

## GK40PVDF SERIES PNEUMATIC DIAPHRAGM PUMP DETAILS (THREADED CONNECT)

### PRODUCT SPECIFICATIONS



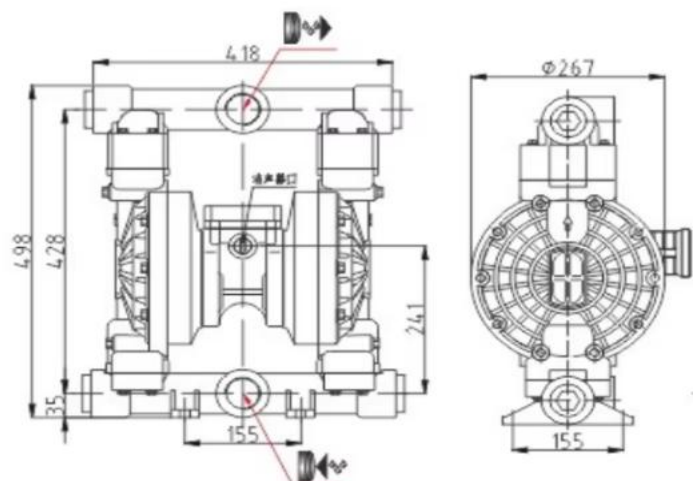
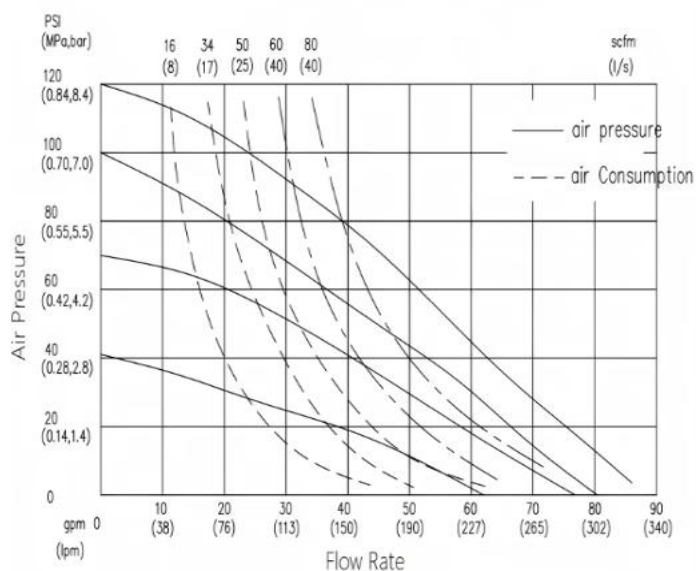
| Technical Specifications |                         |
|--------------------------|-------------------------|
| Max. Working Pressure    | 120 psi(0.84Mpa,8.4bar) |
| Max Flow Rate            | 90 gpm(340 lpm)         |
| Max Reciprocating Speed  | 200 cpm                 |
| Max Suction Height (Dry) | 5m                      |
| Max permitted Grain      | 0.2in. (5mm)            |
| Max Air Consumption      | 80scfm (40L/s)          |
| Air Inlet Size           | 1/2 in.                 |
| Air Outlet Size          | 3/4 in.                 |
| Fluid Inlet Size         | 1 1/2 in.               |
| Fluid Outlet Size        | 1 1/2 in.               |
| Weight                   | 22.3kg                  |

### Product Overview

#### GinKai PVDF Series

- Corrosion Champion: Engineered with PVDF (Kynar® equivalent) material for unmatched resistance to acids, solvents, and aggressive chemicals.
- Ultra-Pure Performance: Ideal for high-purity fluid transfer (e.g., semiconductor-grade chemicals, pharmaceuticals) with minimal contamination risk.
- Tough & Versatile: Excels in harsh environments like chemical processing, wastewater treatment, and semiconductor fab – handles abrasive slurries, viscous liquids, or reactive media effortlessly.

GK40 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<br>Series                                     | 口径<br>Size                                               | 泵体<br>Body                                                                                          | 阀座<br>valve seat                                                                                                                                       | 球<br>Ball                                                                                                                                  | 膜片<br>Diaphragm                                 | 连接方式(仅塑料泵)<br>Connection<br>(only for plastic pumps) |
|--------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------|
| GK-A<br>铝合中心体<br>Aluminum center<br>body         | 06 = 1/4" (06mm)<br>10 = 3/8" (10mm)<br>15 = 1/2" (15mm) | M=Acetal<br>(乙缩醛/AC)<br>P=Polypropylene<br>(聚丙烯/PP)                                                 | F=PTFE<br>(聚四氟乙烯)<br>M=Acetal<br>(乙缩醛/AC)                                                                                                              | F=PTFE<br>(聚四氟乙烯)<br>C=Ceramic<br>(陶瓷)                                                                                                     | F=PTFE<br>(聚四氟乙烯)<br>H=Hytrel<br>(聚醚/HY)        | F=Flange<br>法兰<br>T=Threaded<br>螺纹                   |
| GK-S<br>不锈钢中心体<br>Stainless steel<br>center body | 20 = 3/4" (20mm)<br>25 = 1" (25mm)<br>40 = 1 1/2" (40mm) | A=Aluminum<br>(铝合金/ADC12)<br>S=SS304<br>(304不锈钢)                                                    | S=SS304<br>(304不锈钢)<br>L=SS316<br>(316不锈钢)                                                                                                             | S=SS304<br>(304不锈钢)<br>L=SS316<br>(316不锈钢)                                                                                                 | T= Santoprene<br>(三道/SP)<br>B=Buna N<br>(丁腈/BN) |                                                      |
| GK-P<br>塑料中心体<br>Plastic center<br>body          | 50 = 2" (50mm)<br>80 = 3" (80mm)                         | K=PVDF<br>(聚偏氟乙烯/KY)<br>D=Ductile Iron<br>(球墨铸铁/DI)<br>L=SS316<br>(316不锈钢)<br>G=SS316L<br>(316L不锈钢) | H=Hytrel<br>(聚醚/HY)<br>T= Santoprene<br>(三道/SP)<br>V=Viton<br>(氟橡胶/VT)<br>P=Polypropylene<br>(聚丙烯/PP)<br>K=PVDF<br>(聚偏氟乙烯/KY)<br>G=SS316L<br>(316L不锈钢) | H=Hytrel<br>(聚醚/HY)<br>T= Santoprene<br>(三道/SP)<br>B=Buna N<br>(丁腈/BN)<br>V=Viton<br>(氟橡胶/VT)<br>E=EPDM<br>(三元乙丙)<br>G=SS316L<br>(316L不锈钢) | V=Viton<br>(氟橡胶/VT)<br>E=EPDM<br>(三元乙丙)         |                                                      |