL**

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**Marcus von Busch**  
**Head of Section**

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