

Air Operated Diaphragm
DIAPHRAGM PUMPS
DP SERIES



NUODEAN PUMP CO.,LTD



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Company Profile:



Qingdao Nuodean Pump Co.,Ltd, located in Qingdao City of China, is a professional company engaged in diaphragm pumps development, production, sales and service. Our company has independent intellectual property rights and trademarks.

NUODEAN's DP11 Series products are patented products independently developed by our company, which offer great performance : non-stall, less-pulsation, maintenance-free, durable and with large flow. DP11 Series pumps' patented pilot air valve provide a positive, reliable, faster shift signal, and then provides faster pump trip-over with more flow and less pulsation. At the same time, all Nuodean's DP11 Series pumps have applied a dual ceramic air valves system which are wear-resistant, self-lubricating, maintenance-free, long lifetime, and applicable to the harsh environment of air source. So, our DP11 Series offer higher performance.

NUODEAN'S Air Operated Double Diaphragm include: DP11 Series and WA Series!

NUODEAN air operated diaphragm pumps are ideal for general industrial and OEM installation applications. They can easily pump from clean, light viscosity fluids to corrosive, abrasive medium viscosity fluids and can transfer large particles without damage. Due to their pneumatic motor, they could be used in potentially explosive areas.



Some Patents & Trade Marks



Company Photos:





Product Range:

Plastic Pump

- DP11-25BPXXXXXX
- DP11-40BPXXXXXX
- DP11-50BPXXXXXX
- DP11-80BPXXXXXX



Aluminum Alloy Pump

- DP11-25BAXXXAXX
- DP11-40BAXXXAXX
- DP11-50BAXXXAXX
- DP11-80BAXXXAXX



Stainless Steel Pump

- DP11-25BSXXXXXX
- DP11-40BSXXXXXX
- DP11-50BSXXXXXX
- DP11-80BSXXXXXX



Cast Iron Pump

- DP11-25BIXXXXXX
- DP11-40BIXXXXXX
- DP11-50BIXXXXXX
- DP11-80BIXXXXXX



POWDER DIAPHRAGM PUMP



TRIPLE DIAPHRAGM PUMP



HEAVY DUTY DIAPHRAGM PUMP (FLAPPER PUMP)





Application:

Machinery	Oil Cutting fluid Quenching Oil Electroplate liquid Liquid waste	Electron	Acid Alkali Waste water
Coal Mine	Waste water Water seepage Slush	Food & medicine	Liquid material Additive Condiment
Chemical	Acid Caustic Solvent Paint Shear sensitive material	Automobile	Oil Solvent Paint Aquaseal Waste water





OUR PRODUCT ADVANTAGES AND CHARACTERISTICS:

WHY SELECT AIR OPERATED DOUBLE DIAPHRAGM PUMPS?

- Sealless Design
- Low Material Shear
- Ease of Maintenance
- Can Run Dry without Damage
- Portable
- Self Priming
- Easy-to-install

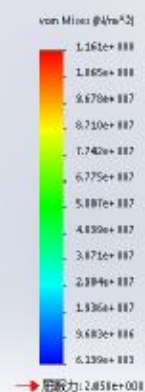
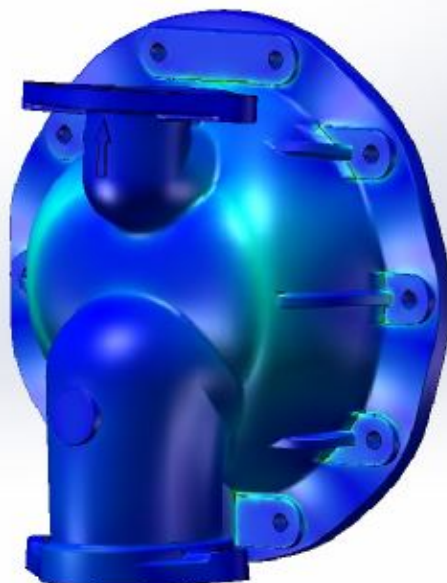
Why choose us?



IN ADDITION, WHAT ADVANTAGES DO NUODEAN'S PUMPS HAVE?

NEW DESIGN

- **Non-Stall Design.**
- **Self-lubricating, and maintenance-free air systems.**
- **More flow and less pulsation:** Pilot air valve provides an positive, reliable shift signal that avoids stall-out, and provides faster pump trip-over with more flow and less pulsation.
- **The use of dual ceramic dynamic seals:** More wear-resisting ; better ability to work under polluted and/or dirty air, applicable to the harsh environment of air source; Long lifetime.
- **Anti-icing design:** With built-in energy-dissipation chamber, it is anti-icing and effectively reduces the discharge air pressure and noise from work; Cold exhaust air is diverted from ice-prone components.
- **Less air consumption:** The internal shape of the air chambers are optimized to save more air.



Stress analysis is applied for each major component design!

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Continued

Main Air Valve

Patent

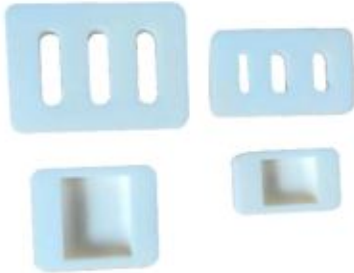
- Patented "stall-free" air valve design.
- Maintenance-free and Self-lubricating.
- Low start-up pressure(1.4bar).

The Use Of Dual Ceramic Dynamic Seals:

- More wear-resisting and self-lubricating.
- Better ability to work under polluted and/or dirty air.
- Applicable to the harsh environment of air source.
- Efficient.
- Long lifetime.

Ceramic Sealing Parts:

- More wear-resisting and self-lubricating.
- Long lifetime.



Pilot Air Valve

Patent

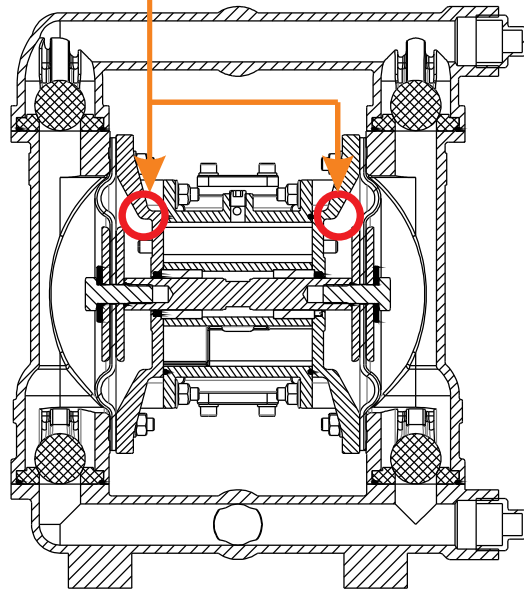
- Provides an positive, reliable shift signal.
- Provides faster pump trip-over with more flow.
- Faster trip-over with less pulsation.

Built-in Energy Dissipation Chamber

- It effectively reduces the discharge pressure and noise from work.
- It is anti-icing.

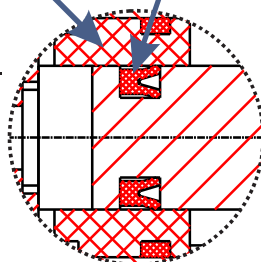
Less Air Consumption

- The internal shape of the air chambers are optimized to save more air.



POM Bush

- Very low friction coefficient.
- Self-lubricating.



Y Type Seal Ring

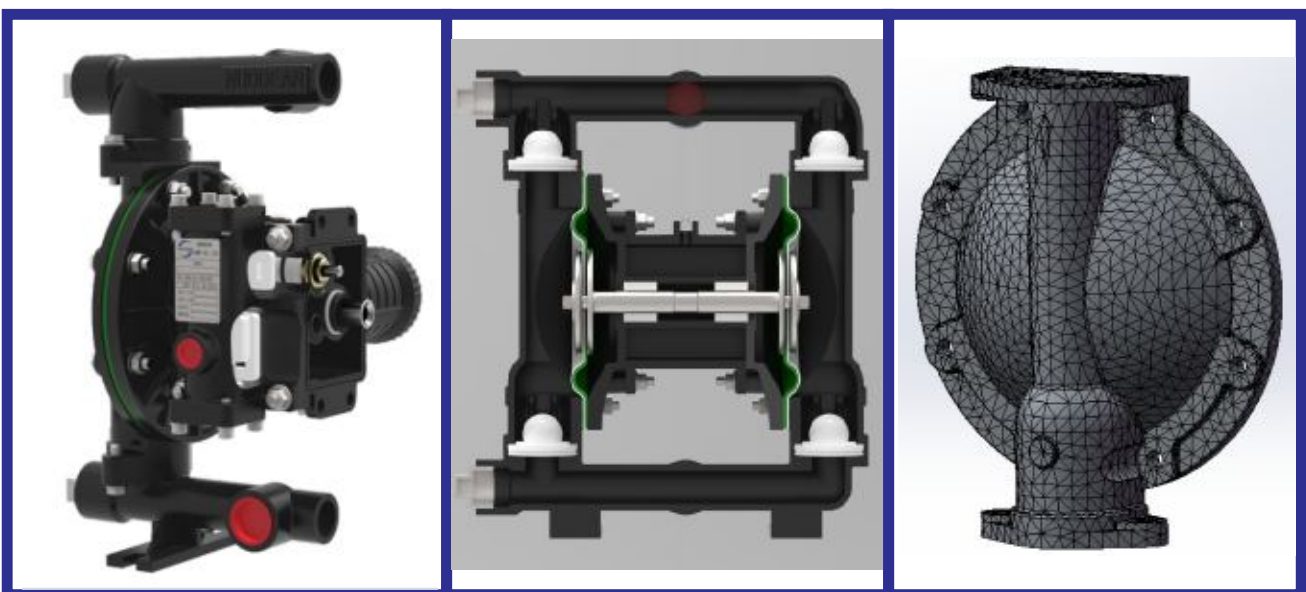
- Self-sealing, better seal effect.
- Automatic compensation for abrasion.
- Long lifetime.



Model Descriptions & Ordering:

Model	DP11	-	XX	B	X	X	X	X	X	X	X
	Product Series		Pump Size	Check Valve Type	Wetted Parts	Diaphragm Material	Check Valve Ball	Check Valve Seat	Center Section	Fluid Connections	Hardware

Pump Size	25-1"	40-1.5"	50-2"	80-3"
Check Valve Type	B-Ball			
Wetted Parts	A-Aluminum	I-Ductile Iron	S-Stainless Steel	H-Alloy C P-PP
Diaphragm Material	1-Neoprene	2-Nitrile	3-Viton	4-PTFE/Santoprene
	5-EPDM	6-Composite PTFE	7-Santoprene	8-Hytrel
Check Valve Ball	1-Neoprene	2-Nitrile	3-Viton	4-PTFE
	5-EPDM	6-Acetal	7-Polyurethane	8-Stainless Steel
	9-Hytrel	B-Santoprene	A-Aluminum	
Check Valve Seat	1-Aluminum	2-316 Stainless Steel	3-Polypropylene	4-Kynar PVDF
	5-Carbon Steel	6-Nylon	7-Hard 440 Stainless Steel	
Center Section	A-Aluminum	I-Ductile Iron	S-Stainless Steel	H-Alloy C P-PP
Fluid Connections	N-NPT Threads	B-BSPT Threads	F-ANSI 150 Flange	G-PN16/PN10 Flange
Hardware	C-Carbon Steel Galvanized		S-Stainless Steel	



Repair/Serve Kits Description:

Pump Model: DP11-XXBX XXXX XXXX

Fluid Section Service Kit: SERVE2XXF - XXXX

Pump Size _____
 Diaphragm Material _____
 Ball Material _____

Example:

If pump model: DP11-25BS7 4 3ABS,
 so fluid section service kit is: SERVE225F-7 4

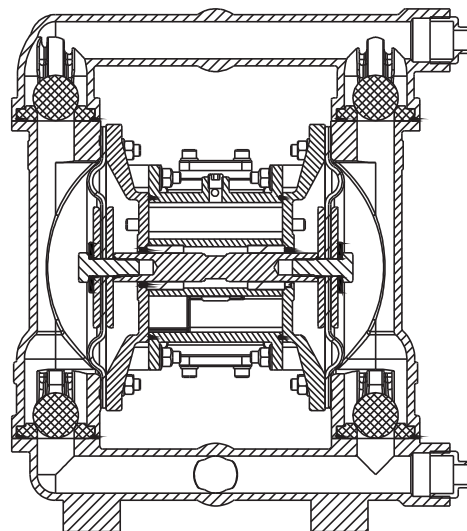
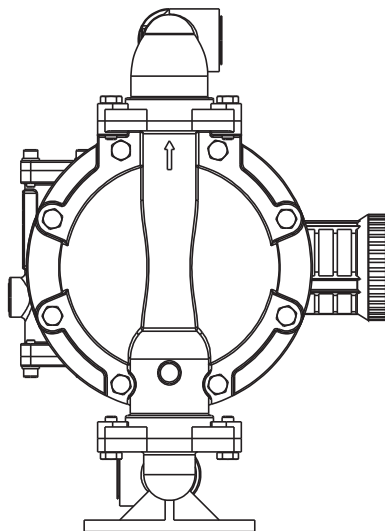
Pump Model: DP11-XXBX XXXX XXXX

Air Section Service Kit: SERVE2XXA

Pump Size _____

Example:

If pump model: DP11-25BS743ABS,
 so air section service kit is: SERVE225A





1" PLASTIC AIR OPERATED DOUBLE DIAPHRAGM PUMP

MODEL: DP11-25BPXXXXXX

SPECIFICATIONS:

Air Inlet(female): 3/8"BSPT(3/8"NPT Available On Request)

Fluid Outlet(female): 1" ANSI/DIN Flange

Fluid Inlet(female): 1" ANSI/DIN Flange

Maximum Flow Rate: 50GPM(189LPM)

Max. Operating Pressure: 120psi(8.3bar)

Fluid Pressure Range: 20-120psi(1.4-8.3bar)

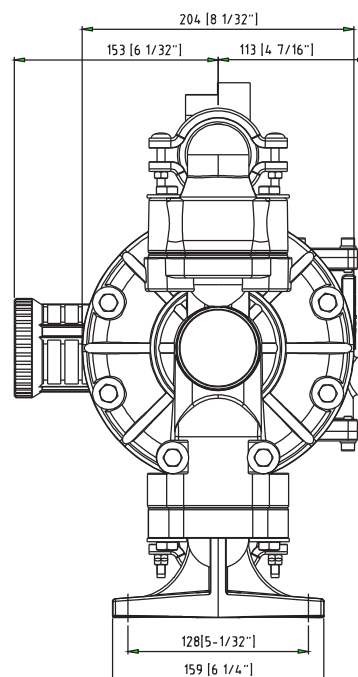
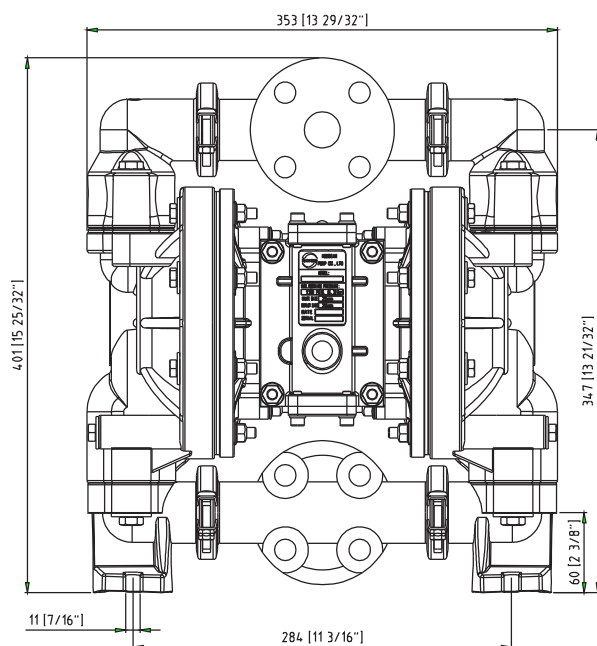
Suspended Solids Max. Dia.: 1/8"(3.2mm)

Maximum Dry Suction Lift: 15 feet(4.6m)

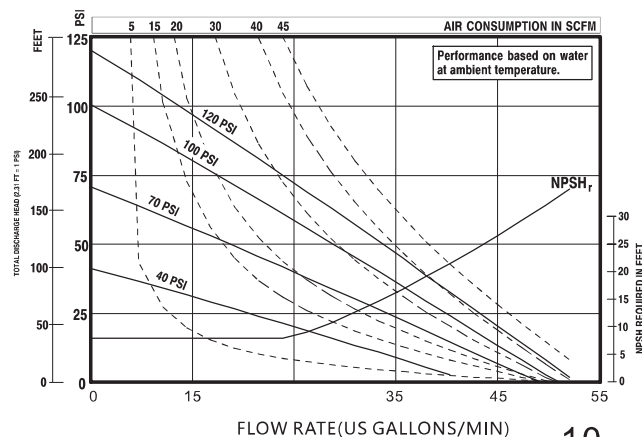
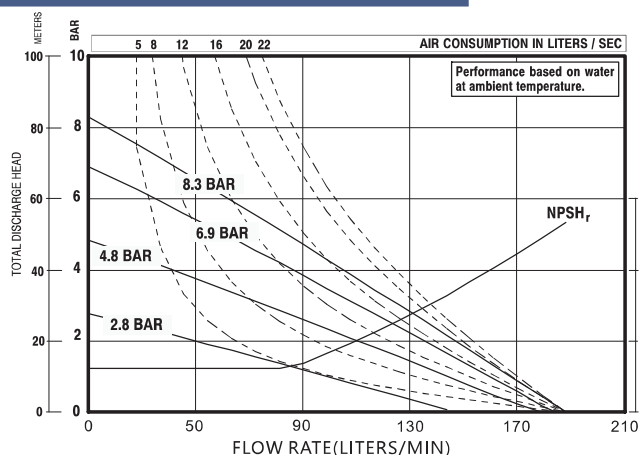
Weight:23.5 lbs(10.65kg)

Sound Level:70psi 60 cycles/min. 80.6db(A)

DIMENSIONS:



PERFORMANCE CURVE:





1-1/2" PLASTIC AIR OPERATED DOUBLE DIAPHRAGM PUMP

MODEL: DP11-40BPXXXXXX

SPECIFICATIONS:

Air Inlet(female): 3/8"BSPT(3/8"NPT Available On Request)

Fluid Outlet(female): 1-1/2" ANSI/DIN Flange

Fluid Inlet(female): 1-1/2" ANSI/DIN Flange

Maximum Flow Rate: 124GPM(469LPM)

Max. Operating Pressure: 120psi(8.3bar)

Fluid Pressure Range: 20-120psi(1.4-8.3bar)

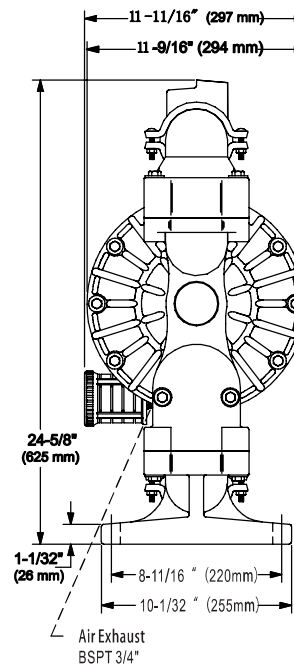
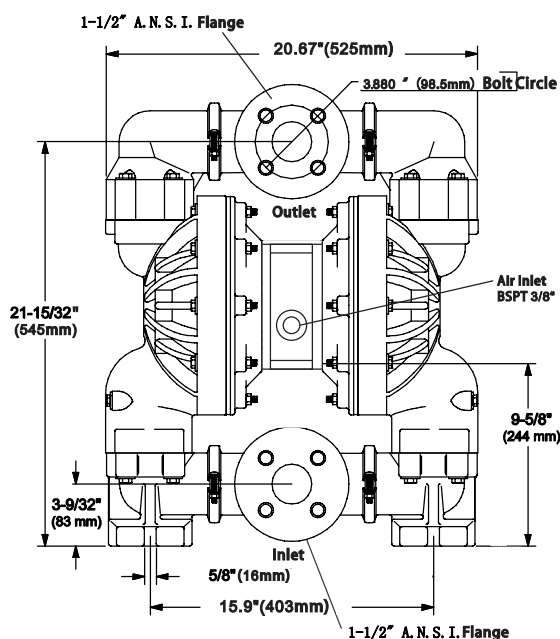
Suspended Solids Max. Dia.: 1/4"(6.4mm)

Maximum Dry Suction Lift: 14 feet(4.27m)

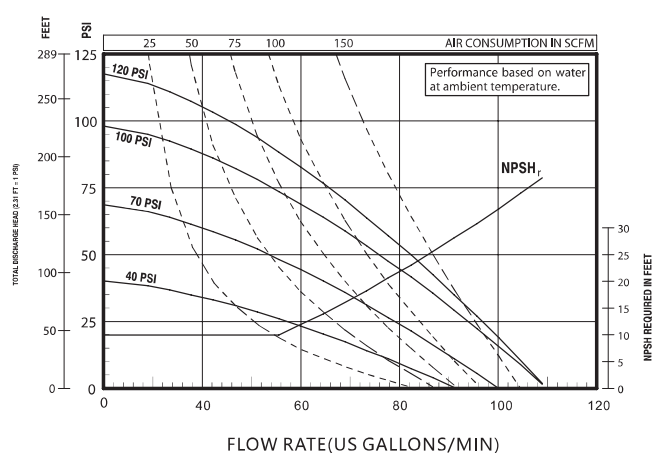
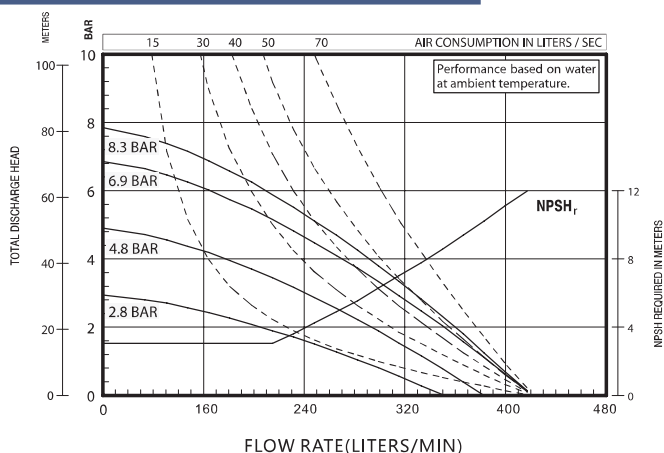
Weight:70 lbs(32kg)

Sound Level:70psi 60 cycles/min. 80.6db(A)

DIMENSIONS:



PERFORMANCE CURVE:





2" PLASTIC AIR OPERATED DOUBLE DIAPHRAGM PUMP

MODEL: DP11-50BPXXXXXX

SPECIFICATIONS:

Air Inlet(female): 3/8"BSPT(3/8"NPT Available On Request)

Fluid Outlet(female): 2" ANSI/DIN Flange

Fluid Inlet(female): 2" ANSI/DIN Flange

Maximum Flow Rate: 150GPM(568LPM)

Max. Operating Pressure: 120psi(8.3bar)

Fluid Pressure Range: 20-120psi(1.4-8.3bar)

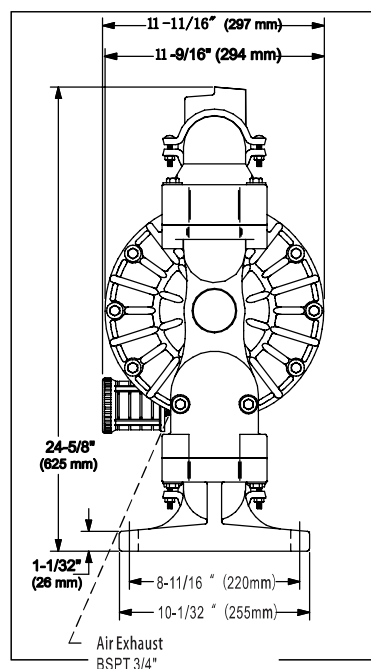
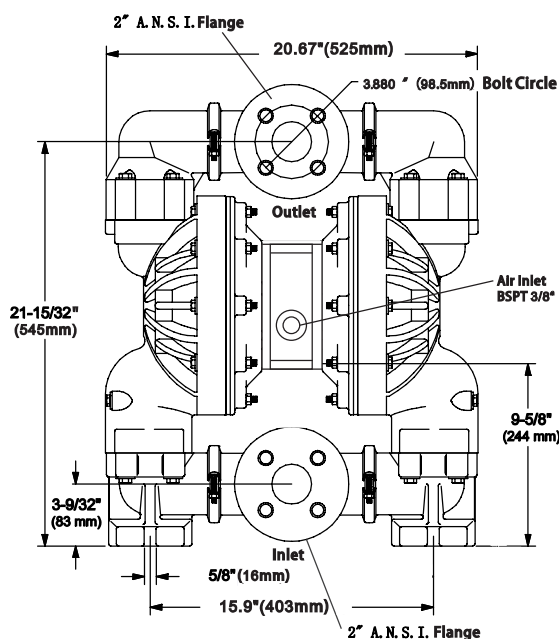
Suspended Solids Max. Dia.: 1/4"(6.4mm)

Maximum Dry Suction Lift: 14 feet(4.27m)

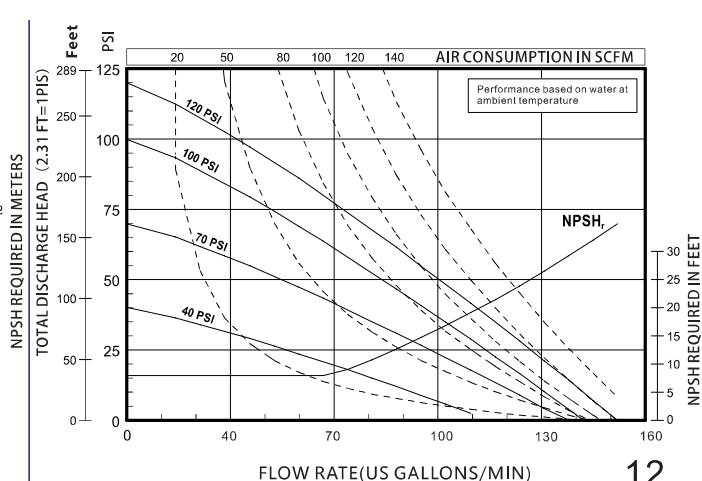
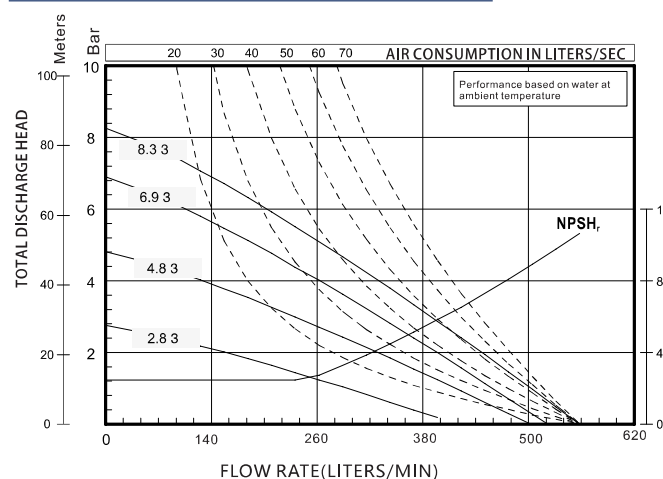
Weight:70 lbs(32kg)

Sound Level:70psi 60 cycles/min. 80.6db(A)

DIMENSIONS:



PERFORMANCE CURVE:





1" ALUMINUM AIR OPERATED DOUBLE DIAPHRAGM PUMP

MODEL: DP11-25BAXXXAXX

SPECIFICATIONS:

Air Inlet(female): 3/8"BSPT(3/8"NPT Available On Request)

Fluid Outlet(female): 1"BSPT Or 1"NPT

Fluid Inlet(female): 1"BSPT Or 1"NPT

Maximum Flow Rate: 50GPM(189LPM)

Max. Operating Pressure: 120psi(8.3bar)

Fluid Pressure Range: 20-120psi(1.4-8.3bar)

Suspended Solids Max. Dia.: 1/8"(3.3mm)

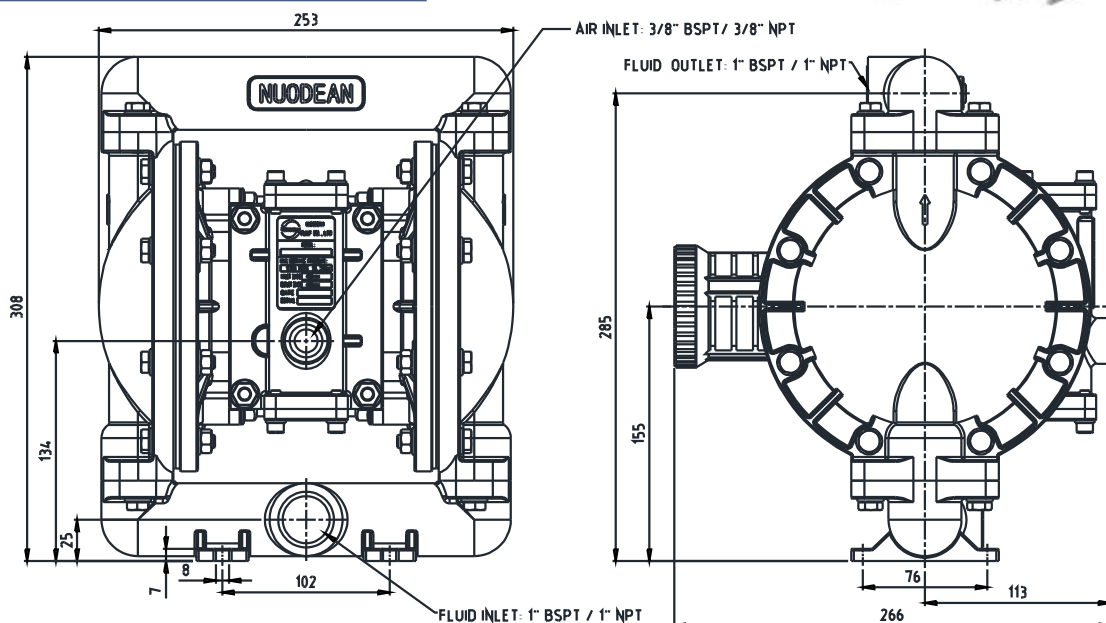
Maximum Dry Suction Lift: 20feet(6.1m)

Weight:27 lbs(12kg)

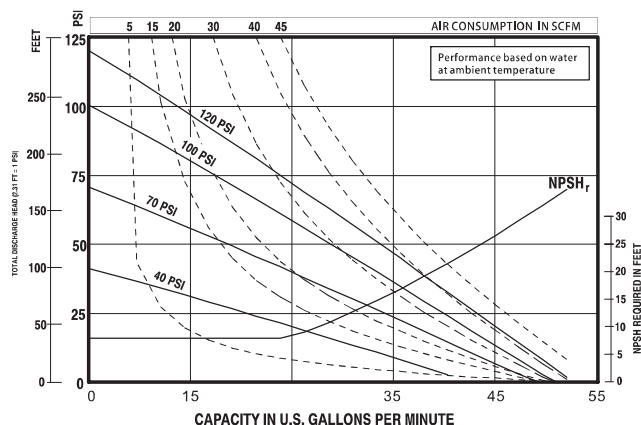
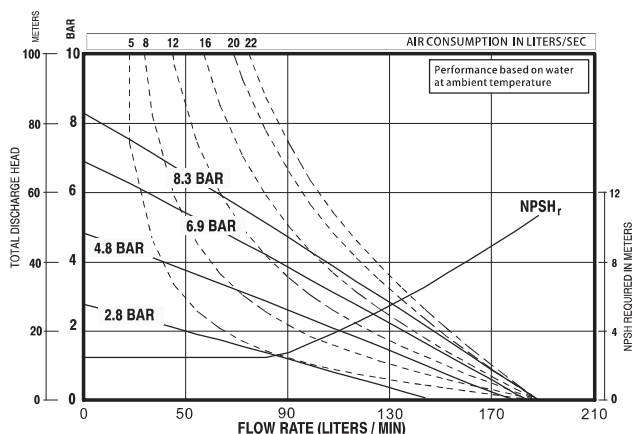
Sound Level:70psi 60 cycles/min. 80.6db(A)



DIMENSIONS:



PERFORMANCE CURVE:





1" STAINLESS STEEL AIR OPERATED DOUBLE DIAPHRAGM PUMP

MODEL: DP11-25BSXXXXXX

SPECIFICATIONS:

Air Inlet(female): 3/8"BSPT(3/8"NPT Available On Request)

Fluid Outlet(female): 1"BSPT Or 1"NPT

Fluid Inlet(female): 1"BSPT Or 1"NPT

Maximum Flow Rate: 50GPM(189LPM)

Max. Operating Pressure: 120psi(8.3bar)

Fluid Pressure Range: 20-120psi(1.4-8.3bar)

Suspended Solids Max. Dia.: 1/8"(3.3mm)

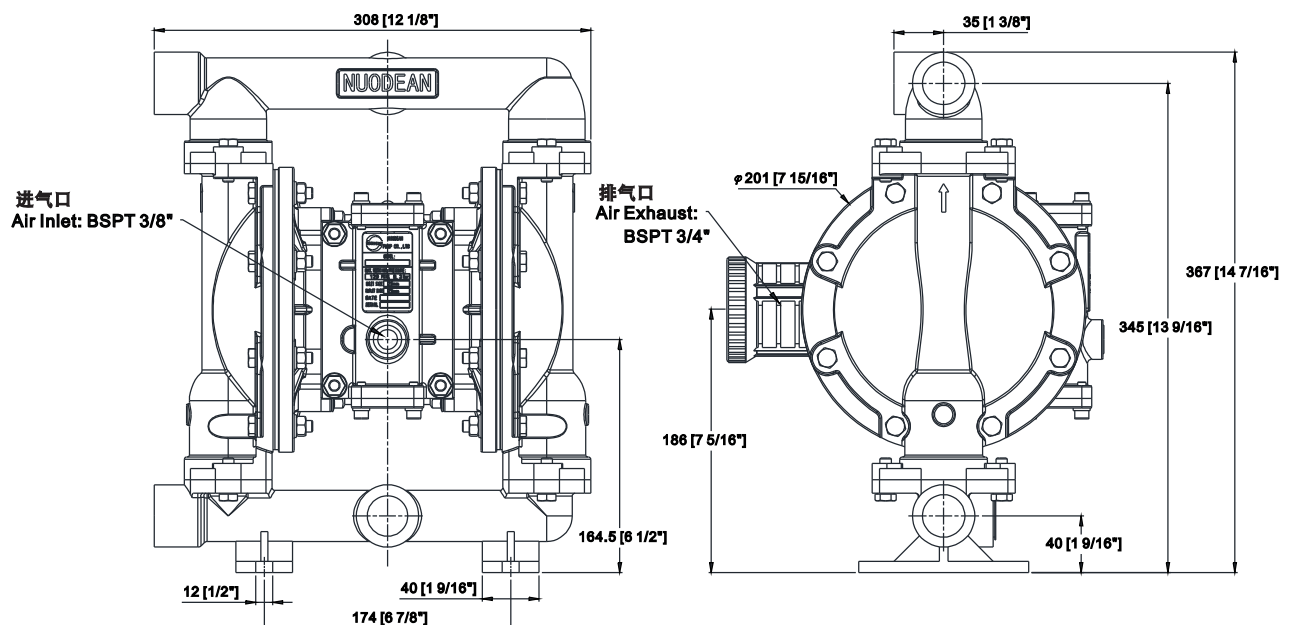
Maximum Dry Suction Lift: 20feet(6.1m)

Weight:44 lbs(20kg)

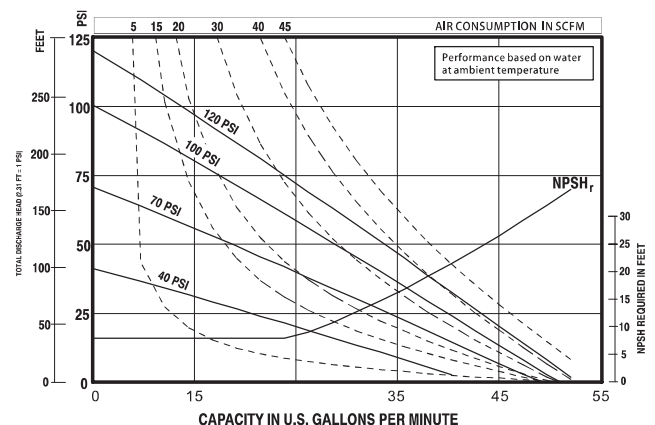
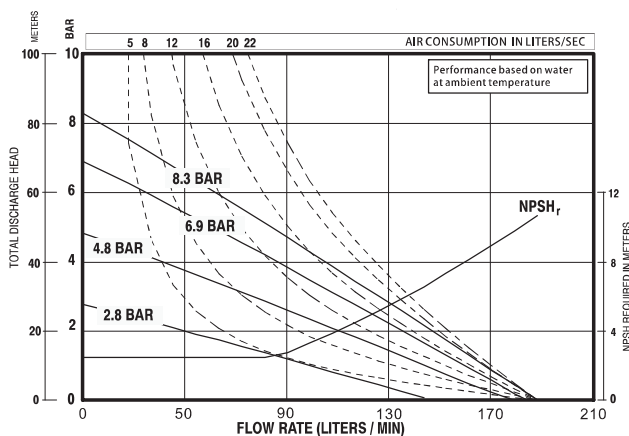
Sound Level:70psi 60 cycles/min. 80.6db(A)



DIMENSIONS:



PERFORMANCE CURVE:





1" CAST IRON AIR OPERATED DOUBLE DIAPHRAGM PUMP

MODEL: DP11-25BIXXXXXX

SPECIFICATIONS:

Air Inlet(female): 3/8"BSPT(3/8"NPT Available On Request)

Fluid Outlet(female): 1"BSPT Or 1"NPT

Fluid Inlet(female): 1"BSPT Or 1"NPT

Maximum Flow Rate: 50GPM(189LPM)

Max. Operating Pressure: 120psi(8.3bar)

Fluid Pressure Range: 20-120psi(1.4-8.3bar)

Suspended Solids Max. Dia.: 1/8"(3.3mm)

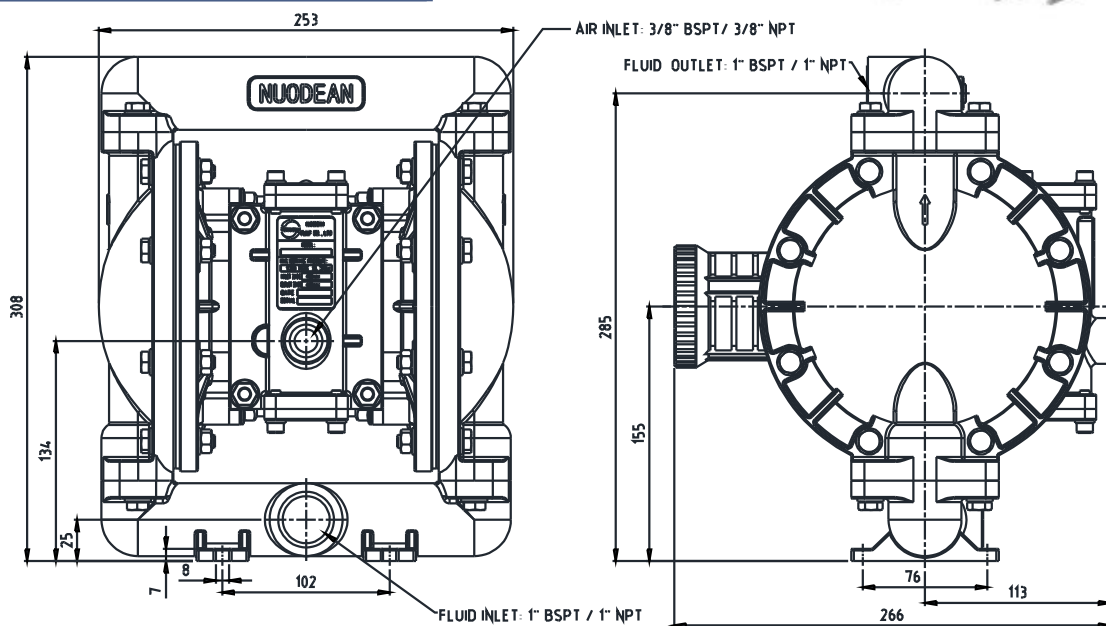
Maximum Dry Suction Lift: 20feet(6.1m)

Weight:42 lbs(19kg)

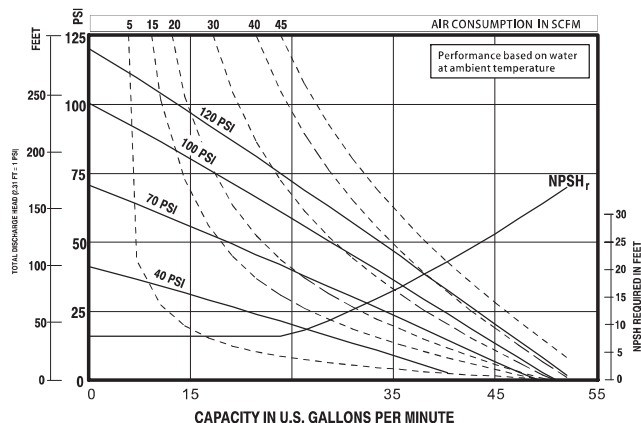
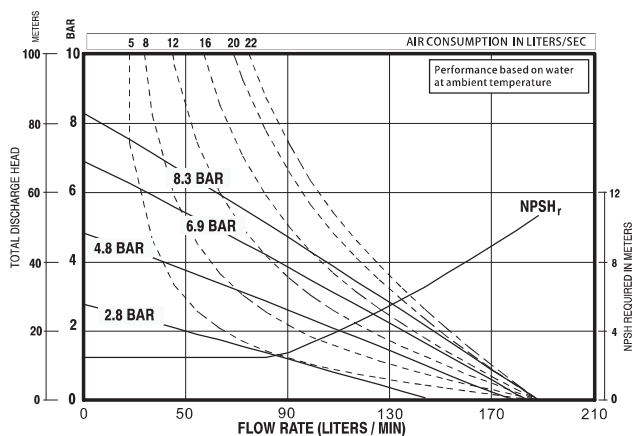
Sound Level:70psi 60 cycles/min. 80.6db(A)



DIMENSIONS:



PERFORMANCE CURVE:





1-1/2" ALUMINUM AIR OPERATED DOUBLE DIAPHRAGM PUMP MODEL: DP11-40BAXXXAXX

SPECIFICATIONS:

Air Inlet(female): 3/8"BSPT(3/8"NPT Available On Request)

Fluid Outlet(female): 1-1/2"BSPT Or 1-1/2"NPT

Fluid Inlet(female): 1-1/2"BSPT Or 1-1/2"NPT

Maximum Flow Rate: 110GPM(416LPM)

Max. Operating Pressure: 120psi(8.3bar)

Fluid Pressure Range: 20-120psi(1.4-8.3bar)

Suspended Solids Max. Dia.: 1/4"(6.4mm)

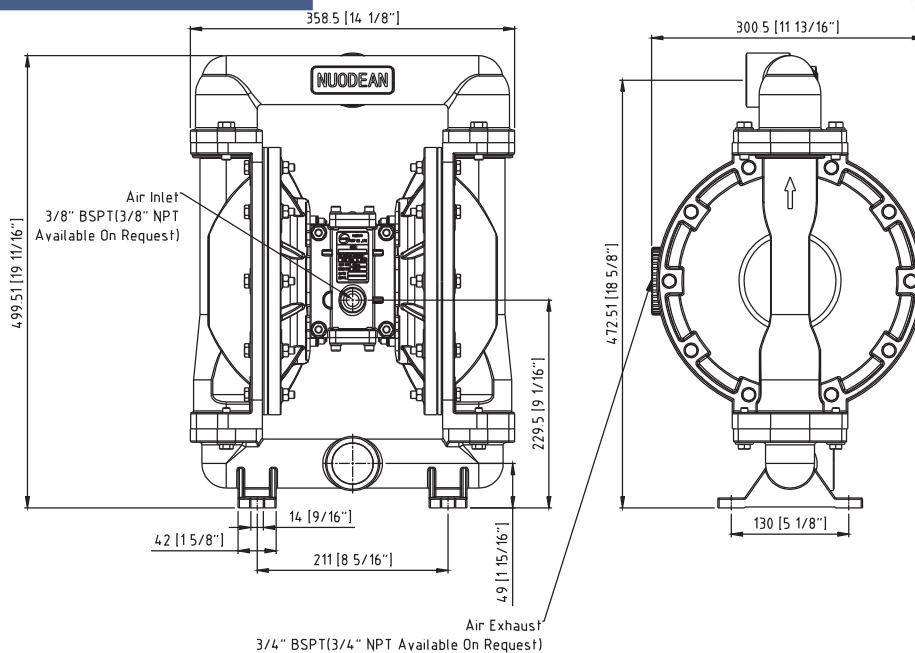
Maximum Dry Suction Lift: 19feet(5.8m)

Weight:50.7 lbs(23kg)

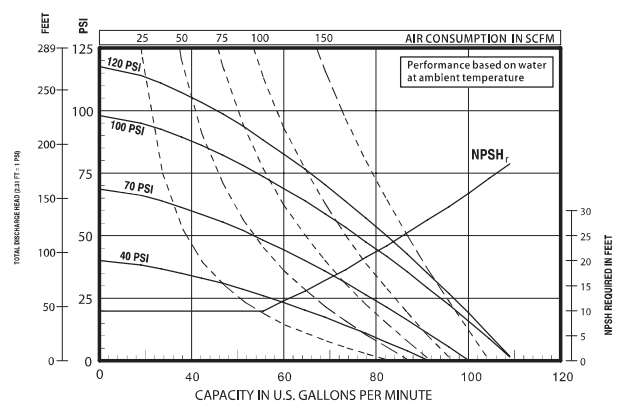
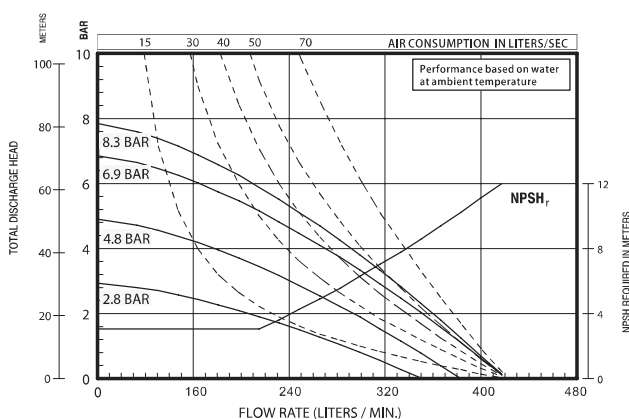
Sound Level:70psi 50 cycles/min. 81.0db(A)



DIMENSIONS:



PERFORMANCE CURVE:





1-1/2" STAINLESS STEEL AIR OPERATED DOUBLE DIAPHRAGM PUMP MODEL: DP11-40BSXXXXXX

SPECIFICATIONS:

Air Inlet(female): 3/8"BSPT(3/8"NPT Available On Request)

Fluid Outlet(female): 1-1/2"BSPT Or 1-1/2"NPT

Fluid Inlet(female): 1-1/2"BSPT Or 1-1/2"NPT

Maximum Flow Rate: 110GPM(416LPM)

Max. Operating Pressure: 120psi(8.3bar)

Fluid Pressure Range: 20-120psi(1.4-8.3bar)

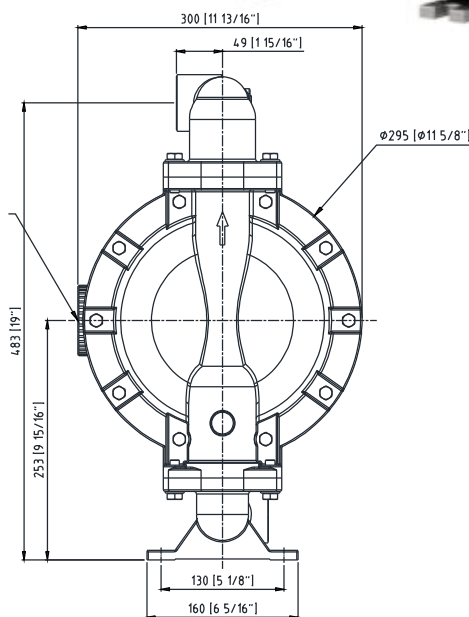
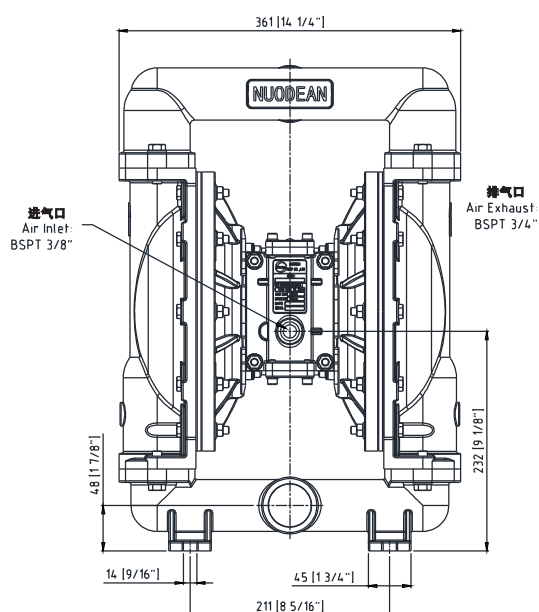
Suspended Solids Max. Dia.: 1/4"(6.4mm)

Maximum Dry Suction Lift: 19feet(5.8m)

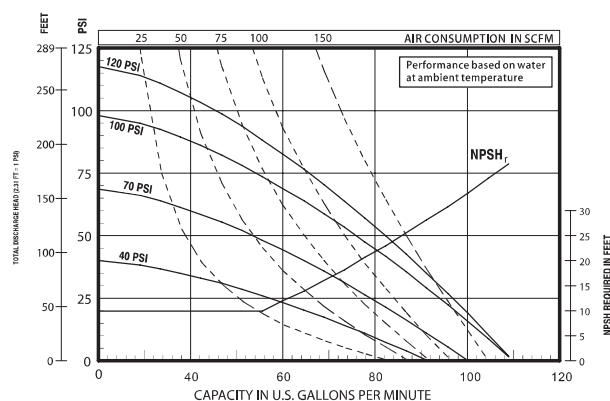
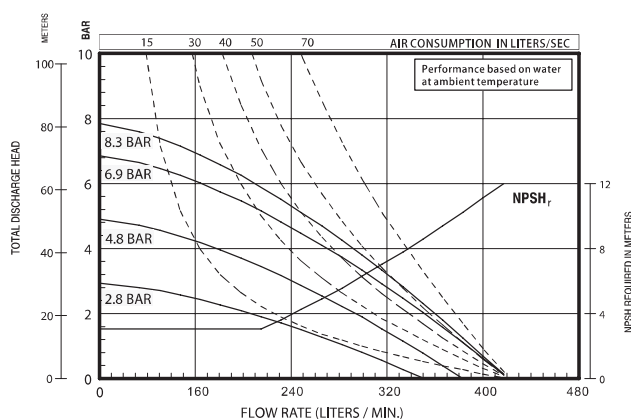
Weight:91 lbs(41kg)

Sound Level:70psi 60 cycles/min. 81.0db(A)

DIMENSIONS:



PERFORMANCE CURVE:





1-1/2" CAST IRON AIR OPERATED DOUBLE DIAPHRAGM PUMP

MODEL: DP11-40BIXXXXXX

SPECIFICATIONS:

Air Inlet(female): 3/8"BSPT(3/8"NPT Available On Request)

Fluid Outlet(female): 1-1/2"BSPT Or 1-1/2"NPT

Fluid Inlet(female): 1-1/2"BSPT Or 1-1/2"NPT

Maximum Flow Rate: 110GPM(416LPM)

Max. Operating Pressure: 120psi(8.3bar)

Fluid Pressure Range: 20-120psi(1.4-8.3bar)

Suspended Solids Max. Dia.: 1/4"(6.4mm)

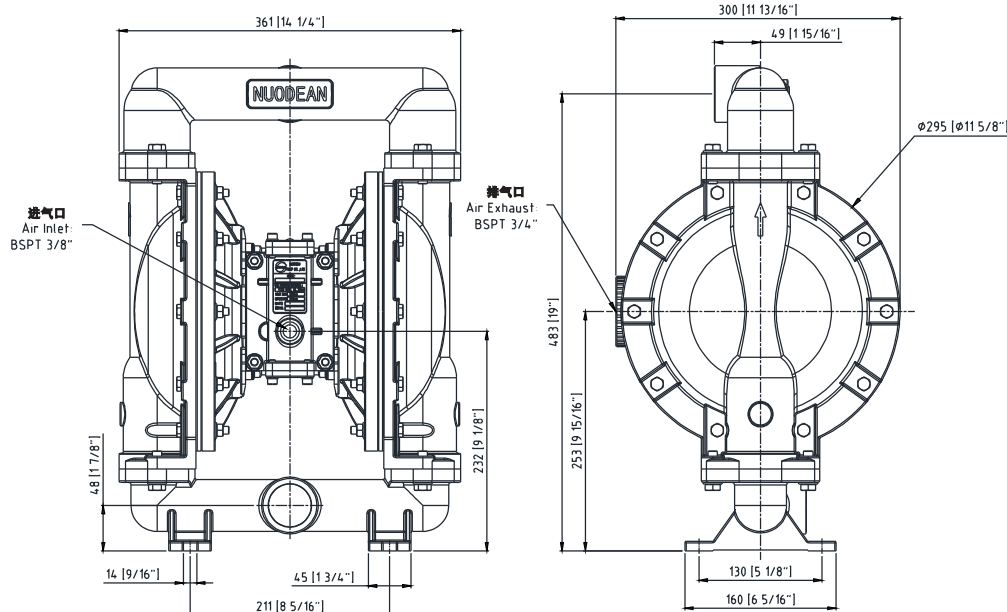
Maximum Dry Suction Lift: 19feet(5.8m)

Weight:91 lbs(41kg)

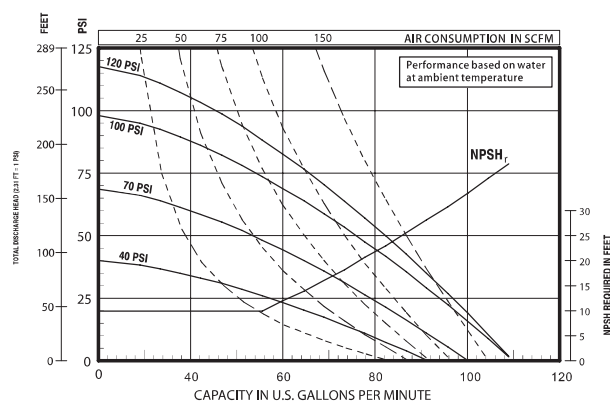
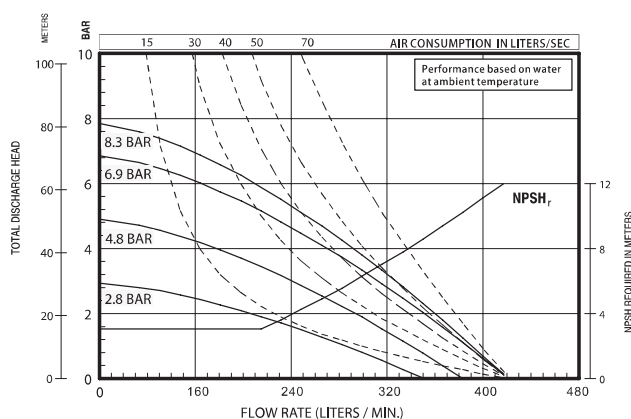
Sound Level:70psi 60 cycles/min. 81.0db(A)



DIMENSIONS:



PERFORMANCE CURVE:



2" ALUMINUM AIR OPERATED DOUBLE DIAPHRAGM PUMP MODEL: DP11-50BAXXXAXX

SPECIFICATIONS:

Air Inlet(female): 3/4"BSPT(3/4"NPT Available On Request)

Fluid Outlet(female): 2"BSPT Or 2"NPT

Fluid Inlet(female): 2"BSPT Or 2"NPT

Maximum Flow Rate: 171GPM(647LPM)

Max. Operating Pressure: 120psi(8.3bar)

Fluid Pressure Range: 20-120psi(1.4-8.3bar)

Suspended Solids Max. Dia.: 1/4"(6.4mm)

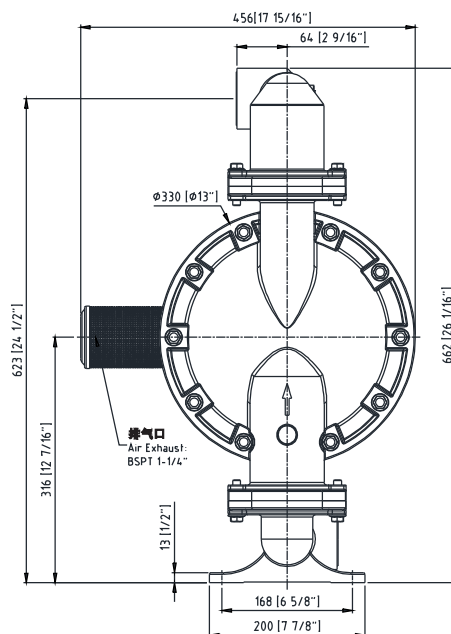
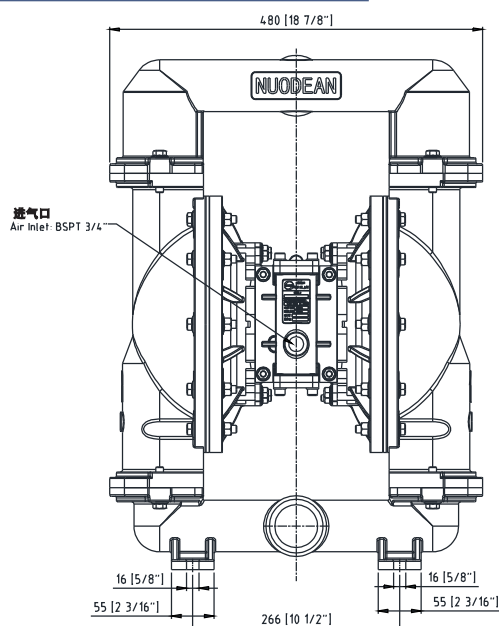
Maximum Dry Suction Lift: 27.2feet(8.3m)

Weight:95 lbs(43kg)

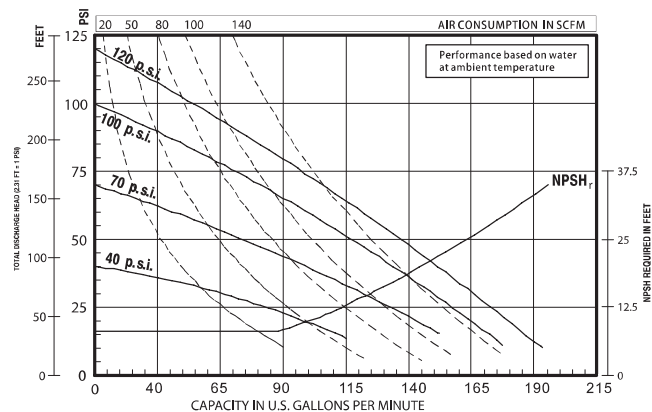
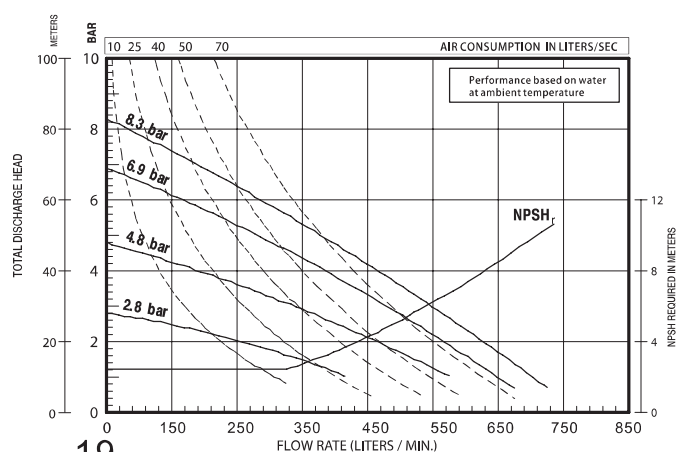
Sound Level:70psi 50 cycles/min. 85.0db(A)



DIMENSIONS:



PERFORMANCE CURVE:





2" STAINLESS STEEL AIR OPERATED DOUBLE DIAPHRAGM PUMP

MODEL: DP11-50BSXXXXXX

SPECIFICATIONS:

Air Inlet(female): 3/4"BSPT(3/4"NPT Available On Request)

Fluid Outlet(female): 2"BSPT Or 2"NPT

Fluid Inlet(female): 2"BSPT Or 2"NPT

Maximum Flow Rate: 171GPM(647LPM)

Max. Operating Pressure: 120psi(8.3bar)

Fluid Pressure Range: 20-120psi(1.4-8.3bar)

Suspended Solids Max. Dia.: 1/4"(6.4mm)

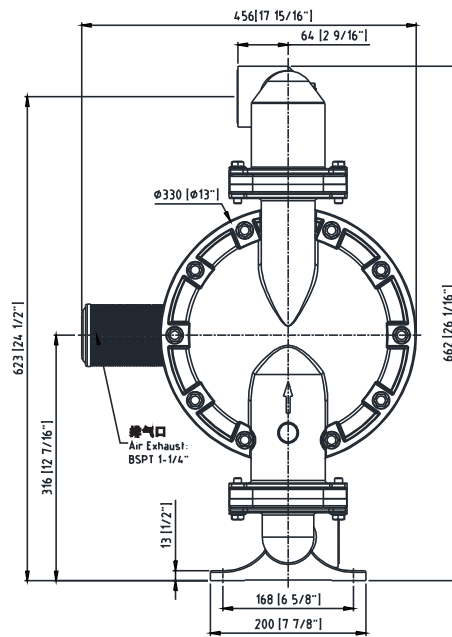
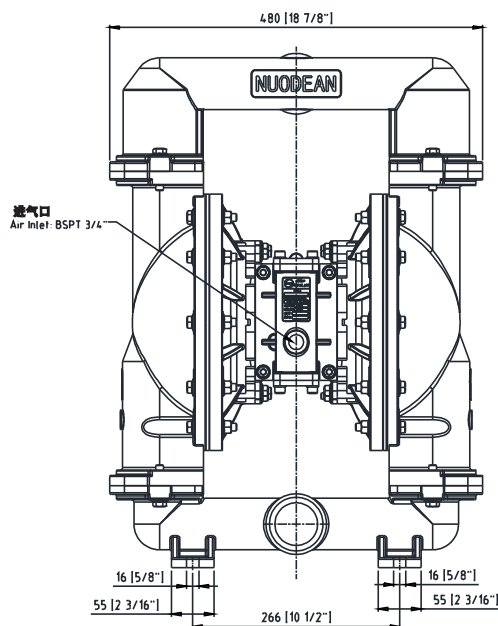
Maximum Dry Suction Lift: 27.2feet(8.3m)

Weight:139 lbs(63kg)

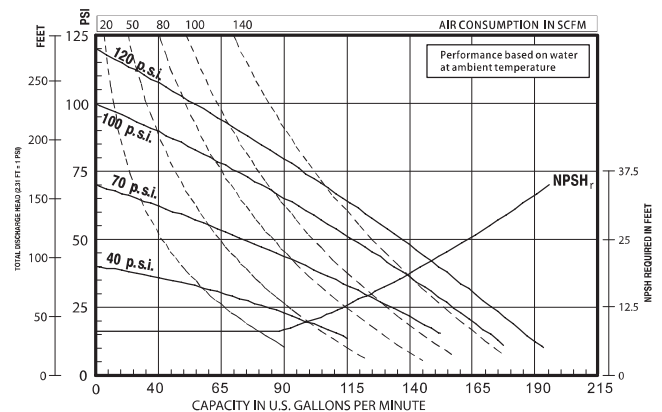
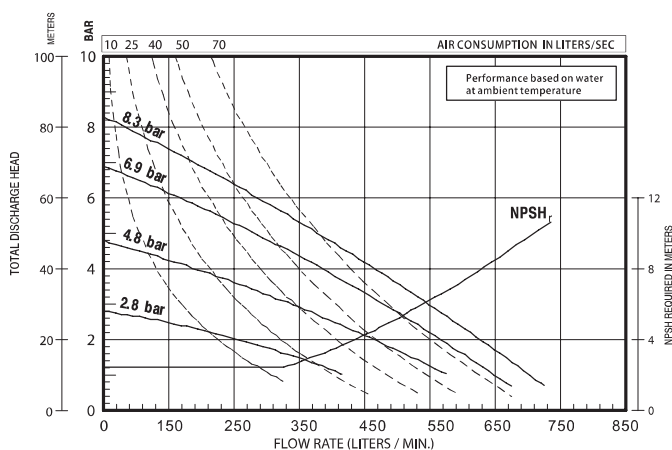
Sound Level:70psi 50 cycles/min. 85.3db(A)



DIMENSIONS:



PERFORMANCE CURVE:





2" CAST IRON AIR OPERATED DOUBLE DIAPHRAGM PUMP

MODEL: DP11-50BIXXXXXX

SPECIFICATIONS:

Air Inlet(female): 3/4"BSPT(3/4"NPT Available On Request)

Fluid Outlet(female): 2"BSPT Or 2"NPT

Fluid Inlet(female): 2"BSPT Or 2"NPT

Maximum Flow Rate: 171GPM(647LPM)

Max. Operating Pressure: 120psi(8.3bar)

Fluid Pressure Range: 20-120psi(1.4-8.3bar)

Suspended Solids Max. Dia.: 1/4"(6.4mm)

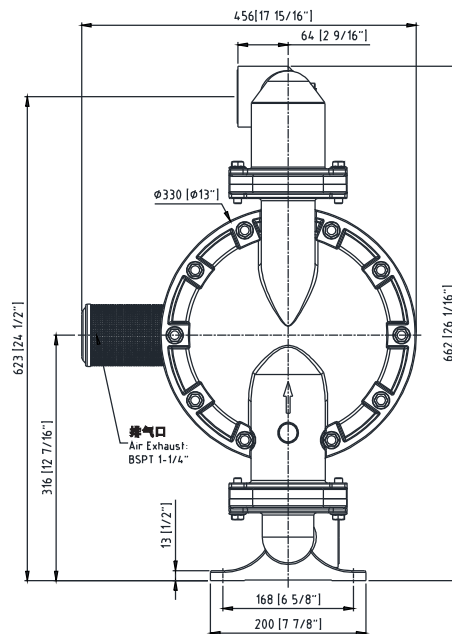
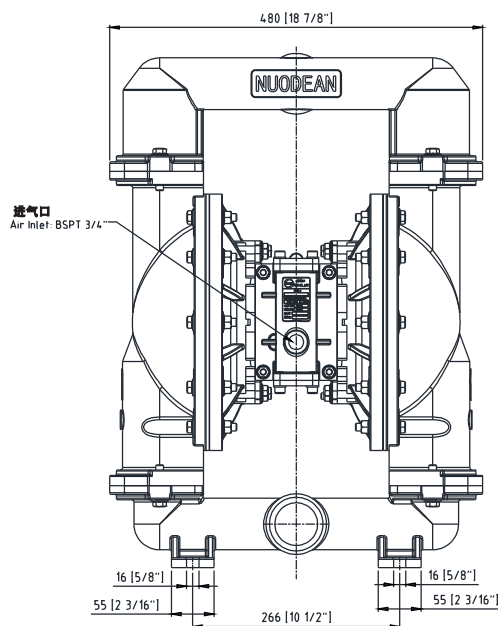
Maximum Dry Suction Lift: 27.2feet(8.3m)

Weight:139 lbs(63kg)

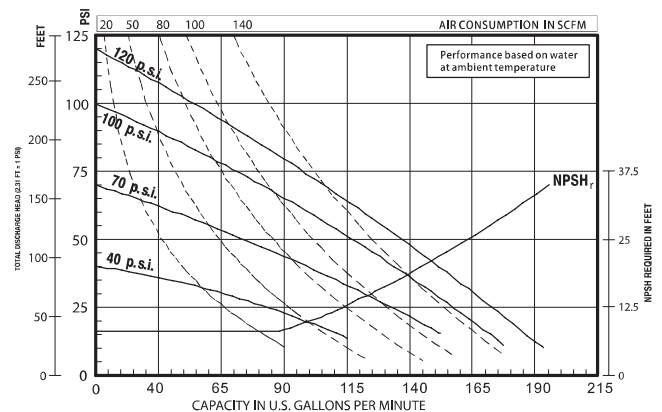
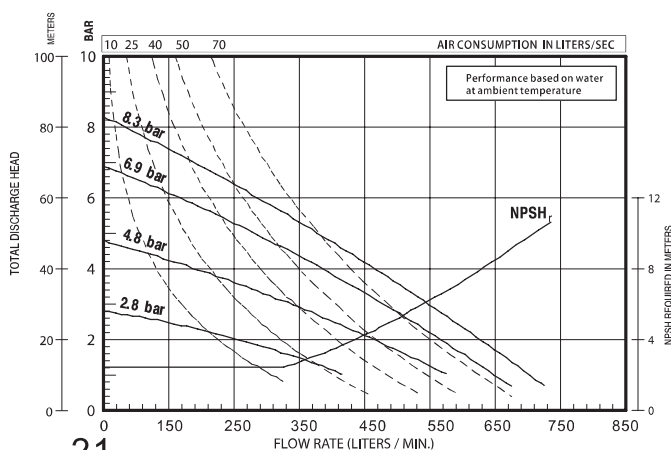
Sound Level:70psi 50 cycles/min. 85.0db(A)



DIMENSIONS:



PERFORMANCE CURVE:





3" ALUMINUM AIR OPERATED DOUBLE DIAPHRAGM PUMP MODEL: DP11-80BAXXXAXX

SPECIFICATIONS:

Air Inlet(female): 3/4"BSPT(3/4"NPT Available On Request)

Fluid Outlet(female): 3"BSPT Or 3"NPT

Fluid Inlet(female): 3"BSPT Or 3"NPT

Maximum Flow Rate: 273GPM(1033LPM)

Max. Operating Pressure: 120psi(8.3bar)

Fluid Pressure Range: 20-120psi(1.4-8.3bar)

Suspended Solids Max. Dia.: 3/8"(9.5mm)

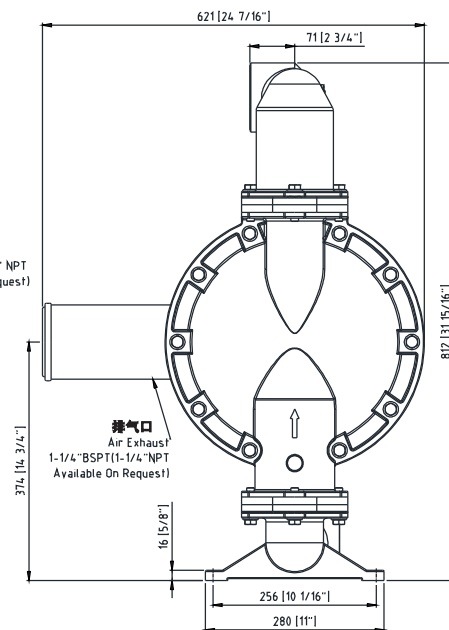
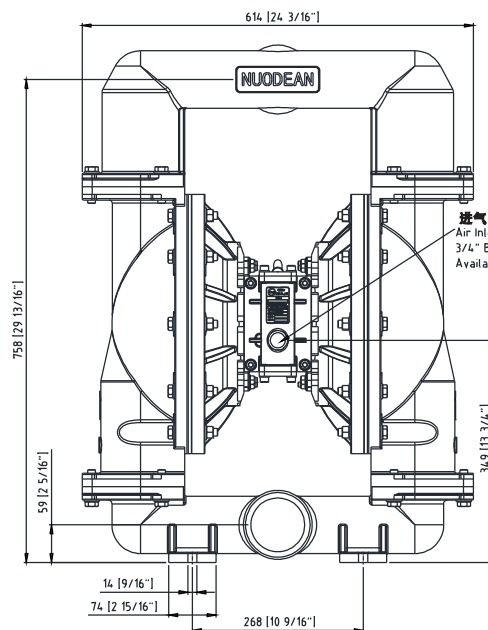
Maximum Dry Suction Lift: 17.6feet(5.4m)

Weight:133 lbs(60kg)

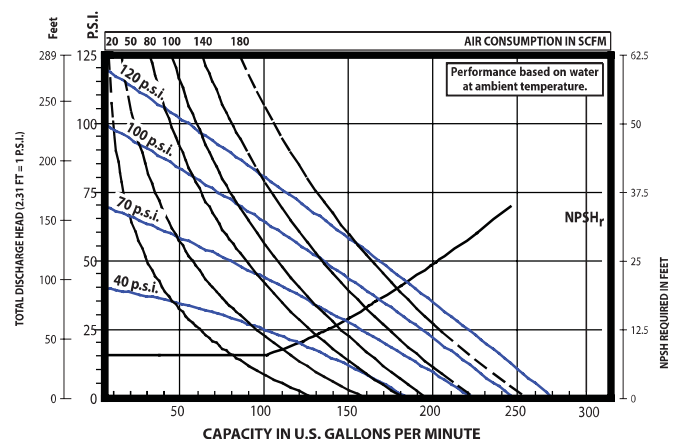
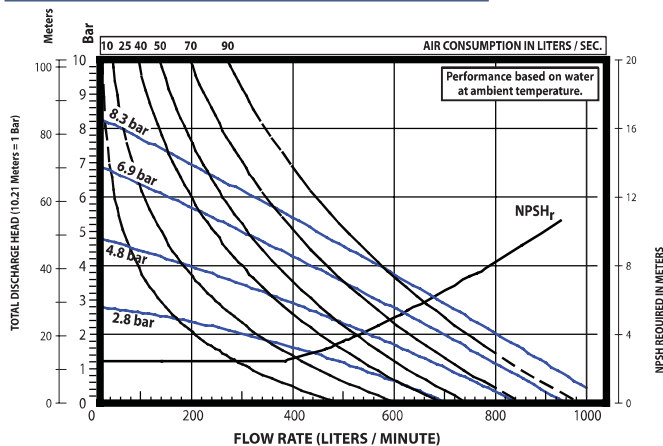
Sound Level:70psi 60 cycles/min. 86.3db(A)



DIMENSIONS:



PERFORMANCE CURVE:





3" STAINLESS STEEL AIR OPERATED DOUBLE DIAPHRAGM PUMP MODEL: DP11-80BSXXXXXX

SPECIFICATIONS:

Air Inlet(female): 3/4"BSPT(3/4"NPT Available On Request)

Fluid Outlet(female): 3"BSPT Or 3"NPT

Fluid Inlet(female): 3"BSPT Or 3"NPT

Maximum Flow Rate: 273GPM(1033LPM)

Max. Operating Pressure: 120psi(8.3bar)

Fluid Pressure Range: 20-120psi(1.4-8.3bar)

Suspended Solids Max. Dia.: 3/8"(9.5mm)

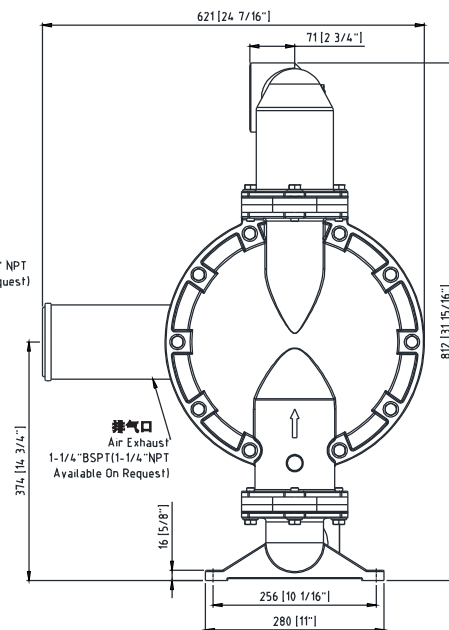
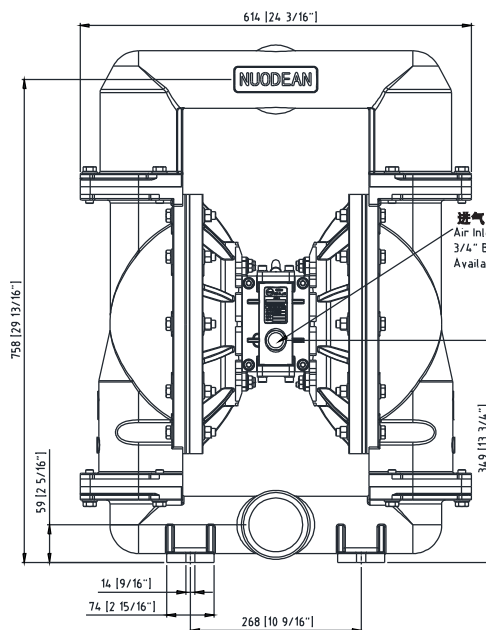
Maximum Dry Suction Lift: 17.6feet(5.4m)

Weight:243 lbs(110kg)

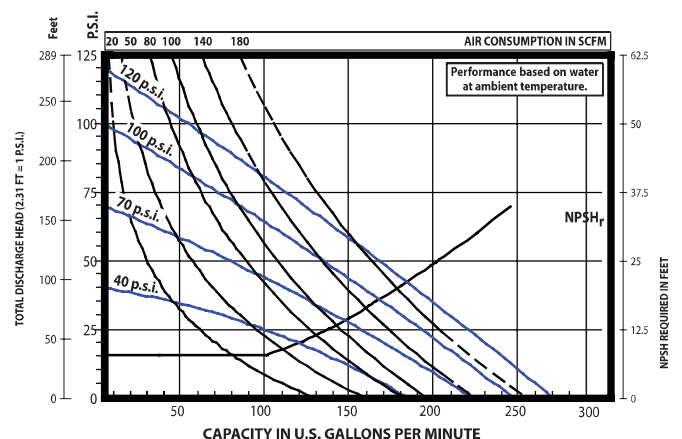
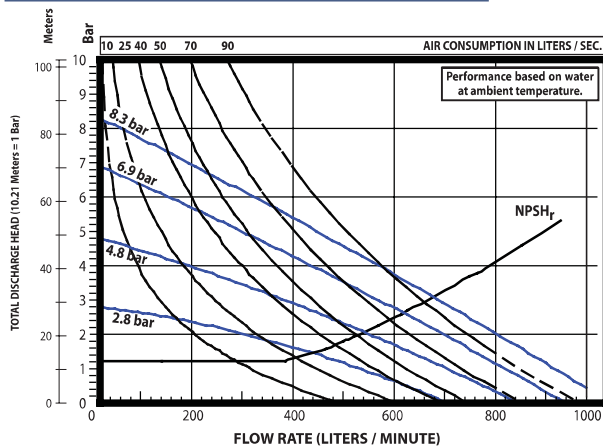
Sound Level:70psi 60 cycles/min. 86.3db(A)



DIMENSIONS:



PERFORMANCE CURVE:





3" CAST IRON AIR OPERATED DOUBLE DIAPHRAGM PUMP MODEL: DP11-80BIXXXXXX

SPECIFICATIONS:

Air Inlet(female): 3/4"BSPT(3/4"NPT Available On Request)

Fluid Outlet(female): 3"BSPT Or 3"NPT

Fluid Inlet(female): 3"BSPT Or 3"NPT

Maximum Flow Rate: 273GPM(1033LPM)

Max. Operating Pressure: 120psi(8.3bar)

Fluid Pressure Range: 20-120psi(1.4-8.3bar)

Suspended Solids Max. Dia.: 3/8"(9.5mm)

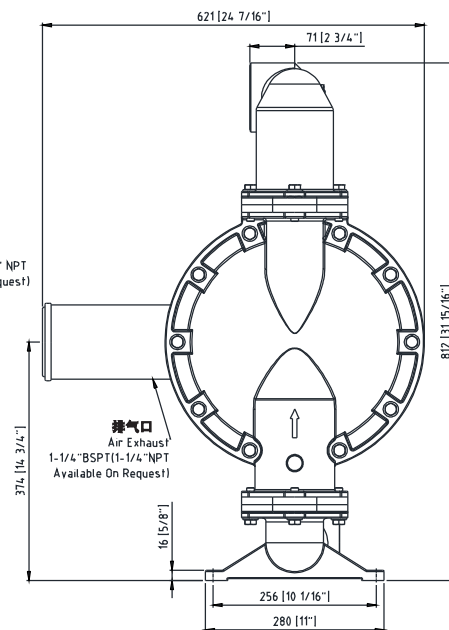
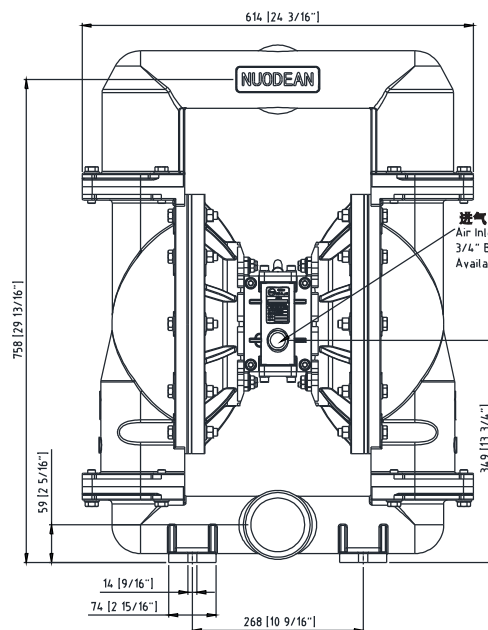
Maximum Dry Suction Lift: 17.6feet(5.4m)

Weight:232 lbs(105kg)

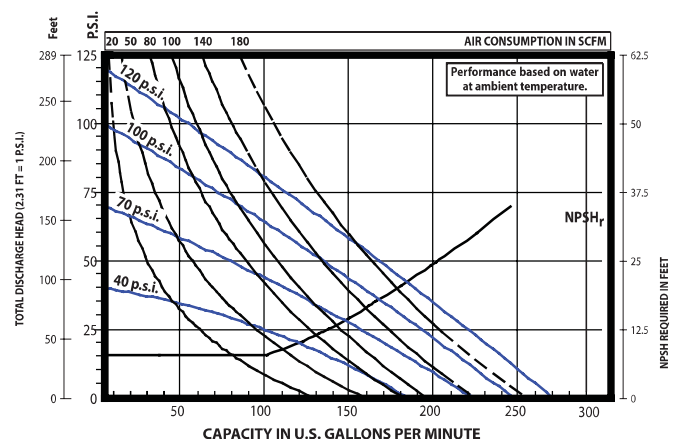
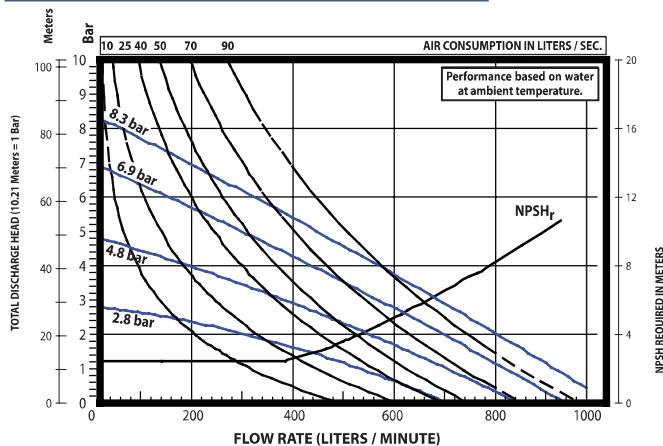
Sound Level:70psi 60 cycles/min. 86.3db(A)



DIMENSIONS:



PERFORMANCE CURVE:



**DRY POWDER DIAPHRAGM PUMP****MODEL: DP16-XX-XXXXXX**

Transfer and handle your dry process powder faster, cleaner and at a fraction of the cost associated with installed “systems”.

Consistent trouble-free transfer of powders up to 45-lbs.per cubic foot(721kgs. per cubic meter) dry-weight, such as carbon black, expanded mica, silicones, acrylic resins, 3D printing powders and pharmaceuticals.

- Replace manual powder processes
- Reduce airborne contamination-with direct transfer from the powder container to your recipe.
- Unique air-induction system-avoids the possibility of powder pack-out.
- Portable-Can be moved from site to site.

ORDERING:

Position		1		2	3	4	5	6	7
Example:	DP16-	XX	-	X	X	X	X	X	X

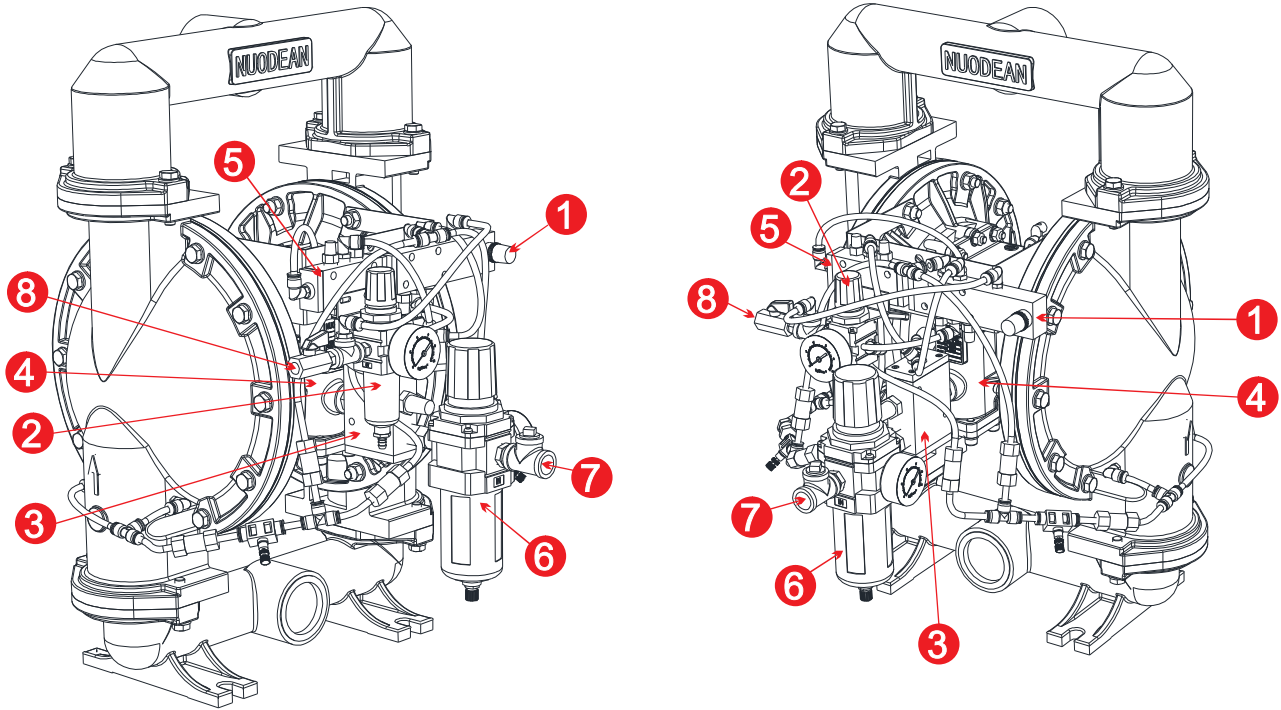
Position 1 Size	Position 2 Connections	Position 3 Wetted Parts	Position 4 Hardware
40-- 1-1/2"	A-NPT Screwed	A-Aluminum	P-Plated Steel
50-- 2"	B-BSPT Screwed	S-Stainless Steel	S-Stainless Steel
80-- 3"			

Position 5 Seat Material	Position 6 Ball Material	Position 7 Diaphragm Material
A-Santoprene	A-Santoprene	A-Santoprene
S-Stainless Steel		M-Medical Grade Santoprene

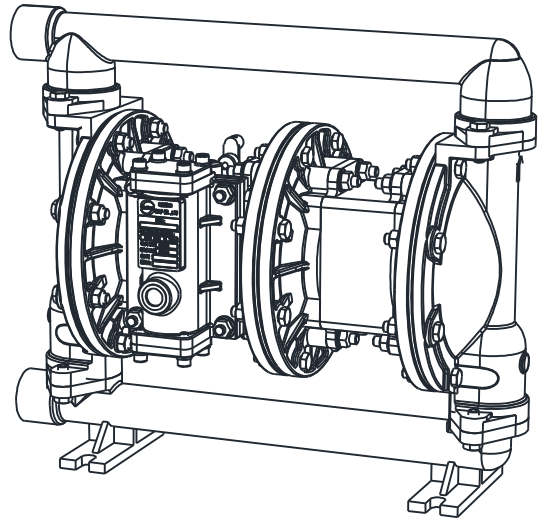


DRY POWDER DIAPHRAGM PUMP

MODEL: DP16-XX-XXXXXX



- 1 Delay Timer:** Insures proper, enough fluidization of the powder before start-up
- 2 Air Filter/Regulator:** Included with pump
- 3 Main Air Control Valve:** Directly controlled by the Delay Timer, main start-up valve supplies air pressure directly to the pump's major air valve.
- 4 Pump Major Air Valve:** NUODEAN's air valve features patented, stall-free design.
- 5 2-position 5-way valve:** Alternately blow the fluidizing air (or other inert gas) into the two fluid chambers to fluidize the powder inside .
- 6 Piggyback Air Filter/Regulator**
- 7 Air Inlet:** The compressed air that will drive the pump ,is connected to this Air Inlet.
Maximum Air Inlet Pressure: 50psi(3.4 bar)
- 8 Fluidizing Gas Inlet:** The inert gas or air to fluidize the powder , is connected to this Fluidizing Gas Inlet.
Maximum Fluidizing Pressure: 100psi(6.9 bar)

**1" TRIPLE DIAPHRAGM PUMP(High Pressure)****◆SPECIFICATIONS:****MODEL: DP12-25BXXXXXX****Air Inlet(Female):** 3/8"BSPT(3/8"NPT Available On Request)**Fluid Outlet:** 1"BSPT Or 1"NPT;**Fluid Inlet:** 1"BSPT Or 1"NPT;**Maximum Flow Rate:** 35GPM(133LPM)**Max. Operating Pressure:** 100psi(7bar)**Fluid Pressure Range:** 20-200psi(1.4-14bar)**Suspended Solids Max. Dia.:** 1/4"(6.4mm)**Maximum Dry Suction Lift:** 20feet(6.1m)**Weight:** 51 lbs(23kg);**Sound Level:** 70PSI 50 Cycles/Min 81.0db(A)**PRODUCT ADVANTAGES:****1. Stall-free Design.****2. Self-lubricating, lube-free and maintenance-free air system.****3. More flow and less pulsation:** Pilot Air-distribution Valve provides an positive, reliable, faster shif signal that avoids stall-out, and provides faster pump trip-over with more flow and less pulsation.**4. The use of dual ceramic dynamic seals:** More wear-resisting and to prevent & discharge pollution; Applicable to the harsh environment of air source; Long lifetime.**5. Big flow Rate:** Faster pump reversing increases flow to a certain extent.**6. Anti-icing design:** With built-in vacuum pump chamber, it is anti-icing and effectively reduces the discharge air pressure and noise from work.**◆MODEL DESCRIPTIONS & ORDERING:**

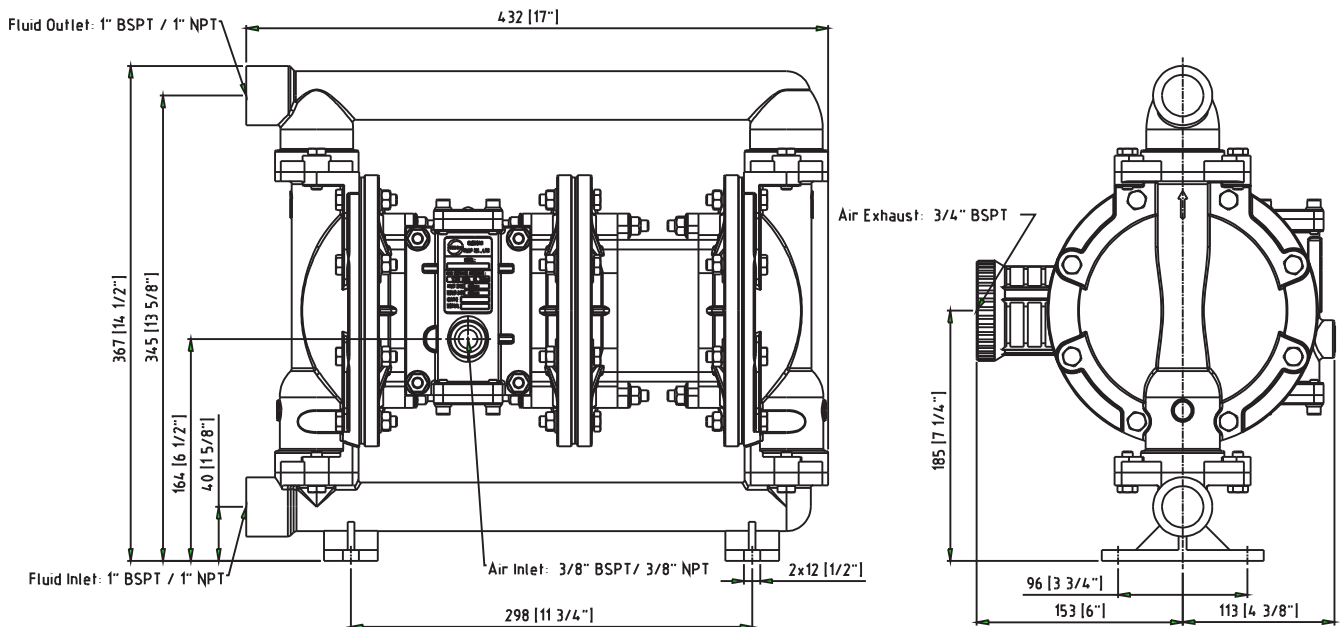
Model	DP12	-	25	B	X	X	X	X	X	X	X
	Product Series		Pump Size	Check Valve Type	Wetted Parts	Diaphragm Material	Check Valve Ball	Check Valve Seat	Center Section	Fluid Connections	Hardware
Pump Size			25-1"								
Check Valve Type			B-Ball								
Wetted Parts			A-Aluminum		I-Ductile Iron		S-Stainless Steel		H-Alloy C		
Diaphragm Material			1-Neoprene		2-Nitrile		3-Viton		4-PTFE/Santoprene		
			5-EPDM		6-Composite PTFE		7-Santoprene		8-Hytrel		
Check Valve Ball			1-Neoprene		2-Nitrile		3-Viton		4-PTFE		
			5-EPDM		6-Acetal		7-Polyurethane		8-Stainless Steel		
			9-Hytrel		B-Santoprene		A-Alumimum				
Check Valve Seat			1-Aluminum		2-316 Stainless Steel		3-Polypropylene		4-Kynar PVDF		
			5-Carbon Steel		6-Nylon		7-Hard 440 Stainless Steel				
Center Section			A-Aluminum		I-Ductile Iron		S-Stainless Steel		H-Alloy C		
Fluid Connections			N-NPT Threads		B-BSPT Threads		F-ANSI 150 Flange		G-PN16/PN10 Flange		
Hardware			C-Carbon Steel Galvanized				S-Stainless Steel				



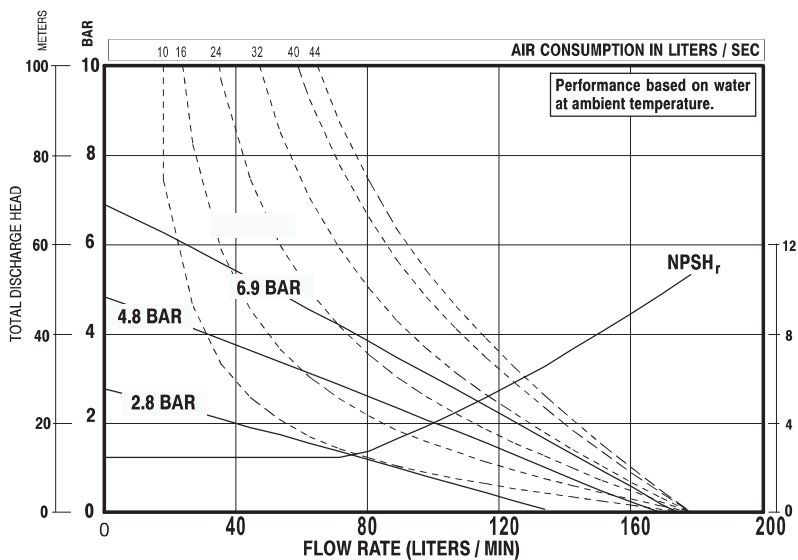
1" TRIPLE DIAPHRAGM PUMP(High Pressure)

MODEL: DP12-25BXXXXXX

◆DIMENSIONS:



◆PERFORMANCE CURVES:



◆REPAIR/SERVE KITS:

Pump Model:

DP12-25B S ☐ ☐ XXXX

Fluid Section Service Kit:

SERVE325F-☐ ☐

Diaphragm Material

Ball Material

EXAMPLE:

If pump model: DP12-25BS74XXXX,

so fluid section service kit is:

SERVE325F-74

Air Section Service Kit:

SERVE325A

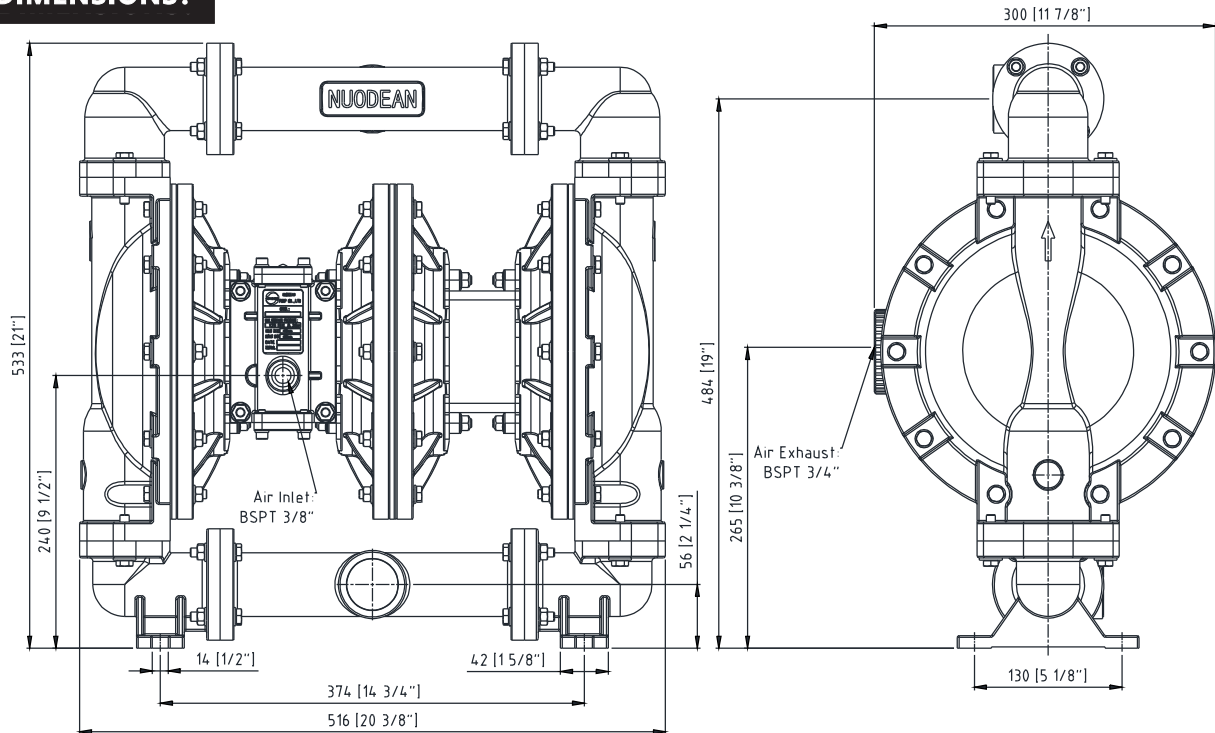
**1-1/2" TRIPLE DIAPHRAGM PUMP(High Pressure)****MODEL: DP12-40BXXXXXXX****◆SPECIFICATIONS:****Air Inlet(Female):** 3/8" BSPT(3/8"NPT Available On Request)**Fluid Outlet:** 1-1/2" BSPT Or 1-1/2"NPT;**Fluid Inlet:** 1-1/2" BSPT Or 1-1/2"NPT;**Maximum Flow Rate:** 110GPM(416LPM)**Max. Operating Pressure:** 100psi(7bar)**Fluid Pressure Range:** 20-200psi(1.4-14bar)**Suspended Solids Max. Dia.:** 1/4"(6.4mm)**Maximum Dry Suction Lift:** 19feet(5.8m)**Weight:** 110 lbs(50kg);**Sound Level:** 70PSI 60 Cycles/Min 88.0db(A)**◆PRODUCT ADVANTAGES:****1. Stall-free Design.****2. Self-lubricating,lube-free and maintenance-free air system.****3. More flow and less pulsation:**Pilot Air-distribution Valve provides an positive, reliable, faster shif signal that avoids stall-out, and provides faster pump trip-over with more flow and less pulsation.**4. The use of dual ceramic dynamic seals:**More wear-resisting and to prevent & discharge pollution;Applicable to the harsh environment of air source;Long lifetime.**5. Big flow Rate:**Faster pump reversing increases flow to a certain extent.**6. Anti-icing design:**With built-in vacuum pump chamber, it is anti-icing and effectively reduces the discharge air pressure and noise from work.**7. High lift,Stable operating:** Greatly optimized air system ensures the efficiency.**◆MODEL DESCRIPTIONS & ORDERING:**

Model	DP12	-	40	B	X	X	X	X	X	X	X
	Product Series		Pump Size	Check Valve Type	Wetted Parts	Diaphragm Material	Check Valve Ball	Check Valve Seat	Center Section	Fluid Connections	Hardware
Pump Size			40-1 1/2"								
Check Valve Type			B-Ball								
Wetted Parts			A-Aluminum		I-Ductile Iron		S-Stainless Steel		H-Alloy C		
Diaphragm Material			1-Neoprene		2-Nitrile		3-Viton		4-PTFE/Santoprene		
			5-EPDM		6-Composite PTFE		7-Santoprene		8-Hytrel		
Check Valve Ball			1-Neoprene		2-Nitrile		3-Viton		4-PTFE		
			5-EPDM		6-Acetal		7-Polyurethane		8-Stainless Steel		
			9-Hytrel		B-Santoprene		A-Alumimum				
Check Valve Seat			1-Aluminum		2-316 Stainless Steel		3-Polypropylene		4-Kynar PVDF		
			5-Carbon Steel		6-Nylon		7-Hard 440 Stainless Steel				
Center Section			A-Aluminum		I-Ductile Iron		S-Stainless Steel		H-Alloy C		
Fluid Connections			N-NPT Threads		B-BSPT Threads		F-ANSI 150 Flange		G-PN16/PN10 Flange		
Hardware			C-Carbon Steel Galvanized				S-Stainless Steel				

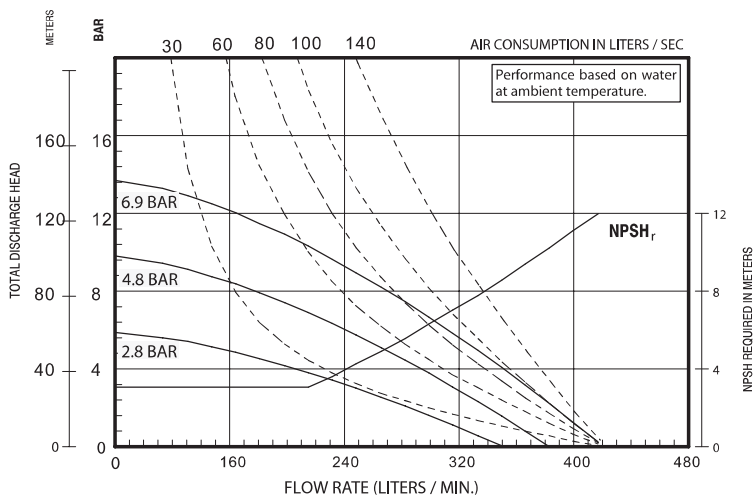


1-1/2" TRIPLE DIAPHRAGM PUMP(High Pressure) MODEL: DP12-40BXXXXXX

◆DIMENSIONS:



◆PERFORMANCE CURVES:



◆REPAIR/SERVE KITS:

Pump Model:

DP12-40B I ☐ ☐ XXXX

Fluid Section Service Kit:

SERVE340F-☐ ☐

Diaphragm Material

Ball Material

EXAMPLE:

If pump model: DP12-40BI74XXXX,
so fluid section service kit is:
SERVE340F-74

Air Section Service Kit:

SERVE340A

**2" TRIPLE DIAPHRAGM PUMP(High Pressure)****MODEL: DP12-50BXXXXXXX****◆SPECIFICATIONS:****Air Inlet(Female):** 3/4"BSPT(3/4"NPT Available On Request)**Fluid Outlet(Female):** 2"BSPT Or 2"NPT**Fluid Inlet(Female):** 2"BSPT Or 2"NPT**Maximum Flow Rate:** 150GPM(567LPM)**Max. Operating Pressure:** 100psi(6.9bar)**Fluid Pressure Range:** 20-200psi(1.4-1.4bar)**Suspended Solids Max. Dia.:** 1/4"(6.4mm)**Maximum Dry Suction Lift:** 19feet(5.8m)**Weight:** 198 lbs(90kg)**Sound Level:** 70PSI 50 Cycles/Min 85.0db(A)**◆PRODUCT ADVANTAGES:****1. Stall-free Design.****2. Self-lubricating,lube-free and maintenance-free air system.****3. More flow and less pulsation:**Pilot Air-distribution Valve provides an positive,reliable,faster shif signal that avoids stall-out,and provides faster pump trip-over with more flow and less pulsation.**4. The use of dual ceramic dynamic seals:**More wear-resisting and to prevent & discharge pollution;Applicable to the harsh environment of air source;Long lifetime.**5. Big flow Rate:**Faster pump reversing increases flow to a certain extent.**6. Anti-icing design:**With built-in vacuum pump chamber,it is anti-icing and effectively reduces the discharge air pressure and noise from work.**◆MODEL DESCRIPTIONS:**

Model	DP12	-	50	B	X	X	X	X	X	X	X
	Product Series		Pump Size	Check Valve Type	Wetted Parts	Diaphragm Material	Check Valve Ball	Check Valve Seat	Center Section	Fluid Connections	Hardware

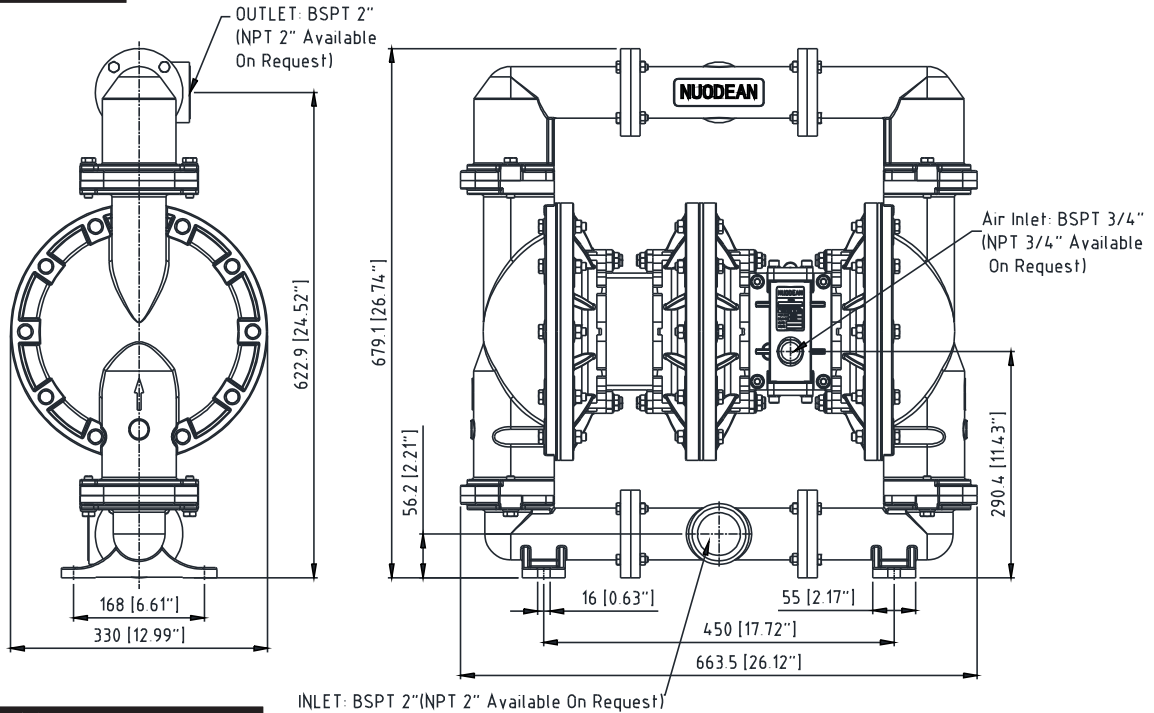
Pump Size	50-2"			
Check Valve Type	B-Ball			
Wetted Parts	A-Aluminum	I-Ductile Iron	S-Stainless Steel	H-Alloy C
Diaphragm Material	1-Neoprene	2-Nitrile	3-Viton	4-PTFE/Santoprene
	5-EPDM	6-Composite PTFE	7-Santoprene	8-Hytrel
Check Valve Ball	1-Neoprene	2-Nitrile	3-Viton	4-PTFE
	5-EPDM	6-Acetal	7-Polyurethane	8-Stainless Steel
	9-Hytrel	B-Santoprene	A-Alumimum	
Check Valve Seat	1-Aluminum	2-316 Stainless Steel	3-Polypropylene	4-Kynar PVDF
	5-Carbon Steel	6-Nylon	7-Hard 440 Stainless Steel	
Center Section	A-Aluminum	I-Ductile Iron	S-Stainless Steel	H-Alloy C
Fluid Connections	N-NPT Threads	B-BSPT Threads	F-ANSI 150 Flange	G-PN16/PN10 Flange
Hardware	C-Carbon Steel Galvanized		S-Stainless Steel	



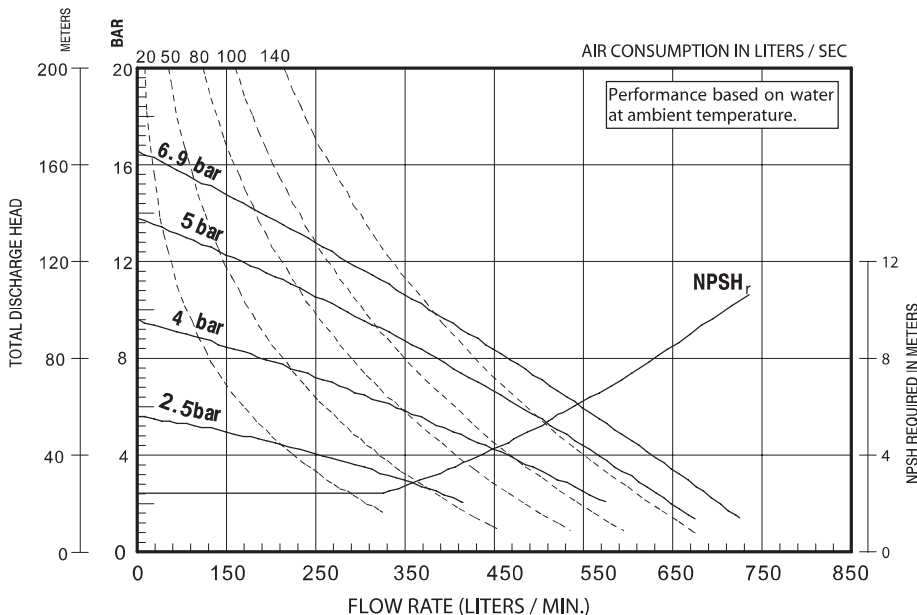
2" TRIPLE DIAPHRAGM PUMP(High Pressure)

MODEL: DP12-50BXXXXXX

◆DIMENSIONS:



◆PERFORMANCE CURVES:



◆REPAIR/SERVE KITS:

Pump Model:

DP12-50B I ☒ ☒ XAXX

Fluid Section Service Kit:

SERVE350F-☒ ☒

Diaphragm Material

Ball Material

EXAMPLE:

If pump model: DP12-50B I 74 XAXX,
so fluid section service kit is:
SERVE350F-74

Air Section Service Kit:

SERVE350A



HEAVY DUTY DIAPHRAGM PUMP(FLAPPER PUMP)

MODEL: DP17-50-XXXXX

The Nuodean's Heavy duty diaphragm pump is designed to pump fluids containing solids up to 2 inches(50mm) in diameter. Built on the foundation of the DP Series line of pumps, the Heavy duty pumps features Nuodean's patented Stall-free/lube-free Air Valve and rugged, easy-to-service bolted construction.

THIS PUMP ADAPT INNOVATIVE DESIGNES:

- The passage of fluid is horizontal, not vertical.
 - Fluid is easier to pass through.
 - Easier to repair or maintain.
 - No accumulation of fluid.
- Swing check valve is adopt.
 - Better passing ability for fluid
 - Easier to repair or maintain.
 - Longer lifetime.
 - modularized



Plus.... All the benefits of every NUODEAN PUMP

- Patented Non-lubricated & stall-free Air-Valve.
- Bolted Construction
- Faster trip-over, with less pulsation & more flow.
- Both of Main air valve & Pilot air valve adapt ceramic seals, with longer lifetime.
- Anti-icing design.



For stainless steel material: good solution for the food industry

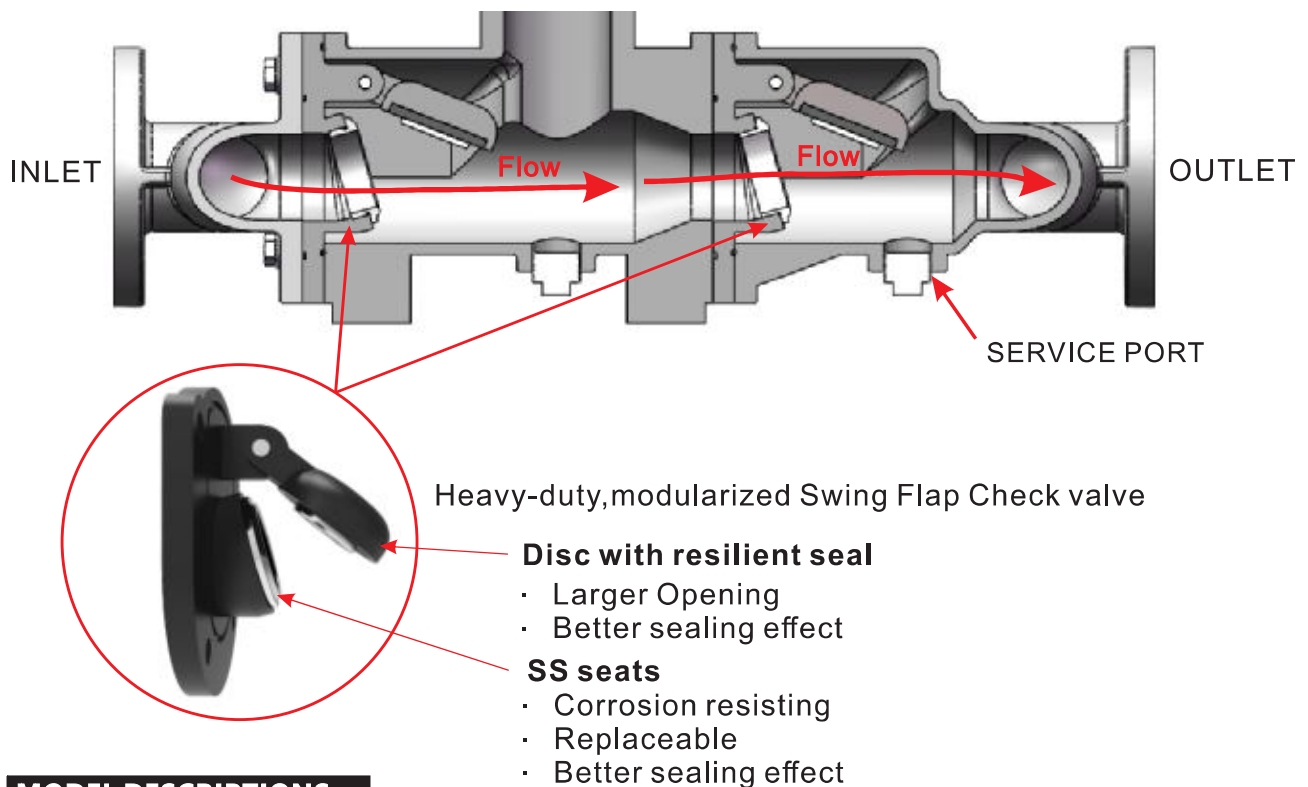


HEAVY DUTY DIAPHRAGM PUMP(FLAPPER PUMP)

MODEL: DP17-50-XXXXX

Design Features:

- Heavy-duty Swing Flap Check valve permits passage of up to 2 inch solids, longer lifetime, modularized.
- Easy access to valve chamber for ease of maintenance.
- In-line maintenance facilitates servicing pump without removal from installation.
- Horizontal constructure from suction to discharge keeps solids from settling in pump.
- Fluid is easier to pass through, due to Horizontal constructure from suction to discharge.
- Better passing ability for fluid, due to Horizontal constructure from suction to discharge.
- Easier to repair or maintain.



MODEL DESCRIPTIONS:

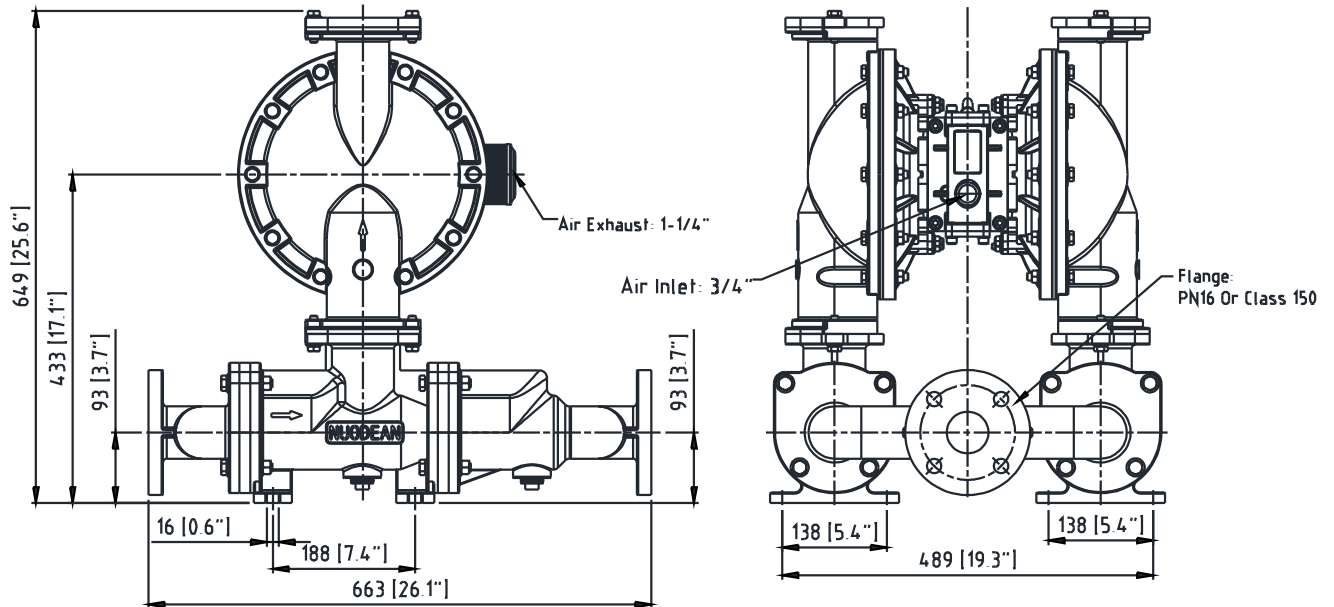
Model	DP17	-	50	X	X	X	X	X
	Product Series		PumpSize	Wetted Parts	Diaphragm Material	Center Section	Fluid Connections	Hardware
PumpSize		50-2"						
Wetted Parts		A-Aluminum		I-DuctileIron		S-StainlessSteel		H-AlloyC
DiaphragmMaterial		1-Neoprene		2-Nitrile		3-Viton		4-PTFE/Santoprene
		5-EPDM		6-CompositePTFE		7-Santoprene		8-Hytrel
CenterSection		A-Aluminum		I-DuctileIron		S-StainlessSteel		H-AlloyC
FluidConnections		N-NPTThreads		B-BSPTThreads		F-ANSI150 Flange		G-PN16/PN10 Flange
Hardware		C-CarbonSteelGalvanized				S-StainlessSteel		



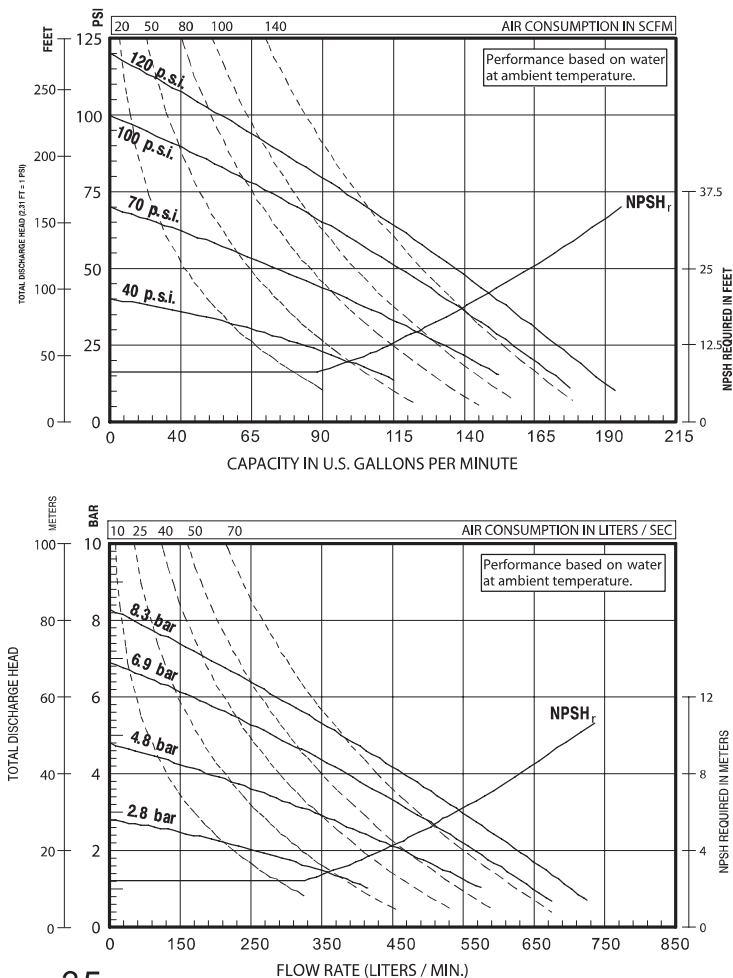
HEAVY DUTY DIAPHRAGM PUMP(FLAPPER PUMP)

MODEL: DP17-50-XXXXX

DIMENSIONS:



PERFORMANCE CURVES:



SPECIFICATIONS:

Air Inlet(Female):

3/4" BSPT(3/4" NPT Available On Request)

Fluid Outlet:

Flange: 2" ANSI Class 150 /DN50 PN10

Fluid Inlet(Female):

Flange: 2" ANSI Class 150 /DN50 PN10

Maximum Flow Rate: 171GPM(647LPM)

Max. Operating Pressure: 120psi(8.3bar)

Fluid Pressure Range: 20-120psi(1.4-8.3bar)

Suspended Solids Max. Dia.: 2"(50mm)

Maximum Dry Suction Lift: 27.2feet(8.3m)

Weight: 130kgs

SPARE PARTS FOR DIAPHRAGM PUMPS



SPARE PARTS, COMPATIBLE WITH ARO BRAND



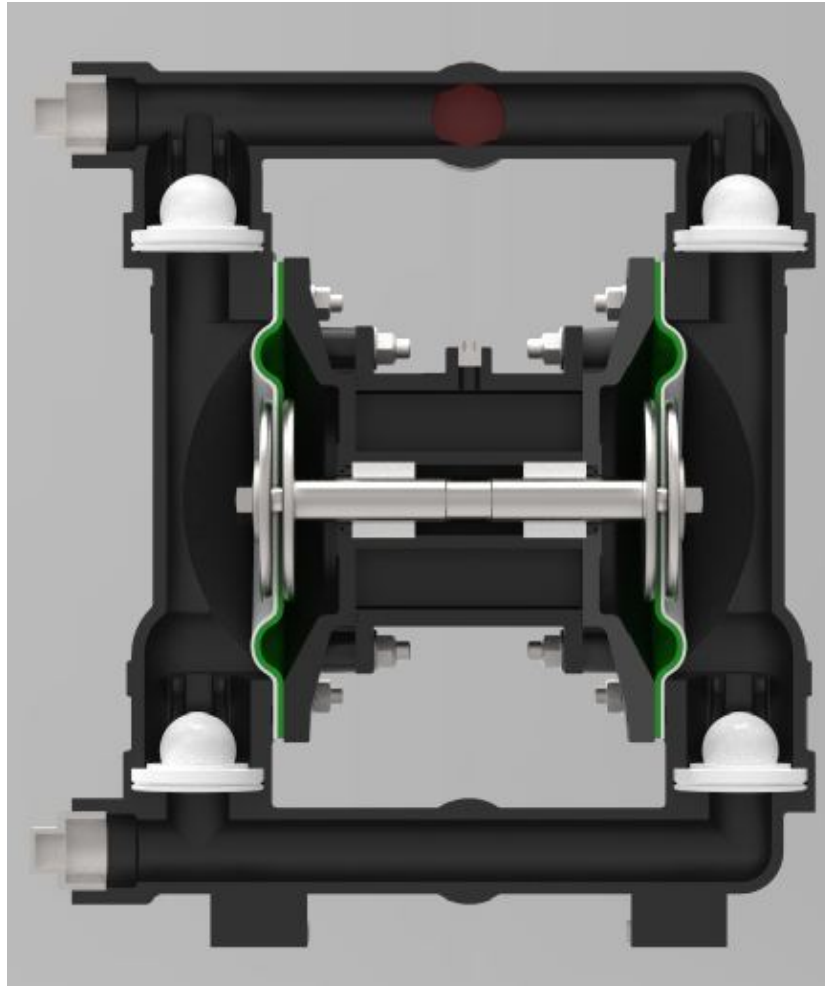
SPARE PARTS, COMPATIBLE WITH SANDPIPER BRAND



SPARE PARTS, COMPATIBLE WITH WILDEN BRAND

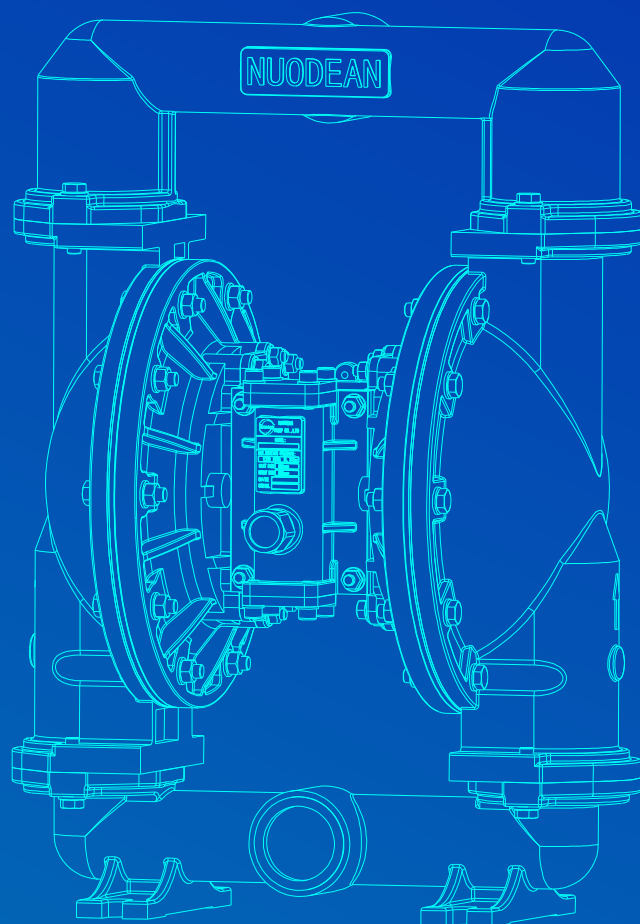
NEW PRODUCT: 2:1 HIGH PRESSURE DIAPHRAGM PUMP





PATENTED PRODUCT

Stall-free, Large Flow, less pulsation, Maintenance-free, Anti-icing!



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