

# DIAPHRAGM PUMPS

Flow	Vacuum	Pressure
1.8 l/min	325mm Hg	0.6 bar

## PM11 & L12

### MINIATURE VACUUM PUMP/COMPRESSOR

#### ◆ contamination free pumping of air and gas

These diaphragm pumps provide a clean oil-free vacuum and pressure source in a small package. For L12 typical applications include medical equipment and scientific instrument actuation. The PM11 requires a battery/DC power supply making it ideal for portable personal gas samplers and on board vehicle emission control.

#### ◆ flexibility and reliability

These small compact pumps are designed for OEM applications where light weight and low operating current are essential performance requirements. When users' needs dictate, standard performance can be increased or decreased by the use of optional components.

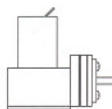
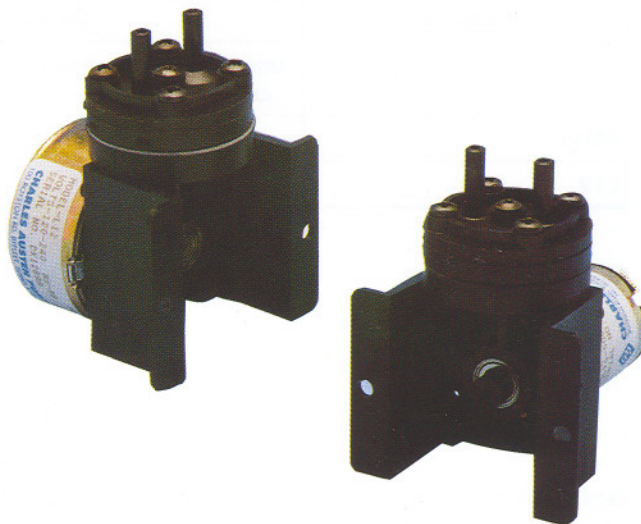
#### ◆ corrosion resistant options

Models can be modified with an optional range of materials to ensure resistance to a limited range of corrosive gases.

#### ◆ various motor voltage options

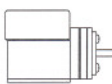
L12 - This model has a multi voltage synchronous motor that can run from both 230V 50Hz and 110/115V 50/60 Hz power supply.

PM11 - Available in 6V and 12V DC power supply options.



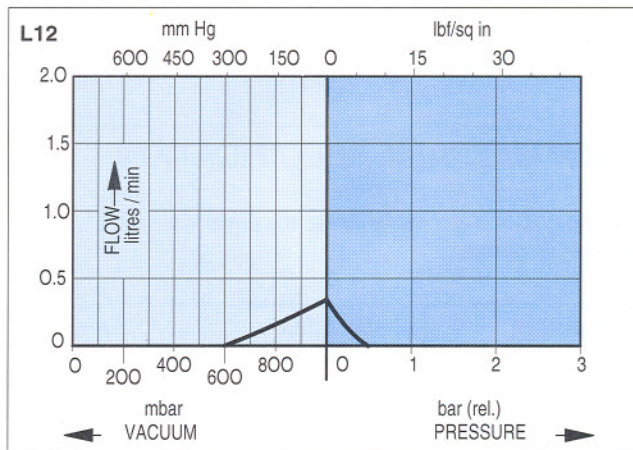
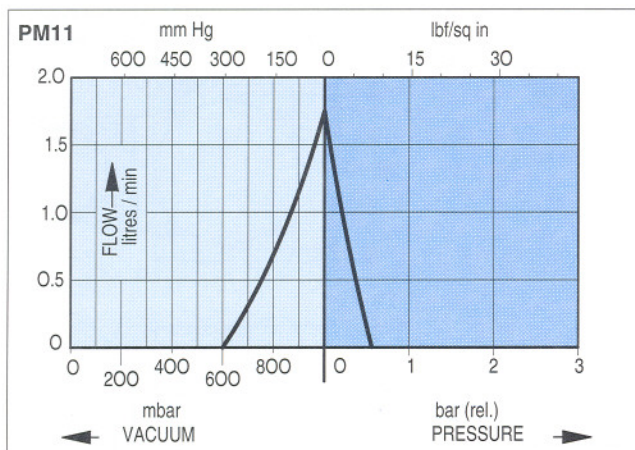
**PM11 single ended pump**

OEM model for DC supply.



**L12 single ended pump**

OEM model for AC supply.



Our sales engineers are at your service to assist in selecting the most appropriate model from our extensive range of pumps and accessories.

Our state of the art, research and development department is able to design new pumps from concept to production to meet client requirements.

We have manufactured pumps in large or small quantities for over 40 years. Every pump is tested before it leaves our factory and our extensive in-house facilities are fully accredited to ISO 9001.



**CHARLES AUSTEN PUMPS LTD**

Royston Road, Byfleet, West Byfleet, Surrey KT14 7NY. Tel: 01932 355277, Fax: 01932 351285



CERT No. FM 11848  
BS EN ISO 9001

# TECHNICAL DATA PM11 and L12

**Motor Type:** PM11: permanent magnet for DC power supply. 3200 RPM.  
L12: synchronous for AC power supply. 600 RPM.

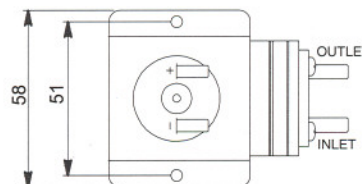
model no.	12V DC			115/230V 50Hz		
	operating current	max. load	fuse rating	operating current	max. load	Fuse Rating
PM11	0.1A	200mA	1A	n/a	n/a	n/a
L12	n/a	n/a	n/a	12mA	25mA	0.2A

## Connectors:

Integral, plain 4.8 mm OD connectors

### PM11

0.2 kg



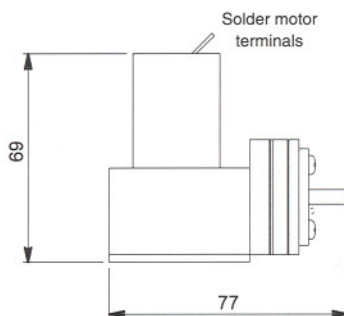
## Optional filter:

Filter: foam, 100 micron pore size fits onto the inlet connector



## Performance:

model no.	max. free flow l/min	max. vacuum mm Hg	max. pressure bar
L12	0.3	310	0.5
PM11	1.8	325	0.6



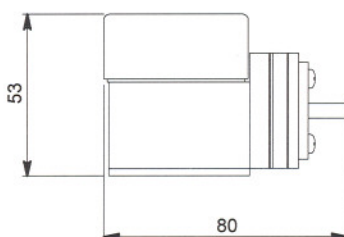
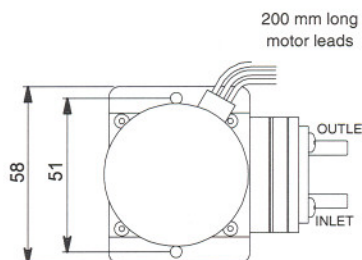
## PUMP MATERIAL SPECIFICATION

With the choice of Viton® flexibles, the pump will handle a range of corrosive gases.

Component	Standard	Options
Head	Nylon	n/a
Diaphragm/Valves	EPDM	Viton®
Connectors	Nylon	n/a

### L12

0.18 kg



dimensions: mm

Please note that it is important that you ensure the motor specification stated and the range of materials offered in the pump are compatible with the performance, environmental limitations and chemical resistance requirements of the application.

For further information or details of our extensive range of diaphragm pumps, contact our technical sales office who will be pleased to help you select the most suitable pump for your application.



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The Company reserves the right to alter the specification of the products shown without prior notice.

S30-200/2

