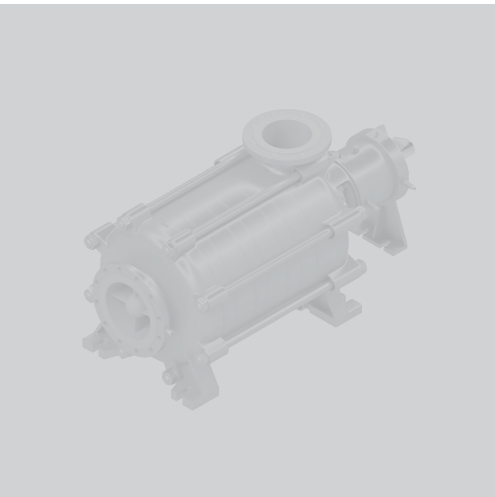
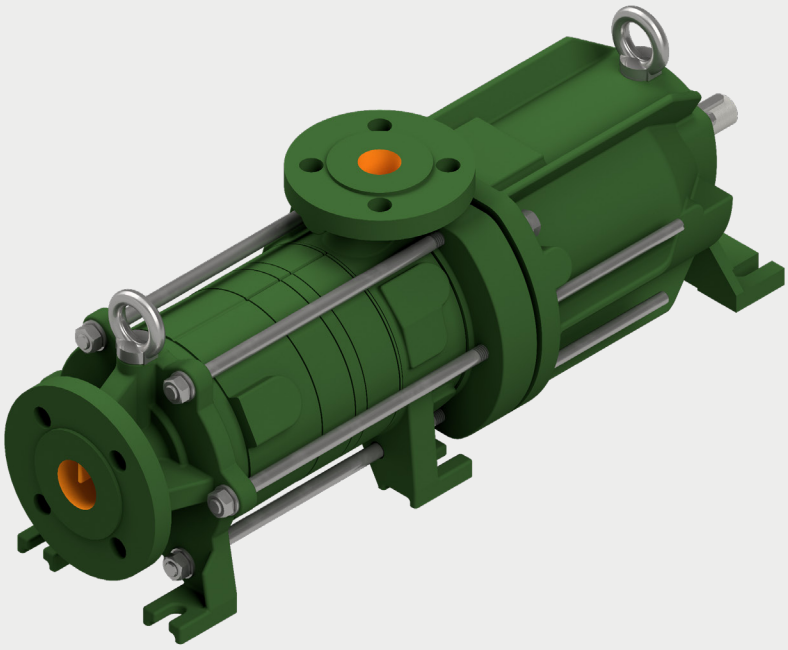
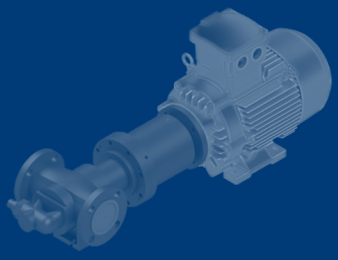
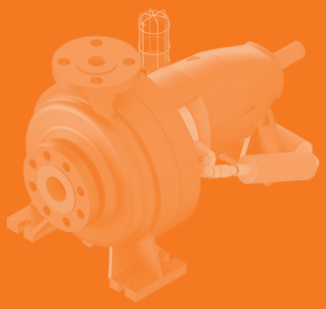
PRODUCT DATA SHEET

DICKOW PUMPEN









**YOUR BENEFIT:**

- Low capacity/minimum flow possible versus high heads
- Sturdy, low-wear, hermetically sealed
- Low noise emission
- High gas percentage pumpable/ NPSHr efficient design
- Pulsation-free output

# PERIPHERAL PUMP **TPM**

**THE PUMP-MANUFACTURE** FOR INDUSTRIAL PUMPS

# PERIPHERAL PUMP **TPM**

## Description / Application

The magnetic coupled pheriphal pump **TPM**, also refered to as turbine pump, belongs to the family of centrifugal pumps.

Their structure and operating method is similar to that of a side channel pump. The TPM is able to generate high discharge pressures, even at comparatively low flow rates. It is featured by low NPSH requirements, ideal for applications with limited suction head. Speed-regulated, the TPM can be optimally adjusted to the operating point. Peripheral pumps offer a high tolerance to gas percentages of the fluid, so that continuous operation is even possible in case of gas release or temporary air inlet. To prevent the impellers from seizing under difficult operating conditions, these Dickow pumps are equipped with SiC start-up rings on both sides. Metal contact between the rotating and stationary components is therefore excluded. The hermetically sealed design makes it particularly suitable for pumping toxic, explosive and generally environmentally harmful fluids. The hermetically sealed design makes it particularly suitable for pumping toxic, explosive and generally environmentally harmful fluids.

### Applications

- Oil & Gas
- Chemistry & Petrochemistry
- Offshore
- Ship technology & Marine
- Refueling equipment & Aviation
- Tank storage & Tank farms
- Renewable energy & Environmental engineering

Info TPM

Video TPM

# PERIPHERAL PUMP **TPM**

## Technical Data

### Design

| | |
|---|---|
| Pump type | Peripheral pump |
| Stages | Single or multi-stage*** |
| Sealing | Magnetic coupling |
| Set-up | Horizontal |
| Self-priming | No |
| Bearing | Antifriction bearing, sleeve bearing**** |
| Lubrication | Grease / alternatively oil |

### Technical Data

| | |
|---|---|
| Q max* | 17 $m^3$/h [75 gpm] |
| H max* | 400 m [1312 ft] |
| Operating pressure** | 40 bar [580 psi/ 4 MPa] |
| Temperature** | 300°C [572°F] |
| max. speed | 3500 rpm |

** depending on sinze and speed*
*** higher temperatures and pressures on request*
**** regular or flow hydraulics*
***** product side*

### Material

Spheroidal graphite iron (EN-GJS), Austenitic cast steel (1.4408/1.4571), Duplex (1.4517), Ni-Based (2.4686)

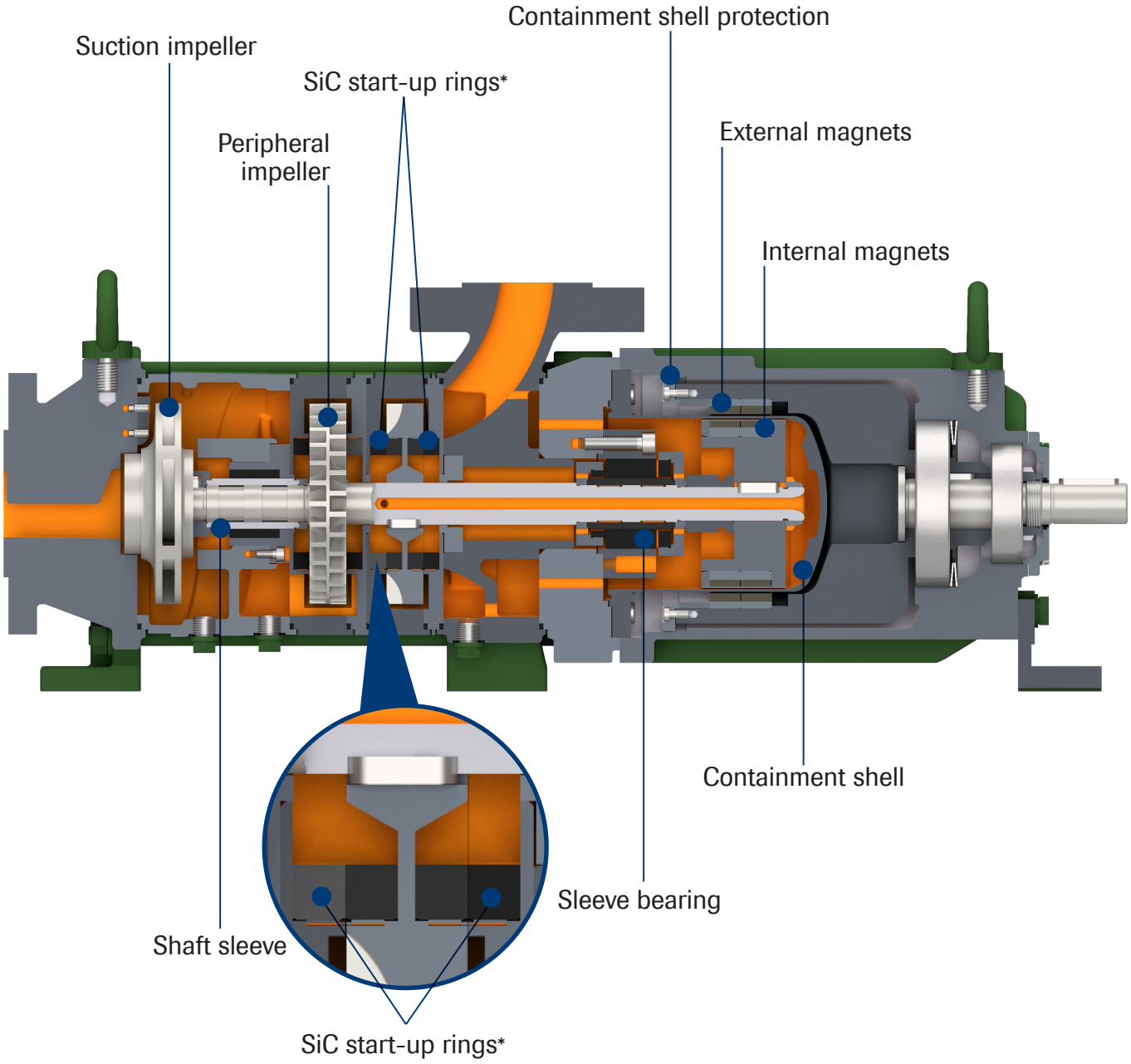
### Norm

ISO 15783

Explosion protection: Category 2 / Zone 1

# PERIPHERAL PUMP **TPM**

## Sectional view




*Configuration options: One or two-stage depending on the operating point, space-saving block design with standard motor, oil-lubricated bearing bracket, high-temperature design, regular or flow hydraulics.

DICKOW PUMPEN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5/2024