

Product Advantages

- Oil-free, maintenance free
- Long life
- High air-tightness
- Quiet, less vibration
- Easy installation, can be operated in every place
- Pure transportation, sucking, compressing air, gas and vapor

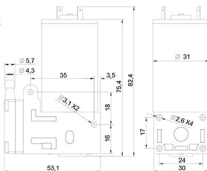
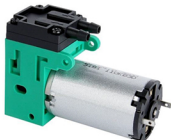
Applications

- Medical devices
- Gas analyser
- Automation
- Power supply system of battery



G3053 Miniature pump (air pump)

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Parameters

Model	12V	GED1272405	GED1258205	GED1245105	GED12120P402	GED1270P205
	24V	GED2472405	GED2458205	GED2445105	GED24120P402	GED2470P205
Flow rate		4.5 L/min	2.5 L/min	1.5 L/min	4.2 L/min	2.5 L/min
Vacuum degree		72% (-72kPa)	58% (-58kPa)	45% (-45kPa)		
Max. pressure					120kPa	70kPa
Continuous vacuum		72% (-72kPa)	58% (-58kPa)	45% (-45kPa)		
Working pressure					100kPa	70kPa
Start vacuum		72% (-72kPa)	58% (-58kPa)	45% (-45kPa)		
Start pressure					120kPa	70kPa

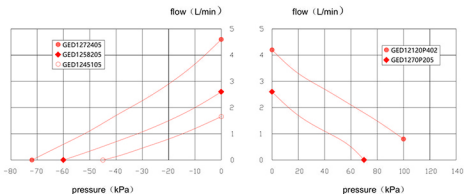
Motor Parameters

Voltage	12V/24V				
Rated speed	3400rpm				
Power	5W	4W	4W	5W	4W

Other Parameters

Pump head	PA
Diaphragm	EPDM
Valve plate	EPDM
Working ambient	5°C~50°C
Working media	5°C~50°C
Weight	188g

Curve graph



Note:

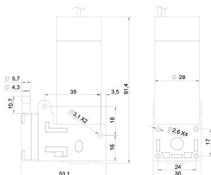
Above curves are the test result under 4m altitude and 24 °C temperature, under different altitude and temperature may have different results.

This drawing is a made according to PENGPU's testing data, only for reference. If any losses result from this drawing, PENGPU is not taking responsibility for it.

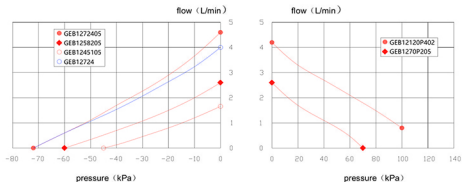
G3053 Miniature pump (air pump)



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Parameters							
Model	12V	GERB1272405	GERB12724	GERB1258205	GERB1245105	GERB12120P402	GERB1270P205
	24V	GERB2472405	GERB24724	GERB2458205	GERB2445105	GERB24120P402	GERB2470P205
Flow rate		4.5 L/min	4 L/min	2.5 L/min	1.5 L/min	4.2 L/min	2.5 L/min
Vacuum		72% (-72kPa)	72% (-72kPa)	58% (-58kPa)	45% (-45kPa)	————	————
Max. pressure		————	————	————	————	120KPa	70KPa
Continuous vacuum		72% (-72kPa)	72% (-72kPa)	58% (-58kPa)	45% (-45kPa)	————	————
Working pressure		————	————	————	————	100KPa	70KPa
Start vacuum		72% (-72kPa)	72% (-72kPa)	58% (-58kPa)	45% (-45kPa)	————	————
Start pressure		————	————	————	————	120KPa	70KPa
Motor Parameters							
Voltage	12V/24V						
Rated speed		3400rpm	3000rpm	3400rpm	3400rpm	3400rpm	3400rpm
Power		4W	4W	4W	4W	4W	4W
Other Parameters							
Pump head	PA						
Diaphragm	EPDM						
Valve	EPDM						
Working ambient temp.5℃~50℃							
Working media temp. 5℃~50℃							
Weight	228g						



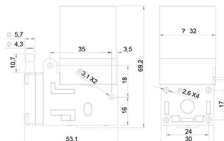
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G3053 Miniature pump (air pump)

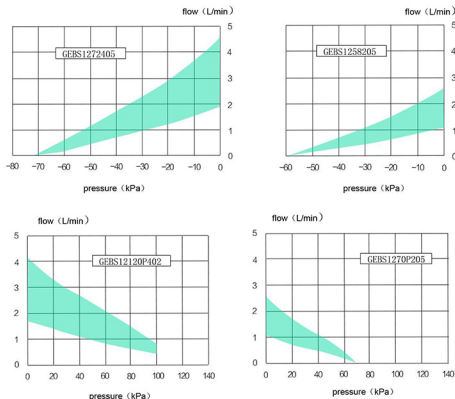


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Parameters				
Model	12V	GEB1272405	GEB1258205	GEB12120P402
	24V	GEB2472405	GEB2458205	GEB24120P402
Flow rate		4.5 L/min	2.5 L/min	4.2 L/min
Vacuum degree		72% (~72kPa)	58% (~58kPa)	2.5 L/min
Max. pressure			120kPa	70kPa
Continuous vacuum		72% (~72kPa)	58% (~58kPa)	
Working pressure			100kPa	70kPa
Start vacuum		72% (~72kPa)	58% (~58kPa)	
Start pressure			120kPa	70kPa
Motor Parameters				
Rated voltage	12V/24V			
Rated speed	3400rpm			
Power	3W/5W	3W/5W	4W/5W	3W/5W
Other Parameters				
Pump head	PA			
Diaphragm	EPDM			
Valve plate	EPDM			
Working ambient	5°C~50°C			
Working media	5°C~50°C			
Weight	146g			

Curve graph



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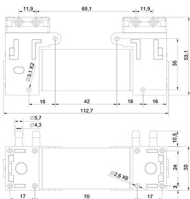
Connections

Red line	+	12V or 24V
Black line	-	
White line	SP speed adjust line	Input 0-5V analog voltage 0~0.5V motor stay still 0.5~4.5V speed regulation interval 4.5~5V the fastest speed PWM suggest frequency 10KHZ-30KHZ; amplitude: 5v; duty cycle 0~10%: motor stay still; duty cycle 10~90%: speed adjust interval; duty cycle: 90~100% the fastest speed
Yellow line	Feedback FG	FG speed feedback line connects to oscilloscope's probe or upper monitor, 1 pulse/circle
Notice: 1. when you don't need speed adjustment, black line goes to negative pole, whitetred line goes to positive pole, motor runs at high speed. 2. Positive and negative pole of the motor is anti-reverse, so that it won't burn down when they are connected to the wrong pole.		

G3053 Miniature pump (air pump)



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Parameters

		works as 2 individual pump head (vacuum)	works as 2 individual pump head (pressure)	Series connection (vacuum)	Parallel connection (vacuum)	Parallel connection (pressure)
Model	12V	GEBS1272405C	GEBS12120P402C	GEBS1290402C	GEBS1272805C	GEBS12120P802C
	24V	GEBS2472405C	GEBS24120P402C	GEBS2490402C	GEBS2472805C	GEBS24120P802C
Flow rate		4.5 L/min*2	4.2 L/min*2	4.2 L/min	8.5 L/min	8.2 L/min
Vacuum degree		72% (-72kPa)	—	90% (-90kPa)	72% (-72kPa)	—
Max. pressure		—	120kPa	—	—	120KPa
Continuous vacuum		72% (-72kPa)	—	90% (-90kPa)	72% (-72kPa)	—
Working pressure		—	100kPa	—	—	100KPa
Start vacuum		72% (-72kPa)	—	90% (-90kPa)	72% (-72kPa)	—
Start pressure		—	120kPa	—	—	120KPa

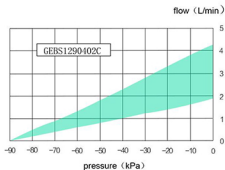
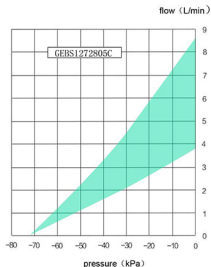
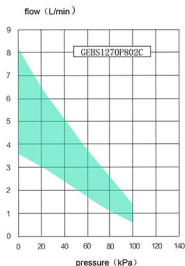
Motor Parameters

Voltage	12V/24V
Rated speed	3400rpm
Power	12W

Other Parameters

Pump head	PA
Diaphragm	EPDM
Valve plate	EPDM
Working ambient temp.	5℃~50℃
Working media temp.	5℃~50℃
Weight	290g

Curve graph



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Two options of external drive

PWM speed adjust drive



Button type speed adjust drive

