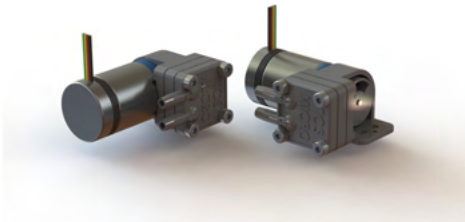


Micro Diaphragm Gas Pump Range

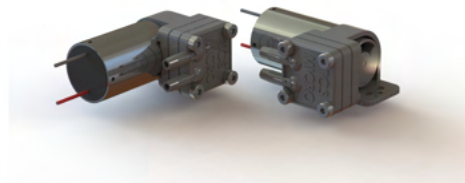
Overview : Gas Pump, Very Efficient, High Pressure, Low Flow

The D200 series range of pumps are constructed from glass filled nylon or stainless steel with stainless steel tubing connectors. They are fitted with Viton diaphragm and valves as standard but alternative elastomer options are available enabling this pump range to be adapted to most applications. The pump uses efficient barbed style connectors designed for 2.4mm bore flexible tubing.

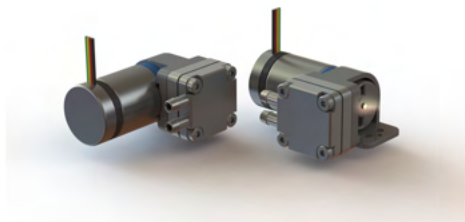
Pump Variants



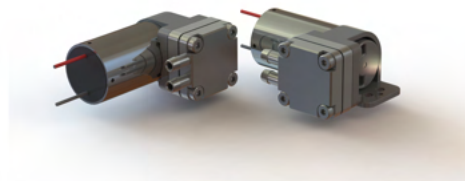
D220BLX - Moulded parts, Brushless drive motor



D220S - Moulded parts, Standard drive motor



D250BLX - CNC machined parts, Brushless drive motor



D250S - CNC machined parts, Standard drive motor

Typical Applications

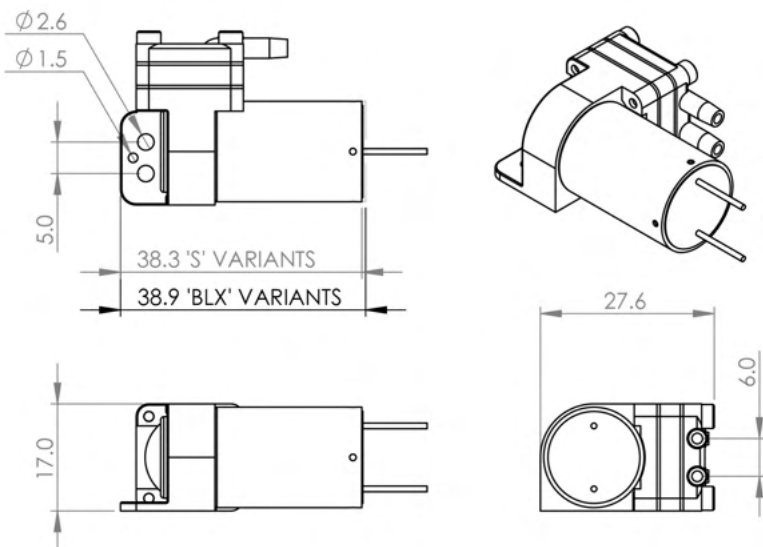
- Medical devices
- Analysis Systems
- Gas detection and monitoring
- Cooling Systems
- Precision Flow
- Battery + Solar Operated Systems

Features

- High Efficiency
- Variable flow rate and low power consumption
- Small size only 39 x 28 x 17 mm
- Usable with solar power, PSU or batteries
- Wide range of chemical resistance
- Light weight 22-35g
- Head can be realigned to one of 4 positions for easy inlet and outlet tube connection

S/BLX VARIANTS

Connectors to suit 2.4mm bore tubing



Materials

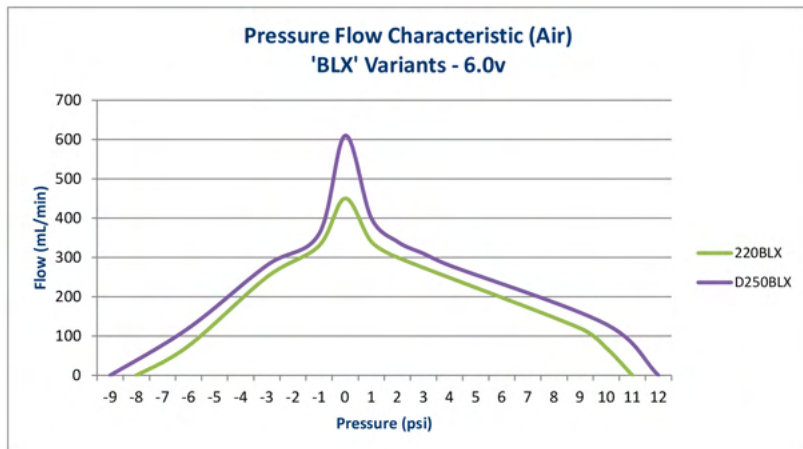
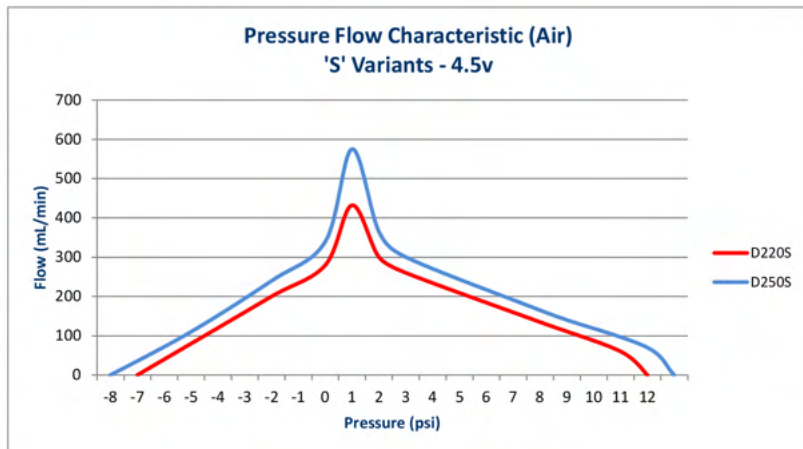
Wetted Parts

- 316 Stainless Steel or glass filled nylon
- 316 Stainless Steel
- Viton or EPDM

Performance Data

- Small Size 39 x 28 x 17mm
- Weight
 - D220S 31g
 - D250S 34g
 - D220BLX 22g
 - D250BLX 35g
- Operating Temp -20 to 100 deg C
- IP Rating - IP41
- Noise Levels <15dB
Measured at a distance of 1m with a 50dB ambient noise level
- MTBF 'BLX' stock pumps 10,000hrs
'S' stock pumps 5,000hrs
Special variants available to order >100,000hrs

D-Series Comparison



Tested on Air				
Variant	Input	Power	Flow	Pressure
	(V)	(W)	(ml/min)	(psi)
D220S	4.5	0.4	425.0	11.0
	4.5	0.4	-300.0	-8.0
D220BLX	6.0	0.7	450.0	10.0
	6.0	0.7	-380.0	-8.0
D250S	4.5	0.4	580.0	11.0
	4.5	0.4	-360.0	-8.0
D250BLX	6.0	0.7	620.0	12.0
	6.0	0.7	-420.0	-8.0