

QF150S

Quaternary Diaphragm Pumps

Multiple-Use – Biotech/Biopharma

Features

- 4-piston technology
- Includes control panel
- 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



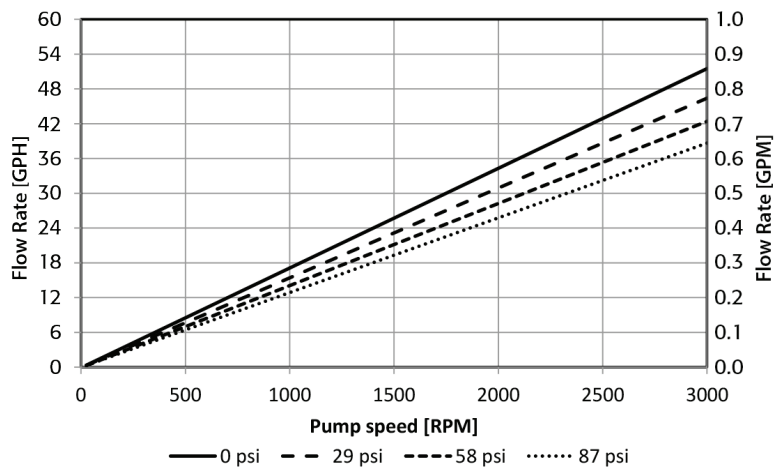
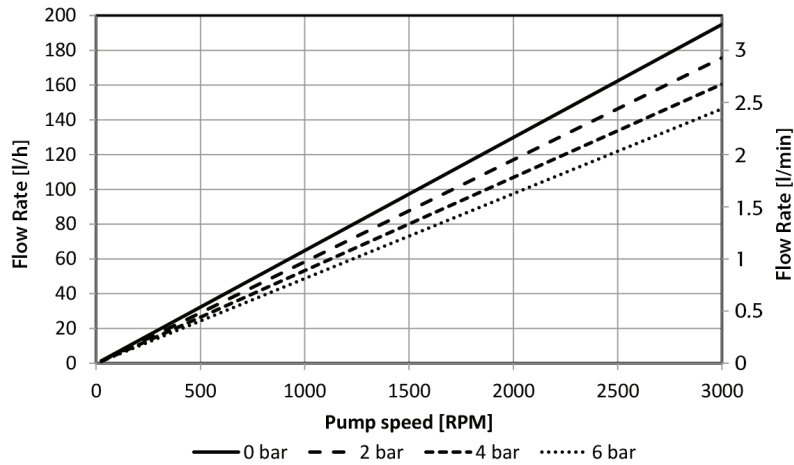
Technical Data

QF150S Standard Motor	
Flow Rate Maximum:	
Eccentric Shaft 5°	180 l/h (48 gph)
Flow Rate Minimum:	
Eccentric Shaft 5°	1 l/h (0.26 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 3000 rpm:	
Eccentric Shaft 5°	2 - 3 m (6.6 - 9.8 ft)
Volume Specifications:	
Approximated Volume per Revolution at Free Output	1.2 ml
Filling Volume Without Connectors	15 ml
Connection Specification (Standard):	
Connectors	1/4" TC
Position of Connectors	Inline
Number of Flow Directions	4

Other connection specifications, materials and motors available on request.

QF150S Standard Motor	
Product Wetted Materials (Standard):	
Pump Housing	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 (Standard):	
Rated speed	3000 min ⁻¹ (50 Hz)
Voltage	230/115 V
Power	0.05 KW
Pump Dimension with Motor and Housing:	
Length	280.5 mm (11.04")
Width	115 mm (4.53")
Height	184 mm (7.24")
Pump Weight with Motor and Housing:	
	8.4 kg (19 lb.)

Performance Charts



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)

Distributed by:

ProcessHQ, Inc.

410 N. Varney Street
Burbank, CA 91502
818 861-7641
info@processHQ.com

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ALMATEC Maschinenbau GmbH
Carl-Friedrich-Gauß-Str. 5
47475 Kamp-Lintfort, Germany
0: +49/2842/961-0, F: +49/2842/961-40
www.quattroflow.com
info@almatec.de