

## BOXER

# 22K Series Diaphragm Pump

Gas Flow Rate to 1.4 l/m

### DESCRIPTION

22K series pumps are designed for gas sampling applications and, like all other pumps in the Boxer range, can be customized to meet specific requirements.

The 22K series is currently the smallest miniature diaphragm pump in the Boxer range. The components are produced in a wide variety of materials providing compatibility with a wide range of applications. Diaphragms are available not only in different materials but also different thicknesses and profiles depending on the exact needs of the application. Likewise eccentrics from 0.5 to 0.85 mm can be configured.

This series is available in iron core and coreless motor options.

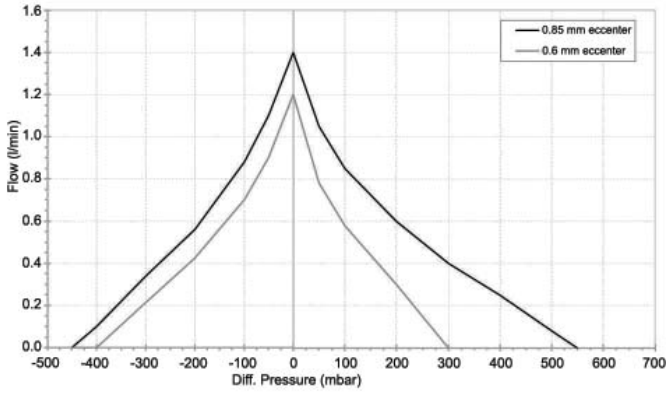


### SPECIFICATIONS

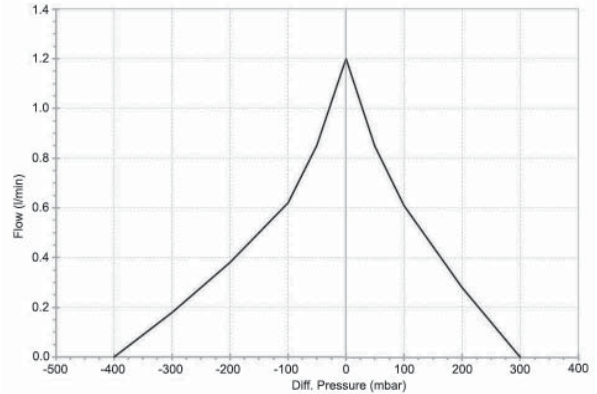
Iron Core Motor Models		
	0.85 mm Eccenter	0.6 mm Eccenter
Free Flow	1.4 l/m	1.2 l/m
Max Pressure	550 mbar	300 mbar
Max Vacuum	-450 mbar	-400 mbar
Power Consumption	0.5-1.6 W	0.5-1.0 W
Voltage Supply	3.0 or 4.5 VDC	
Motor Termination	Solder Tags (no preferred direction)	
Op. Temp. Range	5 to 60°C	
Op. Humidity Range	5 to 95% RH	
Housing Material	PPS	
Diaphragm Material	EPDM	
Valve Material	Silicone	
Tube Connection	Barb for 4 mm ID tubing	
Weight	32 g	

Coreless Motor Models- 0.6 mm Eccenter	
Free Flow	1.2 l/m
Max Pressure	300 mbar
Max Vacuum	-400 mbar
Power Consumption	0.3-1.2 W
Voltage Supply	3.5, 5.0, 6.5 10.0, 13.0 VDC
Motor Termination 3.5, 5.0, 6.5 V Motors	Solder Tags (Marked + and -)
Motor Termination 10.0 & 13.0 V Motors	150 mm Leads (Red & Black)
Op. Temp. Range	5 to 60°C
Op. Humidity Range	5 to 95% RH
Housing Material	PPS (Polyphenylene Sulphide)
Diaphragm Material	EPDM
Valve Material	Silicone
Tube Connection	Barb for 4 mm ID tubing
Weight	36 g

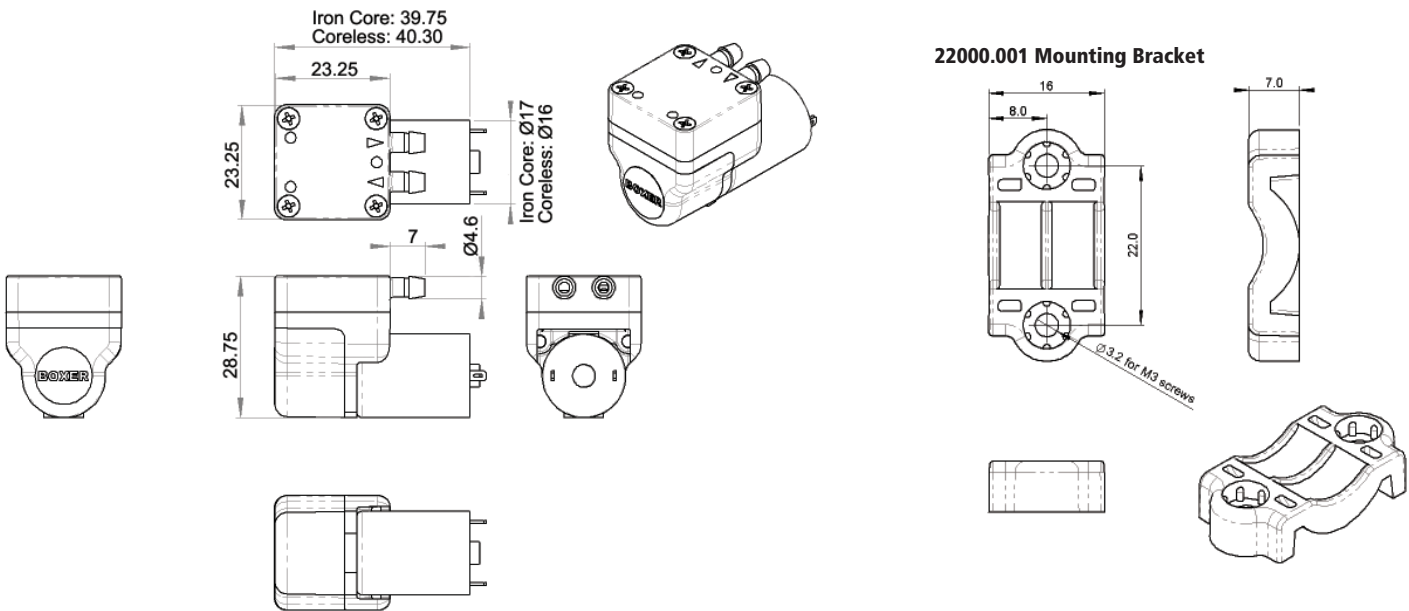
## FLOW PERFORMANCE IRON CORE MOTOR MODELS



## FLOW PERFORMANCE CORELESS MOTOR MODELS



## DIMENSIONS (MM)



## ORDERING INFORMATION

Model	Motor Type	Nominal Pump Voltage (VDC)	Eccentric (mm)
22000.005	Iron Core	3.0	0.85
22000.006	Iron Core	4.5	0.85
22000.010	Iron Core	3.0	0.6
22000.011	Iron Core	4.5	0.6
221000.001	Coreless	3.5	0.6
22100.003	Coreless	5.0	0.6
22100.005	Coreless	6.5	0.6
22100.007	Coreless	10.0	0.6
22100.009	Coreless	13.0	0.6
22000.001	Mounting Bracket		