



MORK
SERIES
DIAPHRAGM PUMP

COMPANY INTRODUCTION

Jofee is the professional and well known diaphragm pump manufacturers in China. The company has professional design and development team, and established a perfect production management, quality control, and market development of the system. Through technical and management innovation to increase the competitiveness.

MORAK series diaphragm pump using the new design air valve, high efficient and durable, no need lubrication, no dead spots, the head up to 84 meters. Jofee committed to providing high quality products and services to fully meet customer and market needs. We sell the pumps to about 40 countries per year, glad to cooperate with you.

The main application of diaphragm pump

1, Food industry:

Pumping peanut butter, pickles, mashed potatoes, small sausage, jam, apple syrup, chocolate, perfume raw materials, hops and yeast slurry, syrup, molasses, etc.

2, Paint industry:

Pumping a variety of paints, resin etc

3, Adhesives and glues

Pumping all kinds Adhesives, glues etc

4, Ceramic industry:

Pumping a variety of tile, porcelain, tiles and pottery glaze etc

5, Mining industry:

After oil well drilling, pumping sediment Pumping the water or mud of mines, trenches, tunnels, mineral processing, slag, cement grout, mortar etc

6, Chemical industry:

Pumping a variety of emulsions and fillers, rubber paste, all kinds of abrasive, oil and mud, grease, A variety of toxic, flammable, volatile liquid, a variety of acids, alkalis, strong corrosive liquids.

7, Environmental protection, wastewater treatment industry:

Filter pressure, pumping A variety of sewage, mud, slurry

8, Shipping industry:

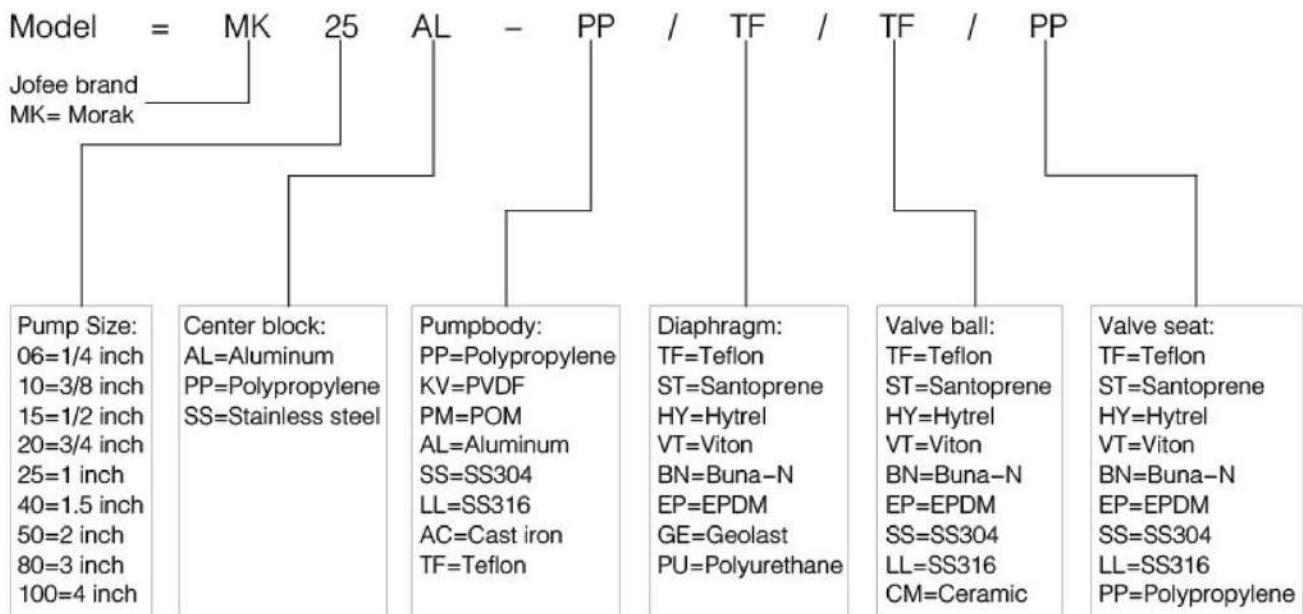
Pumping a variety of sewage, oil for the oil tankers, barges etc.

9, pumping a variety of high-temperature liquid, the max temperature up to 150 °C





Pump model and material code



General Characteristics

- Without electricity, explosion-proof, can convey flammable fluid
- No dynamic seals, even dry running without damage to the pump.
- No impeller, low shear, will not damage the material structure of fluid.
- Submersible, mobile, flexible installation, easy maintenance
- Can convey high-thick, high-viscosity fluid.
- Can convey acid, alkali, strong organic solvents and other fluid.
- Changing the inlet air and pressure, to adjust the flow rate and head

Jofee' s pump Characteristics

Manifold:

Center port design, low pulse. Three section manifold, flexible installation.

Valve ball

Adopt special grinding machine to process in high roundness and good seal.

Four bolts connection:

Good seal and excellent dry suction. No leakage.

Air valve

Modular design, low air consumption, no dead spots and no need lubrication.

Fluid chamber:

Enhanced the chamber strength, has long-term durability.

Diaphragm rod

Material to be Ss321, excellent chemical resistance, wearing resistance, good self-lubricating.

Air motor

Can supply aluminum, stainless steel and plastic air motor.

Diaphragm plate

Enhance the structural strength. One-piece design, high pressure resistance, no leakage.

Hardware:

Stainless steel hardware, can avoid rust and corrosion, easy maintenance.

Diaphragm

Accurately calculate the diaphragm moving distance to reduce the force to diaphragm, has excellent life time.

Operating temperature limitation

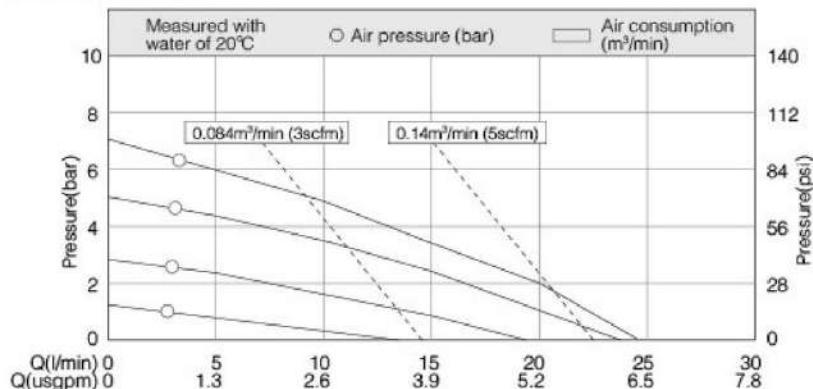
Diaphragm Material	Maximum	Minimum
Viton: excellent corrosion resistance, resistance to various acids (including the median concentration of oxidizing acid), alkali, salt, petroleum products, hydrocarbons, etc.	350 °F 176.6°C	-40 °F -40°C
PTFE(Teflon): excellent corrosion resistance, almost resistant to all chemical media (including concentrated nitric acid and aqua regia). Except melting of lithium, potassium, sodium, chlorine trifluoride, high-temperature oxygen trifluoride, sulfur-speed liquid fluorine.	350 °F 176.6°C	40 °F 4.4°C
Santoprene: good abrasion resistance, chemical resistance and heat resistance, suitable for general acid and alkali, not suitable solvent. Can replace the EPDM/EPR material.	220 °F 104.4°C	-20 °F -28.9°C
Hytrell: good abrasion resistance, used in most of the neutral fluid. Can replace Buna-N materials.	220 °F 104.4°C	-20 °F -28.9°C
EPDM: abrasion resistance, aging resistance, ozone resistance, suitable for general acid and alkali.	250 °F 121.6°C	-40 °F 40°C
Buna-N: widely used in gasoline and other oil products. Suitable for use at room temperature.	212 °F 100°C	-40 °F 40°C
GE: better abrasion resistance than Hytrell, the same chemical resistance as Buna-N.	220 °F 104.4°C	-20 °F -28.9°C
Pumpbody material		
PP: Medium abrasion resistance, good chemical resistance, good versatility, especially for common acid-base.	150 °F 65.5°C	40 °F 4.4°C
POM: good solvent resistance, abrasion resistance. Low friction, low moisture absorption.	150 °F 65.5°C	40 °F 4.4°C
PVDF: strong chemical resistance, crush resistance, abrasion resistance. Good corrosion resistance for acid, alkali and variety of organic solvents.	200 °F 93.3°C	40 °F 4.4°C

Note: The maximum and minimum temperature is the limited operating temperature of these materials. Temperature and pressure will affect the diaphragm life. Operating under the maximum or minimum temperature, can not achieve maximum life

MK06/10 Plastic pump



Performance curve



Technical parameters

Suction lift[mwc]	dry	2.1
	wet	3.7~6.4
Max particle diameter[mm]		1.6
Suction and discharge size[in]	1/4 3/8	
Air inlet size[in]		1/4
Max flow[l/min]		27
Max head[m]		70
Max air inlet pressure[bar]		7

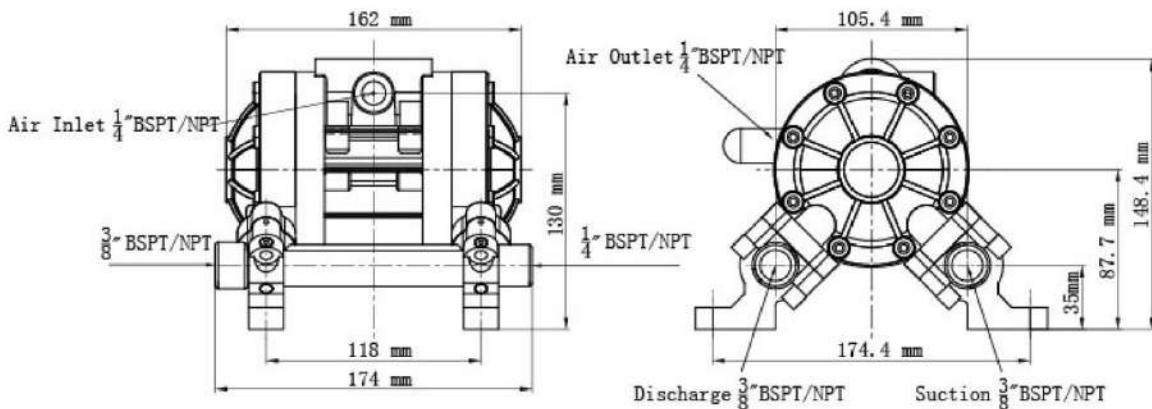
material quality

Pumpbody:	PP, PVDF, POM
Diaphragm:	Santoprene, Hytrel, Teflon, Viton, EPDM, Buna-N
Check valve:	PP, PVDF, POM
Center block:	PP

Weight

PP Pump / POM pump:	1.5 Kgs
PVDF pump:	2 Kgs

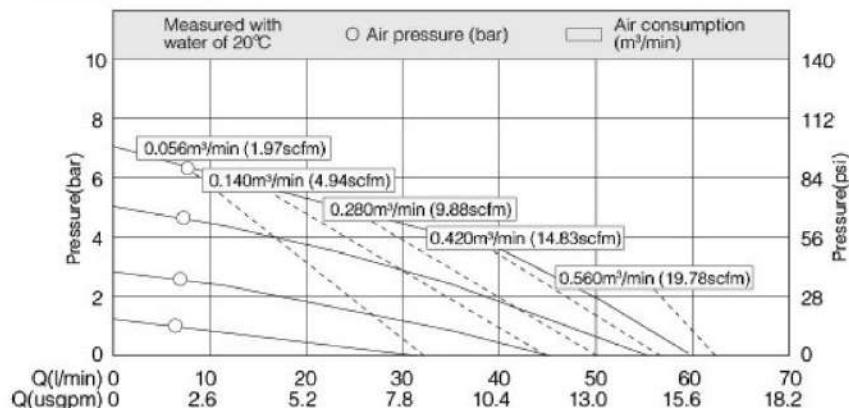
Installation size



MK15 Aluminum pump



Performance curve



Technical parameters

Suction lift[mwc]	dry	4
	wet	7.6
Max particle diameter[mm]		2.5
Suction and discharge size[in]	1/2	3/4
Air inlet size[in]		3/8
Max flow[l/min]		57
Max head[m]		84
Max air inlet pressure[bar]		8.4

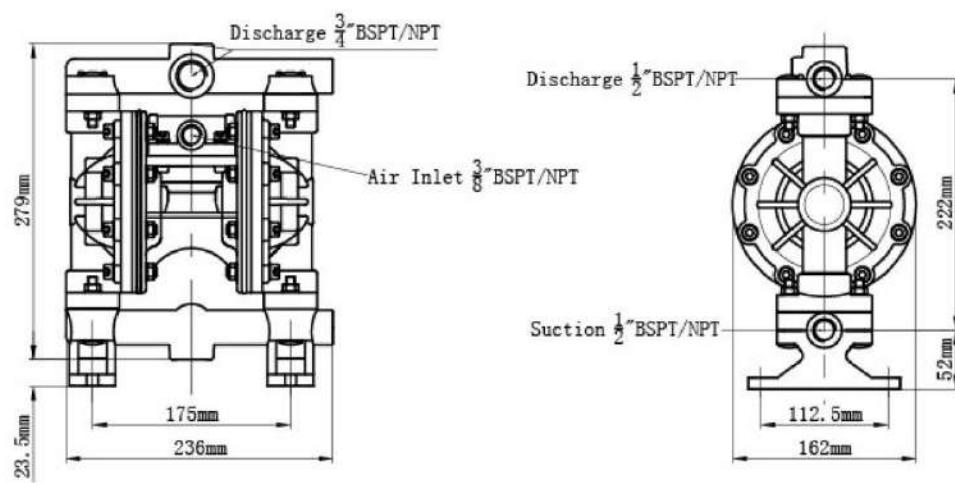
material quality

Pumpbody: Aluminum
 Diaphragm: Santoprene, Hytrel, Teflon, Viton, EPDM, Buna-N
 Valve ball: Teflon, Stainless steel, Santoprene
 Valve seat: SS304, SS316
 Center block: PP

Weight

Aluminum pump: 4.5 Kgs

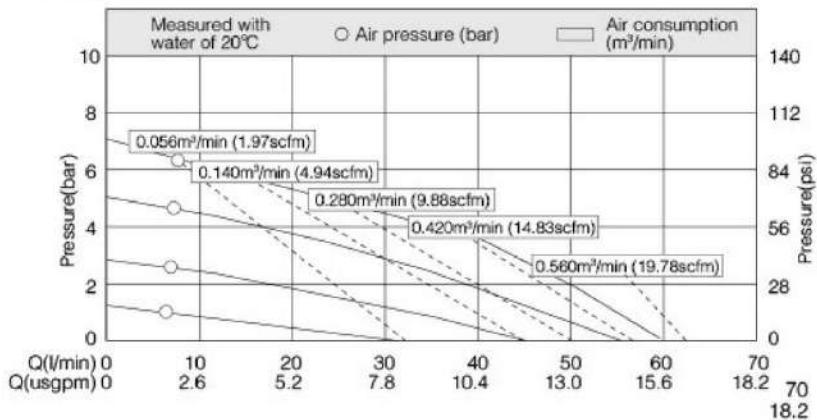
Installation size



MK15 Plastic pump



Performance curve



Technical parameters

Suction lift[mwc]	dry	4
	wet	7.6
Max particle diameter[mm]		2.5
Suction and discharge size[in]	1/2	3/4
Air inlet size[in]		3/8
Max flow[l/min]		57
Max head[m]		84
Max air inlet pressure[bar]		8.4

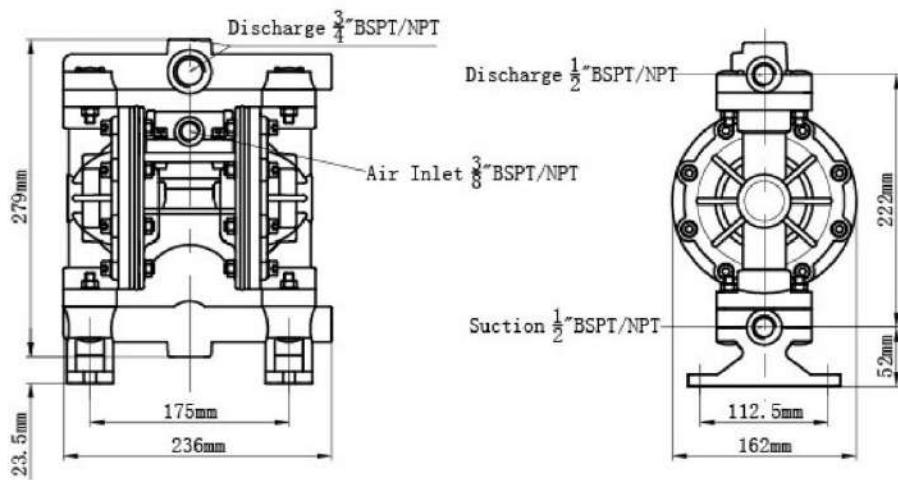
material quality

Pumpbody: PP, PVDF, POM
 Diaphragm: Santoprene, Hytrel, Teflon, Viton, EPDM, Buna-N
 Valve ball: Teflon, Stainless steel, Santoprene
 Valve seat: PP, PVDF, POM
 Center block: PP

Weight

PP pump / POM pump: 3.5 Kgs
 PVDF pump: 4.5 Kgs

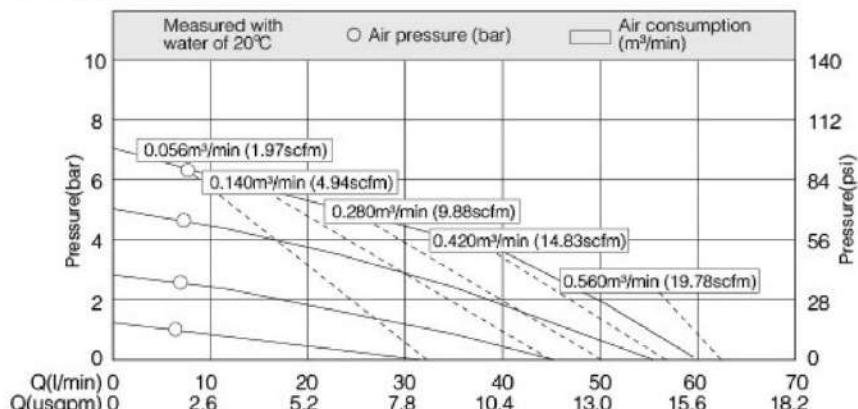
Installation size



MK15 Stainless steel pump



Performance curve



Technical parameters

Suction lift[mwc]	dry	4
	wet	7.6
Max particle diameter[mm]		2.5
Suction and discharge size[in]	1/2	3/4
Air inlet size[in]		3/8
Max flow[l/min]		57
Max head[m]		84
Max air inlet pressure[bar]		8.4

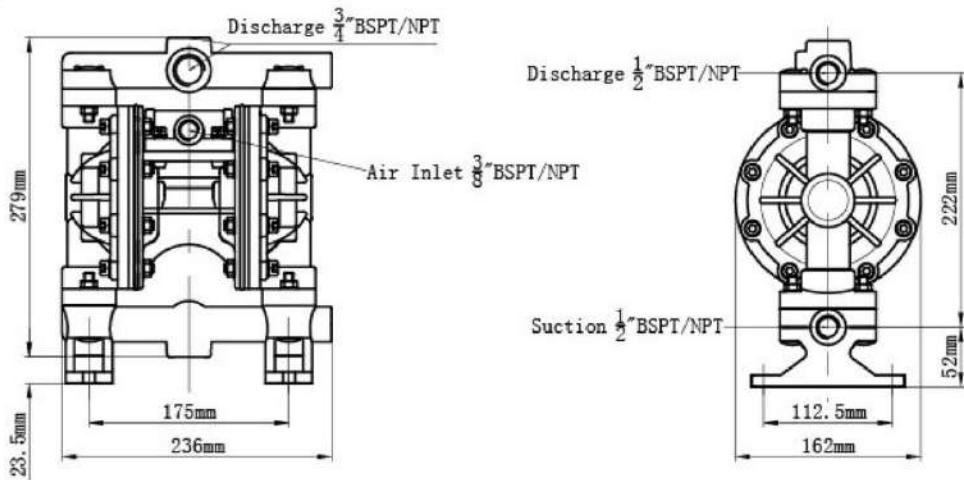
material quality

Pumpbody: SS304, SS316, SS316L
 Diaphragm: Santoprene, Hytrel, Teflon, Viton, EPDM, Buna-N
 Valve ball: Teflon, Stainless steel, Santoprene
 Valve seat: SS304, SS316, SS316L
 Center block: PP

Weight

SS304 Pump: 7.5 Kgs
 SS316 pump: 7.5 Kgs

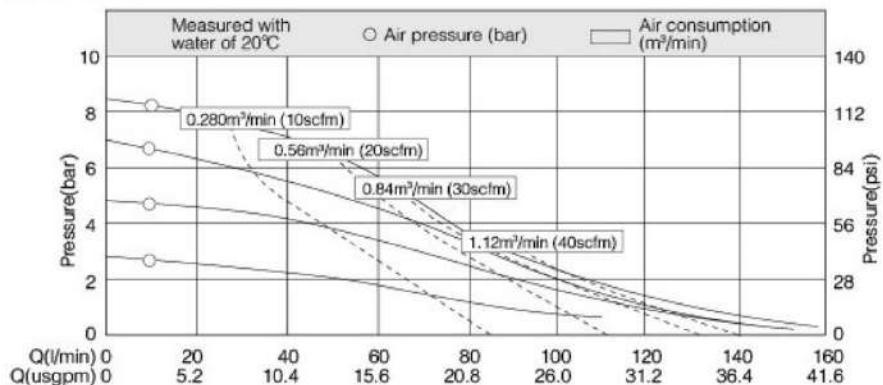
Installation size



MK25 Aluminum /cast iron pump



Performance curve



Technical parameters

Suction lift[mwc]	dry	4
	wet	8
Max particle diameter[mm]		4
Suction and discharge size[in]		1
Air inlet size[in]		1/2
Max flow[l/min]		157
Max head[m]		84
Max air inlet pressure[bar]		8.4

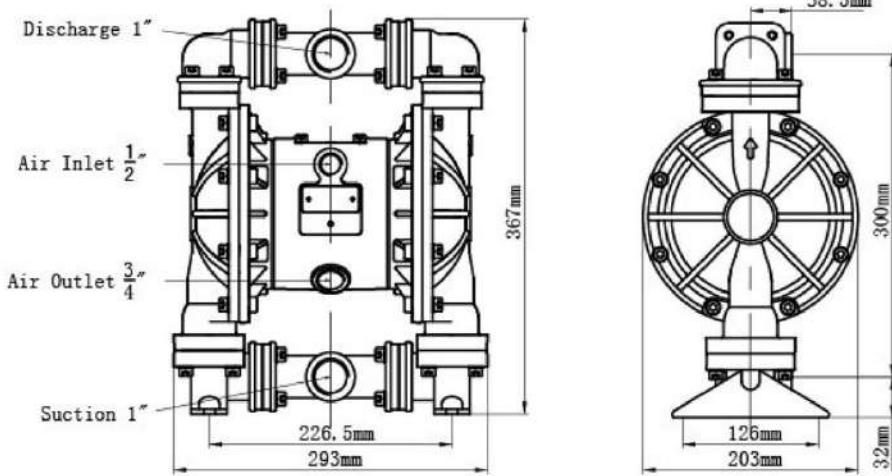
material quality

Pumpbody: Aluminum, Cast iron
 Diaphragm: Santoprene, Hytrel, Teflon, Viton, EPDM, Buna-N
 Valve ball: Santoprene, Hytrel, Teflon, Viton, Stainless steel, Ceramic
 Valve seat: Santoprene, Hytrel, Teflon, Viton, Stainless steel
 Center block: PP, Aluminum, Stainless steel

Weight

Aluminum pump: 11 Kgs
 Cast iron pump: 25 Kgs

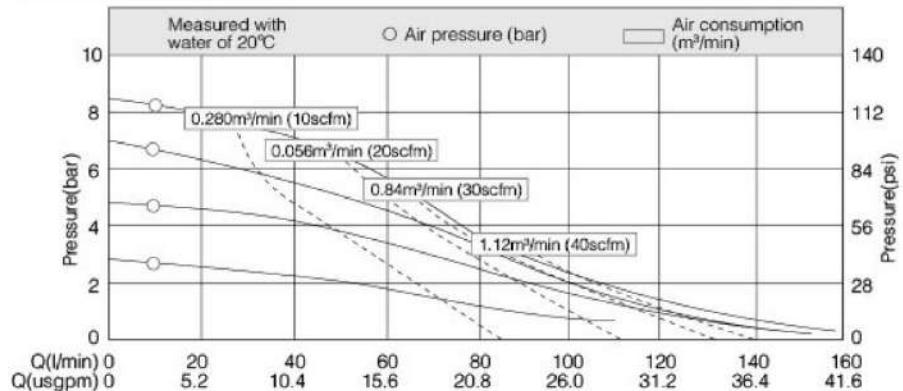
Installation size



MK25 Plastic pump



Performance curve



Technical parameters

Suction lift[mwc]	dry	4
	wet	8
Max particle diameter[mm]		4
Suction and discharge size[in]		1
Air inlet size[in]		1/2
Max flow[l/min]		157
Max head[m]		84
Max air inlet pressure[bar]		8.4

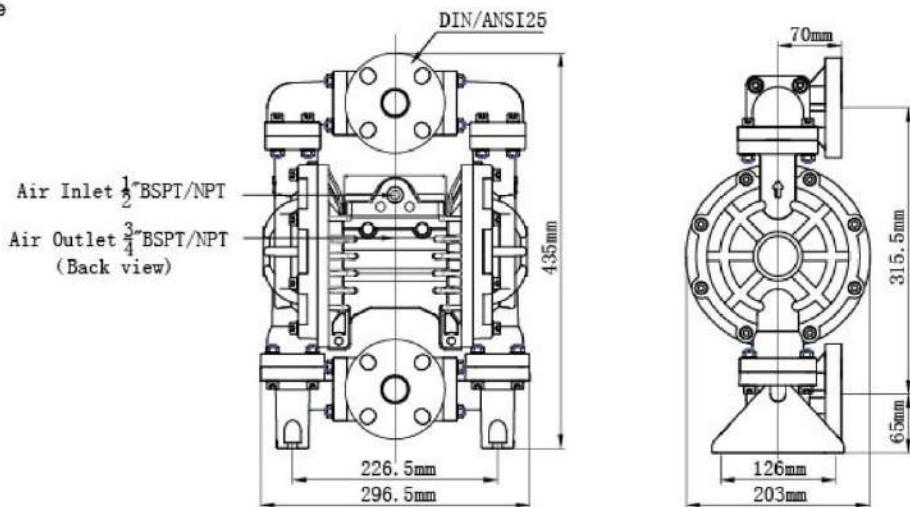
material quality

Pumpbody: PP, PVDF, POM
 Diaphragm: Santoprene, Hytrel, Teflon, Viton, EPDM, Buna-N
 Valve ball: Teflon, Stainless steel, Santoprene, Hytrel, Viton, Ceramic
 Valve seat: Teflon, Santoprene, Hytrel, Viton, PP
 Center block: PP, Aluminum, Stainless steel

Weight

PP pump / POM pump: 9 Kgs
 PVDF pump: 12 Kgs

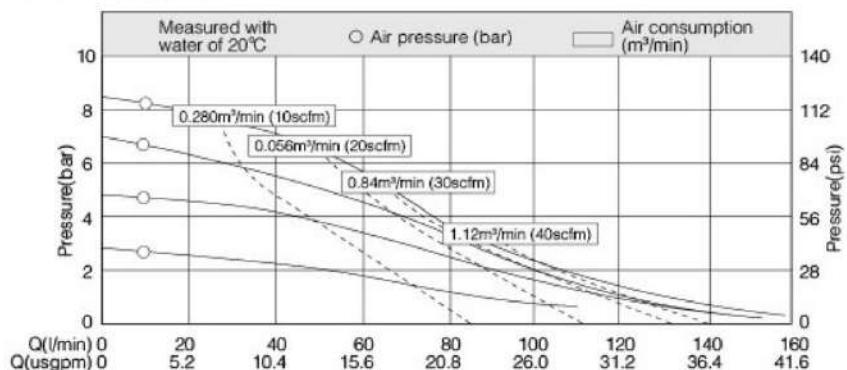
Installation size



MK25 Stainless steel pump



Performance curve



Technical parameters

Suction lift[mwc]	dry	4
	wet	8
Max particle diameter[mm]		4
Suction and discharge size[in]		1
Air inlet size[in]		1/2
Max flow[l/min]		157
Max head[m]		84
Max air inlet pressure[bar]		8.4

material quality

Pumpbody: SS304, SS316, SS316L

Diaphragm: Santoprene, Hytrel, Teflon, Viton, EPDM, Buna-N

Valve ball: Santoprene, Hytrel, Teflon, Viton, Stainless steel, Ceramic

Valve seat: Santoprene, Hytrel, Teflon, Viton, Stainless steel

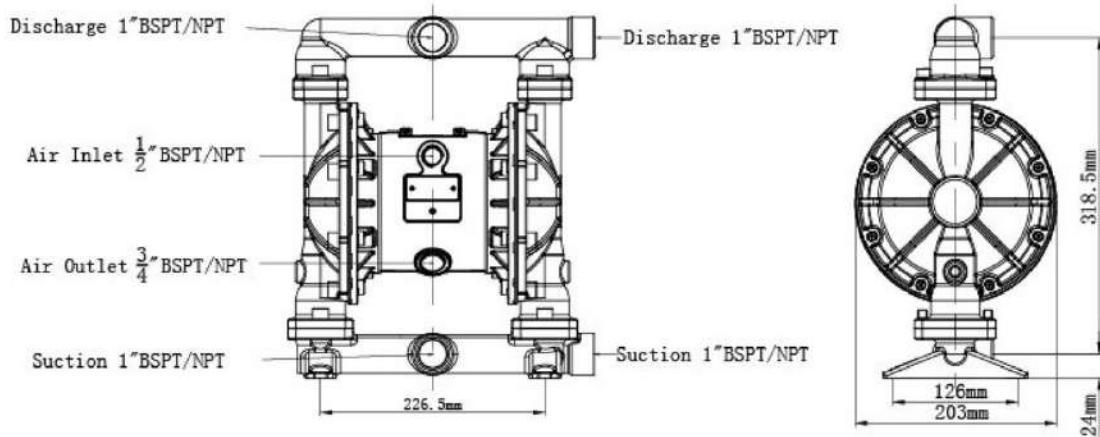
Center block: PP, Aluminum, Stainless steel

Weight

SS304 Pump: 16 Kgs

SS316 pump: 16 Kgs

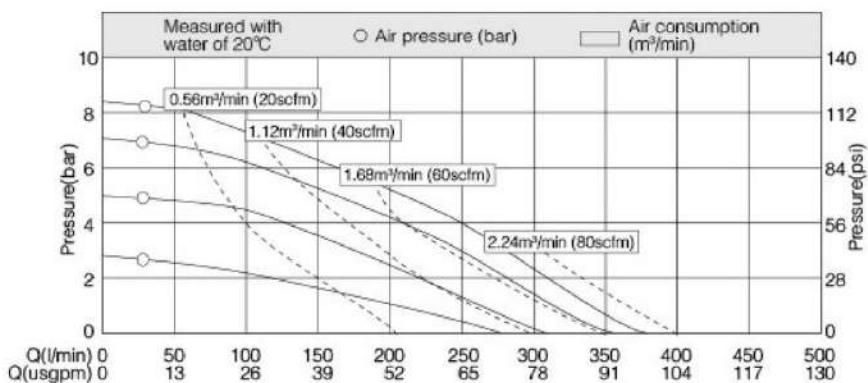
Installation size



MK40 Aluminum /cast iron pump



Performance curve



Technical parameters

Suction lift[mwc]	dry	5
	wet	8
Max particle diameter[mm]		5
Suction and discharge size[in]	1 1/2	
Air inlet size[in]		1/2
Max flow[l/min]		358
Max head[m]		84
Max air inlet pressure[bar]		8.4

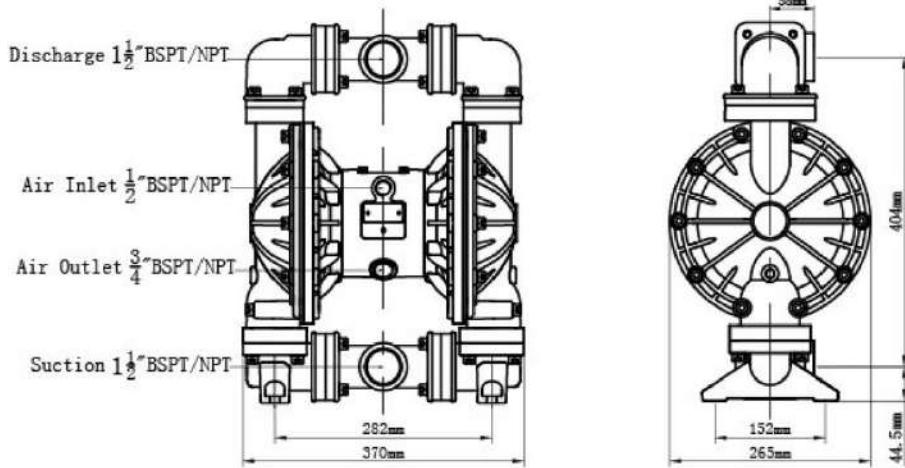
material quality

Pumpbody: Aluminum, Cast iron
Diaphragm: Santoprene, Hytrel, Teflon, Viton, EPDM, Buna-N
Valve ball: Santoprene, Hytrel, Teflon, Viton, Stainless steel, Ceramic
Valve seat: Santoprene, Hytrel, Teflon, Viton, Stainless steel
Center block: PP, Aluminum, Stainless steel

Weight

Aluminum pump: 20 Kgs
Cast iron pump: 50 Kgs

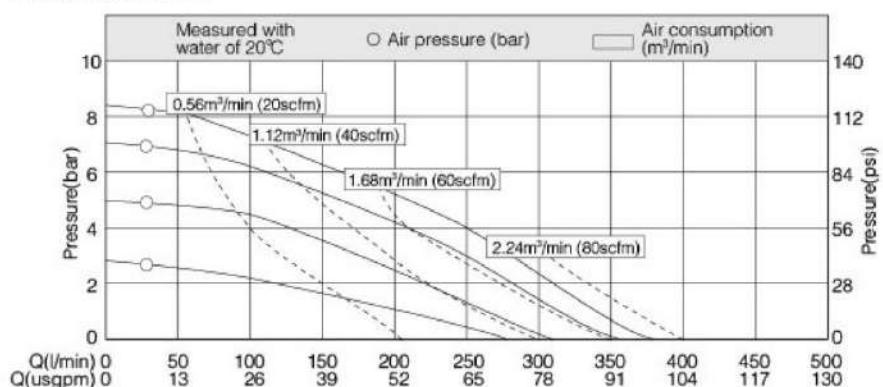
Installation size



MK40 Plastic pump



Performance curve



Technical parameters

Suction lift[mwc]	dry	5
	wet	8
Max particle diameter[mm]		5
Suction and discharge size[in]	1 1/2	
Air inlet size[in]		1/2
Max flow[l/min]		358
Max head[m]		84
Max air inlet pressure[bar]		8.4

material quality

Pumpbody: PP, PVDF

Diaphragm: Santoprene, Hytrel, Teflon, Viton, EPDM, Buna-N

Valve ball: Teflon, Stainless steel, Santoprene, Hytrel, Viton, Ceramic

Valve seat: Teflon, Santoprene, Hytrel, Viton, PP

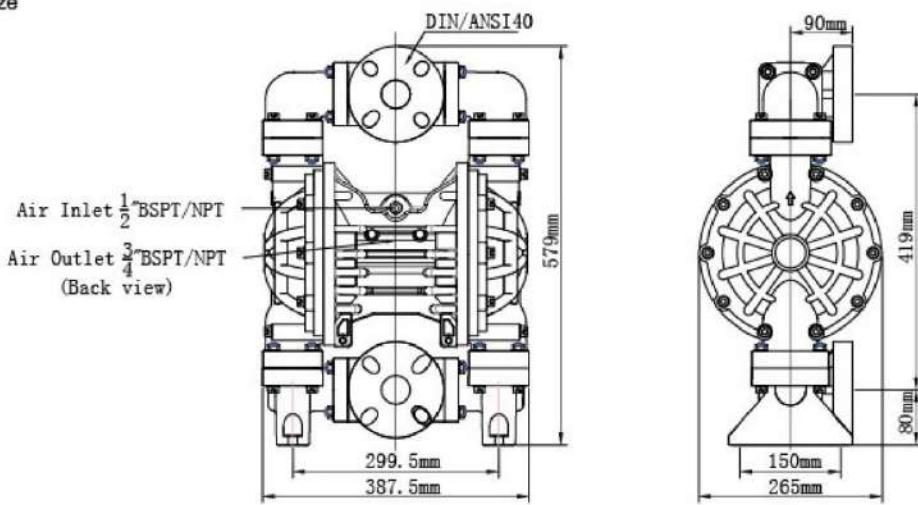
Center block: PP, Aluminum, Stainless steel

Weight

PP pump: 17 Kgs

PVDF pump: 24 Kgs

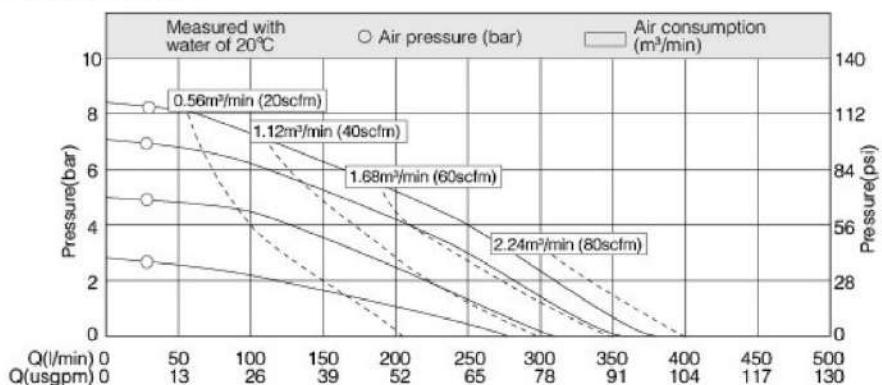
Installation size



MK40 Stainless steel pump



Performance curve



Technical parameters

Suction lift[mwc]	dry	5
	wet	8
Max particle diameter[mm]		5
Suction and discharge size[in]	1 1/2	
Air inlet size[in]		1/2
Max flow[l/min]		358
Max head[m]		84
Max air inlet pressure[bar]		8.4

material quality

Pumpbody: SS304, SS316, SS316L

Diaphragm: Santoprene, Hytrel, Teflon, Viton, EPDM, Buna-N

Valve ball: Santoprene, Hytrel, Teflon, Viton, Stainless steel, Ceramic

Valve seat: Santoprene, Hytrel, Teflon, Viton, Stainless steel

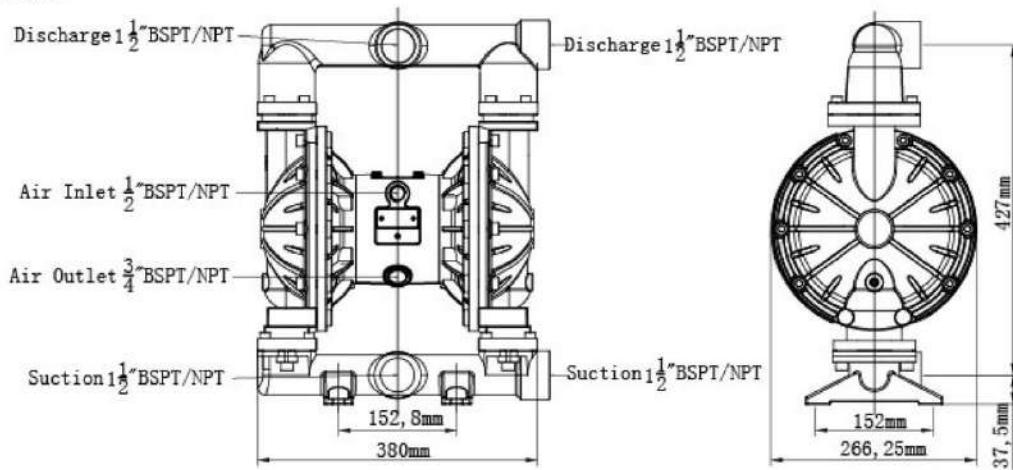
Center block: PP, Aluminum, Stainless steel

Weight

SS304 pump: 31 Kgs

SS316 pump: 31 Kgs

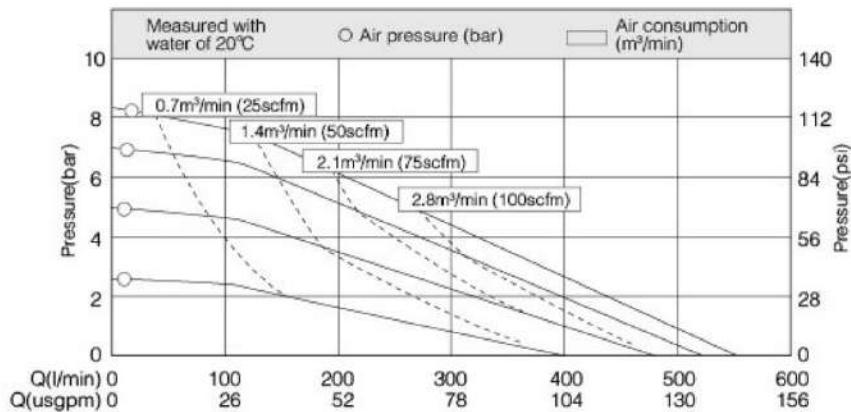
Installation size



MK50 Aluminum /cast iron pump



Performance curve



Technical parameters

Suction lift[mwc]	dry	5
	wet	8
Max particle diameter[mm]		6
Suction and discharge size[in]		2
Air inlet size[in]		1/2
Max flow[l/min]		587
Max head[m]		84
Max air inlet pressure[bar]		8.4

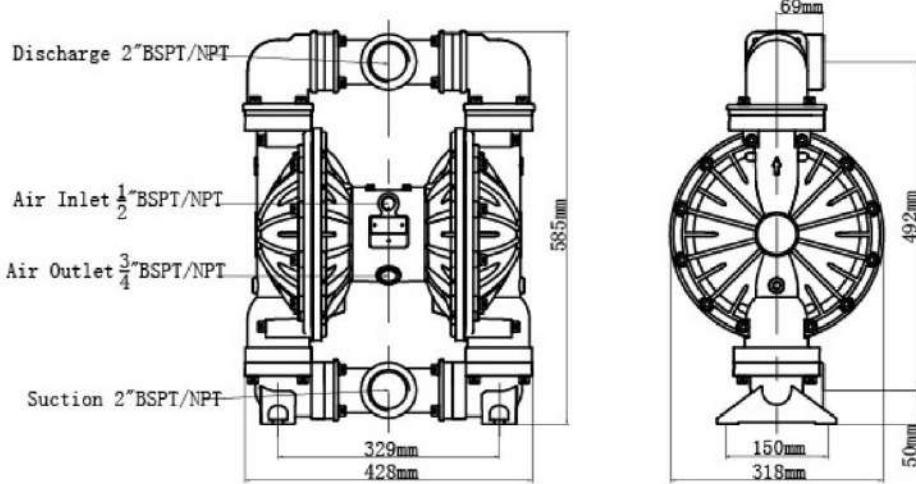
material quality

Pumpbody: Aluminum, Cast iron
Diaphragm: Santoprene, Hytrel, Teflon, Viton, EPDM, Buna-N
Valve ball: Santoprene, Hytrel, Teflon, Viton, Stainless steel, Ceramic
Valve seat: Santoprene, Hytrel, Teflon, Viton, Stainless steel
Center block: PP, Aluminum, Stainless steel

Weight

Aluminum pump: 27 Kgs
Cast iron pump: 78 Kgs

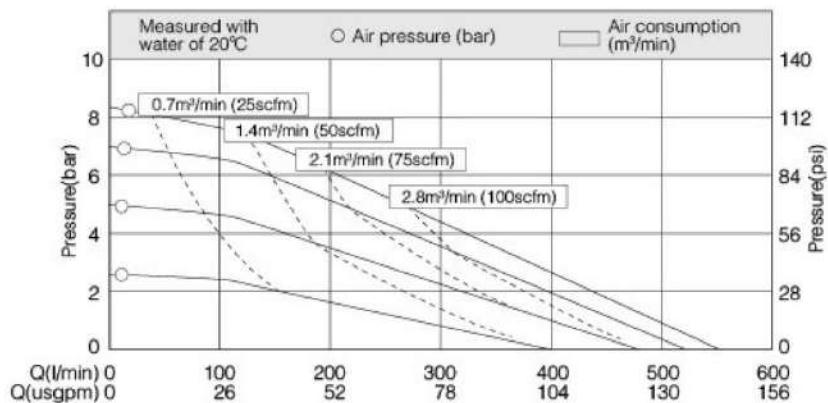
Installation size



MK50 Plastic pump



Performance curve



Technical parameters

Suction lift[mwc]	dry	5
	wet	8
Max particle diameter[mm]		6
Suction and discharge size[in]		2
Air inlet size[in]		1/2
Max flow[l/min]		587
Max head[m]		84
Max air inlet pressure[bar]		8.4

material quality

Pumpbody: PP, PVDF

Diaphragm: Santoprene, Hytrel, Teflon, Viton, EPDM, Buna-N

Valve ball: Teflon, Stainless steel, Santoprene, Hytrel, Viton, Ceramic

Valve seat: Teflon, Santoprene, Hytrel, Viton, PP

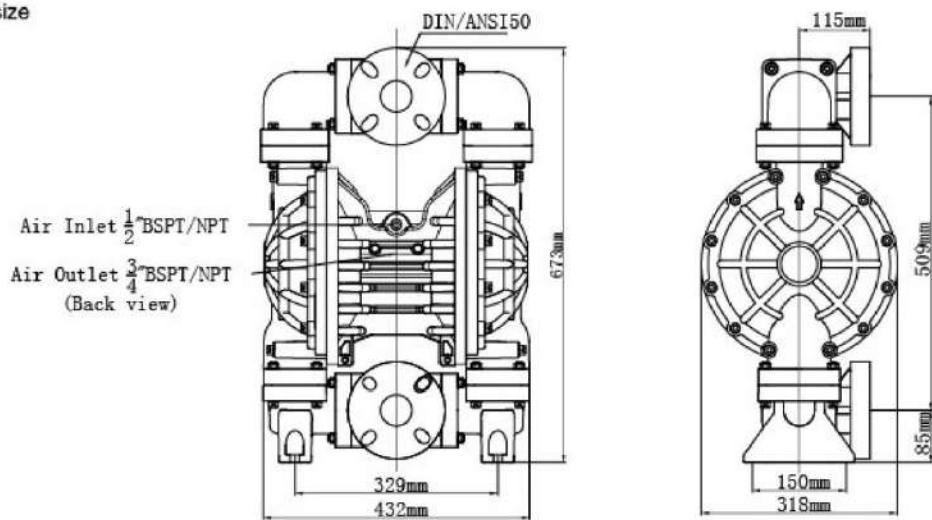
Center block: PP, Aluminum, Stainless steel

Weight

PP pump: 25 Kgs

PVDF pump: 34 Kgs

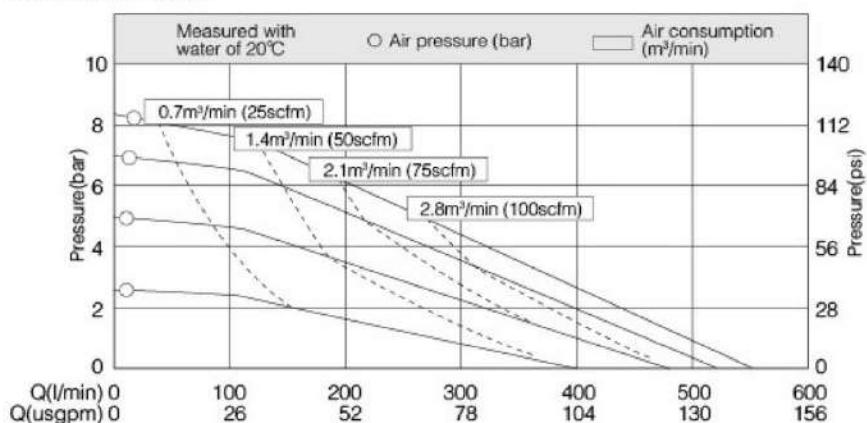
Installation size



MK50 Stainless steel pump



Performance curve



Technical parameters

Suction lift[mwc]	dry	5
	wet	8
Max particle diameter[mm]		6
Suction and discharge size[in]		2
Air inlet size[in]		1/2
Max flow[l/min]		587
Max head[m]		84
Max air inlet pressure[bar]		8.4

material quality

Pumpbody: SS304, SS316, SS316L

Diaphragm: Santoprene, Hytrel, Teflon, Viton, EPDM, Buna-N

Valve ball: Santoprene, Hytrel, Teflon, Viton, Stainless steel, Ceramic

Valve seat: Santoprene, Hytrel, Teflon, Viton, Stainless steel

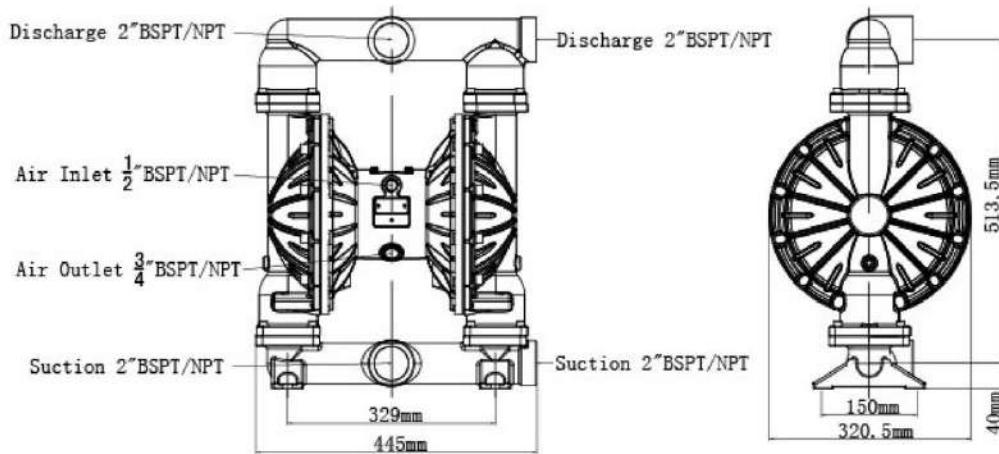
Center block: PP, Aluminum, Stainless steel

Weight

SS304 Pump: 48 Kgs

SS316 pump: 48 Kgs

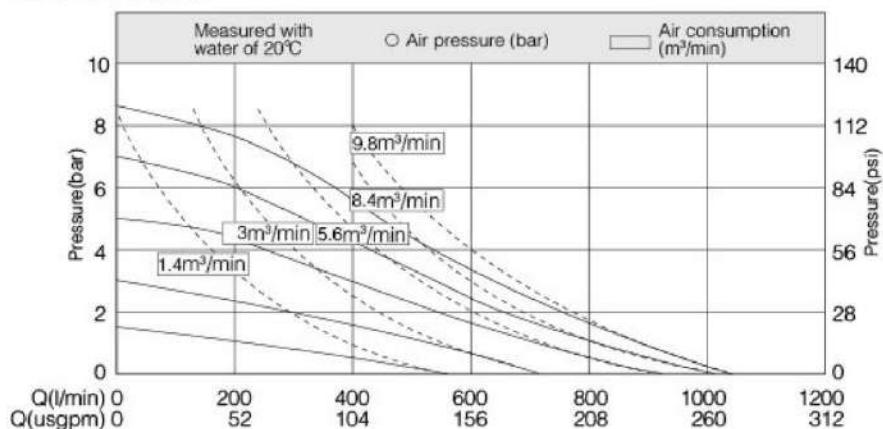
Installation size



MK80 Aluminum pump



Performance curve



Technical parameters

Suction lift[mwc]	dry	5
	wet	8
Max particle diameter[mm]		9.4
Suction and discharge size[in]		3
Air inlet size[in]		3/4
Max flow[l/min]		1060
Max head[m]		84
Max air inlet pressure[bar]		8.4

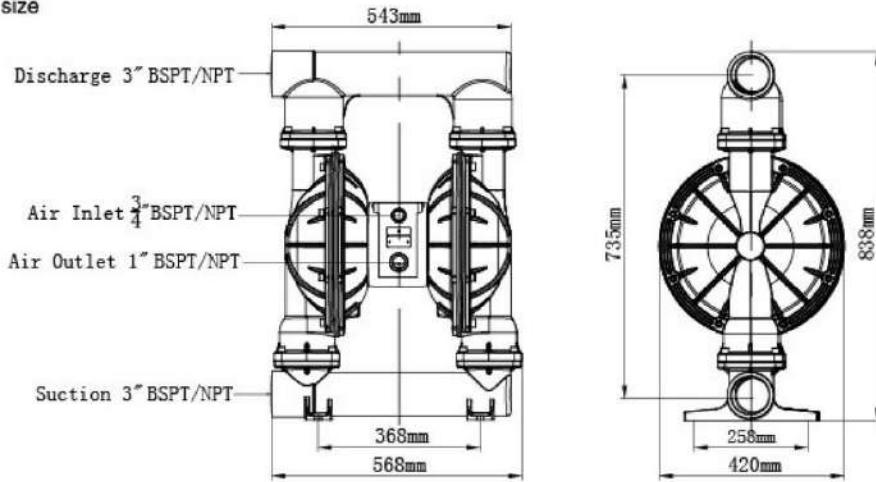
material quality

Pumpbody:	Aluminum
Diaphragm:	Santoprene, Hytrel, Teflon, Viton, EPDM, Buna-N
Valve ball:	Santoprene, Hytrel, Teflon, Viton, Stainless steel, Ceramic
Valve seat:	Santoprene, Hytrel, Teflon, Viton, Stainless steel
Center block:	PP, Aluminum, Stainless steel

Weight

Aluminum pump: 50 Kgs

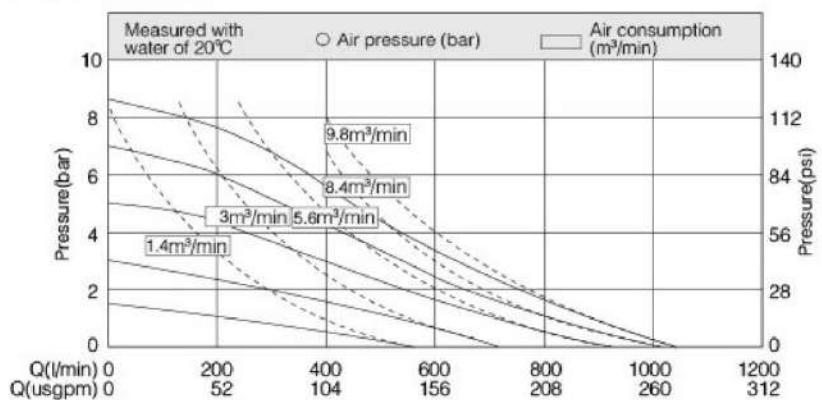
Installation size



MK80 Plastic pump



Performance curve



Technical parameters

Suction lift[mwc]	dry	5
	wet	8
Max particle diameter[mm]		9.4
Suction and discharge size[in]		3
Air inlet size[in]		3/4
Max flow[l/min]		1060
Max head[m]		84
Max air inlet pressure[bar]		8.4

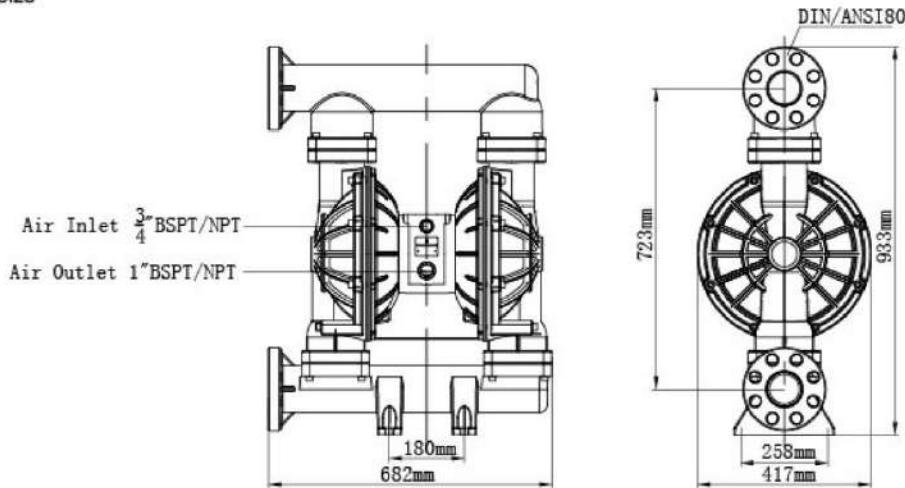
material quality

Pumpbody: PP, PVDF
Diaphragm: Santoprene, Hytrell, Teflon, Viton, EPDM, Buna-N
Valve ball: Teflon, Stainless steel, Santoprene, Hytrell, Viton, Ceramic
Valve seat: Teflon, Santoprene, Hytrell, Viton, PP
Center block: PP, Aluminum, Stainless steel

Weight

PP pump: 50 Kgs
PVDF pump: 90 Kgs

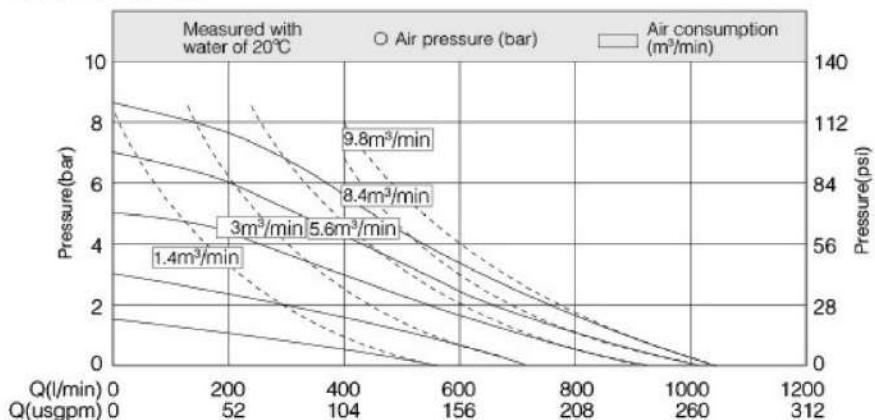
Installation size



MK80 Stainless steel pump



Performance curve



Technical parameters

Suction lift[mwc]	dry	5
	wet	8
Max particle diameter[mm]		9.4
Suction and discharge size[in]		3
Air inlet size[in]		3/4
Max flow[l/min]		1060
Max head[m]		84
Max air inlet pressure[bar]		8.4

material quality

Pumpbody: SS304, SS316, SS316L
Diaphragm: Santoprene, Hytrel, Teflon, Viton, EPDM, Buna-N
Valve ball: Santoprene, Hytrel, Teflon, Viton, Stainless steel, Ceramic
Valve seat: Santoprene, Hytrel, Teflon, Viton, Stainless steel
Center block: PP, Aluminum, Stainless steel

Weight

SS304 Pump: 120 Kgs
SS316 pump: 120 Kgs

Installation size

