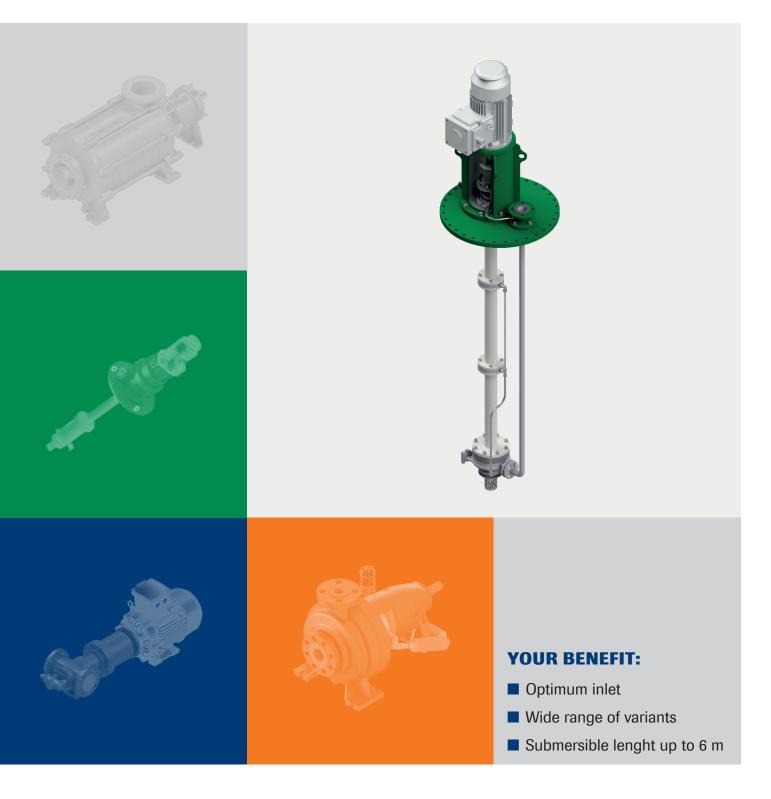
PRODUCT DATA SHEET





SUBMERSIBLE PUMP **NCT** + SPECIAL DESIGN FOR ZONE 0

SUBMERSIBLE PUMP NCT

The type NCT is a volute casing submersible pump with shaft seal according to the principle of the two-pipe pump, i.e. separate shaft guide pipe and pressure pipe.

The hydraulic pump part is arranged in the container or in the pumped medium.

The connection is made by a multi-level shaft and pipe string. The bearings of the pump and drive shafts are in sleeve bearings. The upper drive shaft is fixed by a grease-lubricated double-sided angular ball bearing. This allows submersible lenght up to 6 m and this at a maximum operating temperature of 200°C [392°F].

In addition to the standard design, the NCT can also be supplied as a cantilever version without sleeve bearings, a heated design and an oil-lubricated design according to API 610 is possible. Furthermore, the NCT is also available as a variant for use in zone 0 in accordance with the Explosion Directive.

Applications

- Oil & Gas
- Chemistry & Petrochemistry
- Offshore

Design

Pump type

Stages

Sealing

Set-up

Bearing

Self-priming

Lubrication

- Ship technology & Marine
- Refueling equipment & Aviation
- Tank storages & Tank farms

Volute casing pump

Mechanical seal or stuffing box

Antifriction bearing, sleeve bearing***

Single-stage

Vertical

Grease / Oil

No

renewable energy & Environmental engineering

SUBMERSIBLE PUMP NCT

Technical Data

Q max*	1000 m³/h [4400 gpm]
H max*	250 m [820 ft]
Operating pressure**	16 bar [232 psi/1.6 MPa]
Temperature**	200°C [390°F]
max. speed	3500 rpm

* depending on size and speed

** higher temperatures and pressures on request

*** product side

Norm

ISO 5199 / API 610 (VS4)

Explosion protection: Category 1 / Zone 0

Material

Spheroidal graphite iron (EN-GJS) / Cast steel (GP-240 GH), Austenitic cast steel (1.4408/1.4571), Duplex (1.4517), Ni-based (2.4686)

Description / Application



Technical Data

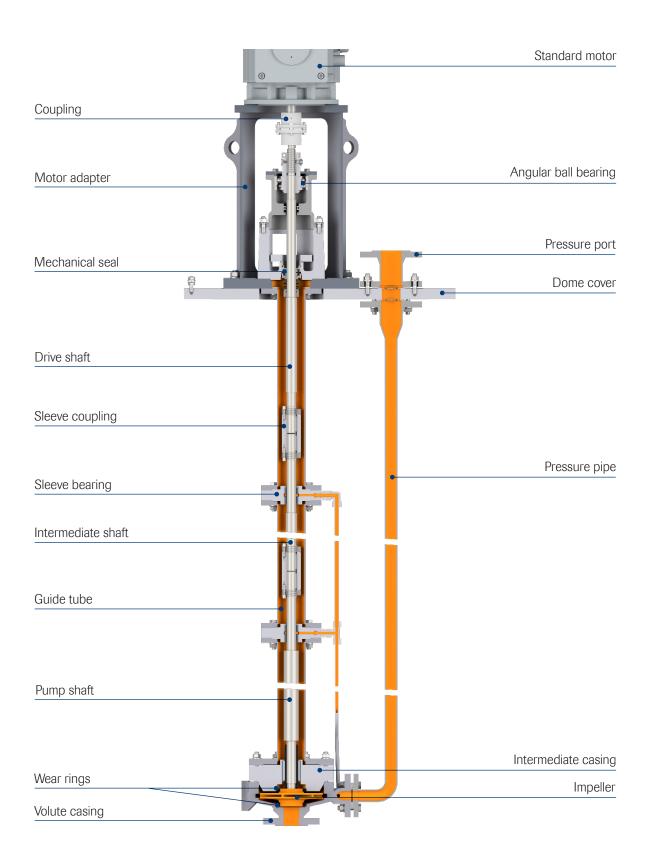






SUBMERSIBLE PUMP NCT

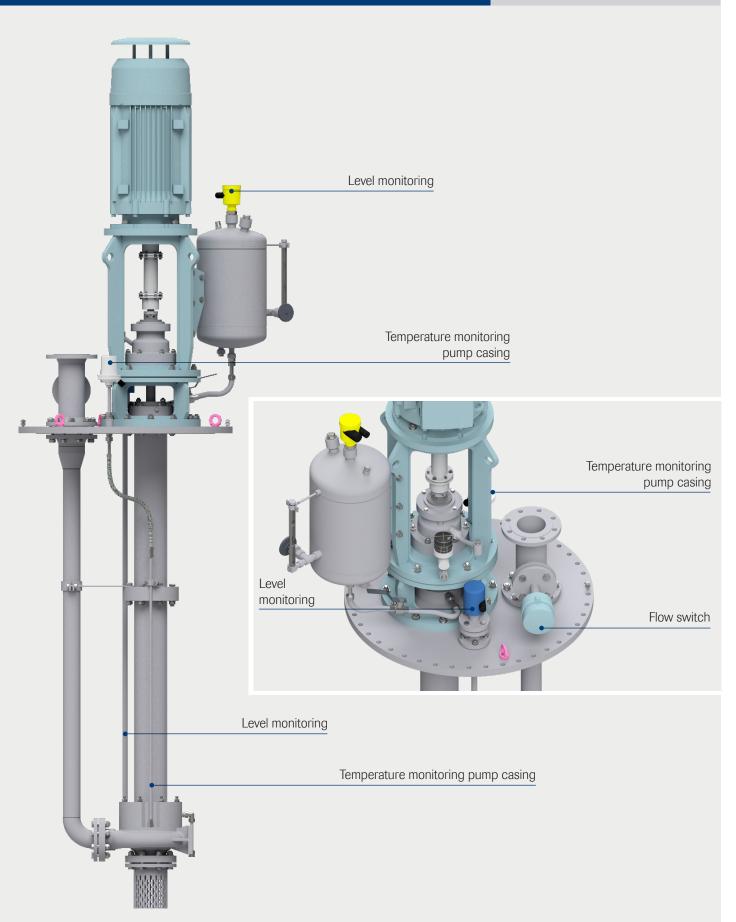
Sectional view / Standard design





Type-tested ATEX-design

SUBMERSIBLE PUMP NCT CAT.1







SUBMERSIBLE PUMP NCT CAT.1

Type-tested ATEX-design

Category 1 - Submersible pumps are used to pump flammable, light flammable and highly flammable liquids from zone 0. The liquids must belong to temperature classes T1 to T4.

An EU type-examination certificate issued by the notified body confirms compliance with the essential health and safety requirements of the Explosion Directive for the design of these submersible pumps.

Diverse security concept

A level monitor in the tank ensures that there is sufficient liquid coverage during operation of the pump. A flow switch ensures a defined minimum flow rate. Temperature monitoring on the pump body prevents the pump casing from heating up excessively. The entire safety chain must be checked regularly as part of maintenance measures. With this concept, the failure of a monitoring device is to be viewed as a rare malfunction. The simultaneous failure of several monitoring devices is sufficiently unlikely.



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