

Accessories for HAAKE Rheometers



Vane Rotors for Pressure Cells for HAAKE MARS and HAAKE RheoStress 6000

Different vane rotors have been developed for pressure dependent measurements on samples containing particles.

Each rotor consists of 4 blades mounted around a shaft, which is equipped with two sapphire bearings. With these bearings the rotors can be precisely centred on two steel pins inside the pressure cell.

The vane rotors differ in the size of the blades. The biggest vane rotor FL 25/90 has a diameter of 25 mm and a blade height of 90 mm. This rotor is particularly suitable for measurements on low viscous samples.

For measurements on samples with higher viscosities vane rotors with a blade height of 8.8 mm are recommended. For choosing the

suitable rotor the diameters of the suspended particles have to be taken into account. As a rule of thumb the minimum width of the gap between the rotor blades and the inner wall of the pressure cell should be 3 times larger than the biggest suspended particles.

The inner diameter of the pressure cell D100/200 is 40 mm. For example, using a FL36/8.8 vane rotor the measuring gap between the rotor and the inner side of the pressure cell is 2 mm. Therefore a suspension with particles with a maximum size of 0.6 mm can be measured. For bigger particles a rotor with a smaller diameter has to be selected.

Key-words

- HAAKE MARS
- HAAKE RheoStress 6000
- Pressure cell
- Vane rotor

Order Information:

These vane rotors are made of the following materials:
stainless steel 1.4301 (blades), stainless steel 1.4305 (shaft), Stellite (bearing pins)

- 222-1628 Vane rotor FL25/8.8 (D=25 mm, H=8.8 mm)
- 222-1629 Vane rotor FL30/8.8 (D=22 mm, H=8.8 mm)
- 222-1630 Vane rotor FL36/8.8 (D=16 mm, H=8.8 mm)
- 222-1631 Vane rotor FL25/90 (D=25 mm, H= 90 mm)

Necessary accessories:

Pressure cell for HAAKE MARS or HAAKE RheoStress 6000 (and predecessor models), e.g.

- 222-1405 Pressure cell D100/200 (up to 100 bar and 200 °C)
- 222-1706 Pressure cell D400/300 (up to 400 bar and 300 °C)

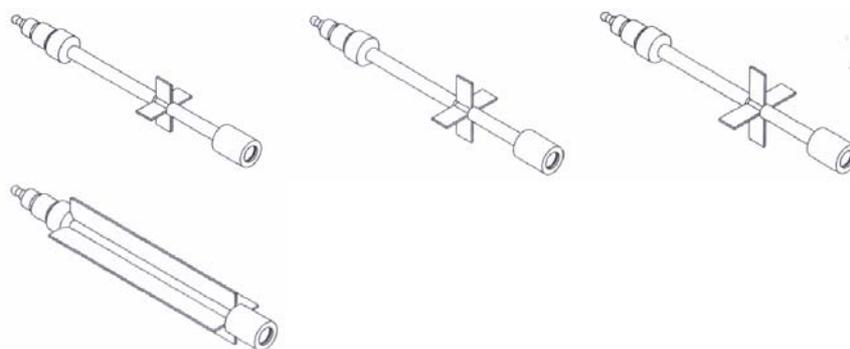


Fig. 1: Vane rotors with a blade height of 8.8 mm with different diameters of 25, 30 and 36 mm (above), vane rotor with a blade height of 90 mm and a diameter of 25 mm (below)

Dr. Cornelia Küchenmeister
Dr. Klaus Oldörp

Thermo Fisher Scientific
Process Instruments
Dieselstr. 4
76227 Karlsruhe
Tel: +49 (0) 721 4 09 44 44
Info.mc.de@thermofisher.com

www.thermo.com/mc