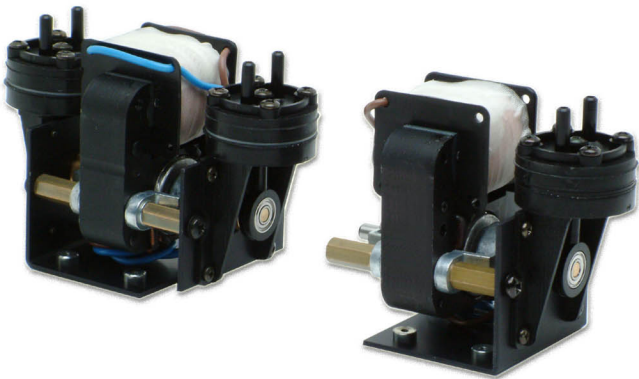


Oil-Free  
Diaphragm Pump

# DA1 Series



|              |              |
|--------------|--------------|
| Max Flow     | 3.5 l/min    |
| Max Vacuum   | 250 mbar abs |
| Max Pressure | 1.0 bar      |

**Well proven OEM design**

Suitable for continuous use in OEM applications, the DA1 series offers oil-free maintenance free operation. Suitable for applications where space is limited and reliability is essential such as low flow gas sampling.

**Robust construction**

With integral mounting bracket and tough nylon crankcase, the DA1 is ideal for industrial applications. Also available in a double ended version allowing flexibility of higher flow and vacuum or independent process use of each head for separate process lines.

**Motor voltage options**

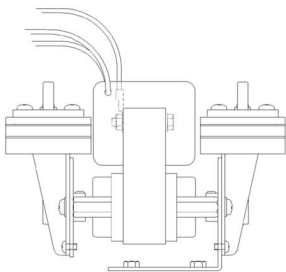
DA1 pumps use a rugged and cool-running shaded pole motor which is available in a wide variety of voltages. DC versions are also available; please refer to data sheet for PM11 model.

**Cased versions**

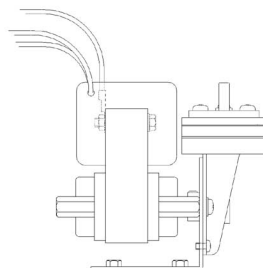
Also available in a tough polycarbonate case, the DA1 SEC is suitable for benchtop use and conforms to the IEC 1010 standards.

**Application ideas**

Application ideas include medical and environmental applications where reliability is essential.

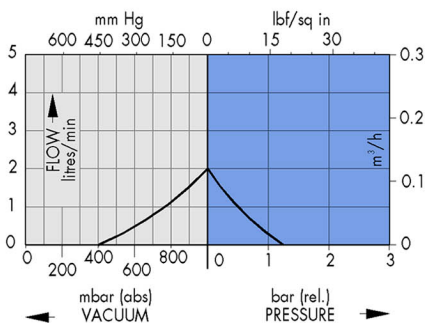


DA1 DE double ended pump  
OEM model can be connected  
in series or parallel

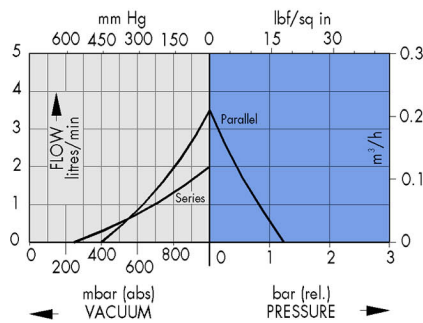


DA1 SE single ended pump

**DA1 SE**



**DA1 DE**



# DA1 Series

**Motor Type:**

IP20, Skeleton frame, shaded pole with cooling fan and shielded ball races throughout. 2800 RPM. Thermal Protection 120°C

| model no. | 110/115V 50/60Hz  |           |             | 230V 50Hz         |           |             |
|-----------|-------------------|-----------|-------------|-------------------|-----------|-------------|
|           | operating current | max. load | fuse rating | operating current | max. load | fuse rating |
| DA1 SE    | 0.3A              | 0.4A      | 1.0A        | 0.15A             | 0.2A      | 0.5A        |
| DA1 DE    | 0.25A             | 0.4A      | 1.0A        | 0.2A              | 0.3A      | 0.5A        |

**Performance:**

| model no.                 | max. free flow l/min | max. vacuum mbar (abs) | max. pressure bar |
|---------------------------|----------------------|------------------------|-------------------|
| DA1 SE                    | 1.8                  | 400                    | 1.0               |
| DA1 DE series connected   | 1.8                  | 250                    | 1.0*              |
| DA1 DE parallel connected | 3.5                  | 400                    | 1.0               |

\* recommended maximum working pressure

**Connectors:**

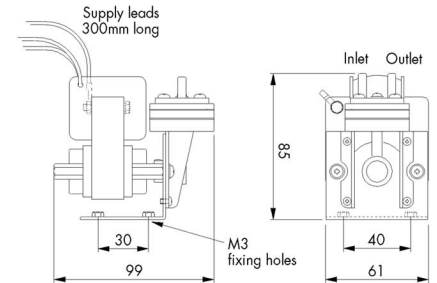
Integral plain, vertical, Nylon 4.8mm OD

**Optional filter:**

Foam, 100 micron type fits onto inlet connector

**DA1 SE** 0.85 kg

dimensions: mm

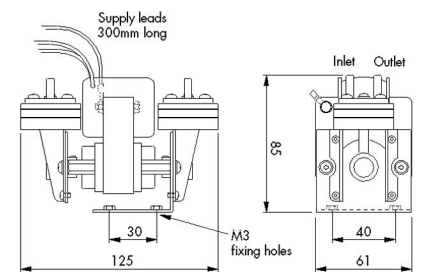


**Pump Materials:**

With the option of viton for the flexibles, the pump will handle a range of corrosive gases.

| component  | standard   | options |
|------------|------------|---------|
| Head       | Nylon      | n/a     |
| Diaphragm  | EPDM       | Viton   |
| Valves     | EPDM       | n/a     |
| Connectors | Connectors | n/a     |

**DA1 DE** 0.9 kg



distributed by:

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 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.

S30-219/3