

Data sheet FG3

Gear pump with integrated brushless direct current motor

Technical Features:

- 4 – 9 - 13 mm plastic PEEK gears
- customised shaft, magnet and cap for motor integration
- AISI 316L stainless steel body
- 1/8" NPT inlet and outlet ports
- overall unit dimensions only 103 x 57 x 57 mm (LxBxH)
- Integrated brushless motor, supply voltage 24VDC
- Aluminium front cover
- 6 wires AWG 24 length 300 mm
- Nominal torque: 100 mNm @ 3500 rpm
- Speed range: 500 to 5000 rpm adjustable by input command voltage 0-5VDC

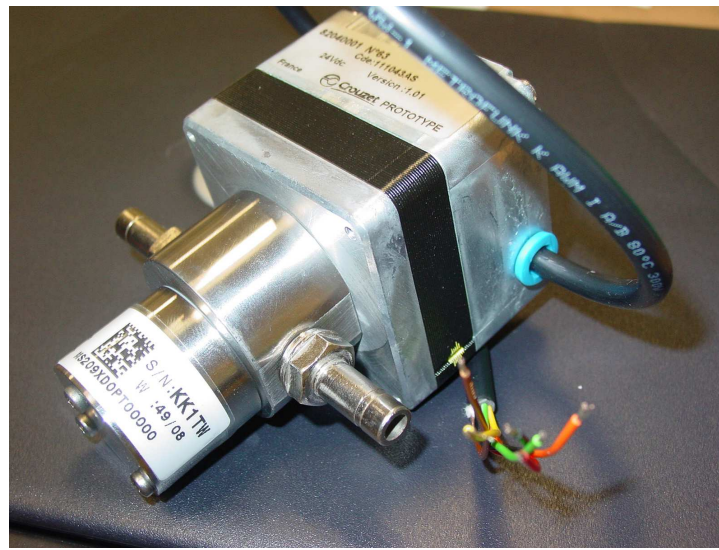


Figure 1: unit image assembled with standard connections

Working conditions

- ambient temperature max. 40°C at max. load
- fluid-temperature max. 55°C at max. load
- unit protection level IP52

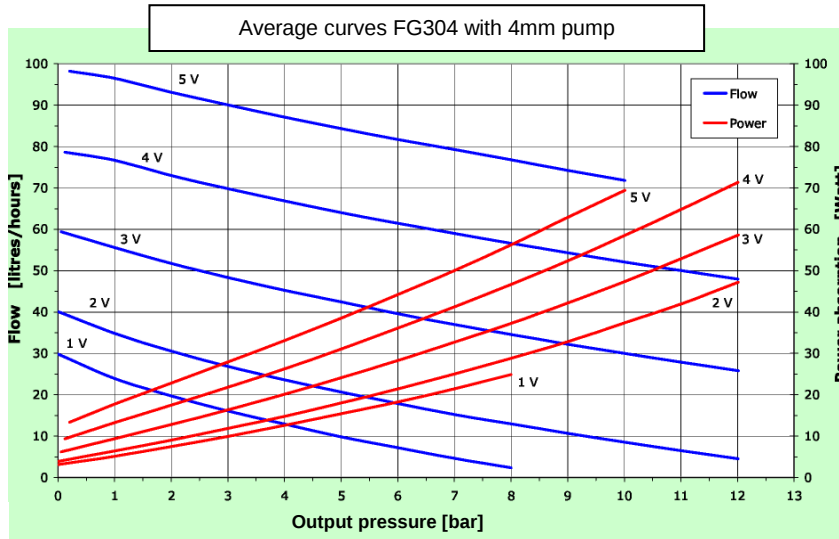
Safety devices

- thermal protection
 - over- and under-voltage protection
 - stall protection
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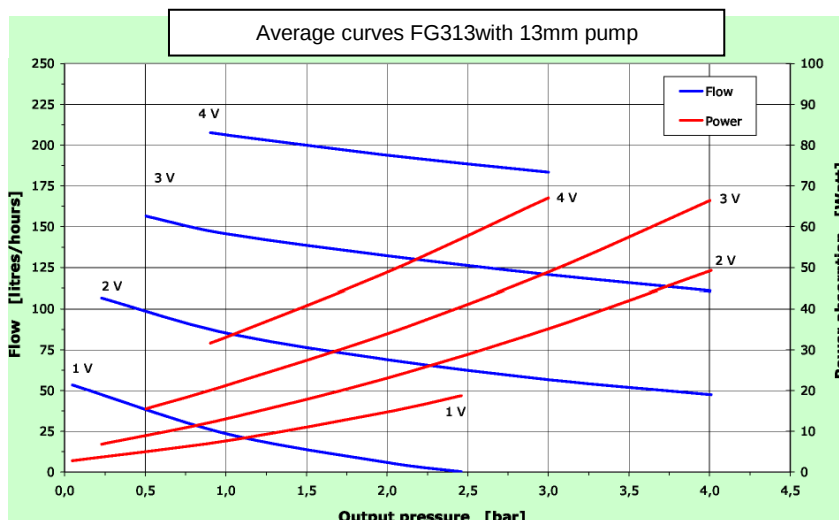
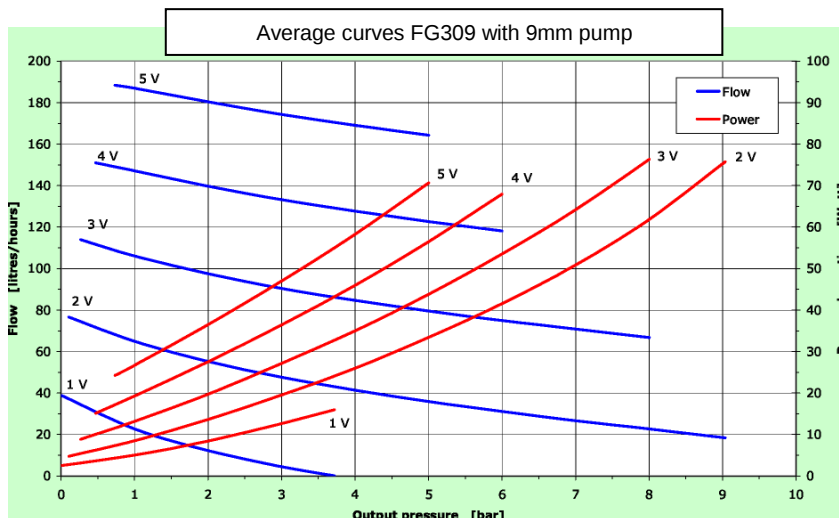
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Performance curves



Main Applications:

- laser cooling
- medical apparatus
- hemodialysis
- ink-jet printing systems
- water purification
- systems with integrated speed control
- pharmaceutical and chemical metering systems
- laboratory instrumentation



- Characteristics with water at 20°C
- Figures of flow are averages