

Spec Sheet QF20k Effective: October 2014 Replaces: NEW

QF20k Quaternary Diaphragm Pumps Multiple-Use – Biotech/Biopharma

Features

- 4-piston technology
- Gentle product treatment
- No particle generation
- Low pulsation
- Hygienic design
- Self-priming
- Safe dry-run operation

Applications

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



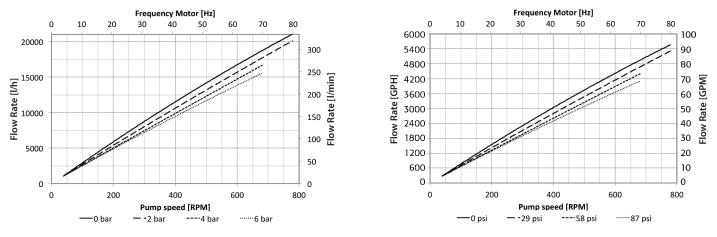
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	QF20k Standard Motor			
Flow Rate Maximum:				
Eccentric Shaft 7°	20000 l/h (5283 gph)			
Flow Rate Minimum:				
Eccentric Shaft 7°	1000 l/h (265 gph)			
Pressure:				
Temperature of Fluid $<$ 40° C (104° F)	6 bar (87 psi)			
Temperature of Fluid $>$ 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 330 rpm:				
Eccentric Shaft 7°	4-4.5 m (13.1-14.7 ft)			
Volume Specifications:				
Approximated Volume per Revolution at Free Output	470 ml			
Filling Volume Without Connectors	2950 ml			
Connection Specification (Standard):				
Connectors	2" TC			
Position of Connectors	Front			

	QF20k Standard Motor			
Product Wetted Materials (Standard):	:			
Pump Housing	SS316L			
Valve Plate	SS316L			
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	1460/474 min-1 (50 Hz)			
Voltage	230/400 V			
Power	4 KW			
Pump Dimension with Motor and Housing:				
Length	1152.5 mm (45.37")			
Width	400 mm (15.75")			
Height	416 mm (16.38")			
Pump Weight with Motor and Housing:				
	217 kg (478 lb.)			

Other connection specifications, materials and motors available on request.

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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