

QF4400S

Quaternary Diaphragm Pumps Multiple-Use – Biotech/Biopharma

Features

- 4-piston technology
- Gentle product treatment
- No particle generation
- Low pulsation
- Linear flow characteristic
- Hygienic design
- Self-priming
- Safe dry-run operation
- Also available as single-use version

Applications

- Filtration systems (TFF, etc.)
- Chromatography systems
- Feeding pump
- Virus filtration
- Sterile filtration



Technical Data

QF4400S Standard Motor	
Flow Rate Maximum:	
Eccentric Shaft 6°	5000 l/h (1321 gph)
Flow Rate Minimum:	
Eccentric Shaft 6°	150 l/h (40 gph)
Pressure:	
Temperature of Fluid < 40° C (104° F)	6 bar (87 psi)
Temperature of Fluid > 40° C (104° F)	4 bar (58 psi)
Maximum Temperature:	
Fluid	80° C (176° F)
CIP	90° C (194° F)
SIP*	130° C (260° F)
Autoclave*	130° C (260° F)
Suction Lift Dry at 1200 rpm:	
Eccentric Shaft 6°	4 - 4.5 m (13.1-14.7 ft)
Volume Specifications:	
Approximated Volume per Revolution at Free Output	95 ml
Filling Volume Without Connectors	820 ml
Connection Specification (Standard):	
Connectors	1.5" TC
Position of Connectors	Front

Other connection specifications, materials and motors available on request.

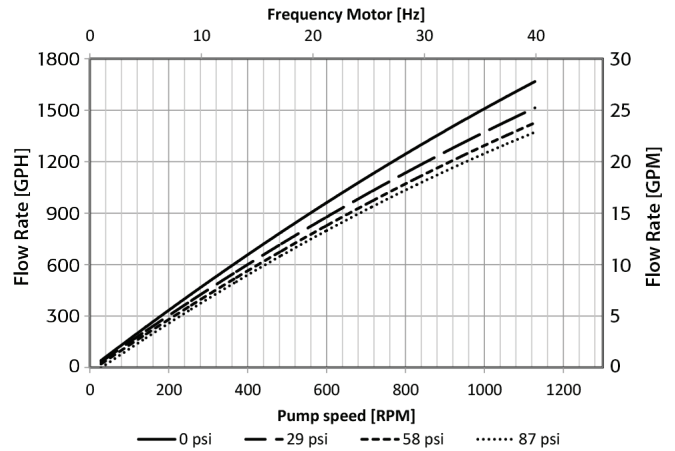
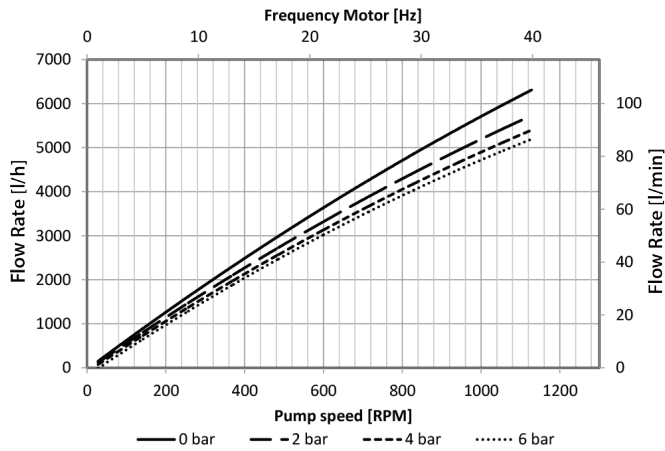
*With SS316L valve plate only

QF4400S Standard Motor	
Product Wetted Materials (Standard):	
Pump Housing	SS316L
Valve Plate	SS316L or PP
Diaphragms	TPE
Valves	EPDM
O-rings	EPDM
Certificates/Proofs (Optional):	
Elastomere (product wetted)	USP <88> Cl. VI; FDA21CFR177; BSE/TSE Safe
Stainless Steel Parts (product wetted)	3.1; Surface Roughness; Ferrite Content
Motor (Standard):	
Rated speed	1410 min-1 (50 Hz)
Voltage	230/400 V
Power	2.2 KW
Pump Dimension with Motor and Housing:	
Length	776.4 mm (30.57")
Width	256 mm (10.08")
Height	330 mm (12.99")
Pump Weight with Motor and Housing:	
26.5 kg (58.3 lb)	

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Performance Charts



Depending on the selected motor/frequency drive combination, the motor frequency and the resulting pump speed might differ.

Accessories

Control Box



- Variable speed controller with integrated touch pad for manual speed control
- Configurable for remote speed control with 4-20 mA analogue input
- 400 V, 3P
- Hygienic 1.4301 housing, IP 54
- Easy plug & play installation



Power Box

- Plug & Play installation
- Protects system and pump from overpressure
- Configurable pressure switch setpoint
- Reset button for pump reset
- To be used with pressure switch (also available)

Diaphragm Sensor

- Sensor installed in ring drive unit
- Detection of all liquids
- Signal output to a controller, if diaphragm is ruptured

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QUATTROFLOW™
 Fluid Systems
 Part of Pump Solutions Group
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ALMATEC Maschinenbau GmbH
 Carl-Friedrich-Gauß-Str. 5
 47475 Kamp-Lintfort, Germany
 O: +49/2842/961-0, F: +49/2842/961-40
www.quattroflow.com
info@almatec.de

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