

GK50 POLYPROPYLENE SERIES PNEUMATIC DIAPHRAGM PUMP DETAILS

PRODUCT SPECIFICATIONS



Technical Specifications	
Max. Working Pressure	120 psi(0.84Mpa,8.4bar)
Max Flow Rate	150 gpm(570 lpm)
Max Reciprocating Speed	145 cpm
Max Suction Height (Dry)	5m
Max permitted Grain	0.24in. (6mm)
Max Air Consumption	140scfm (70L/s)
Air Inlet Size	1/2 in.
Air Outlet Size	3/4 in.
Fluid Inlet Size	2 in.
Fluid Outlet Size	2 in.
Weight	22kg

Product Overview

GinKai Polypropylene Series

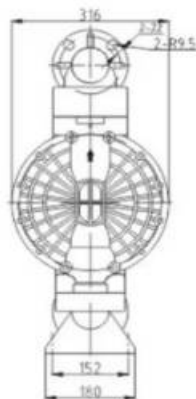
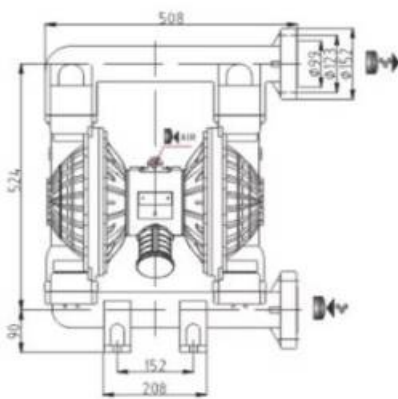
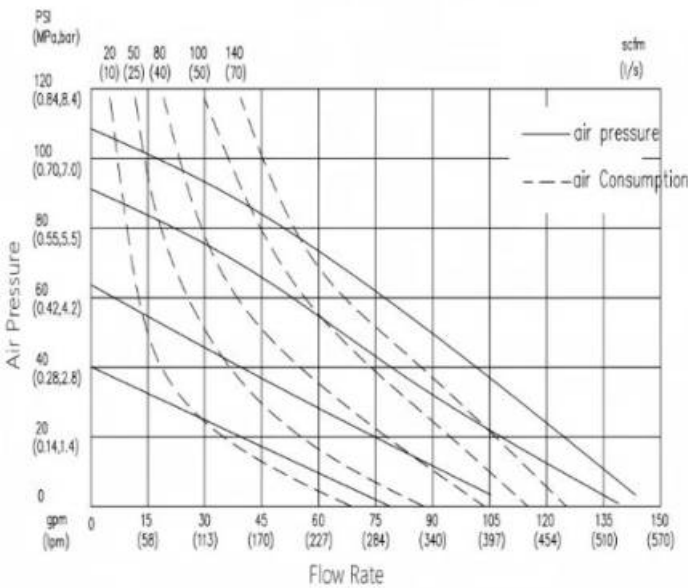
Introducing Our High-Performance PP Pneumatic Diaphragm Pump!

- Material: Made of Polypropylene (PP) - Exceptional corrosion resistance , lightweight , and cost-efficient .
- Leakage-Free Design: Safely handles hazardous or high-purity media without contamination.
- Wear-Resistant: Ideal for particle-laden fluids (slurries, abrasive chemicals).
- Full Size Range: 1/4" to 3" - Perfect for any flow demand!
- Wide Applications: Chemical Industry, Wastewater Treatment, Electroplating, and more.

Why Choose Us?

- Reliable & Durable: Built to handle aggressive chemicals and harsh environments.
- Easy to Maintain: Simple design ensures long service life.
- Custom Solutions: Let us tailor the pump to your specific needs!

GK50 Technical Curve



Performance introduction

GINKAI pneumatic diaphragm pump can not only pump fluid liquids and powders, but also some mediums that usually hard to flow. It possesses the advantages of self-priming pump, submerged pump, shielding pump, slurry pump, impurity pump and other transportation machines.

1.No need to pilot water, suction lift up to 7m, pump head up to 80m, outlet pressure $\geq 0.8\text{MPa}$.

2.Spacious flowing way with good through-pass performance, the largest size of particles allowed can be up to 9.4mm.

While pumping slurry and impurity, the abrasion is very low.

3.The pump head and capacity can be adjusted via the pressure of air source (between 0.1~0.84 MPa).

4.Temperature range of working environment: 5~65°C

5.The pump has no rotating parts and shaft seals. The diaphragms separate the pumped medium from moving part and working medium absolutely, so that the pumped medium does not leak to outside. So there are no risks of environment pollution and personal injury while pumping poisonous, volatile or corrosive media.

6.It works without electricity and is safe and reliable in inflammable and explosive conditions.

7.Can be immersed into the medium.

8.Easy to use and works reliably. To turn on/off the pump, just open and close the air valve. Even in cases of unexpected long-term operation without medium or sudden shutdown, it will not be damaged. Once overloaded, it has self-protecting function and will shut down automatically. As long as the load goes back to normal, it starts up automatically again.

9.Simple structure, less vulnerable parts. The pump has a simple structure design and thus easy to install and maintain.

The pumped medium does not contact with moving parts such as air-distributing valve and link rod, so the performance will not go worse with the abrasion of rotors, pistons, gears and vanes as other types of pumps.

10.Can pump the viscous liquids (viscosity below 10000centipoise)

11.Without lubrication. There are no effects to the pump in dry operation mode. This is a key feature of the pump.

Model Example:

GK-P-25 P K F F - F

GINKAI

系列 Series	口径 Size	泵体 Body	阀座 valve seat	球 Ball	膜片 Diaphragm	连接方式(仅塑料泵) Connection (only for plastic pumps)
GK-A 铝合中心体 Aluminum center body	06 = 1/4" (06mm)	M=Acetal (乙缩醛/AC)	F=PTFE (聚四氟乙烯)	F=PTFE (聚四氟乙烯)	F=PTFE (聚四氟乙烯)	F=Flange 法兰
GK-S 不锈钢中心体 Stainless steel center body	10 = 3/8" (10mm)	P=Polypropylene (聚丙烯/PP)	M=Acetal (乙缩醛/AC)	C=Ceramic (陶瓷)	H=Hytrel (聚醚/HY)	T=Threaded 螺纹
GK-P 塑料中心体 Plastic center body	15 = 1/2" (15mm)	A=Aluminum (铝合金/ADC12)	S=SS304 (304不锈钢)	S=SS304 (304不锈钢)	T= Santoprene (三道/SP)	
	20 = 3/4" (20mm)	S=SS304 (304不锈钢)	L=SS316 (316不锈钢)	L=SS316 (316不锈钢)	B=Buna N (丁腈/BN)	
	25 = 1" (25mm)	K=PVDF (聚偏氟乙烯/KY)	H=Hytrel (聚醚/HY)	H=Hytrel (聚醚/HY)	V=Viton (氟橡胶/VT)	
	40 = 1 1/2" (40mm)	D=Ductile Iron (球墨铸铁/DI)	T= Santoprene (三道/SP)	T= Santoprene (三道/SP)	E=EPDM (三元乙丙)	
	50 = 2" (50mm)	L=SS316 (316不锈钢)	V=Viton (氟橡胶/VT)	B=Buna N (丁腈/BN)		
	80 = 3" (80mm)	G=SS316L (316不锈钢)	P=Polypropylene (聚丙烯/PP)	V=Viton (氟橡胶/VT)		
			K=PVDF (聚偏氟乙烯/KY)	E=EPDM (三元乙丙)		
			G=SS316L (316L不锈钢)	G=SS316L (316L不锈钢)		