

# QF4400S

## Quaternary Diaphragm Pumps

### Multiple-Use – Biotech/Biopharma

#### Features

- 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

QF4400S Standard Motor	
<b>Flow Rate Maximum:</b>	
Eccentric Shaft 6°	5000 l/h (1321 gph)
<b>Flow Rate Minimum:</b>	
Eccentric Shaft 6°	150 l/h (40 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 1200 rpm:</b>	
Eccentric Shaft 6°	4-4.5 m (13.1-14.7 ft)
<b>Volume Specifications:</b>	
Approximated Volume per Revolution at Free Output	95 ml
Filling Volume Without Connectors	820 ml
<b>Connection Specification (Standard):</b>	
Connectors	1.5" TC
Position of Connectors	Front

Other connection specifications, materials and motors available on request.

\*With SS316L valve plate only

QF4400S Standard Motor	
<b>Product Wetted Materials (Standard):</b>	
Pump Housing	SS316L
Valve Plate	SS316L or PP
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	1410 min <sup>-1</sup> (50 Hz)
Voltage	230/400 V
Power	2.2 KW
<b>Pump Dimension with Motor and Housing:</b>	
Length	776.4 mm (30.57")
Width	256 mm (10.08")
Height	330 mm (12.99")
<b>Pump Weight with Motor and Housing:</b>	
	96 kg (212 lb.)

