

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	
low Rate Maximum:		Product Wetted Mate
Eccentric Shaft 6°	5000 l/h (1321 gph)	
low 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)	Certificates/Proofs (O
Aaximum Temperature:		Elastomere (
Fluid	80° C (176° F)	Stainless Steel Parts (
CIP	90° C (194° F)	Motor (Standard):
SIP*	130° C (260° F)	motor (Standard).
Autoclave*	130° C (260° F)	
uction Lift Dry at 1200 rpm:		
Eccentric Shaft 6°	4-4.5 m (13.1-14.7 ft)	Pump Dimension wit
olume Specifications:		T unp Dimension with
Approximated Volume per Revolution at Free Output	95 ml	
Filling Volume Without Connectors	820 ml	
onnection Specification (Standard):		Pump Weight with M
Connectors	1.5" TC	
Position of Connectors	Front	

Technical Data

Flow Rate Maxi

Flow Rate Minin

Maximum Temp

Suction Lift Dry

Volume Specific

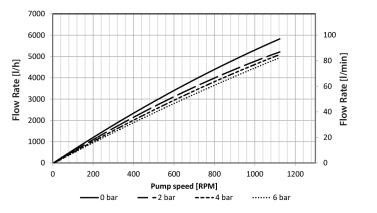
Connection Spe

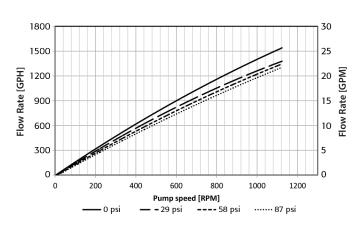
Pressure:

	QF5050S Servo Motor		
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> Cl. VI; FDA21CFR177; BSE/TSE Safe		
Stainless Steel Parts (product wetted)	3.1; Surface Roughness; Ferrite Conten		
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 Housing:			
	66 kg (146 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



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



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



Distributed by:

OF5050S

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