

Spec Sheet QF4400S

QF4400S Standard Motor

Effective: October 2014

Replaces: **NEW**

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

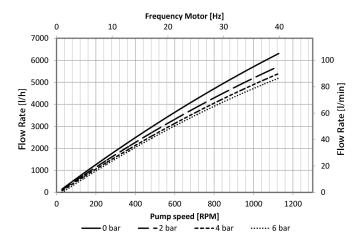
	QF4400S Standard Motor	
Flow Rate Maximum:		
Eccentric Shaft 6°	5000 l/h (1321 gph)	
Flow Rate Minimum:		
Eccentric Shaft 6°	150 l/h (40 gph)	
Pressure:		
Temperature of Fluid $<$ 40 $^{\circ}$ C (104 $^{\circ}$ F)	6 bar (87 psi)	
Temperature of Fluid $>$ 40° C (104° F)	4 bar (58 psi)	
Maximum Temperature:		
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	

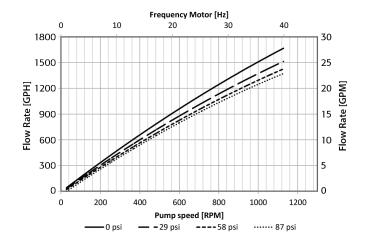
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Product Wetted Materials (Standard):	
Pump Housing	SS316L
Valve Plate	SS316L or PP
Diaphragms	TPE
Valves	EPDM
0-rings	EPDM
Certificates/Proofs (Optional):	
Elastomere (product wetted)	USP <88> CI. VI; FDA21CFR177; BSE/TSE Safe
Stainless Steel Parts (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:	
	96 kg (212 lb.)

Other connection specifications, materials and motors available on request.

^{*}With SS316L valve plate only

Performance Charts





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

Accessories

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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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