



SPECIFICATION GeoPump™

GP3B

GENERAL

Pump model:	GP3B
Outside diameter:	67 mm
Liquid intake:	Bottom filling
Overall length:	1105 mm
Weight:	5.0 kg
Maximum flow rate:	28 lit/min
Average cycle volume:	0.65 lit
Maximum drawdown:	580 mm
Restart liquid level:	630 mm

PERFORMANCE

Maximum head:	80 metres
Pressure range:	2 to 8 bar
Air usage at max flow:	98 lit/min (3.5 cfm)
Minimum density range:	0.7 SpG
Typical liquids:	Landfill leachate/dissolved solvents/fuels

MATERIALS

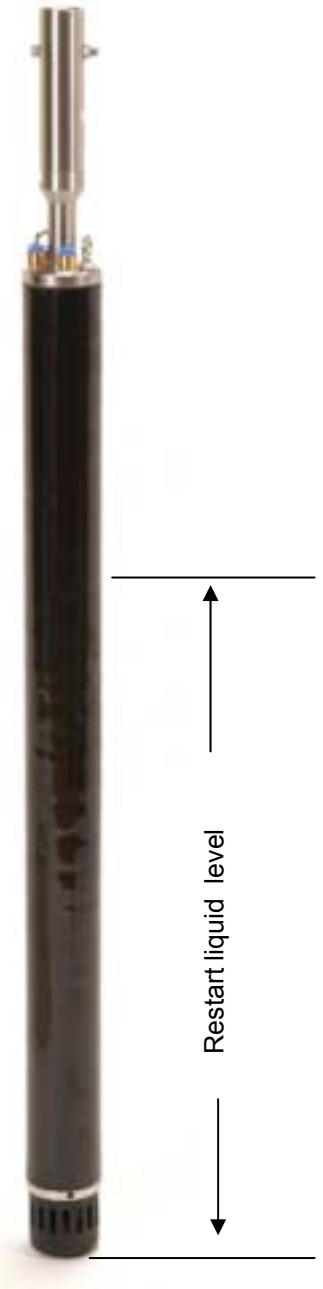
Body:	FRP/Stainless steel
Float:	Closed cell polyurethane
Main components:	Stainless steel

CONNECTIONS & FITTINGS

Discharge:	1" BSP
Air vent:	1/4" BSP
Air inlet:	1/4" BSP
Fittings:	One touch or hosetail

TUBING

Discharge:	Polyethylene/PUR
Air:	Nylon/polyethylene/PUR
Vent:	Nylon/polyethylene/PUR





PERFORMANCE CURVES

GeoPump™

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PUMPING CAPACITY

As liquid enters the **GeoPump™** under gravity and exits under the pressure of compressed air the performance of the **GeoPump™** is dependent on several factors which include:-

- ◆ Depth of liquid above pump inlet (submergence)
- ◆ Operating air pressure
- ◆ Internal diameter of hoses used
- ◆ Total dynamic head

The performance curve opposite is based on the following criteria:-

Air pressure:	7 bar
Liquid discharge ID:	25mm
Air vent ID:	19mm
Air inlet ID:	12mm

AIR REQUIREMENT

PRESSURE

The pressure required will depend on the total dynamic head of the system. It is recommended that the pressure should be set at the calculated maximum air pressure plus 1 bar.

VOLUME

The amount of air required for the **GeoPump™** will depend on the volume of liquid which is being pumped. This is determined by the total dynamic head of the system.

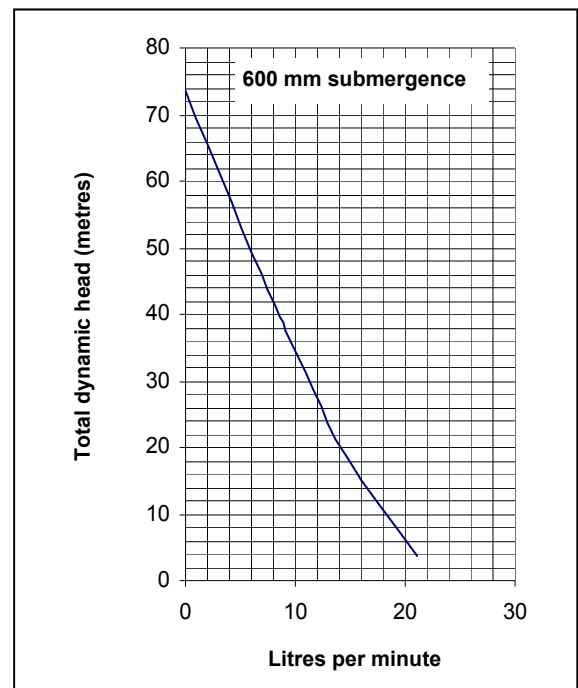
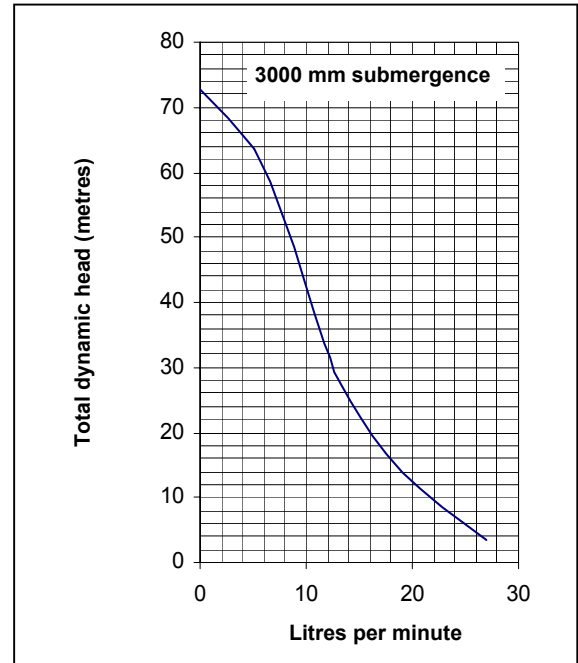
Maximum air requirement: 98 lit/min (3.5 cfm)

If the liquid level above the pump inlet is reduced then the pump will fill slower and therefore the flow will be reduced. The air requirement will therefore also be reduced.

To size the correct compressor for any installation it is recommended that it be sized for the maximum air requirement.

Should the flow be reduced due to drawdown within the well then the actual air requirement will decrease which will save on energy or allow additional pumps to be added to the same compressor.

**IF NECESSARY PLEASE CONTACT
MGS FOR ADVICE**



Specifications may be changed without prior notice

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