

# 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	
<b>Flow Rate Maximum:</b>	
Eccentric Shaft 5°	180 l/h (48 gph)
<b>Flow Rate Minimum:</b>	
Eccentric Shaft 5°	1 l/h (0.26 gph)
<b>Pressure:</b>	
Temperature of Fluid < 40° C (104° F)	6 bar (87 psi)
Temperature of Fluid > 40° C (104° F)	4 bar (58 psi)
<b>Maximum Temperature:</b>	
Fluid	80° C (176° F)
CIP	90° C (194° F)
SIP	130° C (260° F)
Autoclave	130° C (260° F)
<b>Suction Lift Dry at 3000 rpm:</b>	
Eccentric Shaft 5°	2 - 3 m (6.6 - 9.8 ft)
<b>Volume Specifications:</b>	
Approximated Volume per Revolution at Free Output	1.2 ml
Filling Volume Without Connectors	15 ml
<b>Connection Specification (Standard):</b>	
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	
<b>Product Wetted Materials (Standard):</b>	
Pump Housing	SS316L
Valve Plate	SS316L
Diaphragms	TPE
Valves	EPDM
O-rings	EPDM
<b>Certificates/Proofs (Optional):</b>	
Elastomere (product wetted)	USP <88> Cl. VI; FDA21CFR177; BSE/TSE Safe
Stainless Steel Parts (product wetted)	3.1; Surface Roughness; Ferrite Content
<b>Motor (Standard):</b>	
Rated speed	3000 min <sup>-1</sup> (50 Hz)
Voltage	230/115 V
Power	0.05 KW
<b>Pump Dimension with Motor and Housing:</b>	
Length	280.5 mm (11.04")
Width	115 mm (4.53")
Height	184 mm (7.24")
<b>Pump Weight with Motor and Housing:</b>	
	8.4 kg (19 lb.)

