

**CHARLES AUSTEN**  
PUMPS LTD



**ROTARY DIAPHRAGM**  
PUMPS

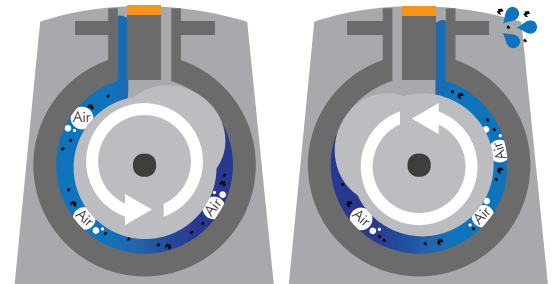
# ROTARY DIAPHRAGM PUMPS - LIQUID



The patented rotary diaphragm technology has a revolutionary pumping principle. The flow of liquid is initiated by an eccentrically mounted bearing on a drive shaft which revolves within a flexible diaphragm. As the shaft rotates, the bearing flexes the diaphragm, squeezing liquid through the pump.

Applications include: High viscosity pumping, bag in box, pulp pumping, pressure vending, gas pump replacement and beverage chilling.

- ✓ No tubing to replace at frequent intervals, Rotary Diaphragm technology is service and maintenance free.
- ✓ Excellent vacuum performance on gas and liquid mixtures.
- ✓ Installation is very easy, able to mount in any orientation.
- ✓ Valveless design tolerates pulp and viscous fluids.



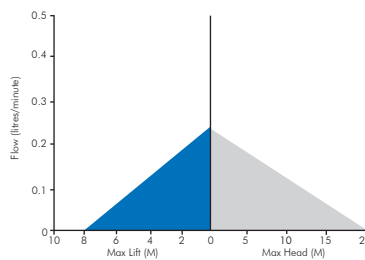
## RD01




### Features

- Max Flow: 0.24 l/min
- Max Lift: 5.0 m
- Max Head: 8.0m
- Size: 87 x 54 x 66mm
- Connector Size: 8mm OD

### Performance



### Standard Option

- Diaphragm: SARLINK  
Head: POLYPROPYLENE
-  • 110V • 50/ 60Hz  
• 230V

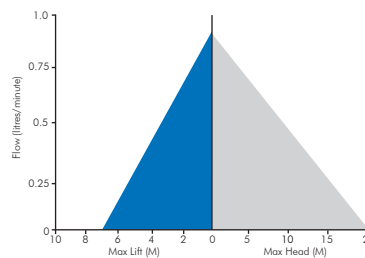
## RD1 DOSING




### Features

- Max Flow: 0.85 l/min
- Max Lift: 7.0 m
- Max Head: 20.0m
- Size: 87 x 54 x 66mm
- Connector Size: 8mm OD

### Performance



### Standard Option

- Diaphragm: SANTOPRENE  
Head: POLYPROPYLENE
-  • 12V • BLDC  
• 24V

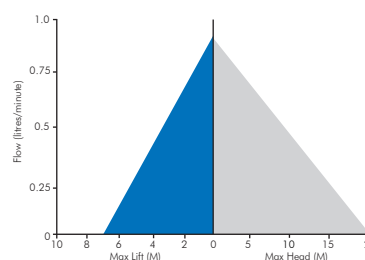
## RD1 STEPPER




### Features

- Max Flow: 0.85 l/min
- Max Lift: 7.0 m
- Max Head: 20.0m
- Size: 87 x 54 x 66mm
- Connector Size: 8mm OD

### Performance



### Standard Option

- Diaphragm: SANTOPRENE  
Head: POLYPROPYLENE
-  • 12V • BLDC  
• 24V

# \*CUSTOMIZABLE OPTIONS AVAILABLE

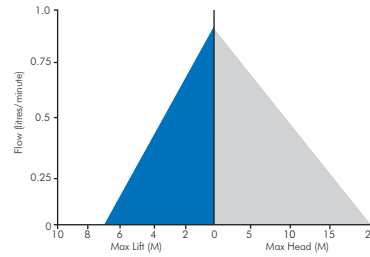
## RD1



### Features

- Max Flow: 0.85 l/min
- Max Lift: 7.0 m
- Max Head: 20.0m
- Size: 45 x 125 x 61mm
- Connector Size: 8mm OD

### Performance



### Standard Option

Diaphragm: SANTOPRENE  
Head: POLYPROPYLENE



- 12V • BLDC
- 24V

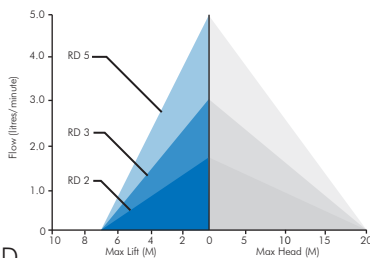
## RD2 /RD3 /RD5



### Features

- Max Flow: 5.0 l/min
- Max Lift: 7.0 m
- Max Head: 20.0m
- Size: 97 x 77 x 59mm
- Connector Size: 15/8mm OD

### Performance



### Standard Option

Diaphragm: SANTOPRENE  
Head: NORLYL



- 12V • BLDC
- 24V

# DIAPHRAGM PUMPS - AIR



The major advantage of the diaphragm pump is that the pumping chamber is totally sealed and, therefore, does not require a sliding seal between moving parts. Vacuum and pressure are produced by the flexing of the diaphragm back and forth in the chamber. The pumps can handle corrosive gases and vapours when the correct materials are specified and are completely oil-free which makes them ideal for use in applications where contamination cannot be tolerated.

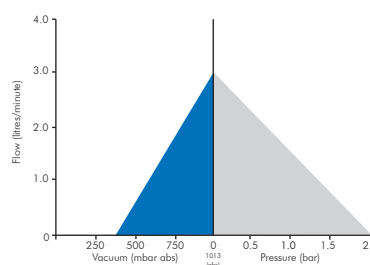
## D3 DC



### Features

- Max Flow: 3.0 l/min
- Max Vacuum: 350 mbar
- Max Pressure: 2.0 bar
- Size: 74 x 29 x 52mm
- Connector Size: 4mm

### Performance



### Standard Option

Diaphragm: EPDM

Head: NYLON



- POLYPROPYLENE
- PTFE



- 12V • 110V/ 230V
- 24V • BLDC

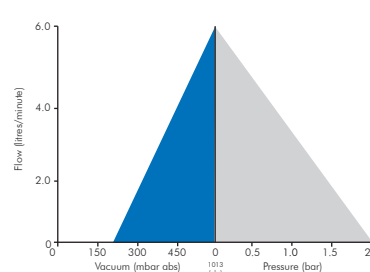
## D5 SE / D6 SE



### Features

- Max Flow: 6.0 l/min
- Max Vacuum: 190 mbar
- Max Pressure: 2.0 bar
- Size: 94 x 80 x 46mm
- Connector Size: 6mm

### Performance



### Standard Option

Diaphragm: EPDM

Head: NYLON



- POLYPROPYLENE
- PTFE



- 12V • 110V
- 24V • 230V
- BLDC



# PUMP OVERVIEW

	Model Reference	Pump Type	Flow l/min	Lift (M)	mbar (abs)	Pressure bar	Voltage		
							AC	DC	Brushless DC
LIQUID	RD01	RD	0.24	5		0.7			
	RD1	RD	0.85	7		2.0	●	●	
	RD1 STEPPER	RD	0.85	7		2.0		●	
	RD2	RD	1.7	7		2.0		●	●
	RD3	RD	3.0	7		2.0	●	●	
	RD4	RD	3.0	7		2.0		●	●
	RD5	RD	5.0	7		2.0	●	●	●
AIR	D3	D	3.0	-	350	2.0		●	●
	D5 SE	D	5.0	-	190	8.0	●	●	●

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## APPLICATIONS



HIGH VISCOSITY PUMPING



BAG IN BOX



PULP PUMPING



STEPPER OPTIONS



PRESSURE VENDING



GAS PUMP REPLACEMENT



BEVERAGE CHILLING

