

# Grundfos CR certificates

As an acclaimed worldwide pump supplier, Grundfos is authorised by well-reputed international classification societies to classify pumps and pump parts. For insurance reasons, classification of pumps is especially important in maritime applications. These certificates are delivered with an inspection certificate made up in accordance with the European standard EN 10204 3.1 C.

- **Lloyds Register of shipping** (LRS)
- **Det Norske Veritas** (DNV)
- **Germanischer Lloyd** (GL)
- **Bureau Veritas** (BV)
- **American Bureau of Shipping** (ABS)
- **Registro Italiano Navale Agenture** (RINA)
- **China Classification Society** (CCS)
- **Russian Maritime Register of Shipping** (RS)
- **Biro Klassifikasio Indonesia** (BKI)
- **United States Coast Guard** (USCG)
- **Nippon Kaiji Koykai** (NKK)



Grundfos issues a variety of certificates for a wide range of different pump solutions. Close cooperation with our customers over the years, has established that many clients require absolute certainty that the product supplied fully complies with the order specifications, for instance with regard to surface roughness, vibration tolerances, motor performance, and material specifications.

Certificates issued by Grundfos are available upon request.



Type of certificate	Description
Certificate of compliance with the order	According to EN10204, 2.1. Grundfos document which certifies that the pump supplied is in compliance with the order specifications.
Test certificate. Non-specific inspection and testing	According to EN10204, 2.2. Certificate with inspection and test results of a non-specific pump.
Inspection certificate 3.1B	Grundfos document which certifies that the pump supplied is in compliance with the order specifications. Inspection and test results are mentioned in the certificate.
Inspection certificate 3.1C	Grundfos document which certifies that the pump supplied is in compliance with the order specifications. Inspection and test results are mentioned in the certificate. Certificate from the surveyor is included.
Material specification report	Certifies the material, which has been used for the main components of the specific pump.
Material specification report with certificate from raw material supplier	Certifies the material, which has been used for the main components of the specific pump. A material certificate, EN10204 3.1B, will be supplied for each main component.
Duty-point verification report	Certifies a test point specified by the customer. Issued according to ISO9906 concerning "Duty point verification"
Surface-roughness report	Shows the measured roughness of the cast pump base of the specific pump. The report indicates the values measured at the base inlet and outlet, tested according to ISO 1302.
Vibration test report	Vibration report that indicates the values measured during the performance test of the specific pump, tested according to ISO 10816.
Motor test report	Shows the performance test of the specific motor, including power output, current, temperature, stator windings resistance and insulation test.
Clean and dried pump report	Confirms that the specific pump has been cleaned and dried, and in which way it has been done.
Electro-polished pump report	Confirms that the specific pump has been electro polished. The maximum surface roughness is specified in the report.
ATEX approved pump report	Confirms that the specific pump is ATEX approved according to the EU directive 94/9/EC, the "ATEX directive".

**Custom-built solutions**

The comprehensive standard Grundfos CR programme covers a wide range of pumps, for a wide range of different industrial applications. Besides, Grundfos designs custom-built pump solutions; acknowledging that sometimes it does not take more, than a little extra effort, to come up with the right solution. With a custom-built pump solution from Grundfos, your pump is capable of handling even higher pressures, more aggressive liquids, excessive liquid temperatures etc.

**Worldwide pump supplier**

Being a worldwide pump supplier, Grundfos has committed itself to provide its customers with a global, reliable and efficient service network. Our experienced team of service technicians is always ready to serve you wherever you are in the world, and – of course – at short notice.