

QF1200S-CV

Quaternary Diaphragm Pumps

Multiple-Use – Biotech/Biopharma

Features

- Compact version with integrated controller
- 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



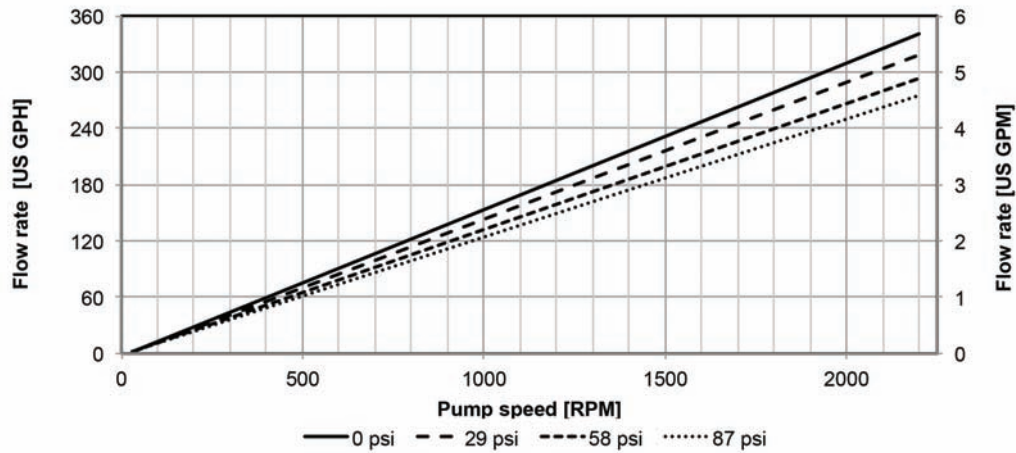
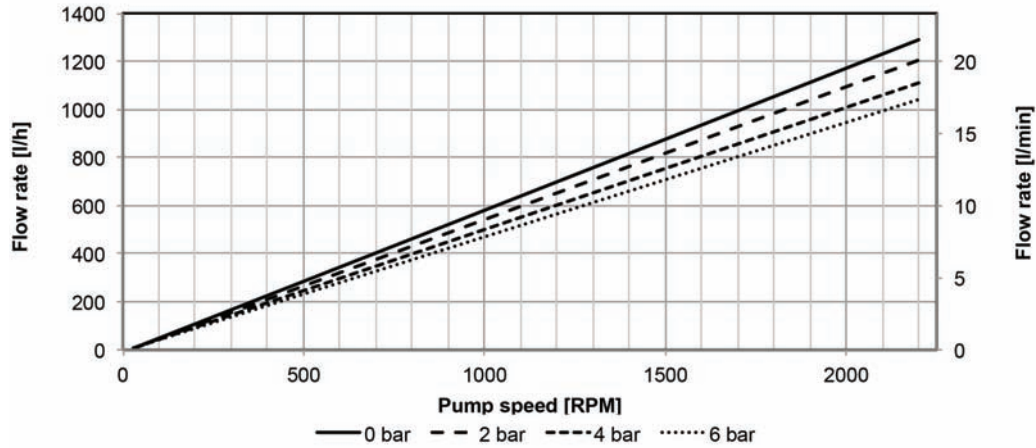
Technical Data

	QF1200S-CV
Flow Rate Maximum:	
Eccentric Shaft 5°	1200 l/h (317 gph)
Flow Rate Minimum:	
Eccentric Shaft 5°	10 l/h (2.64 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)
Pump Speed Range:	
rpm	10 - 2200
Suction Lift Dry at 1800 rpm:	
Eccentric Shaft 5°	4 - 4.5 m (13.1-14.7 ft)
Volume Specifications:	
Approximated Volume per Revolution at Free Output	9.6 ml
Filling Volume Without Connectors	75 ml
Connection Specification (Standard):	
Connectors	3/4" TC
Position of Connectors	Inline
Number of Flow Directions	4

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Product Wetted Materials (Standard):	
Pump Chamber	SS316L
Valve Plate	SS316L
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:	
Rated speed	2200 min ⁻¹
Voltage	230 V
Power	0.75 kW
Pump Dimension with Motor and Housing:	
Length	487 mm (19.17")
Width	200 mm (7.87")
Height	210 mm (8.27")
Pump Weight with Motor and Housing:	
	25 kg (55 lb.)

Performance Charts

Eccentric Shaft: 5°



Accessories



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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