

GRUNDFOS®



DATA SHEET

Rotary Sanitary Pumps

NOVALobe



Bi-wing lobe rotor

PUMP

Grundfos NOVALobe sanitary pumps are of the rotary lobe positive displacement type specifically designed for the transfer of viscous liquids in a wide range of hygiene and sanitary applications including food and beverages, pharmaceuticals, pulp, paper, paint, adhesives etc. They are designed to meet the strictest hygiene requirements complying with various international standards and feature a highly polished surface finish, FDA approved elastomers and sterile joints and seals to prevent fouling by bacteria and germs.

Pump hydraulic end construction is AISI 316L throughout with EPDM seals and silicon carbide mechanical seal. The pump is designed for robust performance and features close rotor clearances for improved efficiency. The standard rotor is of bi-wing type, though other rotor designs and customised specifications are available for special applications. Pumps are supplied bare shaft though are available base frame mounted with motor to order.

OPERATING CONDITIONS

Max viscosity: 1,000,000cP

Max operating temp: 150°C

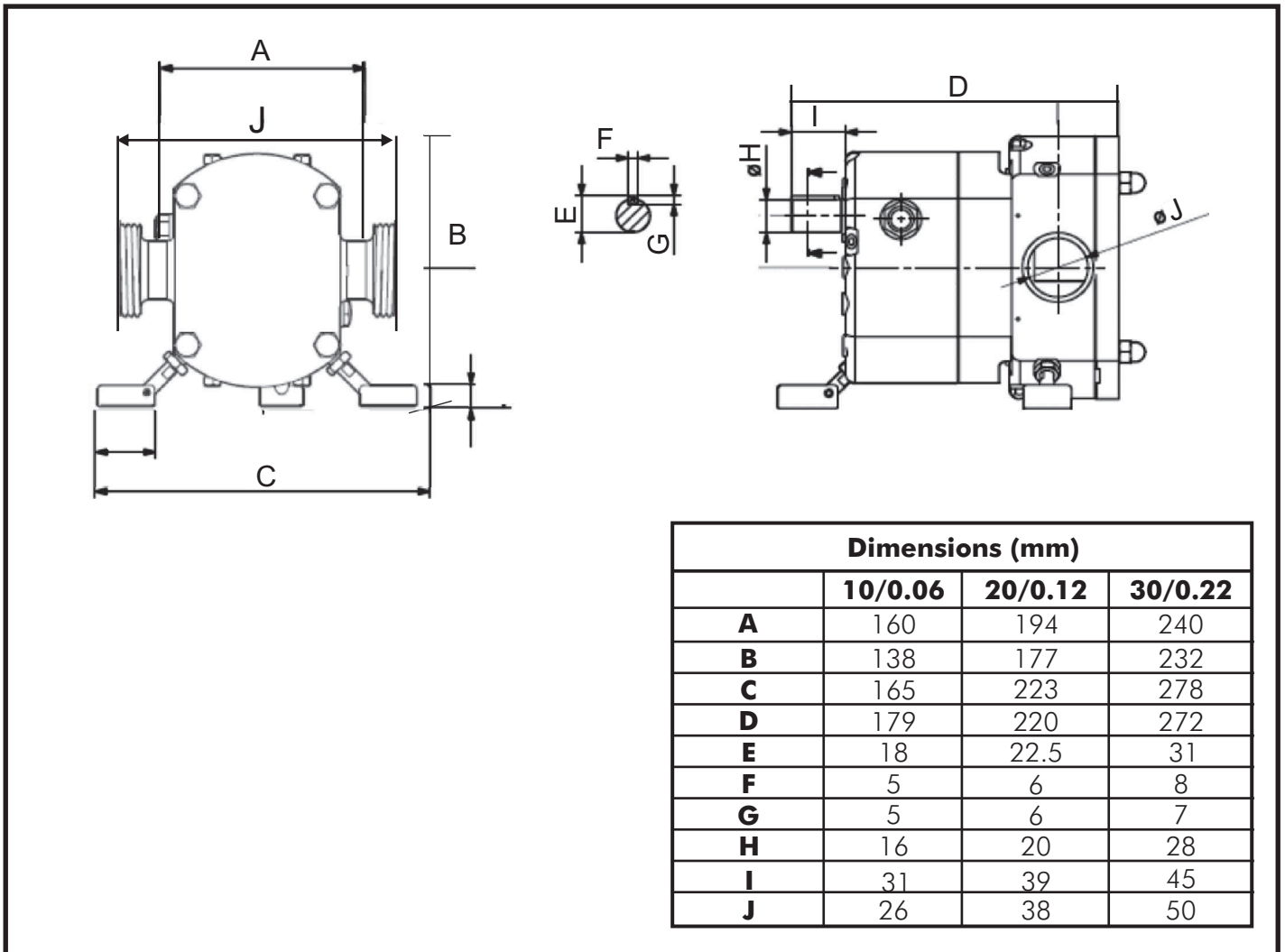
Max differential pressure: 16 bar

Max operating pressure: 40 bar

PUMP PERFORMANCE

| Model | Max Displacement (l/rev) | Output @ 1000rpm (m ³ /hr) | Power Absorbed at Delivery Pressure, kW | | | | | | | | DN (mm) | Maximum Particle Size (mm) | Weight (Kg) |
|----------------|--------------------------|---------------------------------------|---|------|-------|-------|-----------------|------|-------|-------|---------|----------------------------|-------------|
| | | | 10cP Viscosity | | | | 100cP Viscosity | | | | | | |
| | | | 2Bar | 5Bar | 10Bar | 15Bar | 2Bar | 5Bar | 10Bar | 15Bar | | | |
| 10/0.06 | 0.06 | 3.6 | 0.3 | 0.8 | 1.3 | 1.8 | 0.5 | 0.8 | 1.5 | 2 | 25 | 12 | 9 |
| 20/0.12 | 0.12 | 7.2 | 0.9 | 1.5 | 2.8 | 4 | 1.2 | 2.0 | 3 | 4.5 | 40 | 16 | 19 |
| 30/0.22 | 0.22 | 13.2 | 2.0 | 3.2 | 5.8 | 8 | 3.5 | 4.5 | 7 | 9 | 50 | 17 | 44 |

Note that output and power absorbed will depend upon speed and liquid viscosity. Consult Davis & Shirliff for specific applications.



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