UNO

Boxer Series S Pump

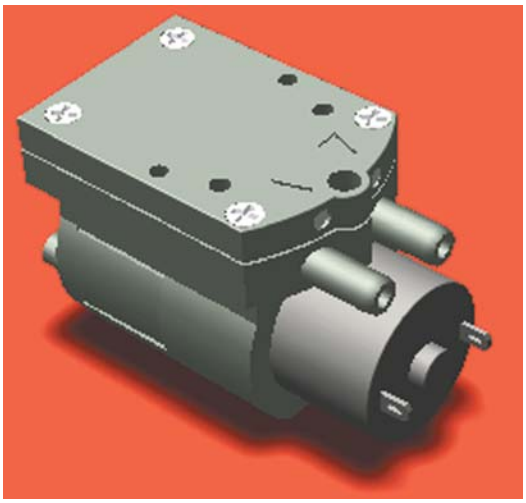
DC Power, Gases to 1.8 LPM, Vacuum to 300 mbar, Pressure to 7.25 PSI

DESCRIPTION

The most popular of the Boxer range, the Series-S is used in many thousands of portable gas detectors and micro-fluidic dispensing systems.

As with the Micro-Boxer, the Boxer S is available with either a permanent magnet DC motor or with a core-less motor.

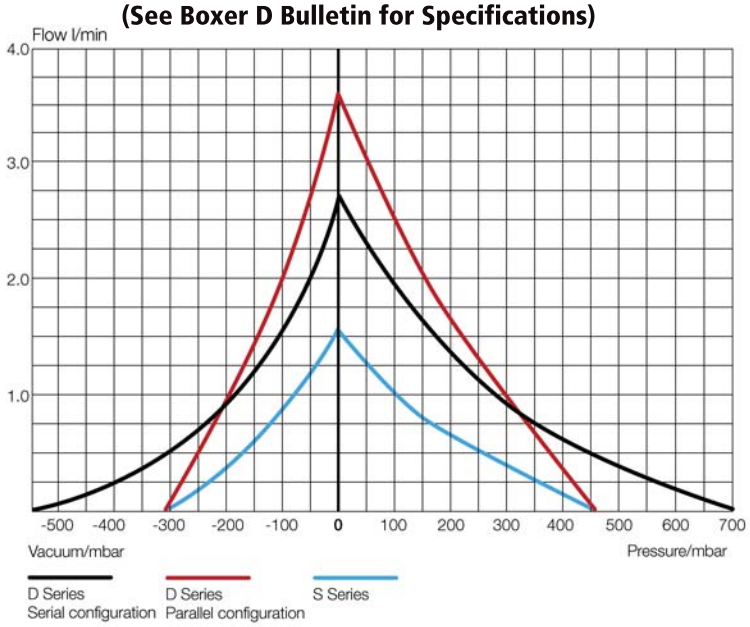
The design has been optimized to offer good performance with minimal current consumption. A typical Boxer S pump equipped with a core-less motor will, for example, consume merely 18 mA for an air flow of 0.8 l/min at 4.5V supply and will start and work at an ambient temperature of -20°C (-4°F).



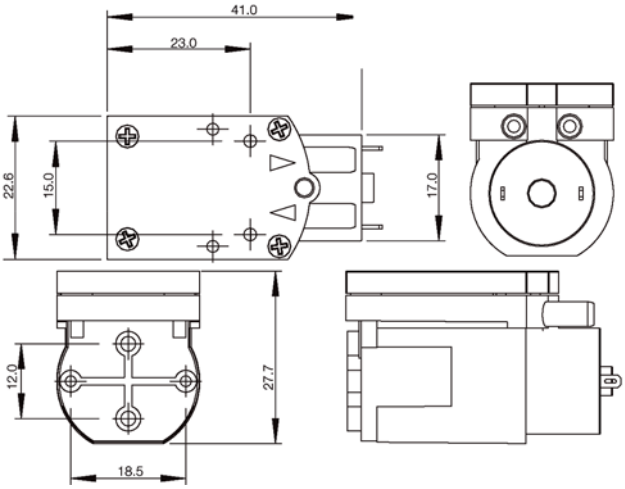
SPECIFICATIONS

Permanent Magnet Motor Ratings: 4.5 or 6.5 VDC
Core Less Motor Ratings: 6, 9, 12, 18, 24 VDC
Max Free Flow: 1.8 l/min
Max Pressure: 7.25 PSI (500mBar)
Max Vacuum: 300 mbar (225 mmHg)
Tube Connections: Ø3.5mm
Weight: 32g
Housing Material: PPO(Polyphenylene oxide)
Diaphragm & Valve Material: Silicone

Boxer S & Boxer D Performance Chart
(See Boxer D Bulletin for Specifications)



DIMENSIONS (MM)



ORDERING INFORMATION

Model	Description
GAS PUMP	
SM-4.5	Permanent Magnet Motor, 4.5 VDC
SM-6.5	Permanent Magnet Motor, 6.5 VDC
SF-6	Core-less Precious Metal, 6 VDC
SF-12	Core-less Precious Metal, 12 VDC
SF-9	Core-less Precious Metal, 9 VDC
SF-18	Core-less Precious Metal, 18 VDC
SF-24	Core-less Precious Metal, 24 VDC

MOUNTING

A unique feature of the Boxer pumps is the ability to mount the pumps as a push fit into your equipment. The pump has been designed to fit tightly onto the crank-case lid. The lid in this case acts as a fitting accessory for the pump.

Fitting the pump via the lid onto your equipment allows you to remove or replace the pump without the need of any tools. Just push the pump onto the lid and pull it out whenever desired.

The Boxer S pumps have 6 mounting holes and the Boxer D has 8 mounting holes for your choice. Normally two mounting screws are sufficient to secure the pump into your instrument.

The crank-case lid has two blind mounting holes for No. 2 self tapping screws and two through holes for M2 machine screws. You can use the two M2 machine screws in order to mount the crank-case lid either from the outside or the inside of the instrument.

The two other mounting holes (four for the D range), are on the side plates of the pump. These holes are 10mm deep