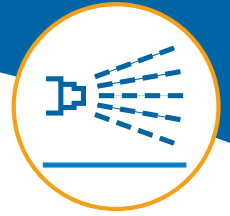


Nordson Diaphragm Pumps



A complete range of diaphragm pumps and accessories to accommodate a variety of liquid painting applications.

Nordson offers a complete line of liquid diaphragm pumps that are designed to maximize efficiency, compatibility and economy in many applications. Our diaphragm pumps are engineered for low-pressure applications and can handle even the most abrasive or shear-sensitive materials. These self-priming pumps run at variable flow rates controlled by air pressure or fluid back pressure regulation.

Available in various sizes and flow rates, Nordson diaphragm pumps provide high performance in a complete range of liquid applications – from manual spray guns to full paint kitchens.

Features and Benefits

- **Higher productivity** – the combination of maximized flow rates and minimized pulsation and air consumption optimize performance.
- **Highly versatile** – multiple porting capabilities allow pump customization to meet specific application needs.
- **Extreme reliability** – lube-free air valves provide worry-free operation.
- **Environmentally sound** – bolted construction in conjunction with wetted material options provides maximum chemical and leak resistance.
- **Easy serviceability** – modular construction, reduced parts count and repair kits minimize downtime and costs.

Coating Compatibility

- **Solvent-based**
- **Water-based**
- **High Solids**
- **UV Curable**
- **Abrasive Materials**
- **Plural Component**



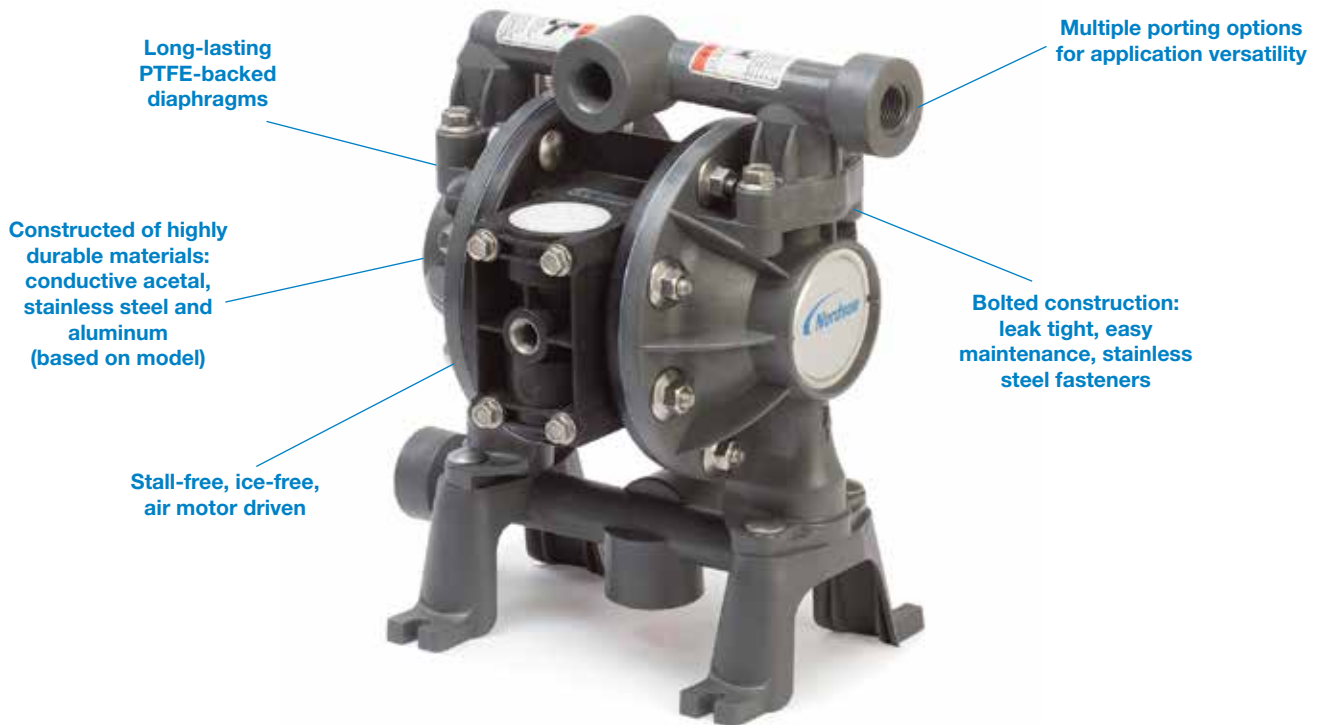
Nordson Diaphragm Pump Family

Application Versatility

Nordson diaphragm pumps can be used with a variety of application equipment:

- Air Spray Guns
- LVLP (low volume, low pressure) Guns
- HVLP (high volume, low pressure) Guns
- Trilogy™ Air Spray/HVLP Electrostatic Gun
- RA-20 Rotary Atomizer
- Optimix™ I Plural Component Dispensing System



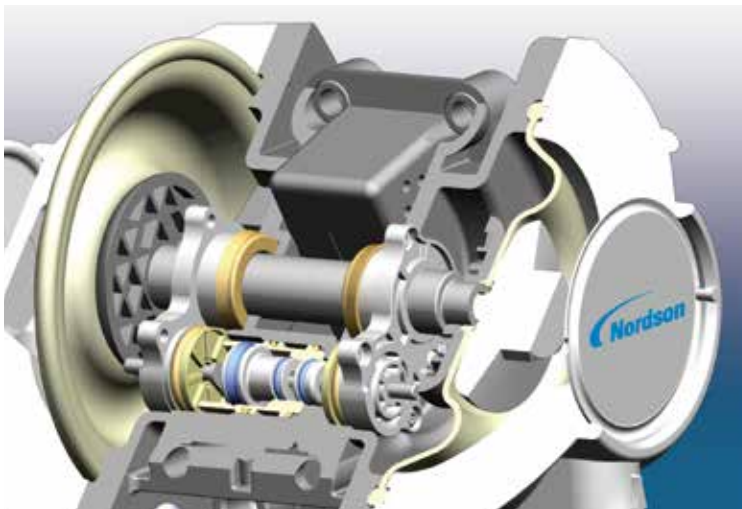


Designed for High-Performing, Reliable Operation

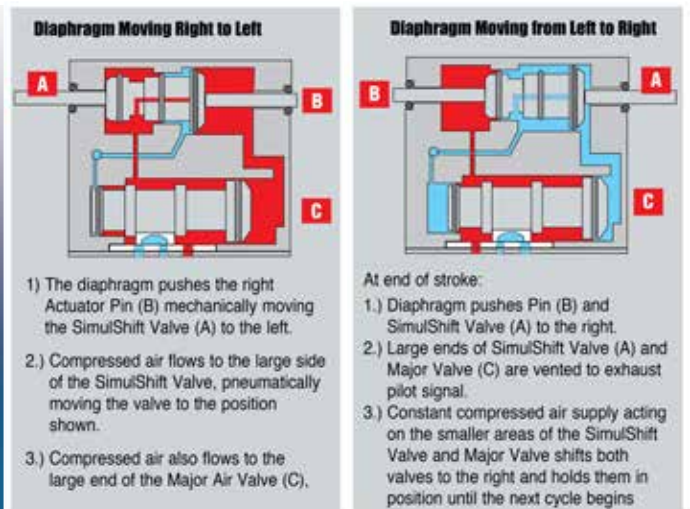
Nordson liquid diaphragm pumps incorporate design features that provide simple, reliable operation. Their unbalanced valve design eliminates valve centering and pump stall-out, even under low air inlet pressure. Other air valve benefits include:

- Provides an ultra-positive, reliable shift signal that avoids stall-out
- Allows optimum energy efficiency while avoiding costly air leakage
- Ceramic construction enhances service life
- Fast valve shifting for minimal wink and superior material flow

Air Valve Operation



Cutaway of the 3/8" and 1/2" models



Diaphragm Pumps

															
Part Number	1604628	1604629	1604630	1604631	1604635	1604633	1604637	1604587	1604589	1604588	1604590	1610584	1610585	1610586	1610587
Size	1/4"	3/8"		1/2"		1/2"		1"		1"		1/2"	1/2"	1/2"	1"
Fluid Inlet/Outlet Thread Size	1/4 NPTF/BSPT Hybrid	3/8 NPT	3/8 BSP	1/2 NPT	1/2 BSP	1/2 NPT	1/2 BSP	1 NPT	1 BSP	1 NPT	1 BSP	1/2 NPT	1/2 NPT	1/2 NPT	1/2 NPT
Wetted Parts	Conductive Acetal				Stainless Steel			Aluminum		Stainless Steel		Conductive Acetal	Stainless Steel	Aluminum	Stainless Steel
Ball Material	PTFE	Stainless Steel													
Seat Material	Acetal	Stainless Steel													
Diaphragm Material	PTFE faced Santoprene														
Maximum Flow gpm (lpm)	5.3 (20)	10.6 (40.1)	14.4 (54.5)		12 (45.4)		35 (133)				7 (26.5)	7 (26.5)	13 (49.2)	26 (98.4)	
Displacement per Cycle gal (ltr)	.019 (0.72)	.022 (.083)	.039 (.15)		.039 (.15)		.16 (.60)				0.022 (0.08)	0.022 (0.08)	0.04 (0.15)	0.006 (0.23)	
Air Inlet	1/4 NPT											1/4 NPT	1/4 NPT	3/8 NPT	
Maximum Operating Pressure psi (bar)	125 (8.6)	100 (6.9)	100 (6.9)		100 (6.9)		120 (8.3)				100 (6.9)	100 (6.9)	100 (6.9)	300 (20.4)	
Weight lbs (kgs)	3.52 (1.6)	4.26 (1.93)	6.67 (3.03)		14.25 (6.46)		19 (8.6)	36 (16.3)			14.6 (6.6)	8.8 (4.0)	8.04 (3.65)	94.7 (43)	
Maximum Dry Suction Lift ft (m)	--	9.25 (2.8)	15.0 (4.5)		15.0 (4.5)		20 (6.1)				8 (2.4)	8 (2.4)	8 (2.4)	6 (1.8)	
Air Line Kit	1604726														
Wall Mount Kit	1604729	1604730	1604729				1604732				--				
Wall Mount Siphon Hose Kit - Pail	1604731	1604772	1604735				--								
Wall Mount Siphon Hose Kit - Drum	1604736	1604737	1604738				1604739				--				
Air Section Service Kit	1604580	1604567				1604586				1611126	1611126	1604567	1610589		
Fluid Section Service Kit	1604582	1604584	1604579				1604577				1610591	1610591	1604579	1610588	
Ball and Seat Service Kit	1604581	1604583	1604578				1604576				1610592	1610592	1604578	1604576	



Fluid Regulators

Part Number	Description	Type	Port size (NPT)	Base Housing Material	Seat Material	Regulated Pressure Range PSI (bar)	MAX Inlet Pressure PSI (bar)	Gauge Pressure Range	Rebuild Kit PN	Diaphragm Kit PN	Ball and Seat Kit PN
1604640	REG, 3/8, 30-200PSI, DWNSTRM	Downstream	3/8"	Stainless Steel	Tungsten Carbide	30-200 (2-14)	1250 (86)	0-300 (0-20)	1604642	1604638	1604643
1604752	REG, 1/4IN, 5-125, DWNSTRM	Downstream	1/4"	Zinc	Tungsten Carbide	5-125 (.3-8.5)	750 (51.7)	---	1604759	--	--
1604748	REG, 3/8IN, 0-200PSI, BKPRS	Backpressure	3/8"	Stainless Steel	Tungsten Carbide	0-200 (0-13.8)	1250 (86)	0-300 (0-20)	1604757	1604638	1604636
1604750	REG, 3/8IN, 0-800PSI, BKPRS	Backpressure	3/8"	Stainless Steel	Tungsten Carbide	0-800 (0-55.2)	1250 (86)	0-1000 (0-70)			
1604751	REG, 1.25, 0-200PSI, BKPRS	Backpressure	1-1/4"	Stainless Steel	Tungsten Carbide	0-200 (0-13.8)	200 (13.8)	0-300 (0-20)			

Fluid regulators provide consistent pressure regulation, even during significant fluctuations in line pressure. An easy turn adjustment is used to set pressure.

A Variety of Accessories to Meet Any Application

Air Line Kit

Part No.	Description
1604726	KIT, 1/4IN NPT AIR LINE

The air line kit is used with all diaphragm pump sizes to provide regulated and filtered air. The kit includes: 5 feet of air hose with 1/4" NPT male connector, an industrial style quick disconnect coupling, filter/regulator, and pipe nipple.



Wall Mount Siphon Hose

Part No.	Description
1604731	HOSE, SIPHON, 5G, 1/4 AODD
1604772	HOSE, SIPHON, 5G, 3/8 AODD
1604735	HOSE, SIPHON, 5G, 1/2 AODD
1604736	HOSE, SIPHON, 55G, 1/4 AODD
1604737	HOSE, SIPHON, 55G, 3/8 AODD
1604738	HOSE, SIPHON, 55G, 1/2 AODD
1604739	HOSE, SIPHON, 55G, 1 AODD

Siphon Hoses are used when pumping from an open container or a day tank cover. Includes intake screen and 5 feet of hose. Threads are NPT, and are the size shown in the description.



Container Mount Siphon Tube

Part No.	Description
1604733	TUBE, SIPHON, 5G, 1/4 AODD
1604734	TUBE, SIPHON, 5G, 3/8 AODD
1604771	TUBE, SIPHON, 5G, 1/2 AODD
1604767	TUBE, SIPHON, 55G, 3/8 AODD
1604768	TUBE, SIPHON, 55G, 1/2 AODD
1604769	TUBE, SIPHON, 55G, 1 AODD

Siphon tubes are stainless steel, and are used with container mounted configurations. Threads are NPT, and are the size shown in the description.



Single Post Lift

Part No.	Description
1604723	LIFT, SINGLE POST

The single post lift provides an easy solution to perform a drum change. The lift is mounted to the floor. Compressed air is used to raise and lower the drum cover during a container change.



Tank Mount Adapter

Part No.	Description
1604747	ADAPTER, TANK MNT1/2 AODD

The tank adapter allows a 1/2" pump to be mounted on any type of material container. It requires a bulkhead type mounting. Nuts and bolts included. Siphon tube is not included.



Wall Mount Brackets

Part No.	Description
1604729	BRKT, WALL MNT, 1/4,1/2 AODD
1604730	BRKT, WALL MNT, 3/8 AODD
1604732	BRKT, WALL MNT, 1 AODD

Wall mount brackets are made of heavy gage coated steel. Pump mounting hardware included. Use for pump size shown in the description.



Container Covers

Part No.	Description
1604740	COVER, 5G, 1/4 AODD
1604741	COVER, 5G, 3/8 AODD
1604742	COVER, 5G, 1/2 AODD
1604727	COVER, 5G, DAY TANK
1604744	COVER, 55G, 3/8 AODD
1604745	COVER, 55G, 1/2 AODD
1604746	COVER, 55G, 1 AODD
1604728	COVER, 55G, DAY TANK

Container covers are stainless steel and will accommodate both diaphragm pump, siphon tube, and agitator mounting. Mounting fasteners are included; siphon tube is ordered separately. Day tank covers include a port to insert a siphon hose, and do not have a pump mount. 5G covers have a diameter of 12" (305 mm). 55G covers have a diameter of 24 7/8" (632 mm). Use for pump size shown in the description.



Material Agitators

Part No.	Description
1604724	AGITATOR, 5-GALLON
1604725	AGITATOR, 55-GALLON

Each agitator is provided complete with propellers and a pneumatic needle valve for speed adjustment. Pail agitators operate at 500-1000 rpm, drum agitators operate at 300-3000 rpm. Agitator shafts and propellers are made of 316 stainless steel.



Bung Mount Adapter

Part No.	Description
1604749	MOUNT, 55G BUNG, 1/2 AODD

The drum adapter allows a 1/2" diaphragm pump to mount directly to and siphon from the 2" NPSM drum bung. Supplied with siphon tube and mounting nuts and bolts.

Diaphragm Pump Pail System

Part No.	Description
1604623	SYSTEM, PAIL, 3/8NPT, AODD

The pail system comes complete with a 3/8" diaphragm pump, agitator, fluid filter, pump air regulator, atomizing air regulator, and pail. Fluid outlet is 3/8" NPT, air inlet is 1/4 NPT.



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