Industrial Pumping Equipment Air-Operated Diaphragm Pumps







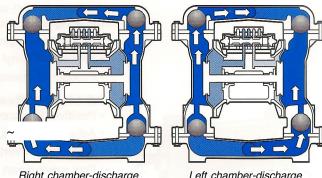




1f4" - 2" Air-Operated Pumps

Basic Design Features

Diaphragm pumps are driven by compressed air. The directional air distribution valve and pilot valvethe "air end"-are located in the center section of the pump. Liquid moves through two manifolds and outer chambers of the pump-the "wet end". Generally, check valves are located at the top and bottom of each outer chamber or on a common manifold. The two outer chambers are connected by suction and discharge manifolds.



Right chamber-discharge Left chamber-suction

Left chamber-discharge Right chamber-suction

Lincoln's double diaphragm self-priming design offers many advantages over other pumps.

- Pump abrasive and sheer-sensitive materials. Low interval velocities move abrasives easily with no damage. Gentle pumping action does not sheer fragile materials.
- · Pumps viscous materials. Even heavy or solids-laden materials can be pumped.
- · Environmentally friendly. No motors, seals or packing to leak.
- · Self-priming. Able to dry prime under most suction lift or flooded suction conditions.
- · Variable flow. Regulate the inlet air supply to adjust flow.
- · Runs dry without damage.
- Deadheads against closed discharge. Excessive back pressure stops operation without damage until discharge opens. Eliminates bypass systems or relief valves.
- · Explosion-proof. Eliminates sparking concerns of other electrical or rotating pumps.

WARNING

The pump exhaust should be piped to an area for safe disposal of product being pumped in the event of a diaphragm failure.

1:1 Air-Operated Diaphragm Pump Line

Model Number	Pump Description	Pump Body	Wetted or Soft Parts	Pump Inlet/Outlet NPT	Max. Free Delivery GPM	Air Inlet NPT(F)	Max. Rec. Inlet Air Pressure	Max. Susp. Solids	Application
85630	%"	Polyprop	PTFE	%"/%"	4	;;""	100 psi	%2"	New oil, AF, windshield washer
85631	8"	Aluminum	Buna-N	%"1%"	15	}411	100 psi	Ys"	New/used oil, AF
85632	%"	Aluminum	Teflon®	%"1%"	15	iiii	100 psi	Ys"	New oil, AF
85633	Y2"	Aluminum	Hytrel	Yz" / Yz"	15	;;""	100 psi	Ye"	New oil
85622	Yzll	Polyprop	Santoprene	Yzll / Yz" *	14	;;""	100 psi	YaH	High abrasion materials
85623	Yzll	Polyprop	Teflon®	Yz" / Yz" *	14	;;""	100 psi	Yet	New oil, AF
85626	Yz"	Polyprop	Buna-N	YzH / Yz" *	14	%"	100 psi	Yet	New oil, AF
85629	1 ^w	Aluminum	Hytrel	1"/ 1"	45	%"	125 psi	;;""	New oil
85628	1"	Aluminum	Teflon®	1"/ 1"	45	Yz"	125 psi	%"	New oil, AF
85627	1 1 10	Aluminum	Buna-N	1"/ 1"	45	%"	125 psi	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	New/used oil, AF
85621	1%"	Aluminum	Buna-N	1%" 11%"	106	0/,,"	125 psi	;;""	New/used oil, AF
85624	2"	Aluminum	Buna-N	2"/2"	150	0/,,"	125 psi	%"	New/used oil, AF

Dual Inlet

85636	8"	Aluminum	Buna-N	Yz" / Yz"	15	%"	125 psi	1;8"	AF/Water
85637	Yz"	Polyprop	Buna-N	Yz" / Yz'l	14	}411	100 psi	Ys"	AF/Water
85639	1"	Polyprop	Buna-N	1"ANSI**	45	8"	100 psi	ii II.	AF/Water
85638	1"	Aluminum	Buna-N	1"/ 1"	42	ફ "	125 psi	%"	AF/Water

^{*}Can be converted to dual 112" outlet. ** 85639 requires 275631 Adapter and 275632 Seal Kit for Pipe Thread installations