

Spec Sheet QF5050S Effective: October 2014 Replaces: NEW

QF5050S Quaternary Diaphragm Pumps Multiple-Use – Biotech/Biopharma

Features

- 4-piston-technology
- Multi-option installation flexibility
- Complete flow range with one drive
- Gentle product treatment
- Low pulsation
- Wide range of flow with linear turndown
- Compact 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

QF5050S Servo Motor



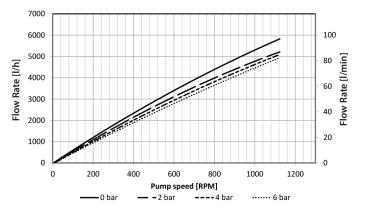
	QI SOSOS SCITO INOCOI
Flow Rate Maximum:	
Eccentric Shaft 6°	5000 l/h (1321 gph)
Flow Rate Minimum:	
Eccentric Shaft 6°	50 l/h (13 gph)
Pressure:	
Temperature of Fluid $< 40^{\circ}$ C (104° F)	6 bar (87 psi)
Temperature of Fluid $> 40^{\circ}$ C (104° F)	4 bar (58 psi)
Maximum Temperature:	
Fluid	80° 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
	Front

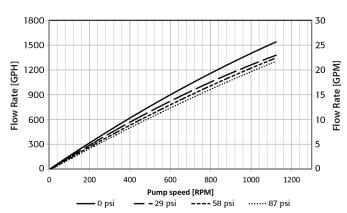
Technical Data

	QF5050S Servo Motor		
Product Wetted Materials (Standard)			
Pump Housing	SS316L		
Valve Plate	SS316L or PP		
Diaphragms	ТРЕ		
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	3000 min -1 (2.662:1 reduction)		
Voltage	400 V		
Power	3 KW		
Pump Dimension with Motor and Housing:			
Length	440 mm (17.32")		
Width	325 mm (12.80")		
Height	320 mm (12.60")		
Pump Weight with Motor and Housin	g:		
	66 kg (146 lb.)		

0th *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



Image may differ from product

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

© 2014 ALMATEC



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



info@almatec.de

Almatec reserves the right to modify the information and illustrations contained in this document

ŻOMYNOŻ

OF5050S