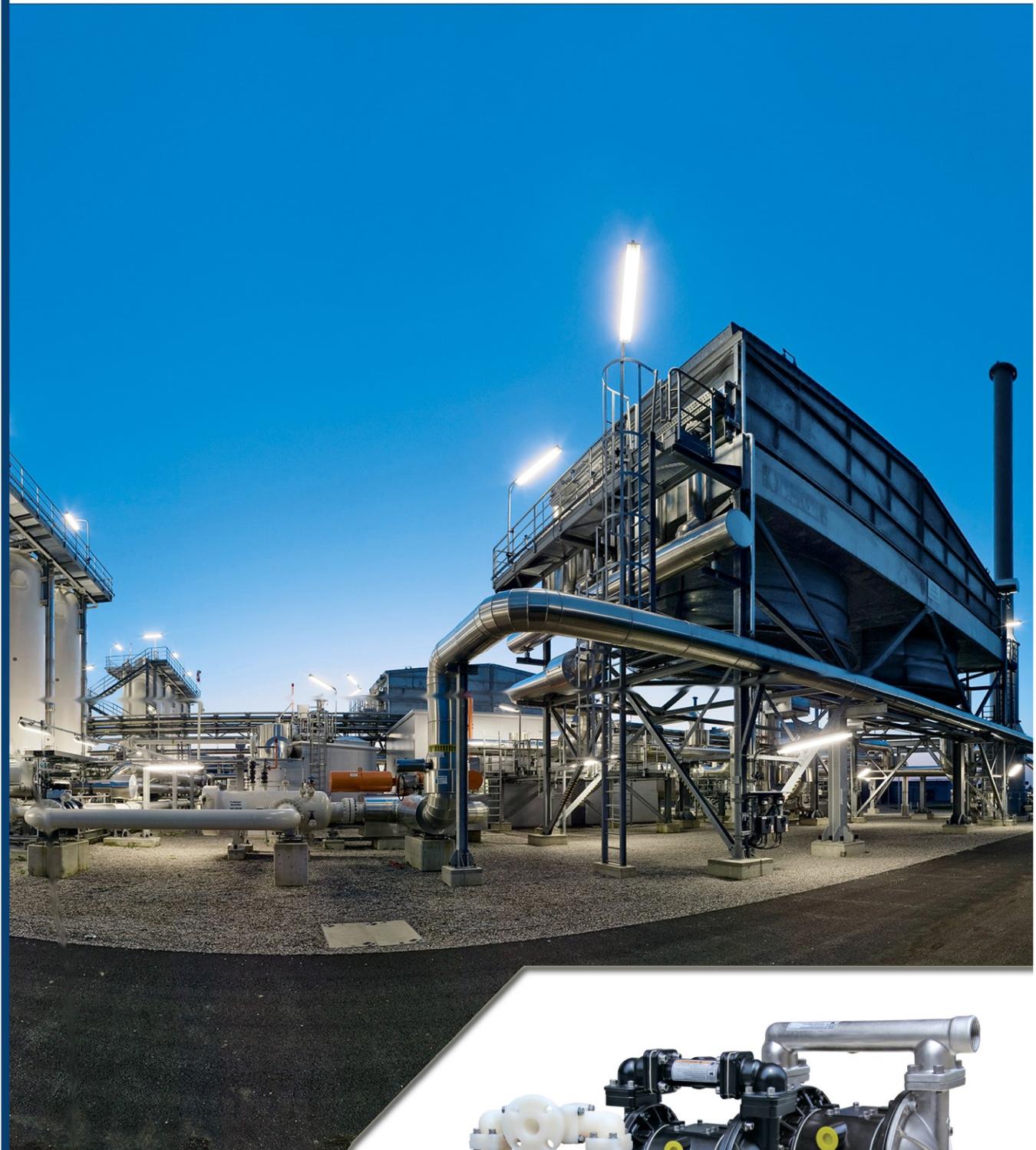


ALLFLO DIAPHRAGM PUMP



AF SERIES



COMPANY INTRODUCTION

"ALLFLO" is the professional and well know 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.

AF 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. ALLFLO 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.

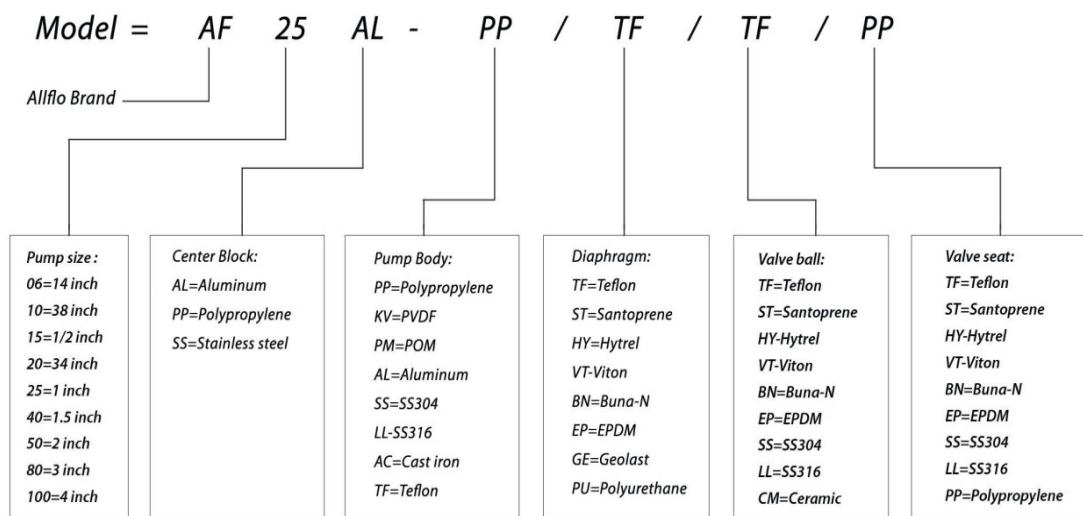
7. Environmental protection, wastewater treatment industry : Filter pressure, pumping A variety of sewage, mud, slurry

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

Pump model and material code



General Characteristic

- Without electricity, explosion-proof, can convey flammable fluid
- No dynamic seals, even dry running without damage age to the pump
- No impeller, low share, 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

Allflo's pump Characteristic

Mainfold :

Centerport design, low pulse.Three section manifold, flexible installation.

Fourbolts connection :

Good sealand excellent dry suction.
No leakage.

Fluid chamber :

Enhanced the chamber strength,
has long –term durability.

Air motor:

Can supply aluminum, stainless steel
and plastic air motor.

Hardware :

Stainless steel hardware, can avoid
rustand corrosion, easy maintenance.

Valve ball :

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

Air valve:

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

Diaphragm rod:

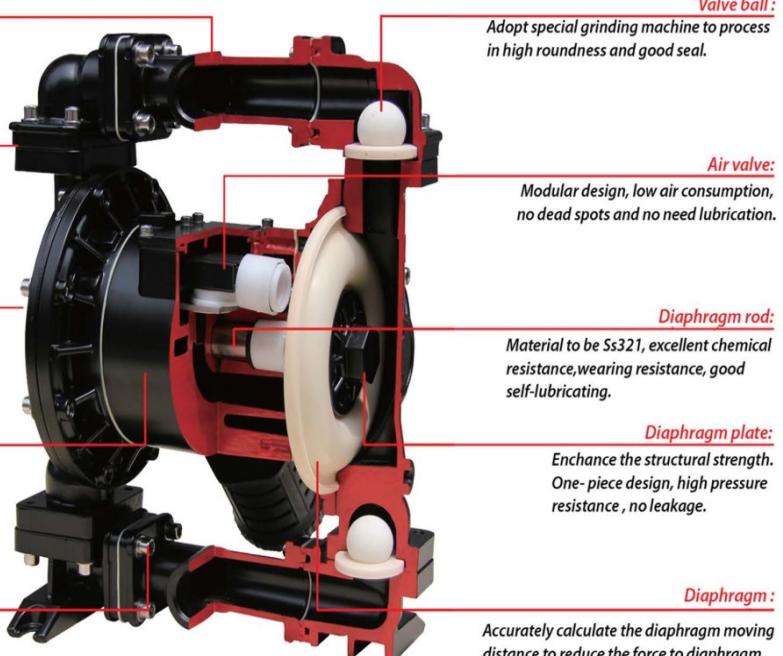
Material to be Ss321, excellent chemical
resistance,wearing resistance, good
self-lubricating.

Diaphragm plate:

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

Diaphragm :

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



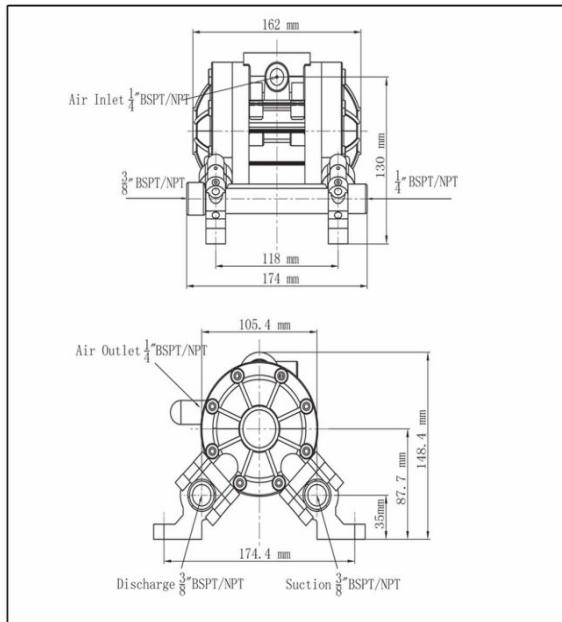
Operating temperature limitation

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.	176 °C	-40 °C
PTFE(Teflon) : excellent corrosion resistance, almost resistance 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.	176 °C	5 °C
Santoprene : good abrasion resistance, suitable for general acid and alkali, not suitable solvent. Can replace the EPDM /EPR material.	104 °C	29 °C
Hytrel : good abrasion resistance, used in most of the neutral fluid. Can replace Buna-N material	104 °C	29 °C
EPDM : abrasion resistance, aging resistance, ozone resistance, suitable for general acid and alkali.	121 °C	40 °C
Buna-N : widely used in gasoline and other oil products. Suitable for use at room temperature.	100 °C	40 °C
GE : better abrasion resistance than Hytrel, the same chemical resistance as Buna-N	104 °C	29 °C

Pump body material		
PP : Medium abrasion resistance, good chemical resistance, good versatility, especially for common acid-base	65 °C	5 °C
POM : good solvent resistance, abrasion resistance, Low friction, low moisture absorption	65 °C	5 °C
PVDF : strong chemical resistance. Crush resistance, abrasion resistance, good corrosion resistance for acid, alkali variety of organic solvents.	93 °C	5 °C

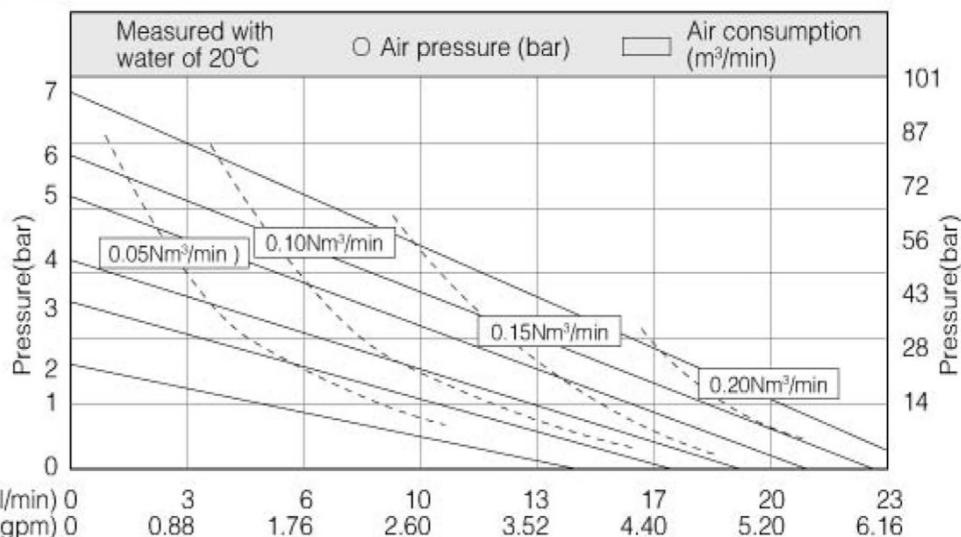
Note : The maximum and minimum temperature is the limited operating temperature of these materials. Temperature and pressure will affect the diaphragm life. Operating under the maximum or minimum temperature, cannot achieve maximum life.

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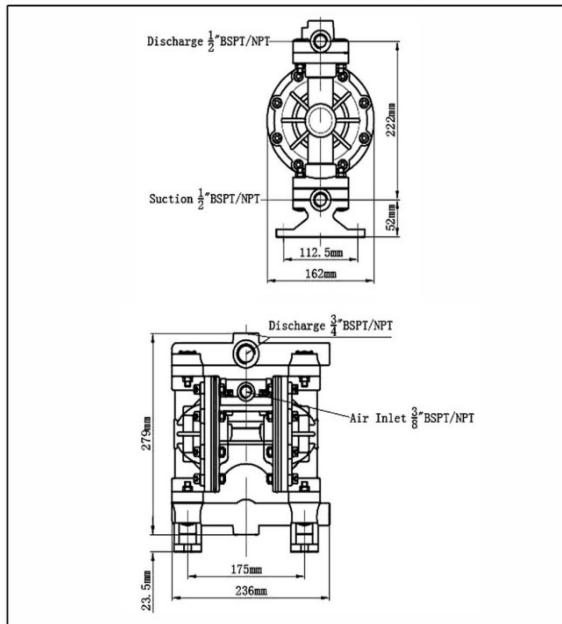


Technical parameters		Material quality	
Suction lift[mwc]	dry 2.5 wet 4.4	Pumpbody : PP, PVDF, POM	
Max particle diameter[mm]	1.5	Diaphragm : Santoprene, Hytrel, Teflon, Viton, EPDM, Buna-N	
Suction and discharge size[in]	1/4	Check valve: PP, PVDF, POM	
Air inlet size[in]	1/4	Center block: PP	
Max flow[l/min]	18	Weight	
Max head[m]	70	PP Pump / POM pump: 1.5 Kgs	
Max air inlet pressure[bar]	7	PVDF pump: 2 Kgs	

Performance curve

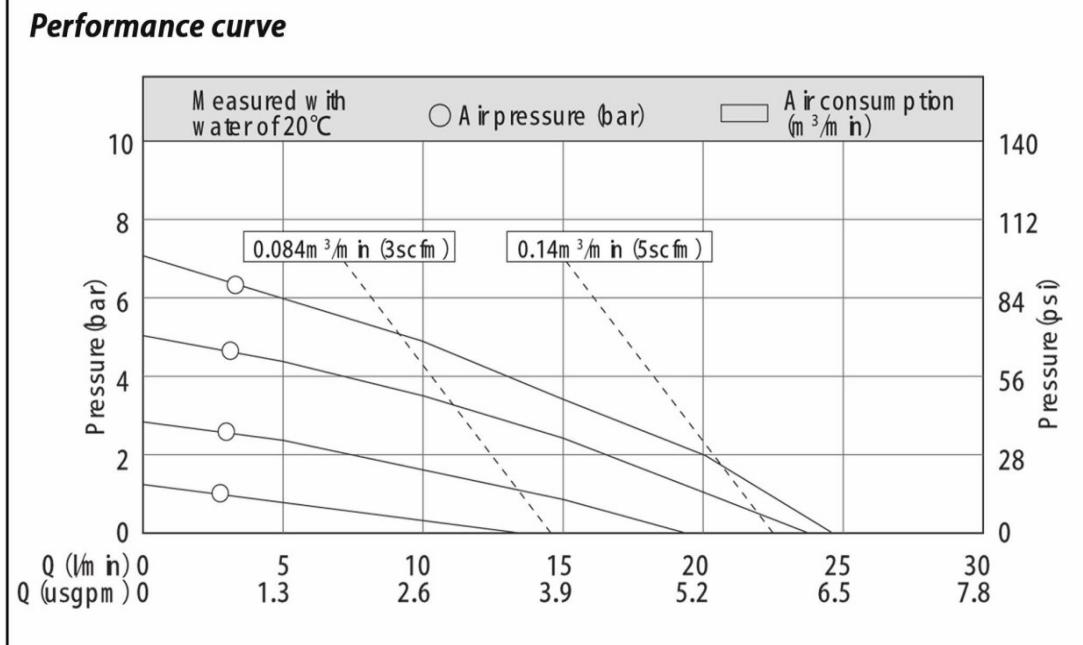


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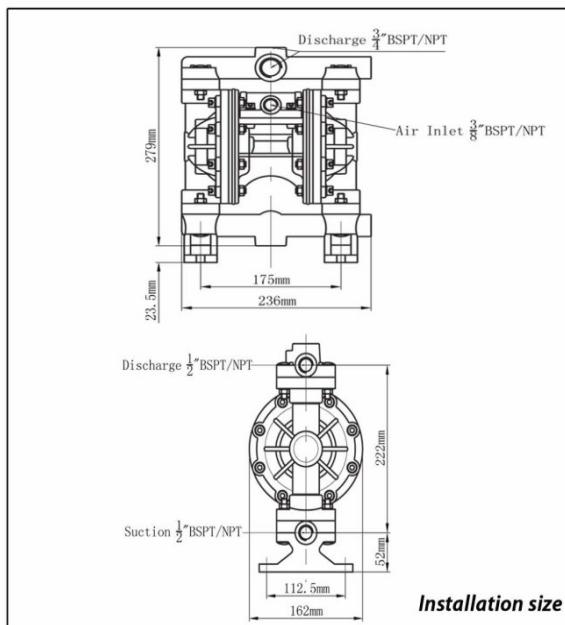


Technical parameters		Material quality	
Suction lift[mwc]	dry wet	2.1 3.7~6.4	Pumpbody : PP, PVDF, POM
Max particle diameter[mm]	1.6		Diaphragm : Santoprene, Hytrel, Teflon, Viton, EPDM, Buna-N
Suction and discharge size[in]	3/8		Check valve: PP, PVDF, POM
Air inlet size[in]	1/4		Center block: PP
Max flow[l/min]	27		Weight
Max head[m]	70		PP Pump / POM pump: 1.5 Kgs
Max air inlet pressure[bar]	7		PVDF pump: 2 Kgs

Performance curve



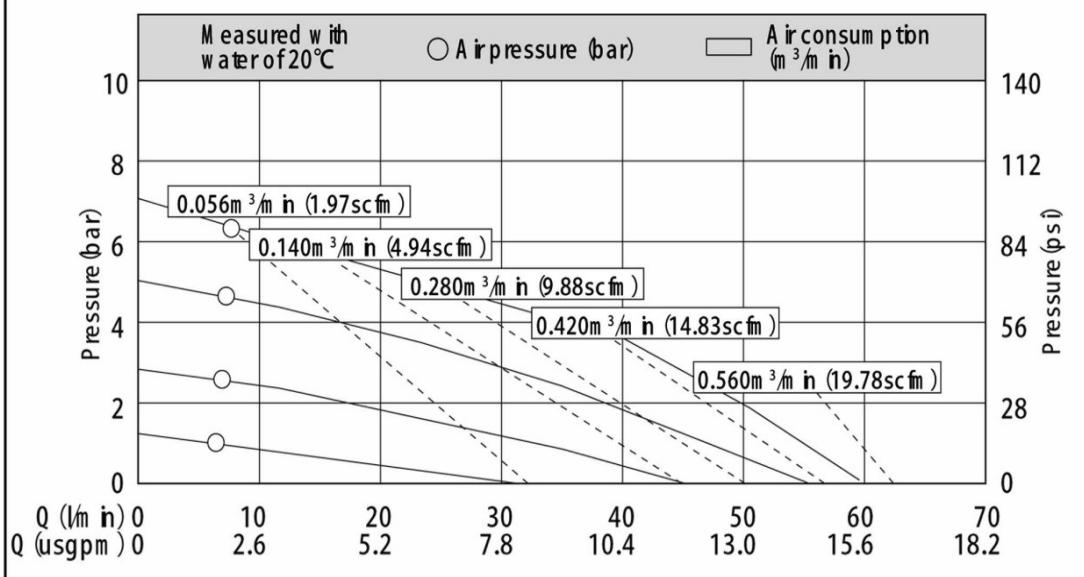
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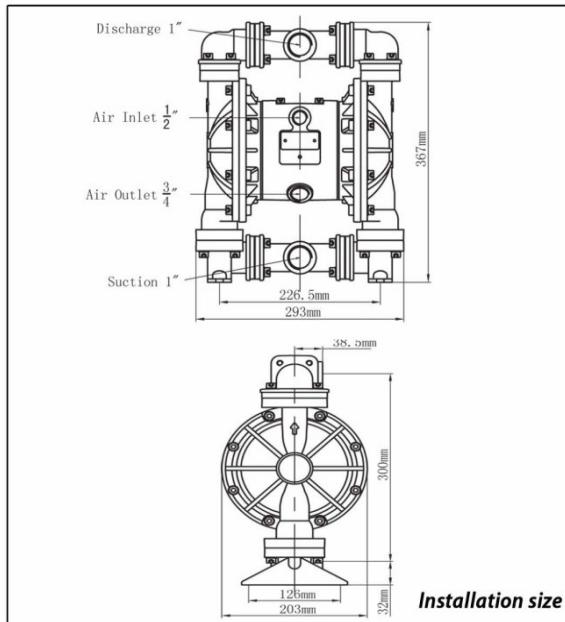
Technical parameters	
Suction lift[mwc]	dry 4 wet 7.6
Max particle diameter[mm]	2.5
Suction and discharge size[in]	1/2 3/4
Air inlet size[in]	3/8
Max flow[l/min]	57
Max head[m]	84
Max air inlet pressure[bar]	8.4

Material quality	
Pumpbody:	Aluminum, PP, PVDF, POM, SS304, SS316, SS316L
Diaphragm:	Santoprene, Hytrel, Teflon, Viton, EPDM, Buna-N
Valve ball:	Teflon, Stainless steel, Santoprene
Valve seat:	PP, PVDF, POM, SS304, SS316
Center block:	PP
Weight	PP Pump / POM pump / PVDF pump: 3.5Kgs, 4.5 Kgs Aluminum pump: 4.5 Kgs SS304 Pump , SS316 pump : 7.5 Kgs

Performance curve



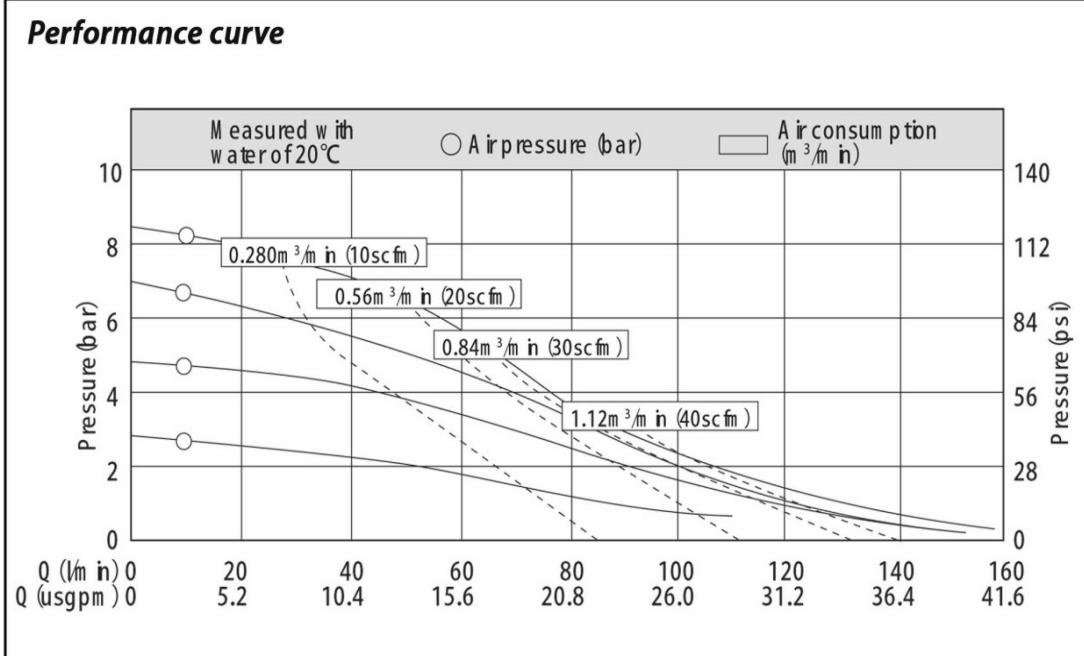
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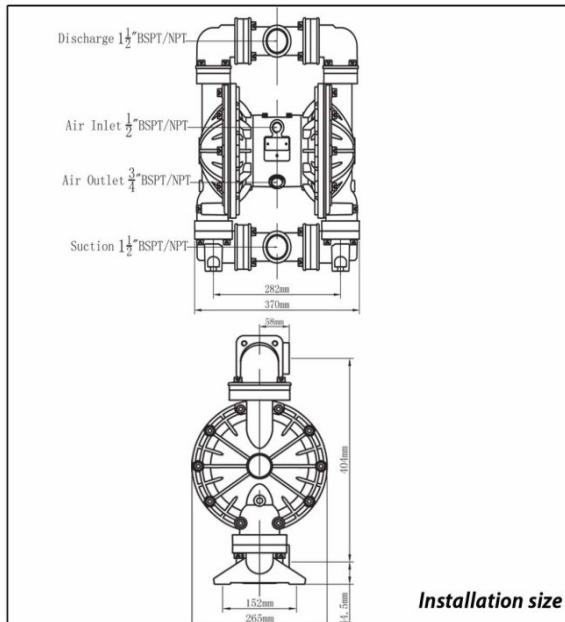
Technical parameters	
Suction lift[mwc]	dry 4 wet 8
Max particle diameter[mm]	4
Suction and discharge size[in]	1
Air inlet size[in]	1/2
Max flow[l/min]	157
Max head[m]	84
Max air inlet pressure[bar]	8.4

Material quality	
Pumpbody:	Aluminum, Cast Iron, PP, PVDF, POM, SS304, SS316, SS316L
Diaphragm:	Santoprene, Hytrel, Teflon, Viton, EPDM, Buna-N
Valve ball:	Teflon, Stainless steel, Santoprene
Valve seat:	PP, PVDF, POM, SS304, SS316
Center block:	PP
Weight	
PP Pump / POM pump / PVDF pump:	9 Kgs, 12 Kgs
Aluminum pump, Cast Iron Pump:	11 Kgs, 25 Kgs.
SS304 Pump, SS316 pump :	16 Kgs

Performance curve

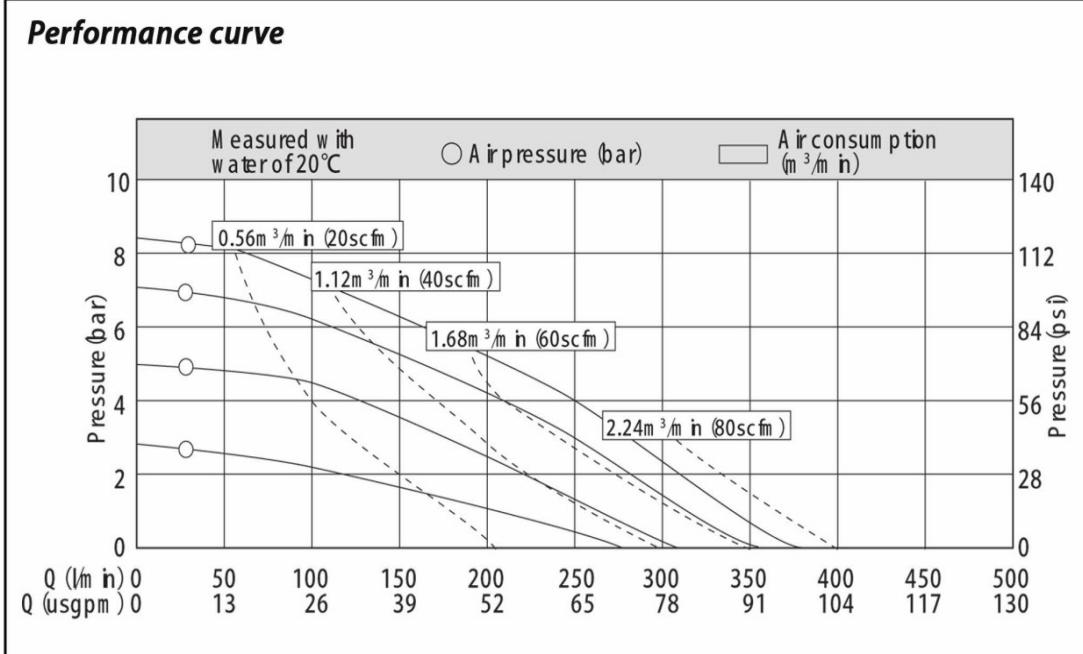


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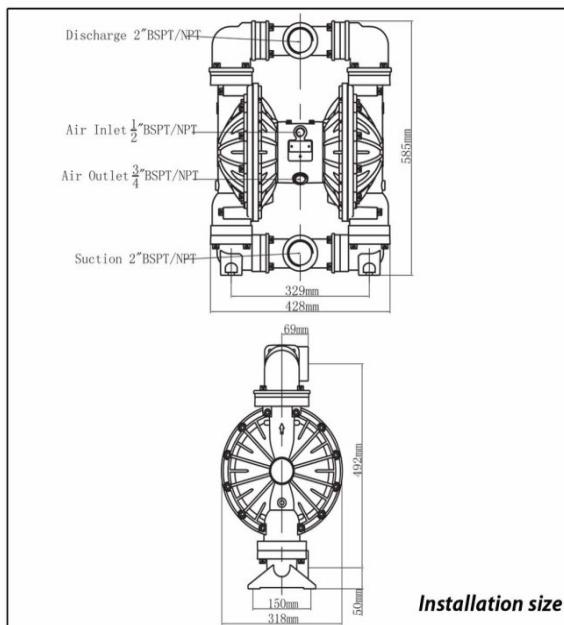


Technical parameters		Material quality	
Suction lift[mwc]	dry 5 wet 8	Pumpbody: Aluminum, Cast Iron, PP, PVDF, SS304, SS316, SS316L	
Max particle diameter[mm]	5	Diaphragm: Santoprene, Hytrel, Teflon, Viton, EPDM, Buna-N	
Suction and discharge size[in]	1 1/2	Valve ball: Santoprene, Hytrel, Teflon, Viton, Stainless steel, Ceramic	
Air inlet size[in]	1/2	Valve seat: Santoprene, Hytrel, Teflon, Viton, Stainless steel	
Max flow[l/min]	358	Center block: PP, Aluminum, Stainless steel	
Max head[m]	84	Weight	
Max air inlet pressure[bar]	8.4	PP Pump / PVDF pump: 17 Kgs, 24 Kgs	
		Aluminum pump, Cast Iron Pump: 20 Kgs, 50 Kgs.	
		SS304 Pump, SS316 pump : 31 Kgs	

Performance curve

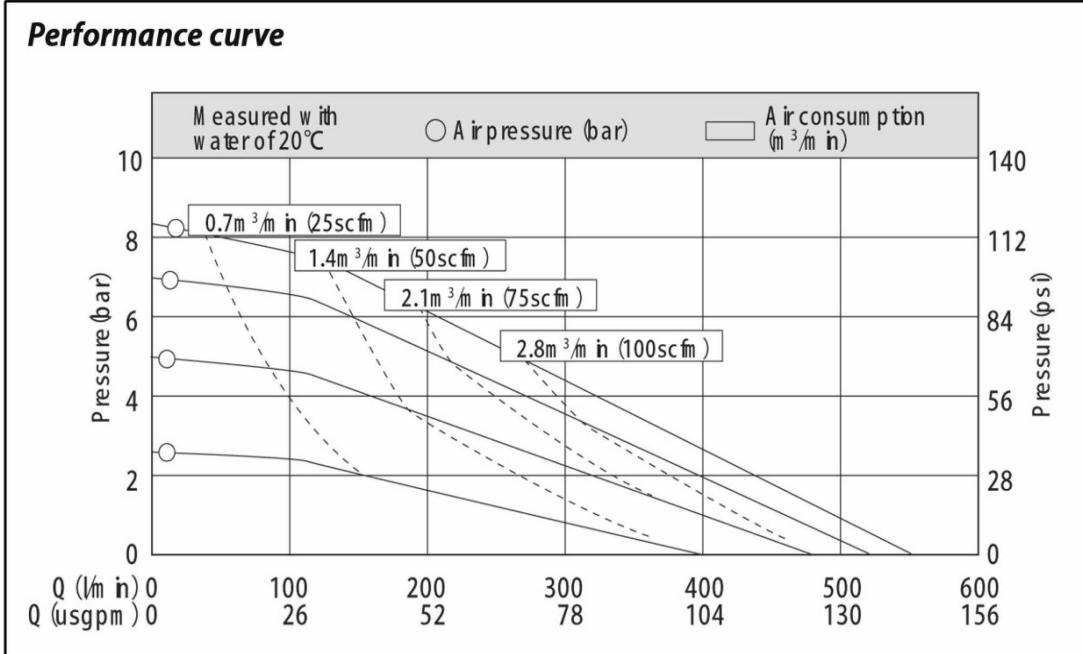


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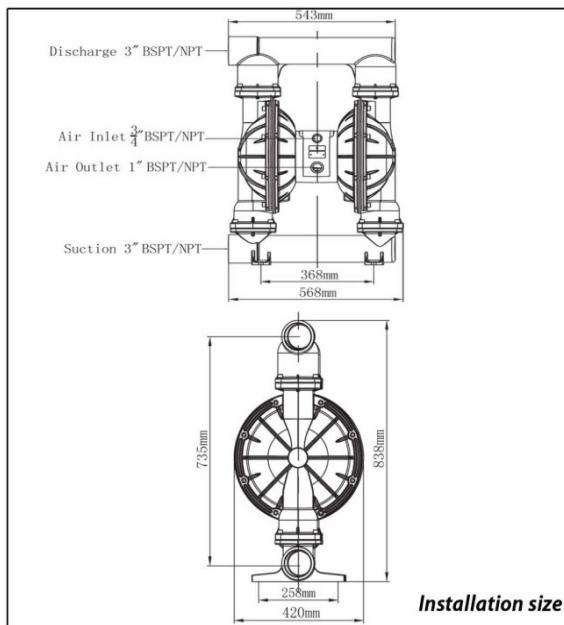


Technical parameters		Material quality	
Suction lift[mwc]	dry 5 wet 8	Pumpbody: Aluminum, Cast Iron, PP, PVDF, SS304, SS316, SS316L	
Max particle diameter[mm]	6	Diaphragm: Santoprene, Hytrel, Teflon, Viton, EPDM, Buna-N	
Suction and discharge size[in]	2	Valve ball: Santoprene, Hytrel, Teflon, Viton, Stainless steel, Ceramic	
Air inlet size[in]	1/2	Valve seat: Santoprene, Hytrel, Teflon, Viton, Stainless steel	
Max flow[l/min]	587	Center block: PP, Aluminum, Stainless steel	
Max head[m]	84		
Max air inlet pressure[bar]	8.4	Weight	
		PP Pump / PVDF pump: 25 Kgs, 34 Kgs	
		Aluminum pump, Cast Iron Pump: 27 Kgs, 78 Kgs.	
		SS304 Pump, SS316 pump : 48 Kgs	

Performance curve

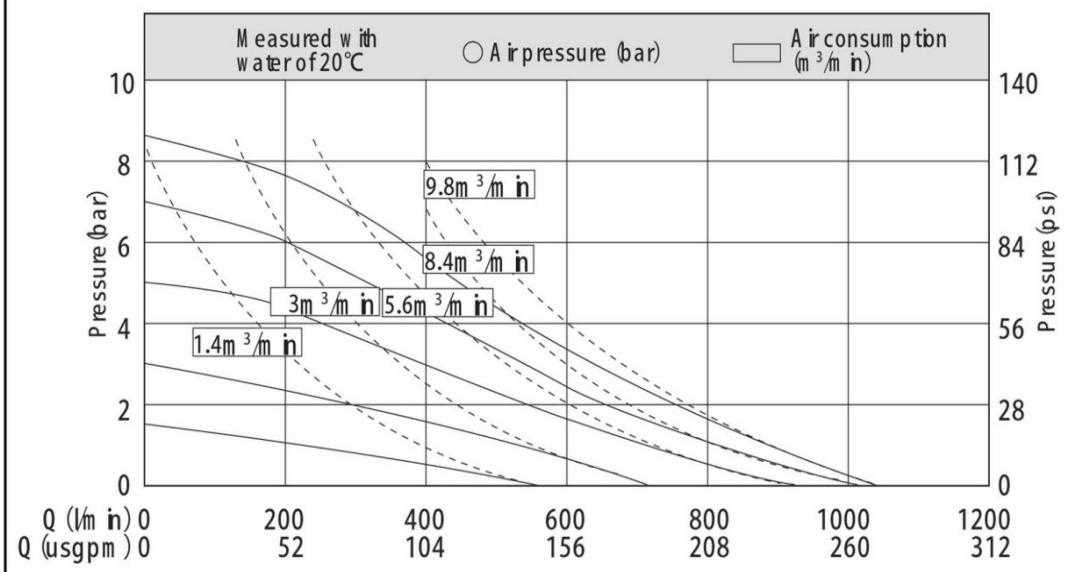


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Technical parameters		Material quality	
Suction lift[mwc]	dry 5 wet 8	Pumpbody: Aluminum, PP, PVDF, SS304, SS316, SS316L	
Max particle diameter[mm]	9.4	Diaphragm: Santoprene, Hytrel, Teflon, Viton, EPDM, Buna-N	
Suction and discharge size[in]	3	Valve ball: Santoprene, Hytrel, Teflon, Viton, Stainless steel, Ceramic	
Air inlet size[in]	3/4	Valve seat: Santoprene, Hytrel, Teflon, Viton, Stainless steel	
Max flow[l/min]	1060	Center block: PP, Aluminum, Stainless steel	
Max head[m]	84	Weight	
Max air inlet pressure[bar]	8.4	PP Pump / PVDF pump: 50 Kgs, 90 Kgs	
		Aluminum pump : 58 Kgs,	
		SS304 Pump, SS316 pump : 120 Kgs	

Performance curve





Flange

Diaphragm plate

Pulsation damper

Valve plate



Diaphragm rod

Pulsation damper

Flow controller



Seat O-ring

Air Chamber gasket

Valve seat



valve ball

Diaphragm

Air reducing valve

Muffler