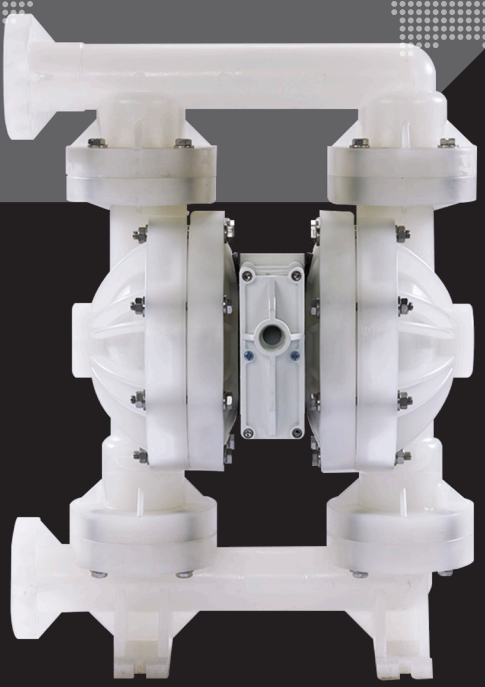
PRICE

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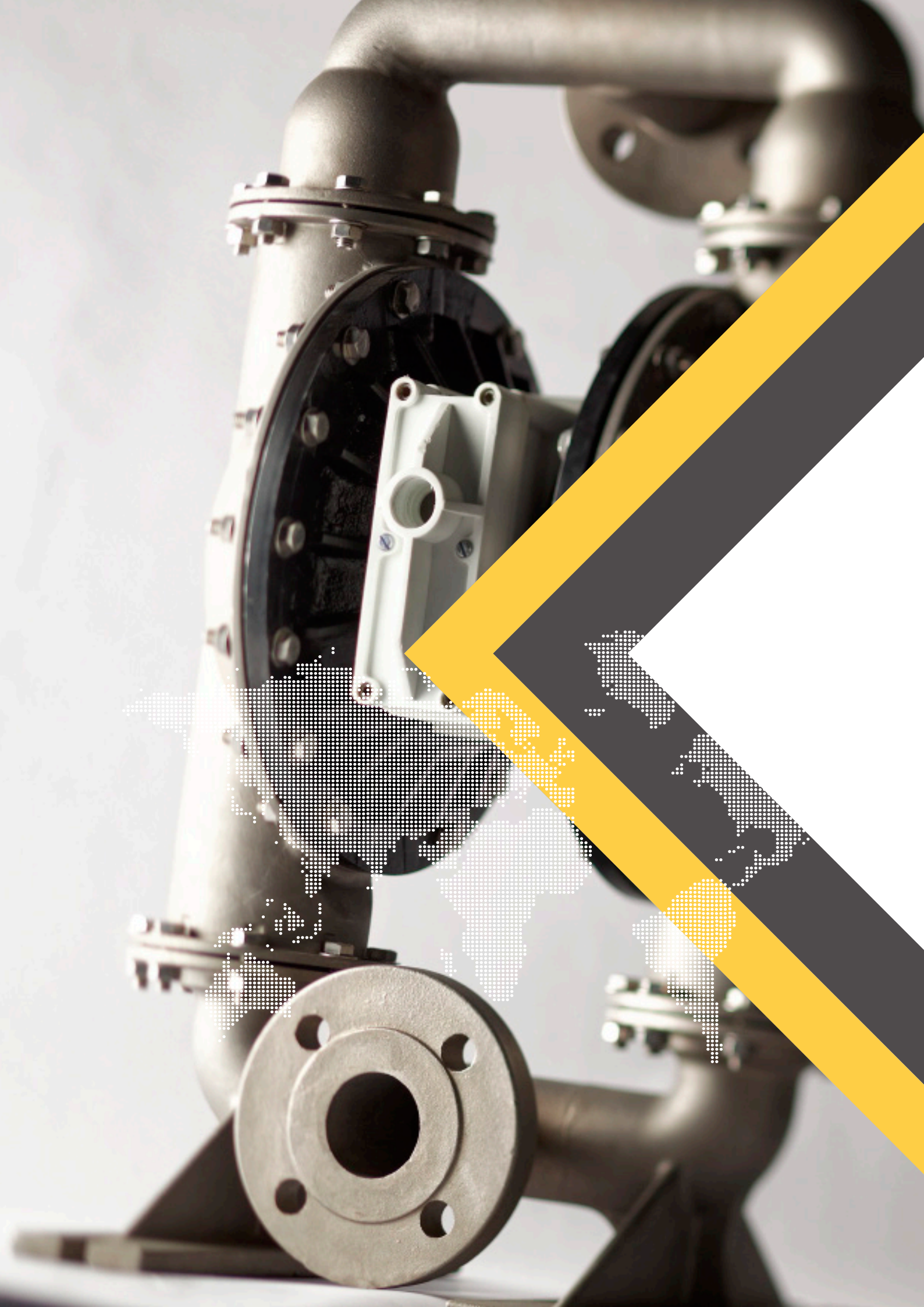
ISO 9001 : 2015
ISO 14001 : 2015





AIR OPERATED DOUBLE DIAPHRAGM PUMPS

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PRICE PUMPS PVT LTD

For over three decades, PRICE Pumps Pvt. Ltd, India's largest manufacturer of air-operated double diaphragm pumps, has been providing the industry experts with the most reliable pumps on the market. PRICE pumps are self-priming, can handle viscous and abrasive products and can run dry without damage. Additionally, they do not employ costly motors, variable speed drives, by-pass plumbing or mechanical seals.

WHY BUY PRICE PUMPS

- No electrical motor - non sparking.
- No mechanical seals or gland packing.
- The pumps can run dry indefinitely without damage.
- Safe for use in hazardous/explosive environments.
- Variable flow - simply regulate the inlet air supply to adjust the pump flow from zero to max.
- If discharge is clogged or closed pump stops immediately; no power consumed, no wear. By opening discharge, flow starts automatically.
- Self-priming from a dry start up to 6 meters without a foot valve.
- Pressure up to 100 PSI (7 bar).
- Operates submerged or with flooded suction.
- No close fitting, sliding or rotating parts so can handle a wide range of fluids with high solid content.
- Gentle non-shearing action.
- Quick assembly and disassembly with split clamp bands.
- Pumps are light weight and portable.

HOW THE PUMP WORKS

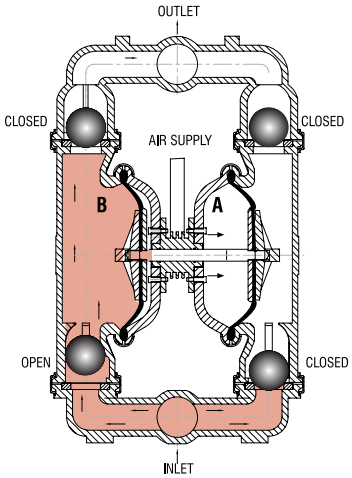


FIGURE 1 (Left Stroke)

The air valve directs pressurized air to the back side of diaphragm A. The compressed air is applied directly to the liquid column separated by elastomeric diaphragms. The diaphragm acts as a separation membrane between the compressed air and liquid, balancing the load and removing mechanical stress from the diaphragm. The compressed air moves the diaphragm away from the center block of the pump. The opposite diaphragm is pulled in by the shaft connected to the pressurized diaphragm. Diaphragm B is on its suction stroke; air behind the diaphragm has been forced out to the atmosphere through the exhaust port of the pump. The movement of diaphragm B toward the center block of the pump creates a vacuum within chamber B. Atmospheric pressure forces fluid into the inlet manifold forcing the inlet valve ball off its seat. Liquid is free to move past the inlet valve ball and fill the liquid chamber (see shaded area).

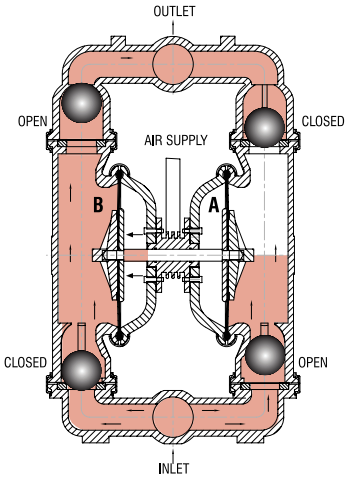


FIGURE 2 (Mid Stroke)

When the pressurized diaphragm, diaphragm A, reaches the limit of its discharge stroke, the air valve redirects pressurized air to the back side of diaphragm B. The pressurized air forces diaphragm B away from the center block while pulling diaphragm A to the center block. Diaphragm B is now on its discharge stroke. Diaphragm B forces the inlet valve ball onto its seat due to the hydraulic forces developed in the liquid chamber and manifold of the pump. These same hydraulic forces lift the discharge valve ball off its seat, while the opposite discharge valve ball is forced onto its seat, forcing fluid to flow through the pump discharge. The movement of diaphragm A toward the center block of the pump creates a vacuum within liquid chamber A. Atmospheric pressure forces fluid into the inlet manifold of the pump. The inlet valve ball is forced off its seat allowing the fluid being pumped to fill the liquid chamber.

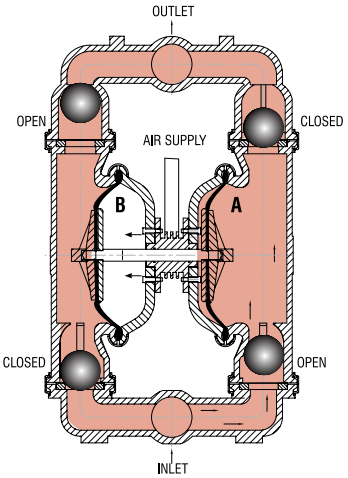


FIGURE 3 (Right Stroke)

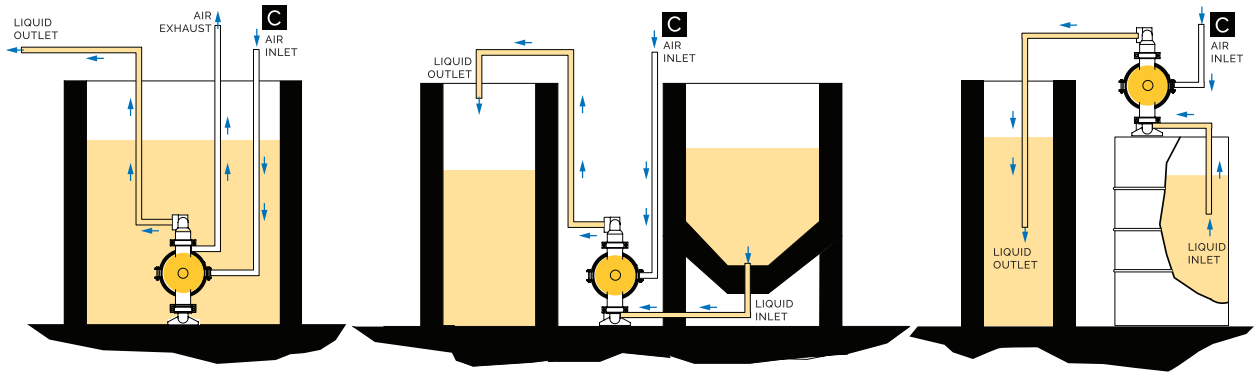
At completion of the stroke, the air valve again redirects air to the back side of diaphragm A, which starts diaphragm B on its exhaust stroke. As the pump reaches its original starting point, each diaphragm has gone through one exhaust and one discharge stroke. This constitutes one complete pumping cycle. The pump may take several cycles to completely prime depending on the conditions of the application.

The PRICE diaphragm pump is an air-operated, positive displacement, self-priming pump.

These drawings show the flow pattern through the pump upon its initial stroke.

It is assumed the pump has no fluid in it prior to its initial stroke.

INSTALLATION VERSATILITY



SUBMERGED

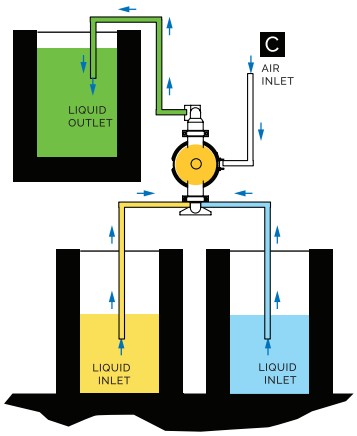
PRICE Pumps are totally submersible. It is important that the air exhaust be ported above the level of the fluid, and that the MOC also be compatible.

POSITIVE SUCTION

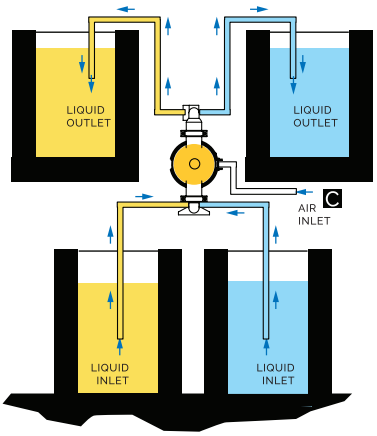
Pumps can draw from the bottom of the vessel. Preferred installation for viscous fluids.

SELF PRIMING/DRUM TRANSFER

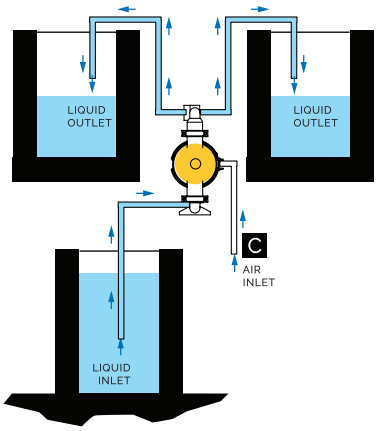
The suction capabilities of each pump may vary due to system design, product being pumped, and pump materials of construction.



MIXING - TWIN SUCTION MANIFOLD



TWIN SUCTION & DELIVERY MANIFOLD



TWIN DELIVERY MANIFOLD

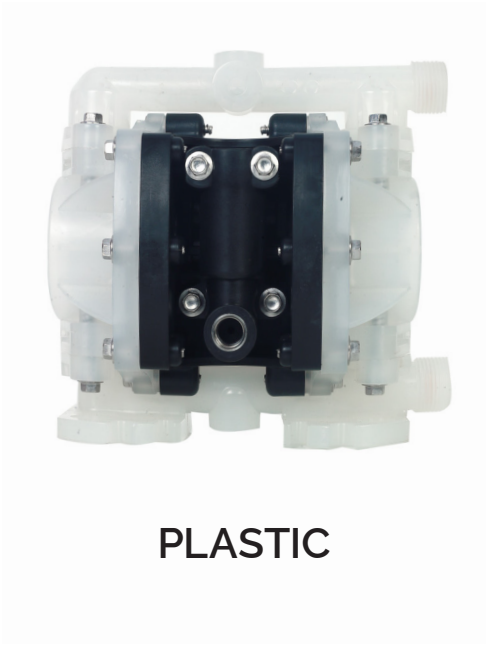




NON METALLIC

AOD 0.25 AF

1/4"

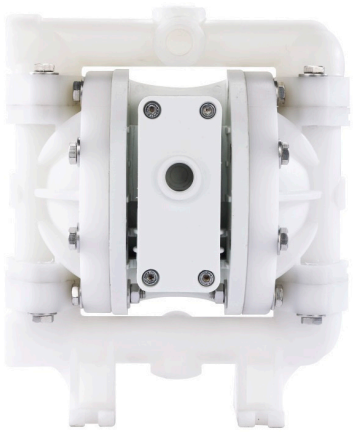


PLASTIC

SPECIFICATIONS	
Height	173 mm (6.8")
Width	117 mm (4.6")
Depth	182 mm (7.2")
Air Inlet Size	6 mm (1/4")
Suction & Discharge Size	1/4" X 1/4" NPT
Pump Body MOC	Polypropylene, PVDF, ETFE
ELASTOMERS	
Diaphragm Materials	PTFE, Buna.
Ball Materials	PTFE.
PERFORMANCE	
Maximum Flow Rate	20 lpm (5.3gpm)
Maximum Particular size	1.6 mm (1/16")

AOD 150 PF

1/2"

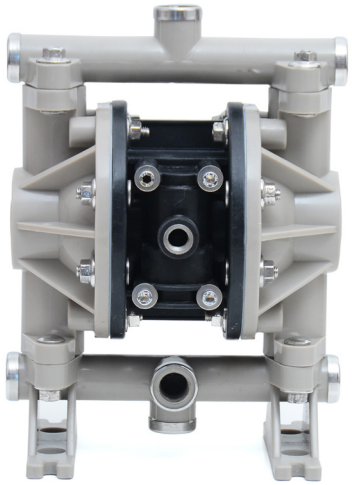


PLASTIC

SPECIFICATIONS	
Height	283.4 mm (11.5")
Width	235 mm (9.25")
Depth	201.3 mm (7.92")
Air Inlet & Air Exhaust Size	6 mm (1/4") X 13 mm 1/2"
Suction & Discharge Size	1/2" X 1/2" NPT / BSP
Pump Body MOC	Polypropylene, PVDF, ETFE
ELASTOMERS	
Diaphragm Materials	Buna, Neoprene, Santoprene™, Hytrel, FKM, EPDM, PTFE, Polyurethane
Ball Materials	PTFE, Neoprene, Santoprene™, FKM, 316SS
PERFORMANCE	
Maximum Flow Rate	58.7 lpm (15.5 gpm)
Maximum Particular size	1.6 mm (1/16")
Suction Dry	3.05 m (10')
Suction Wet	4.89 m (16')

AOD 150 AF

1/2"

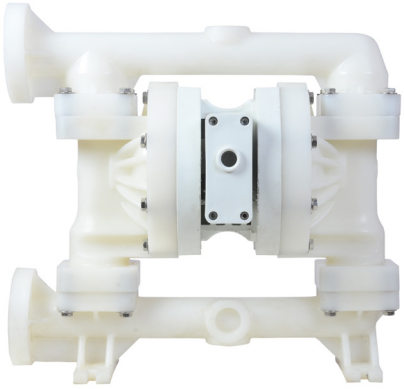


PLASTIC

SPECIFICATIONS	
Height	293.2 mm (11.54")
Width	215.5 mm (8.48")
Depth	165 mm (6.49")
Air Inlet Size	6 mm(1/4")
Suction & Discharge Size	1/2" X 1/2" NPT / BSP
Pump Body MOC	Polypropylene
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene™, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE, Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	49.2 lpm (13 gpm)
Maximum Particular size	2.4 mm (3/32")
Suction Dry	4.5 m (15')

AOD 250 PF

1"

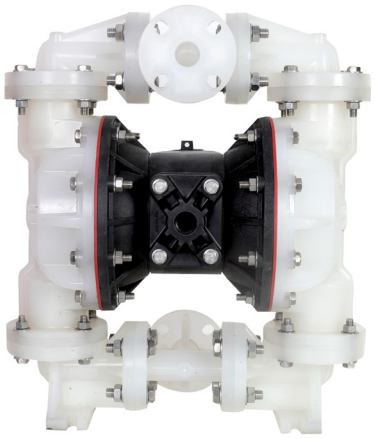


PLASTIC

SPECIFICATIONS	
Height	443 mm (17.44")
Width	457.5 mm (8.01")
Depth	231 mm (9.01)
Air Inlet & Air Exhaust Size	6mm (1/4") X 13mm 1/2"
Suction & Discharge Size	1" X 1" ANSI
Pump Body MOC	Polypropylene, PVDF, ETFE
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene™, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE, Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	220 lpm (58gpm)
Maximum Particular size	4.76 mm (3/16")
Suction Dry	3.6 m (11.9')
Suction Wet	9.1 m (30.0')

AOD 250 SF

1”

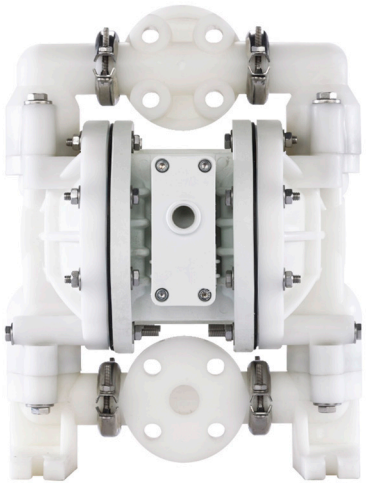


PLASTIC

SPECIFICATIONS	
Height	527 mm (20.75”)
Width	300 mm (11.81”)
Depth	433 mm (17.04)
Air Inlet	6 mm (1/4”)
Suction & Discharge Size	1” X 1” ANSI
Pump Body MOC	Polypropylene, PVDF, ETFE
ELASTOMERS	
Diaphragm Materials	PTFE, Buna, Neoprene, Santoprene™, FKM, Hytrel, EPDM, Polyurethane.
Ball Materials	PTFE, Neoprene, Santoprene™, FKM, SS316
PERFORMANCE	
Maximum Flow Rate	200 lpm (53gpm)
Maximum Particular size	6 mm (0.25”)

AOD 300 PF

1”

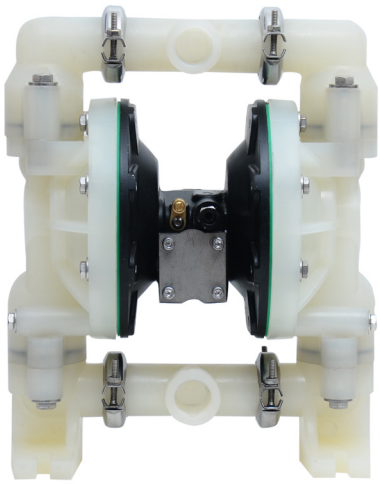


PLASTIC

SPECIFICATIONS	
Height	404.7 mm (15.93”)
Width	314.5 mm (12.38”)
Depth	226.1 mm (8.90”)
Air Inlet & Air Exhaust Size	6 mm (1/4") X 13 mm 1/2"
Suction & Discharge Size	1" X 1" ANSI
Pump Body MOC	Polypropylene, PVDF, ETFE
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE, Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	135 lpm (36 gpm)
Maximum Particular size	3.17 mm (1/8")
Suction Dry	3.05 m (10')
Suction Wet	4.89 m (16')

AOD 300 AF

1”

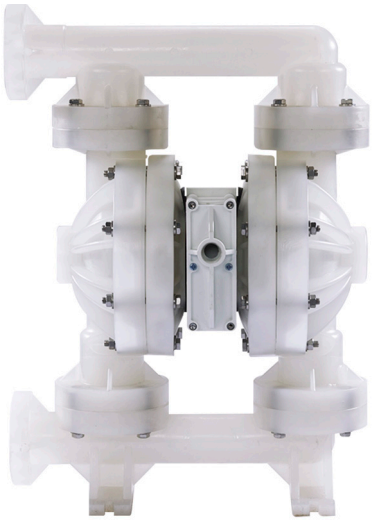


PLASTIC

SPECIFICATIONS	
Height	375.7 mm (14.79”)
Width	313 mm (12.32”)
Depth	204 mm (8.03”)
Air Inlet & Air Exhaust Size	6 mm (1/4") X 9.5 mm (3/8")
Suction & Discharge Size	1" X 1" BSP / NPT
Pump Body MOC	Polypropylene, PVDF, ETFE
ELASTOMERS	
Diaphragm Materials	Buna, Neoprene, Santoprene™, Hytrel, FKM, EPDM, PTFE, Polyurethane
Ball Materials	PTFE, Neoprene, 316SS
PERFORMANCE	
Maximum Flow Rate	135 lpm (36 gpm)
Maximum Particular size	3.17 mm (1/8")
Suction Dry	6.1 m (20')

AOD 400 PF

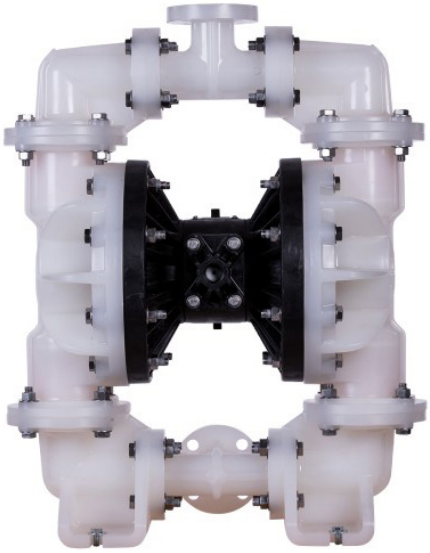
1-1/2”



PLASTIC

SPECIFICATIONS	
Height	667.2 mm (26.26”)
Width	481 mm (18.93”)
Depth	304.4 mm (11.98”)
Air Inlet & Air Exhaust Size	13 mm (1/2") x 19 mm (3/4")
Suction & Discharge Size	1-1/2" X 1-1/2" ANSI
Pump Body MOC	Polypropylene, PVDF, ETFE
ELASTOMERS	
Diaphragm Materials	Buna-N, Neoprene, Santoprene™, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE, Neoprene, Santoprene™, 316SS.
PERFORMANCE	
Maximum Flow Rate	458 lpm (121gpm)
Maximum Particular size	6.4 mm (1/4")
Suction Dry	5.4 m (17.6')
Suction Wet	7.62m (25')

AOD 400 SF



PLASTIC

SPECIFICATIONS	
Height	730 mm (8.75")
Width	330 mm (13.0")
Depth	584 mm (23.0")
Air Inlet Size	13 mm (1/2")
Suction & Discharge Size	1-1/2" X 1-1/2" ANSI
Pump Body MOC	Polypropylene, PVDF, ETFE
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene™, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, Santoprene™, 316SS.
PERFORMANCE	
Maximum Flow Rate	379 lpm (100 gpm)
Maximum Particular size	12 mm (0.47")

AOD 40 PF

1-1/2"



PLASTIC

SPECIFICATIONS	
Height	375.7 mm (14.79")
Width	313 mm (12.32")
Depth	204 mm (8.03")
Air Inlet & Air Exhaust Size	6 mm (1/4") X 9.5 mm (3/8")
Suction & Discharge Size	1-1/2" x 1-1/2" ANSI
Pump Body MOC	Polypropylene
ELASTOMERS	
Diaphragm Materials	Buna, Neoprene, Santoprene™, Hytrel, FKM, EPDM, PTFE, Polyurethane
Ball Materials	PTFE, Neoprene, 316SS
PERFORMANCE	
Maximum Flow Rate	379 lpm (100 gpm)
Maximum Particular size	4.8 mm (3/16")
Suction Dry	5.9 m (19.5')
Suction Wet	8.3 m (27.2')

AOD 40 TF

1-1/2”



PLASTIC

SPECIFICATIONS	
Height	375.7 mm (14.79”)
Width	313 mm (12.32“)
Depth	204 mm (8.03“)
Air Inlet & Air Exhaust Size	6 mm (1/4") X 9.5 mm (3/8")
Suction & Discharge Size	1-1/2” x 1-1/2” ANSI
Pump Body MOC	Polypropylene
ELASTOMERS	
Diaphragm Materials	Buna, Neoprene, Santoprene™, Hytrel, FKM, EPDM, PTFE, Polyurethane
Ball Materials	PTFE, Neoprene, 316SS
PERFORMANCE	
Maximum Flow Rate	379 lpm (100 gpm)
Maximum Particular size	4.8 mm (3/16")
Suction Dry	5.9 m (19.5')
Suction Wet	8.3 m (27.2')

AOD 500 PF

2”



PLASTIC

SPECIFICATIONS	
Height	810.5 mm (31.90”)
Width	614 mm (24.17”)
Depth	416.1 mm (16.38”)
Air Inlet & Air Exhaust Size	13 mm (1/2") x 19 mm (3/4")
Suction & Discharge Size	2" X 2" ANSI
Pump Body MOC	Polypropylene, PVDF, ETFE
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene™, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	709 lpm (187 gpm)
Maximum Particular size	6.4 mm (1/4")
Suction Dry	5.9 m (19.3')
Suction Wet	8.3 m (27.2')

AOD 500 SF

2”



PLASTIC

SPECIFICATIONS	
Height	819 mm (32.25”)
Width	330 mm (13.0”)
Depth	605 mm (23.81”)
Air Inlet Size	13 mm (1/2”)
Suction & Discharge Size	2” X 2” ANSI
Pump Body MOC	Polypropylene, PVDF, ETFE
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene™, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, Santoprene™, 316SS.
PERFORMANCE	
Maximum Flow Rate	605 lpm (160 gpm)
Maximum Particular size	17 mm (0.66”)

AOD 50 PF

2”



PLASTIC

SPECIFICATIONS	
Height	784 mm (30.95”)
Width	499.3 mm (19.67”)
Depth	364 mm (14.33”)
Air Inlet & Air Exhaust Size	13 mm (1/2”) x 19mm (3/4”)
Suction & Discharge Size	2” X 2” ANSI
Pump Body MOC	Polypropylene
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene™, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	620 lpm (164 gpm)
Maximum Particular size	6.4 mm (1/4”)
Suction Dry	6.6 m (21.8’)
Suction Wet	8.3 m (27.2’)

AOD 50 TF

2”

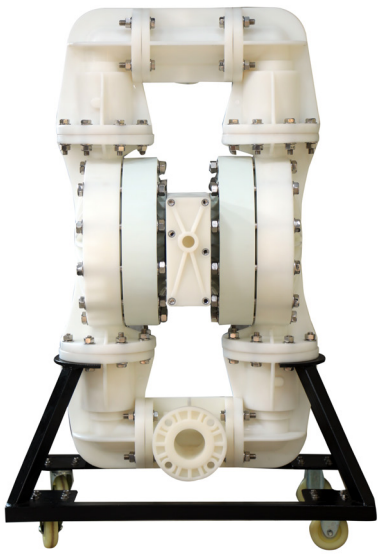


PLASTIC

SPECIFICATIONS	
Height	769.3 mm (30.28”)
Width	504.3 mm (19.85”)
Depth	364 mm (14.33”)
Air Inlet & Air Exhaust Size	19 mm (3/4”) x 19 mm (3/4”)
Suction & Discharge Size	2” X 2” ANSI
Pump Body MOC	Polypropylene
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene™, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	620 lpm (164 gpm)
Maximum Particular size	6.4 mm (1/4”)
Suction Dry	6.6 m (21.8')
Suction Wet	8.3 m (27.2')

AOD 800 PF

3”



PLASTIC

SPECIFICATIONS	
Height	1341.1 mm (52.79“)
Width	915 mm (36.02”)
Depth	526.5 mm (20.72”)
Air Inlet & Air Exhaust Size	13 mm (1/2”) X 25 mm (1”)
Suction & Discharge Size	3” X 3” ANSI
Pump Body MOC	Polypropylene
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene™, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	1024 lpm (271gpm)
Maximum Particular size	12.7 mm (1/2”)
Suction Dry	5.3 m (17.5')
Suction Wet	8.6 m (28.4')

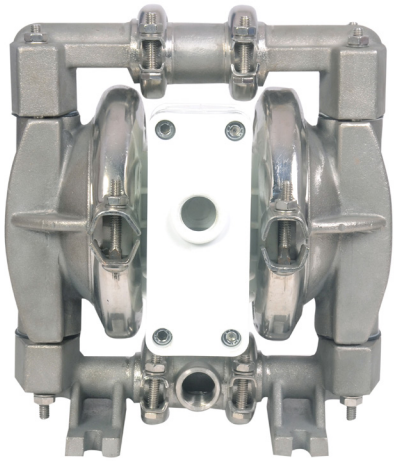




METALLIC

AOD 15 PF

1/2”

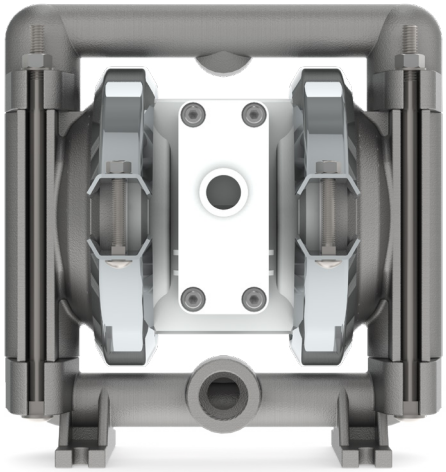


Stainless Steel

SPECIFICATIONS	
Height	239.6 mm (9.43”)
Width	207.2 mm (8.15“)
Depth	209.1 mm (8.23“)
Air Inlet & Air Exhaust Size	6 mm (1/4“) X 13 mm 1/2“
Suction & Discharge Size	1/2“ X 1/2“ NPT / BSP
Pump Body MOC	Stainless Steel
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	60.2 lpm (15.9 gpm)
Maximum Particular size	1.6 mm (1/16“)
Suction Dry	1.45 m (4.7’)
Suction Wet	2.83 m (9.2’)

AOD 25 PF

1”

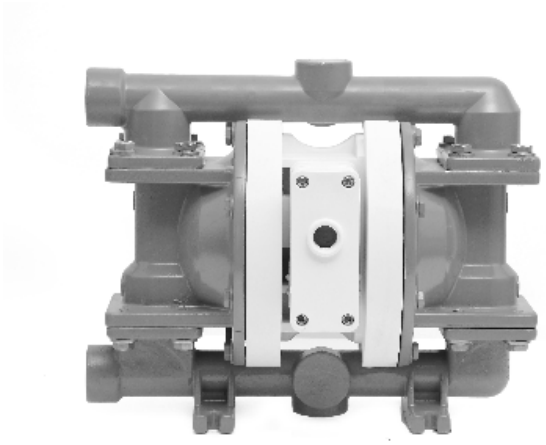


Stainless Steel

SPECIFICATIONS	
Height	274 mm (10.8”)
Width	302 mm (11.9”)
Depth	274 mm (10.8”)
Air Inlet & Air Exhaust Size	6 mm (1/4”) X 13 mm 1/2”
Suction & Discharge Size	1/4” X 1/4” NPT / BSP
Pump Body MOC	Stainless Steel
ELASTOMERS	
Diaphragm Materials	PTFE, Buna, Neoprene, Santoprene™, FKM, Hytrel, EPDM, Polyurethane.
Ball Materials	PTFE, Neoprene, Santoprene™, FKM, SS316
PERFORMANCE	
Maximum Flow Rate	172 lpm (45.5 gpm)
Maximum Particular size	3.2 mm (1/8”)
Suction Dry	5.2 m (17.0’)
Suction Wet	9.0 m (29.5’)

AOD 250 PF

1”



Stainless Steel

SPECIFICATIONS	
Height	284.3 mm (11.19”)
Width	361.6 mm (14.23“)
Depth	298.5 mm (11.72”)
Air Inlet & Air Exhaust Size	6 mm (1/4") X 13 mm (1/2")
Suction & Discharge Size	1" X 1" NPT / BSP
Pump Body MOC	Stainless Steel
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	212 lpm (56 gpm)
Maximum Particular size	6.4 mm (1/4")
Suction Dry	5.9 m (19.3')
Suction Wet	9.0 m (29.5')

AOD 250 SF

1”

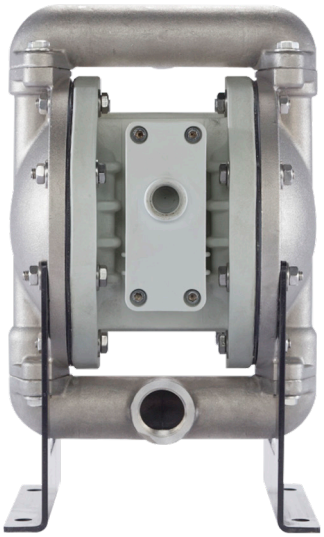


Stainless Steel

SPECIFICATIONS	
Height	669.44 mm (26.36”)
Width	321.44 mm (12.66”)
Depth	432.63 mm (17.03”)
Air Inlet Size	6 mm (1/4”)
Suction & Discharge Size	1" X 1" NPT / BSP
Pump Body MOC	Stainless Steel
ELASTOMERS	
Diaphragm Materials	PTFE, Buna, Neoprene, Santoprene™, FKM, Hytrel, EPDM, Polyurethane.
Ball Materials	PTFE, Neoprene, Santoprene™, FKM, SS316
PERFORMANCE	
Maximum Flow Rate	170 lpm (45 gpm)
Maximum Particular size	6 mm (0.25”)

AOD 300 PF

1”

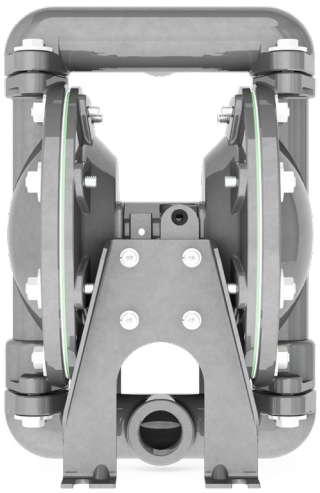


Stainless Steel

SPECIFICATIONS	
Height	358.6 mm (14.11”)
Width	216.5 mm (8.52”)
Depth	228.1 mm (8.98”)
Air Inlet & Air Exhaust Size	6 mm (1/4") X 13 mm 1/2"
Suction & Discharge Size	1" X 1" NPT / BSP
Pump Body MOC	Stainless Steel
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene™, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	135 lpm (36 gpm)
Maximum Particular size	3.17 mm (1/8")
Suction Dry	3.05 m (10')
Suction Wet	4.89 m (16')

AOD 300 AF

1”

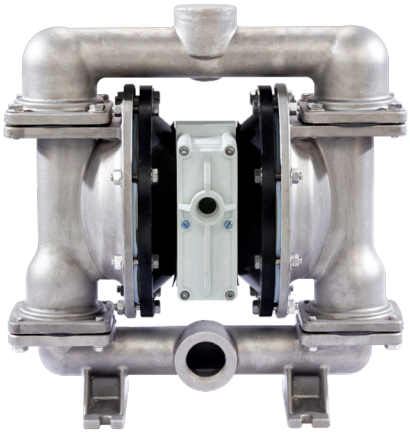


Stainless Steel

SPECIFICATIONS	
Height	315.2 mm (12.40”)
Width	216.5 mm (8.52“)
Depth	208 mm (8.18“)
Air Inlet & Air Exhaust Size	6 mm (1/4") X 9.5 mm (3/8")
Suction & Discharge Size	1" X 1" NPT / BSP
Pump Body MOC	Stainless Steel
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene™, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	133 lpm (35 gpm)
Maximum Particular size	3.2 mm (1/8")
Suction Dry	6.1 m (20')

AOD 400 PF

1-1/2”



Stainless Steel

SPECIFICATIONS	
Height	467.3 mm (18.39“)
Width	440 mm (17.39”)
Depth	299.8 mm (11.80”)
Air Inlet & Air Exhaust Size	13 mm (1/2”) x 19 mm (3/4”)
Suction & Discharge Size	1-1/2” X 1-1/2” NPT / BSP
Pump Body MOC	Stainless Steel
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene™, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	510 lpm (135 gpm)
Maximum Particular size	6.4 mm (1/4”)
Suction Dry	4.57 m (14.9’)
Suction Wet	9.0 m (29.5’)

AOD 400 SF

1-1/2”

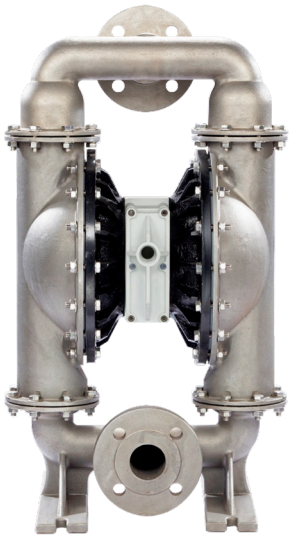


Stainless Steel

SPECIFICATIONS	
Height	552 mm (21.75”)
Width	316 mm (12.43”)
Depth	422 mm (16.63”)
Air Inlet Size	13 mm (1/2”)
Suction & Discharge Size	1-1/2” X 1-1/2” NPT / BSP
Pump Body MOC	Stainless Steel
ELASTOMERS	
Diaphragm Materials	PTFE, Buna, Neoprene, Santoprene™, FKM, Hytrel, EPDM, Polyurethane.
Ball Materials	PTFE, Neoprene, Santoprene™, FKM, SS316
PERFORMANCE	
Maximum Flow Rate	401 lpm (106 gpm)
Maximum Particular size	6 mm (0.25”)

AOD 500 PF

2”

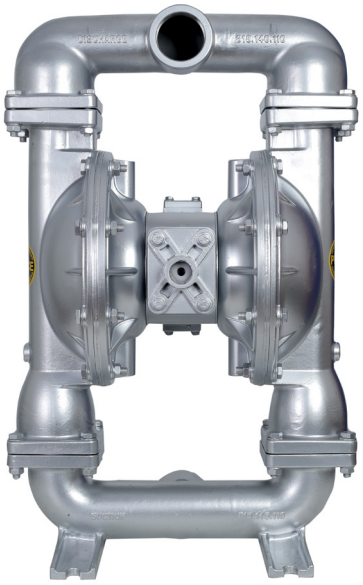


Stainless Steel

SPECIFICATIONS	
Height	716.5 mm (28.20”)
Width	435 mm (17.12”)
Depth	533.1 mm (20.98”)
Air Inlet & Air Exhaust Size	13 mm (1/2”) x 19 mm (3/4”)
Suction & Discharge Size	2” X 2” ANSI
Pump Body MOC	Stainless Steel
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene™, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	685 lpm (181 gpm)
Maximum Particular size	6.4 mm (1/4”)
Suction Dry	4.17 m (13.6’)
Suction Wet	7.12 m (23.5’)

AOD 500 SF

2”

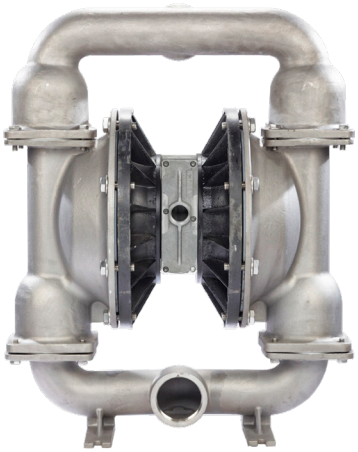


Stainless Steel

SPECIFICATIONS	
Height	668 mm (24.7”)
Width	316 mm (12.4”)
Depth	443 mm (17.4”)
Air Inlet Size	13 mm (1/2”)
Suction & Discharge Size	2” X 2” NPT / BSP
Pump Body MOC	Stainless Steel
ELASTOMERS	
Diaphragm Materials	PTFE, Buna, Neoprene, Santoprene™, FKM, Hytrel, EPDM, Polyurethane.
Ball Materials	PTFE, Neoprene, Santoprene™, FKM, SS316
PERFORMANCE	
Maximum Flow Rate	758 lpm (200 gpm)
Maximum Particular size	6 mm (0.25”)

AOD 800 PF

3”



Stainless Steel

SPECIFICATIONS	
Height	818.8 mm (32.23“)
Width	665 mm (26.18”)
Depth	514.5 mm (20.25”)
Air Inlet & Air Exhaust Size	13 mm (1/2”) X 25 mm (1”)
Suction & Discharge Size	3” X 3” NPT / BSP
Pump Body MOC	Stainless Steel
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene™, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	1026 lpm (271 gpm)
Maximum Particular size	12.7 mm (1/2”)
Suction Dry	6.0 m (19.7')
Suction Wet	8.6 m (28.4')

AOD 800 SF

3”



Stainless Steel

SPECIFICATIONS	
Height	815 mm (32”)
Width	400 mm (15.7”)
Depth	499 mm (19.6”)
Air Inlet Size	13 mm (1/2”)
Suction & Discharge Size	3” X 3” NPT / BSP
Pump Body MOC	Stainless Steel
ELASTOMERS	
Diaphragm Materials	PTFE, Buna, Neoprene, Santoprene™, FKM, Hytrel, EPDM, Polyurethane.
Ball Materials	PTFE, Neoprene, Santoprene™, FKM, SS316
PERFORMANCE	
Maximum Flow Rate	1078 lpm (285 gpm)
Maximum Particular size	9.65 mm (0.38”)

AOD 150 AF

1/2"

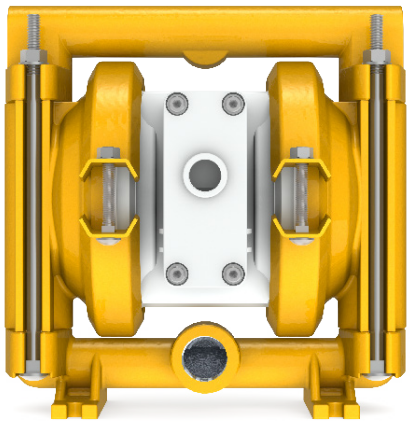


Aluminium

SPECIFICATIONS	
Height	304 mm (11.96")
Width	207 mm (8.14")
Depth	164.9 mm (6.49")
Air Inlet Size	6 mm (1/4")
Suction & Discharge Size	1/2" X 1/2" NPT / BSP
Pump Body MOC	Aluminium
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene™, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	45.4 lpm (12gpm)
Maximum Particular size	2.4 mm (3/32")
Suction Dry	4.5 m (15')

AOD 25 PF

1"

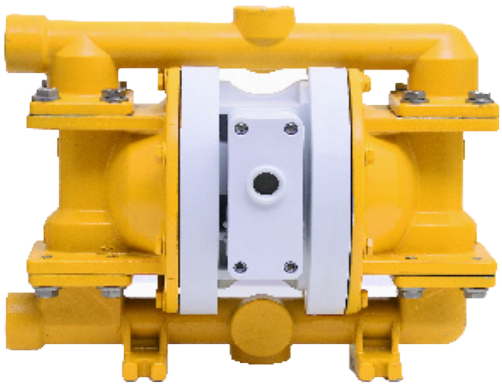


Aluminium

SPECIFICATIONS	
Height	285 mm (11.22")
Width	275.4 mm (10.84")
Depth	245.2 mm (9.65)
Air Inlet & Air Exhaust Size	6 mm (1/4") X 13 mm (1/2")
Suction & Discharge Size	1" X 1" NPT / BSP
Pump Body MOC	Aluminium
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene™, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	167 lpm (44 gpm)
Maximum Particular size	3.2 mm (1/8")
Suction Dry	1.47 m (4.7')
Suction Wet	2.83 m (9.2')

AOD 250 PF

1”



Aluminium

SPECIFICATIONS	
Height	284.3 mm (11.19”)
Width	361.6 mm (14.23”)
Depth	298.5 mm (11.75”)
Air Inlet & Air Exhaust Size	6 mm (1/4”) X 13 mm (1/2”)
Suction & Discharge Size	1” X 1” NPT / BSP
Pump Body MOC	Aluminium
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene™, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	212 lpm (56 gpm)
Maximum Particular size	6.4 mm (1/4”)
Suction Dry	5.9 m (19.3’)
Suction Wet	9.0 m (29.5’)

AOD 250 SF

1”

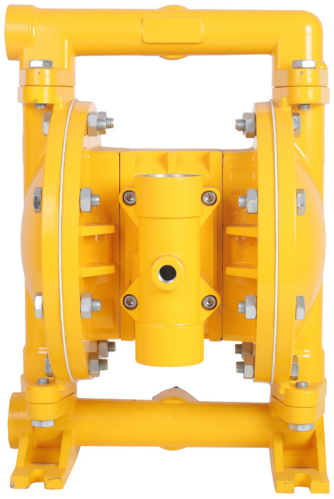


Aluminium

SPECIFICATIONS	
Height	669.44 mm (26.36”)
Width	321.44 mm (12.66”)
Depth	432.63 mm (17.03”)
Air Inlet Size	6 mm (1/4”)
Suction & Discharge Size	1” X 1” NPT / BSP
Pump Body MOC	Aluminium
ELASTOMERS	
Diaphragm Materials	PTFE, Buna, Neoprene, Santoprene™, FKM, Hytrel, EPDM, Polyurethane.
Ball Materials	PTFE, Neoprene, Santoprene™, FKM, SS316
PERFORMANCE	
Maximum Flow Rate	170 lpm (45 gpm)
Maximum Particular size	6 mm (0.25”)

AOD 250 BF

1”



Aluminium

SPECIFICATIONS	
Height	361 mm (14.2”)
Width	219 mm (8.6")
Depth	250 mm (9.8”)
Air Inlet Size	6 mm (1/4”)
Suction & Discharge Size	1" X 1" NPT / BSP
Pump Body MOC	Aluminium
ELASTOMERS	
Diaphragm Materials	PTFE, Buna, Neoprene, Santoprene™, FKM, Hytrel, EPDM, Polyurethane.
Ball Materials	PTFE, Neoprene, Santoprene™, FKM, SS316
PERFORMANCE	
Maximum Flow Rate	191 lpm (50.7 gpm)
Maximum Particular size	3.17 mm (1/8”)

AOD 300 PF

1”



Aluminium

SPECIFICATIONS	
Height	361.1 mm (14.21“)
Width	215 mm (8.46“)
Depth	228.1 mm (8.98”)
Air Inlet & Air Exhaust Size	6mm (1/4") X 13mm 1/2"
Suction & Discharge Size	1" X 1" NPT / BSP
Pump Body MOC	Aluminium
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene™, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	135 lpm (36 gpm)
Maximum Particular size	3.17 mm (1/8")
Suction Dry	3.05 m (10')
Suction Wet	4.89 m (16')

AOD 300 AF

1”



Aluminium

SPECIFICATIONS	
Height	317.7 mm (12.50”)
Width	214 mm (8.42”)
Depth	208 mm (8.18“)
Air Inlet & Air Exhaust Size	6 mm (1/4”) X 9.5 mm (3/8”)
Suction & Discharge Size	1” X 1” NPT / BSP
Pump Body MOC	Aluminium
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene™, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	133 lpm (35 gpm)
Maximum Particular size	3.2 mm (1/8”)
Suction Dry	6.1 m (20’)

AOD 40 PF

1-1/2”



Aluminium

SPECIFICATIONS	
Height	454.4 mm (17.88”)
Width	368.3 mm (14.5”)
Depth	314 mm (12.36”)
Air Inlet & Air Exhaust Size	13 mm (1/2”) x 19 mm (3/4”)
Suction & Discharge Size	1-1/2” X 1-1/4” NPT / BSP
Pump Body MOC	Aluminium
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene™, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	308 lpm (81 gpm)
Maximum Particular size	4.8 mm (3/16”)
Suction Dry	4.75 m (14.9’)
Suction Wet	7.62 m (25’)

AOD 40 TF

1-1/2”



Aluminium

SPECIFICATIONS	
Height	454.4 mm (17.8”)
Width	368.3 mm (14.5”)
Depth	314 mm (12.36”)
Air Inlet Size	6mm (1/4”)
Suction & Discharge Size	1-1/2” X 1-1/2” NPT / BSP
Pump Body MOC	Aluminium
ELASTOMERS	
Diaphragm Materials	PTFE, Buna, Neoprene, Santoprene™, FKM, Hytrel, EPDM, Polyurethane.
Ball Materials	PTFE, Neoprene, Santoprene™, FKM, SS316
PERFORMANCE	
Maximum Flow Rate	308 lpm (81 gpm)
Maximum Particular size	4.8 mm (3.16”)

AOD 50 PF

2”



Aluminium

SPECIFICATIONS	
Height	677.5 mm (26.67”)
Width	421.6 mm (16.59”)
Depth	349 mm (13.74”)
Air Inlet & Air Exhaust Size	13 mm (1/2”) x 19 mm (3/4”)
Suction & Discharge Size	2” X 2” NPT / BSP
Pump Body MOC	Aluminium
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene™, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	681 lpm (180 gpm)
Maximum Particular size	6.4 mm (1/4”)
Suction Dry	4.57 m (14.9’)
Suction Wet	7.62 m (25’)

AOD 50 TF

2”

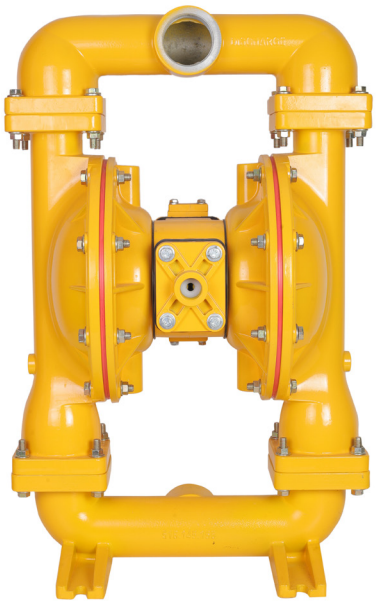


Aluminium

SPECIFICATIONS	
Height	677.5 mm (26.67”)
Width	421.6 mm (16.59”)
Depth	349 mm (13.74”)
Air Inlet Size	6 mm (1/4”)
Suction & Discharge Size	2” X 2” NPT / BSP
Pump Body MOC	Aluminium
ELASTOMERS	
Diaphragm Materials	PTFE, Buna, Neoprene, Santoprene™, FKM, Hytrel, EPDM, Polyurethane.
Ball Materials	PTFE, Neoprene, Santoprene™, FKM, SS316
PERFORMANCE	
Maximum Flow Rate	681 lpm (180 gpm)
Maximum Particular size	6.4 mm (1/4”)

AOD 500 SF

2”



Aluminium

SPECIFICATIONS	
Height	668 mm (24.7”)
Width	316 mm (12.4”)
Depth	443 mm (17.4”)
Air Inlet Size	13 mm (1/2”)
Suction & Discharge Size	2” X 2” NPT / BSP
Pump Body MOC	Aluminium
ELASTOMERS	
Diaphragm Materials	PTFE, Buna, Neoprene, Santoprene™, FKM, Hytrel, EPDM, Polyurethane.
Ball Materials	PTFE, Neoprene, Santoprene™, FKM, SS316
PERFORMANCE	
Maximum Flow Rate	758 lpm (200 gpm)
Maximum Particular size	6 mm (0.25”)

AOD 500 AF

2”

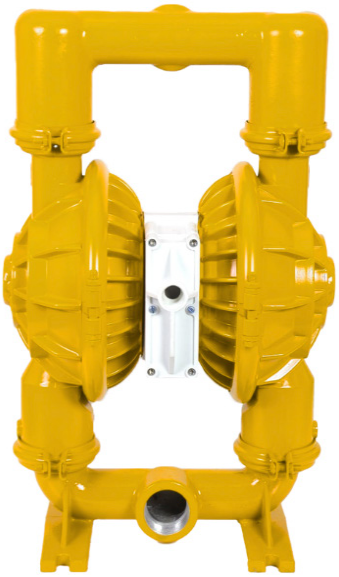


Aluminium

SPECIFICATIONS	
Height	669 mm (26.37”)
Width	330 mm (13”)
Depth	455.1 mm (17.93”)
Air Inlet Size	19.05 mm (3/4”)
Suction & Discharge Size	2” X 2” NPT / BSP
Pump Body MOC	Aluminium
ELASTOMERS	
Diaphragm Materials	PTFE, Buna, Neoprene, Santoprene™, FKM, Hytrel, EPDM, Polyurethane.
Ball Materials	PTFE, Neoprene, Santoprene™, FKM, SS316
PERFORMANCE	
Maximum Flow Rate	651 lpm (172 gpm)
Maximum Particular size	6.4 mm (1/4”)

AOD 80 PF

3”



Aluminium

SPECIFICATIONS	
Height	830.8 mm (32.70”)
Width	511 mm (20.11“)
Depth	523.5 mm (20.61“)
Air Inlet & Air Exhaust Size	13 mm (1/2”) X 25 mm (1”)
Suction & Discharge Size	3” X 3” NPT / BSP
Pump Body MOC	Aluminium
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	900 lpm (238 gpm)
Maximum Particular size	9.5 mm (3/8”)
Suction Dry	6.6 m (21.6’)
Suction Wet	8.6 m (28.4’)

AOD 80 TF

3”



Aluminium

SPECIFICATIONS	
Height	830.8 mm (32.70")
Width	511 mm (20.11")
Depth	523.5 mm (20.61")
Air Inlet Size	13 mm (1/2")
Suction & Discharge Size	3" X 3" NPT / BSP
Pump Body MOC	Aluminium
ELASTOMERS	
Diaphragm Materials	PTFE, Buna, Neoprene, Santoprene™, FKM, Hytrel, EPDM, Polyurethane.
Ball Materials	PTFE, Neoprene, Santoprene™, FKM, SS316
PERFORMANCE	
Maximum Flow Rate	900 lpm (238 gpm)
Maximum Particular size	9.5 mm (3/8")

AOD 800 SF

3”



Aluminium

SPECIFICATIONS	
Height	815 mm (32")
Width	400 mm (15.7")
Depth	499 mm (19.6")
Air Inlet Size	13 mm (1/2")
Suction & Discharge Size	3" X 3" NPT / BSP
Pump Body MOC	Aluminium
ELASTOMERS	
Diaphragm Materials	PTFE, Buna, Neoprene, Santoprene™, FKM, Hytrel, EPDM, Polyurethane.
Ball Materials	PTFE, Neoprene, Santoprene™, FKM, SS316
PERFORMANCE	
Maximum Flow Rate	1078 lpm (285 gpm)
Maximum Particular size	9.65 mm (0.38")

AOD 80 PF

3"

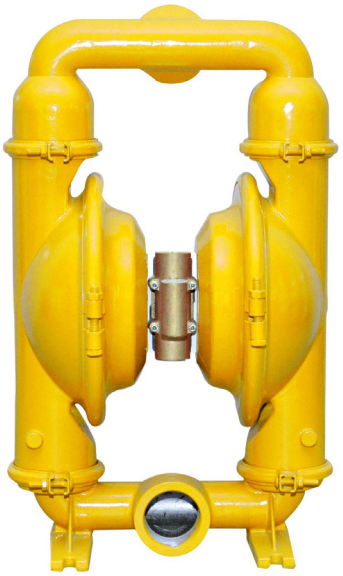


Ductile Iron

SPECIFICATIONS	
Height	831.8 mm (32.74")
Width	510 mm (20.07")
Depth	524.5 mm (20.64)
Air Inlet & Air Exhaust Size	13 mm (1/2") X 25 mm (1")
Suction & Discharge Size	3" X 3" NPT / BSP
Pump Body MOC	Ductile Iron
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	900 lpm (238 gpm)
Maximum Particular size	9.5 mm (3/8")
Suction Dry	6.6 m (21.6')
Suction Wet	8.6 m (28.4')

AOD 80 TF

3"

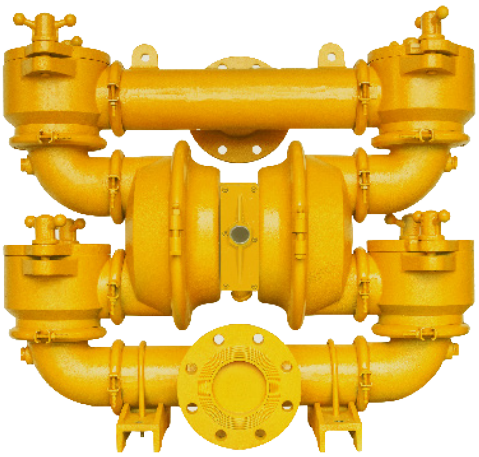


Ductile Iron

SPECIFICATIONS	
Height	842 mm (33.14")
Width	942.5 mm (37. 10")
Depth	524.5 mm (20.64")
Air Inlet & Air Exhaust Size	13 mm (1/2") X 25 mm (1")
Suction & Discharge Size	4" X 4"
Pump Body MOC	Ductile Iron
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	900 lpm (238 gpm)
Maximum Particular size	9.5 mm (3/8")
Suction Dry	6.6 m (21.6')
Suction Wet	8.6 m (28.4')

AOD 100 PF

4”

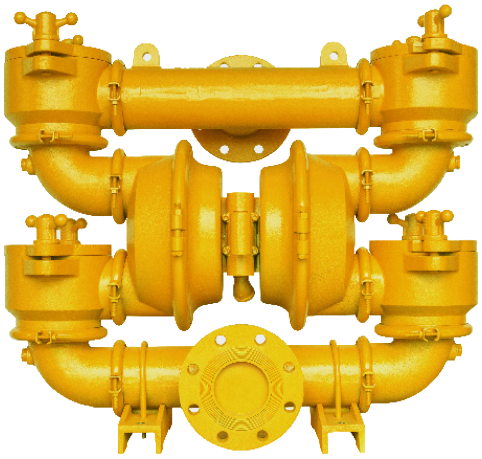


Ductile Iron

SPECIFICATIONS	
Height	842 mm (33.14“)
Width	942.5 mm (37.10”)
Depth	524.5 mm (20.64”)
Air Inlet & Air Exhaust Size	13 mm (1/2”) X 25 mm (1”)
Suction & Discharge Size	4” X 4” ANSI
Pump Body MOC	Ductile Iron
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	1048 lpm (277 gpm)
Maximum Particular size	35 mm (1-3/8”)
Suction Dry	4.1 m (13.5’)
Suction Wet	8.6 m (28.4’)

AOD 100 TF

4”



Ductile Iron

SPECIFICATIONS	
Height	842 mm (33.14”)
Width	942.5 mm (37.10”)
Depth	524.5 mm (20.64”)
Air Inlet & Air Exhaust Size	19 mm (3/4”) X 25 mm (1”)
Suction & Discharge Size	4” X 4” ANSI
Pump Body MOC	Ductile Iron
ELASTOMERS	
Diaphragm Materials	Buna-N,Neoprene, Santoprene, Hytrel, PTFE, Polyurethane.
Ball Materials	PTFE. Neoprene, 316SS.
PERFORMANCE	
Maximum Flow Rate	1048 lpm (277 gpm)
Maximum Particular size	35 mm(1-3/8”)
Suction Dry	4.1 m (13.5’)
Suction Wet	8.6 m (28.4’)



FLAP VALVES

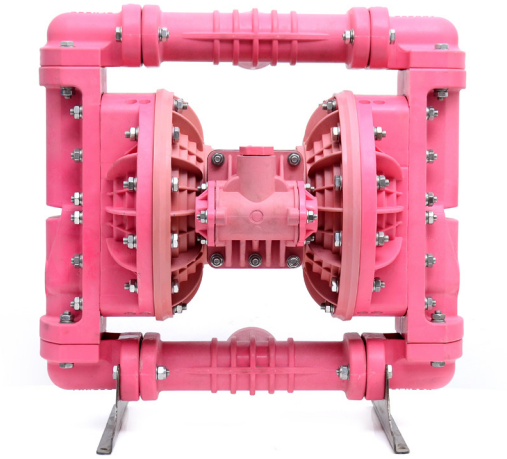
Note: Designed for abrasive, solid-laden & corrosive fludis, & to create an alternative to the heavy maintenance intensive diaphragm pumps that were used predominantly in mines.

- Less down time & maintenance pays for itself
- Dryer mine - Lower indirect costs
- Lower air consumption save on energy costs
- Light weight & less injuries
- Low noise level
- No Pollutants & no need for Lubrication

PLASTIC

A50 FV

2”



PLASTIC

SPECIFICATIONS	
Height	553 mm (21.77")
Width	552.9 mm (21.76")
Depth	332.8 mm (13.10")
Air Inlet & Air Exhaust Size	13 mm (1/2") x 19 mm (3/4")
Suction & Discharge Size	2" X 2" NPT / BSP
Pump Body MOC	Polypropylene
ELASTOMERS	
Diaphragm Materials	Hytrel
Flap Valve Materials	Hytrel
PERFORMANCE	
Maximum Flow Rate	553 lpm (146 gpm)
Maximum Particular size	46 mm
Suction Dry	7 m (24')
Suction Wet	9 m (30.5')

T50 FV

2”



PLASTIC

SPECIFICATIONS

Height	614 mm (24.17")
Width	555.4 mm (21.86")
Depth	364 mm (14.33)
Air Inlet & Air Exhaust Size	19 mm (3/4") x 19 mm (3/4")
Suction & Discharge Size	2” X 2” NPT / BSP
Pump Body MOC	Glass Filled Polypropylene
ELASTOMERS	
Diaphragm Materials	Neoprene
Flap Valve Materials	Neoprene
PERFORMANCE	
Maximum Flow Rate	550 lpm (145.3 gpm)
Maximum Particular size	45 mm (1.77")
Suction Dry	4.5 m (14.76')
Suction Wet	6 m (19.68')

PD 1 [175 in3 (2.87 L)]



SPECIFICATIONS

Body Material	GFPP (Std)	PP*	PVDF
Bladder Material	Neoprene (Std)	EPDM	Viton*
Inlet Size	1.5” (Std)	2”*	(40mm-50mm)
Inlet Type	BSP (Std)	NPT*	Flange*
Max Pressure	150 PSI	10 Bar	
Air Control	Manual	Adjustable	Automatic
Esst Shipping Weight		Approx 8-9 kg	

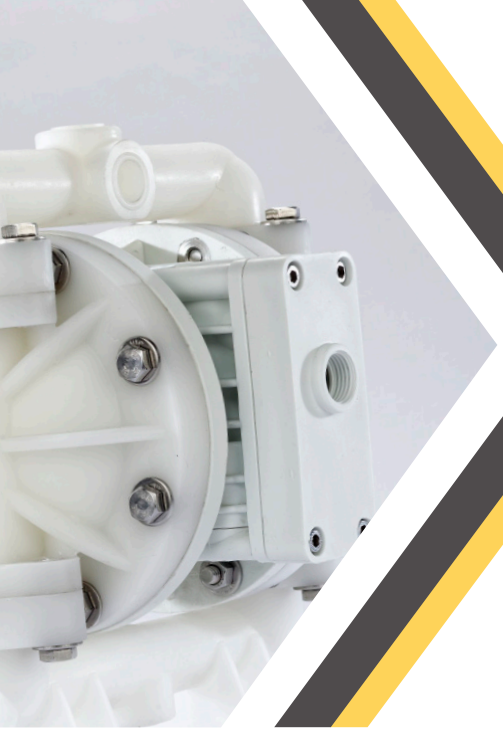
PD 2 [370 in3 (6.06 L)]



SPECIFICATIONS

Body Material	GFPP (Std)	PP*	PVDF
Bladder Material	Neoprene (Std)	EPDM	Viton*
Inlet Size	1.5" (Std)	2"*	(40mm-50mm)
Inlet Type	BSP (Std)	NPT*	Flange*
Max Pressure	150 PSI	10 Bar	
Air Control	Manual	Adjustable	Automatic
Esst Shipping Weight		Approx 10-11 kg	

* These Models are on request. Kindly check for suitable chemical compatability.

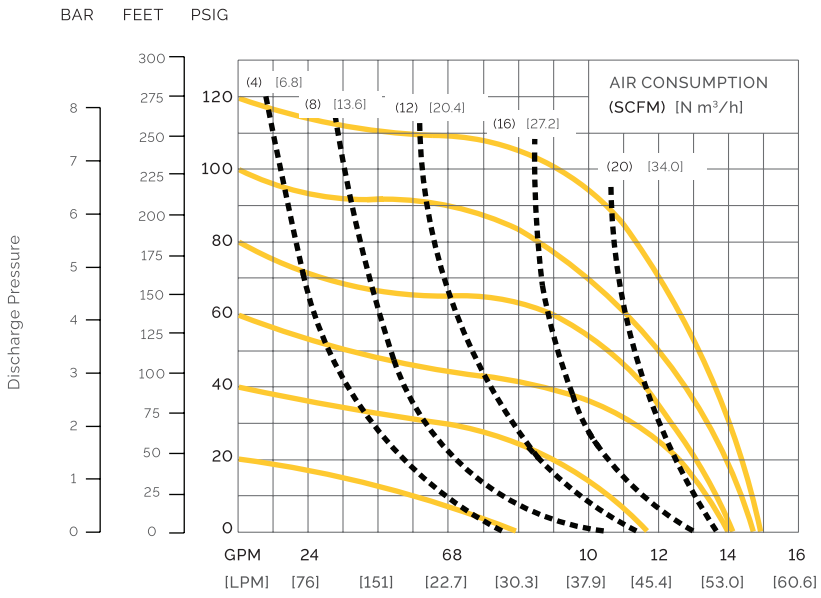


CURVES

How to Read Performance Curves

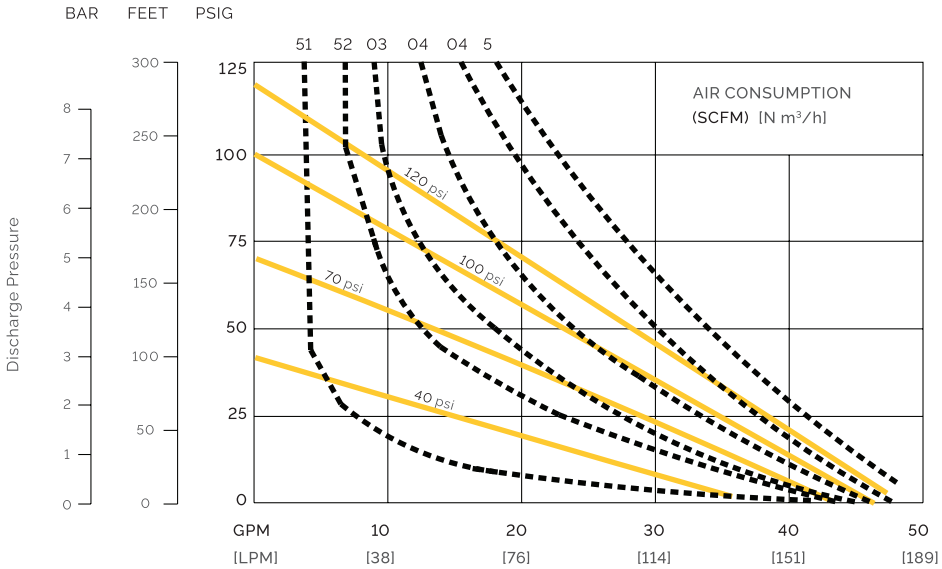
Determine the flow rate you require & determine your discharge head. Plot the intersection of the discharge head on the vertical axis to the flow rate on the horizontal axis. Locate the orange curve closest to this intersection and follow it to the vertical axis to the left. This is the air supply pressure needed to provide the flow rate at the given head. Locate the black dotted curve closest to the intersection & follow it up to where the numbers are provided. This number is the air supply volume needed to provide the flow rate you require at the given head.

AOD 150



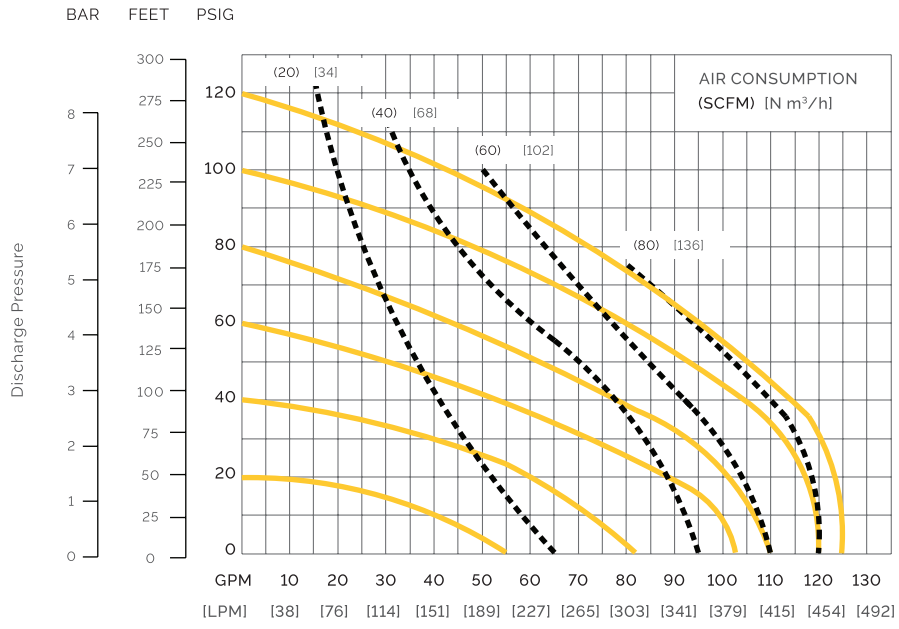
Water Discharge Flow Rates

AOD 300



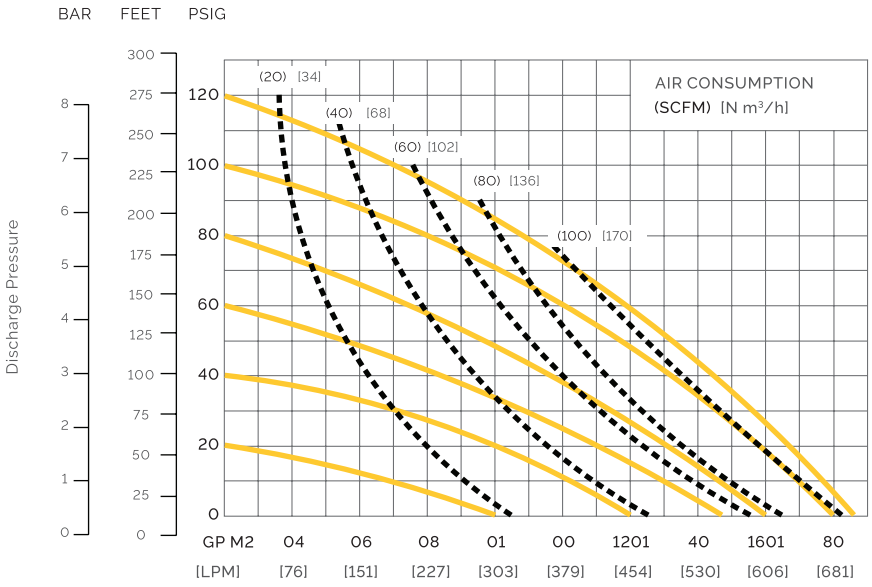
Water Discharge Flow Rates

AOD 400



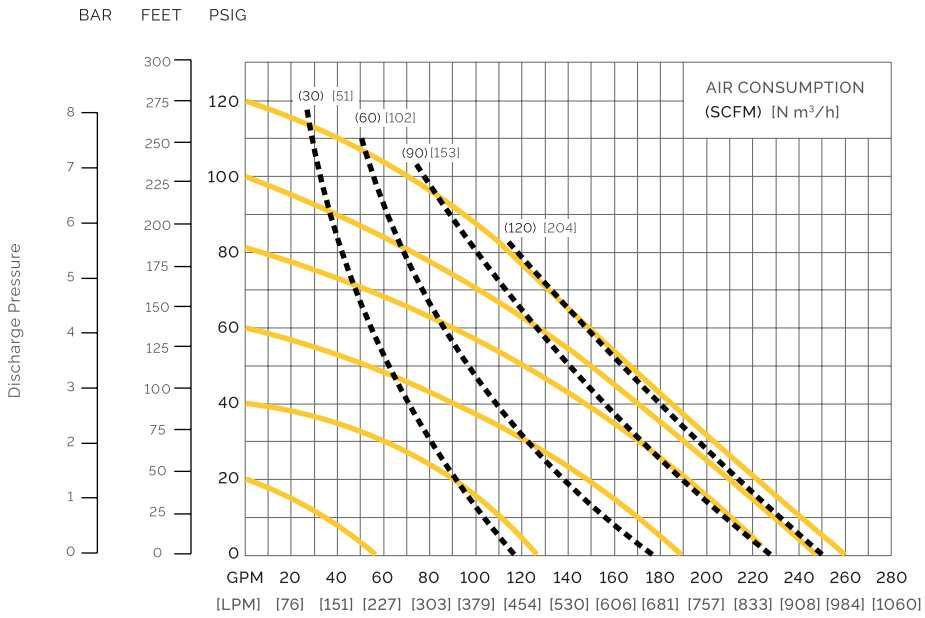
Water Discharge Flow Rates

AOD 500



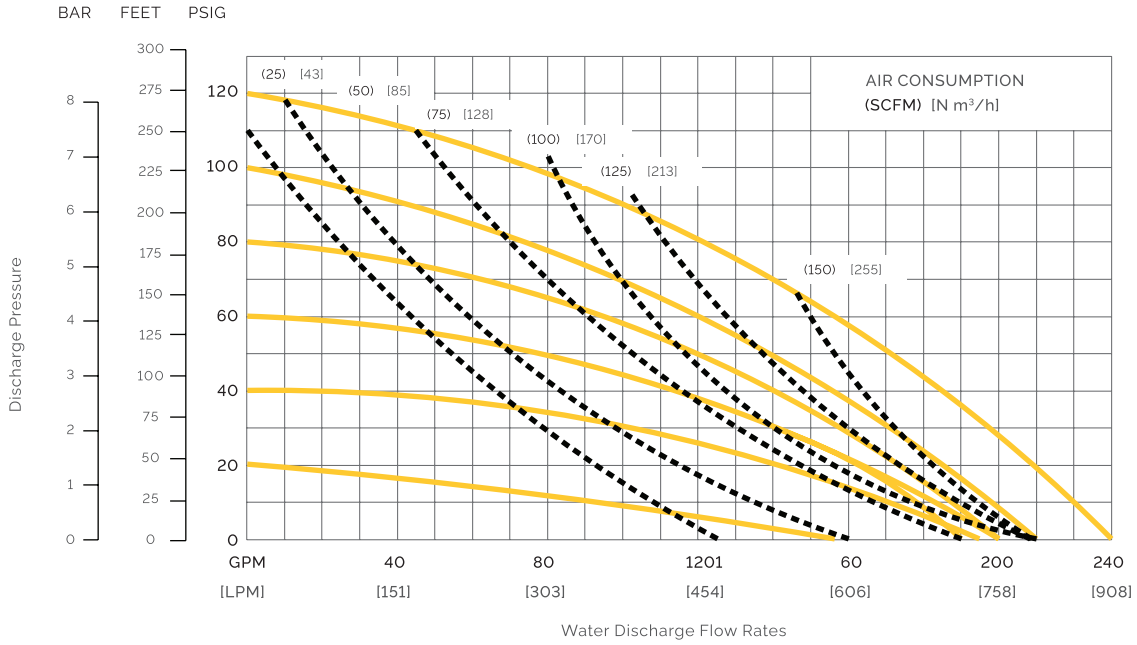
Water Discharge Flow Rates

AOD 800



Water Discharge Flow Rates

AOD 100


BAR
FEET
PSIG
Discharge Pressure
AIR CONSUMPTION
(SCFM) [N m³/h]
(25) [43]
(50) [85]
(75) [128]
(100) [170]
(125) [213]
(150) [255]
GPM
[LPM]
40
[151]
80
[303]
1201
[454]
60
[606]
200
[758]
240
[908]
Water Discharge Flow Rates

WHY BOLTED PUMPS?

Bolted Plastic and Metal Pumps offered by Price Pumps are specifically designed for maximum performance, efficiency and containment. The bolted configuration ensures total product containment while the liquid path reduces internal friction to maximize output and efficiency. Multiple elastomer options are available to meet and exceed your abrasion, temperature and chemical compatibility challenges.

YOUR NEEDS

Performance

Containment

Cost



OUR SOLUTIONS

Advanced Pumps

- Higher flow rates
- Variable flow and pressure
- Shear sensitive
- Intrinsically Safe
- Dry-run capable
- Portable and submersible
- Large solids passage
- High suction lift

Superior Containment

- Leak-free operation
- Superior torque retention
- Unique valve seat design
- Superior finishon sealing surfaces
- Multiple liquid connections available

Enhanced Efficiencies

- Anti-freezing ADS
- Greater Flow per SCFM input
- Low ccost of ownership
- Ease of operation and maintenance

THE RESULTS

Success

- Higher yields
- Increased pump output
- Increased On/Off reliability
- Reduced turbulence
- Reduced internal friction

Containment Ensured

- Leak-free pump operation
- Viscous and Non-viscous product transfer
- Largest chemical compatibilities
- Transfer with confidence

Cost Efficient

- Optimized application
- Reduced air consumption
- Reduced likowatt usage
- Longest Mean Time Between Repair
- Lower operation costs and downtime
- Saves your money

TECH DATA

Sizes	6 mm (1/4") through (3")
Materials	Polypropylene, PVDF, Aluminium, Stainless Steel and Ductile Iron
Material temperatures	For Plastic- Up to 107°C (225°F) For Metal- Up to 177°C (350°F)
Elastomers	Buna-N, Neoprene, Viton, Santoprene, Hytrel, Polyurethane and PTFE.
ADS	Power Flo®, Non-Stalling and Mark 1.

PERFORMANCE DATA

Max flow rates	1024 lpm (271 gpm)
Max suction lift	9.8 m (32.0') Wet, 6.6 m (21.6') Dry
Max disp. per stroke	5.8 L (1.52 gal)
Max discharge pressure	8.6 bar (125 psig)
Max size solids	12.7 mm (1/2")

WHY CLAMPED PUMPS?

Clamped Pumps are designed for rugged utilitarian type of applications that require a robust design and reliability without sacrificing ease of maintenance. Clamped pumps have the largest material and elastomer offerings in the industry to meet your abrasion, temperature and chemical compatibility challenges. The Price Pumps metallic and non metallic pump line lends itself to various processes and waste application.

YOUR NEEDS

Versatility

Reliability

Cost



OUR SOLUTIONS

Original Pumps

- Intrinsically safe
- Self priming
- Variable speed
- Dry run without damage
- Single-point exhaust option
- Widest range of materials and pump sizes in the industry

Dependable

- Decades of proven
- Application success
- Proven air distribution system
- Simplicity of design
- Superior anti-freezing
- Increased On/Off reliability

Low Cost Alternatives

- Low cost
- Simple installation
- Ease of maintenance

THE RESULTS

Success

- Higher yields
- Shear sensitive
- Portability
- Large solids passage
- Strong suction-lift capabilities
- Externally serviceable air valve
- Screen base models available

Utilitarian Solutions

- Viscous and Non-viscous product transfer
- Largest chemical compatibilities
- Longest Mean Time between Repair (MTBR)
- Transfer with confidence

Cost Savings

- Efficient ADS
- Proven track record
- Optimized applications
- Low operational costs and downtime
- Saves your money

TECH DATA

Sizes	13 mm (1/2") through 102 mm (4")
Materials	Polypropylene, PVDF, Aluminium, Stainless Steel and Ductile Iron
Material temperatures	For Plastic- Up to 107°C (225°F) For Metal- Up to 177°C (350°F)
Elastomers	Buna-N, Neoprene, Viton, Santoprene, Hytrel, Polyurethane and PTFE.
ADS	Power Flo®, Non-Stalling and Mark 1.

PERFORMANCE DATA

Max flow rates	643 lpm (170 gpm)
Max suction lift	9.8 m (32.0') Wet, 7.8 m (25.5') Dry
Max disp. per stroke	2.8 L (0.75 gal)
Max discharge pressure	8.6 bar (125 psig)
Max size solids	6.4 mm (1/4")

DIAPHRAGM SELECTION GUIDE



Thermoplastic Elastomer (TPE)

• Thermoplastic elastomers (TPE) are known for their superior abrasion-resistance and durability.

Due to their wide temperature range capabilities and superior flex life, Price Pumps TPE diaphragms are an excellent option for general purpose applications.

• Price Pumps TPE elastomer options available include: Polyurethane, Santoprene®, Hytrel® and Nitrile Buna-N.

Polytetrafluoroethylene (PTFE) Elastomers

Because it is one of the most chemically inert compounds available, PTFE can be used with an extremely wide range of fluids, including highly aggresive fluids. Its properties provide excellent flex life and moderateabrasion resistance, In addition , PTFE complies with FDA 21 CFR 177 and USP Class VI standards for food, beverage and pharmaceutical applications. because PTFE is non-elastic, a backup diaphragm of a different material must be used to provide flexibility and memory. Material options for backup diaphragm are Neoprene, Saniflex, EPDM and high temperature Buna - N.

ELASTOMER TEMPERATURE LIMITS

Rubber	Neoprene	-18˚ to 93˚C [0˚ to 200˚F]
	Buna-N	-12˚ to 82˚C [10˚ to 180˚F]
	EPDM	-51˚ to 138˚C [-60˚ to 280˚F]
	Viton®	-40˚ to 177˚C [-40˚ to 350˚F]
Thermoplastic (TPE)	Polyurethane	-12˚ to 66˚C [10˚ to 150˚F]
	Santoprene™	-40˚ to 107˚C [-40˚ to 225˚F]
	Hytrel®	-29˚ to 104˚C [-20˚ to 220˚F]
PTFE	PTFE	4˚ to 104˚C [40˚ to 220˚F]

Teflon®, Hytrel®, and Viton® are registered trademarks of DuPont Company
Santoprene™ is trademark of ExxonMobil

CAUTION: Maximum temperature limits are based upon mechanical stress only. Certain chemicals will significantly reduce maximum safe operating temperatures. Please verify the chemical resistance limitations of elastomers and all other pump components prior to pump installation. The Price Pumps online Chemical Guide and a Price Pump Distributor should should be in elastomer selection.

Rubber Elastomers

Price Pumps rubber elastomers are specifically engineered to increase chemical resistance, durability and allow for greater temperature spans, making this a general purpose diaphragm well-suited for a wide range of applicatons.

Price Pumps material options available include: Neoprene, Buna -N.

Easy-Flex™ Diaphragm Technology

- The diaphragm's convoluted shape and controlled fabric placement decreases tensile loading to minimize stress concentration. This design reduces internal stress resulting in extremely long diaphragm life.
- Material availability: Neoprene, Buna-N.

HOW TO SELECT YOUR PUMP?

APPLICATION

- What application will the pump be used in?
- What are you pumping?
- Do you need lube-free operation?
- Does the pump need to be submersible?
- What cleaning fluids would be used to clean the pump?
- What are your performance parameters (flow rates, air consumption, viscosities, suction lift)?
- Do you need a pulsation dampener?

AIR DISTRIBUTION SYSTEM (ADS)

- What ADS best suits your application needs?
- How reliable is the ADS?
- How efficient is the ADS?
- Do you need On/Off reliability?

INSTALLATION

- Before installation please read the caution section of te pump manual.
- What are your piping considerations (valves, elbows, pipe friction losses, etc.)?
- Do you have sufficient air pressure and air volume for the pump?
- What is the MTBR (Mean Time Between Repair) of the AODD pump?
- What are your installation parameters (self-priming, positive suction head, high vacum, heat generation, dry-run capable, submersible, large solids passage, variable flow and pressure, shear sensitive)
- Ease of maintenance: is the pump easy to clean, assemble/disassemble?

WETTED MATERIALS

- What media will you be pumping?
- What is the chemical compatibility of the elastomer?
- What are the temperature limits of the wetted material and elastomer?
- How abrasive is the media being pumped?
- Do diaphragm configurations affect flow?

DISTRIBUTORS

- Is your distributor local?
- Can the distributor fully support your fluid transfer needs?
- Are they a full-stocking, full-service distributor?
- How good is delivery? Is it less than 3 weeks?
- Is the distributor formally educated in specifying and maintaining your system?
- How are the services and repair capabilities of the distributors?
- Does the distributor do local training for your staff?
- How responsive is the distributor to your needs?

NOTES

INDUSTRIES SERVED

Automotive Industry: Grinding emulsion, oil, coolant, hydraulic fluid, sulfuric, automotive primer, soluble oil, varnish disposal, varnish additives, degreasing baths, cutting oil, water and glycol mixture paint.

Aviation: Aircraft fueling and drainage, satellite refueling, solid rocket propellant, missile silos.

Beverage Industry: Yeast, diatomaceous earth slurry, hot pulp, liquid hops, sugar syrup, concentrates, gas-liquid mixtures, wine, fruit pulp, fruit juice, corn syrup.

Ceramics: Slip, glaze, enamel slip, effluent, clay, clay slurry, lime slurry, kaolin slurry

Chemical Industry: Acids, alkalies, solvent, suspensions, magnesium hydroxide, varnishes, sump water, resins, latex, adhesives, effluent sludge, stabilizers, filter press, electrolytes.

Construction Industry: Sump and pit drainage, cement slurry, ceramic tile adhesive, rock slurry, ceiling coating paints, texture spray.

Cosmetics: Lotions, creams, shampoos, emulsions, hand creams, surfactants, hair permanents, soaps.

Electronics Industry: Solvents, electroplating baths, ultrapure liquids, carrier fluids for ultrasonic washing, sulfuric, nitric and acid wastes, etching acids, MEK, acetone, polishing compounds.

Food: Brine, chocolate, vinegar, molasses, dog food, vegetable oil, soy bean oil, honey, cat food, HCL, animal blood.

Furniture Industry: Adhesives, varnishes, dispersions, solvents, stains, Elmer's glue, white good glue, solvents, glue(5-6000 cps) epoxy, starch adhesives, spray packages.

Mining: Sump gallery drainage, water drainage, coal sludge and rock slurry, cement slurry, grounting mortar, oil transfer, explosive slurry, adhesive, lube oil, foaming.

Textile & Carpet: Dyeing chemical, scotch guard, starch and sizing, resins, dyes, latex.

Paints & Coatings: Resins, solvemts, acrylic, wood preservative stain, concrete paints, varnishes, titanium dioxide slurry, primers, stains, dispersions, varnish cleaning baths, alkalyd resin.

Pharmaceutical Industry: Vegetables extracts, tablet pastes, oinments, alcohols, filtering aids, ultra filtration, blood plasma, waste solvents, sump waste.

Plating: Anodic sludge, electroplating baths, varnishes, enamels, solvents, cleaning baths, filtering.

Pulp/Paper/packaging: Latex, adhesives, paints, resins, printing inks, dispersions, Ti02 slurry, Kaolin clay, hydrogen peroxide.

Refineries: Tank roof drainage, oil sludge, tank cleaning, tank moat drainage, portable pumping.

Road Tanker Trucks: Loading and draining of tank by means of pump on vehicle, tank vehicle washing facilities, acid spraying, foaming.

Shipbuilding: Tank and bilge drainage, ship cleaning, stripping, oil skimming, seawater.

Smelters, Foundries & Dye Casting: Metal slurry, hydroxide and carbide slurry, dust scrubbing slurry, back wash for flushing of cores, mold release.

Municipalities: Tank and sump drainage, sewer cleaning, chemicals, contaminated surface water, emergency pumping, spill clean-up, waste oil, oil/water separators.

Utility: Contaminated liquids, charging of scrubbers, milk of lime, transformer oil, resins.

Water and Sewage Treatment: Milk of lime, thin slurry, effluents, chemicals, charging of filter presses, polymer, waste water.



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Air Operated Double Diaphragm Pumps

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