



ENGLISH

Datasheet RS Stock No. 9146978

RS Pro Micro Conical Liquid and Gas Pumps

Overview: Liquid and Gas Pump - Efficient, Reversible, Self Priming

The R400 pump range utilise a new and patented pumping methodology developed by TCS Micropumps that is unique in the world. They provide excellent pressure and flow capability for both liquids and gasses. They are self priming in operation, reversible and contain no internal valves.

Constructed from CNC machined aluminium alloy (6000 series + anodising) and components fitted with viton internal seals as standard, for good chemical compatibility. Supplied with either stainless steel threaded tubing connectors or as a manifold mounted pump that eliminates the need for hose connections.

They can be powered by either a DC brushed motor or a brushless motor that offers increased performance and longer life.

Pump

R400BL Brushless Drive Unit



R400BL-M Brushless Drive Unit. Manifold Mount



R4003 Brushed Drive Unit



R4005-IM Brushed Drive Unit. Manifold Mount



Typical Applications

- Medical devices
- Precision Flow
- Chemical Handling

- Analysis Systems
- Food Grade
- Cooling Systems

Gas detection and monitoring

Features

Quiet

- Self Priming
- Precise Flow Control

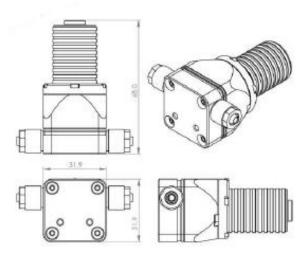
- Small size
- Robust

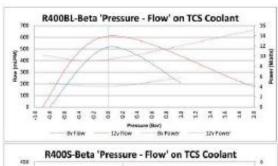
- Valveless
- Dry Running
- Reversible

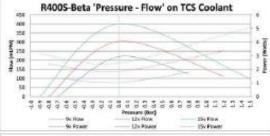


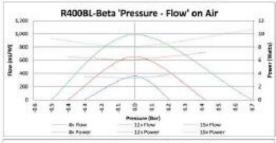


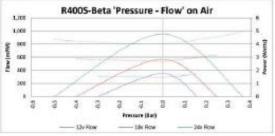
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Materials

Wetted Parts

- Anodised 6000 Series Aluminium
- 316 Stainless Steel
- Viton

Other Parts

- 316 Stainless Steel
- Anodised 6000 Series Aluminium

Performance Data

Small Size
32 x 32 x 68mm

●Weight 156g

Operating Temp 0 to 100 deg C

●IP Rating IP41

● Noise Levels <20dB

Measured at a distance of 1m with a 50dB ambient noise level

■ MTBF Stock Pumps 5,000hrs
Special variants available to order >20,000hrs

MODEL	Input (v)	Power (W)	(mLpm)	Pressure (Bar)
ALL MODELS	12	15.3	550	2.0
R400S	9	1.8	215	0.8
	12	3.4	300	1.2
ALL MODELS	15	5.2	450	1.5

MODEL	Input	Power	Flow	Pressure
	(v)	(w)	(mLpm)	(Bar)
R400BL	8	3.8	360	0.2
	12	7.2	650	0.4
AU. MODELS	15	10.7	990	0.7
R4005	12	1.7	350	0.15
	18	3.2	550	0.25
ALL MODELS	24	5	950	0.35