



Double Diaphragm Series



The DDP Series is a high pressure, air-driven diaphragm pump, ideal for fluid transfer. They are corrosion-resistant, self-priming, self-cleaning, portable and inherently explosion proof. Surge suppressor is available when smooth flow is required. See Accessories, page 34 and price list for other DDP Series accessories.

DDP SERIES SPECIFICATIONS

Double diaphragm pumps operate by the movement of two flexible diaphragms which move back and forth, alternately filling and emptying two chambers. Diaphragms do have a pulsating flow and are best used with a Graymills surge suppressor/filter. Flow is controlled with the air inlet valve, which then determines pump speed. Graymills DDP pumps are self-priming with a dry lift capability ranging from 16' to 18' and a maximum flow rate of 40 GPM. Operates on standard air service.

1. The unique "slide-valve" design prevents stalling even when running at the lowest speeds.
2. Pump is designed for easy maintenance with a minimum number of parts. The air valve assembly is externally serviceable (no need to dismantle pump).
3. For applications requiring controlled flow rates from a trickle to 40 gallons per minute.
4. Air operation is inherently explosion proof.
5. No air line lubrication is necessary (1/4", 1/2", 1" only).
6. Self-priming with the ability to pump liquids containing small solids.

MATERIALS:

DDP 1/4", 1/2", 1" Models

Pump Body: DDP 1/4", 1/2", Polypropylene
DDP 1", Polypropylene or Aluminum

Diaphragms: 1/4", Teflon
1/2" & 1", Teflon or Hytrel.

Ball Check Valves: Teflon or Hytrel.

Wetted Components: Polypropylene, Teflon or Hytrel

DDP 3/4" Model

Pump Body: Black DuPont Teflon® coated aluminum.

Diaphragms: Teflon.

Ball Check Valves: Delrin or stainless steel.*

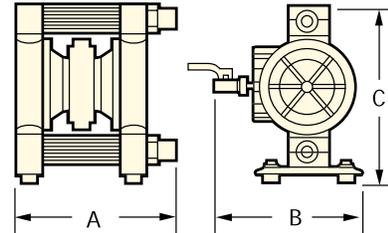
Wetted Metal Components: Stainless steel.

*3/4" Models with standard Delrin ball checks handle viscosities up to 1100 CPS; with optional stainless steel ball checks, 2250 CPS.

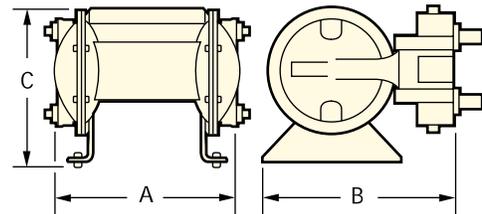
AIR OPERATED DOUBLE DIAPHRAGM TRANSFER PUMP MODEL DPTG-50-DRUM

- Features 1-in/1-out pump with Teflon or Hytrel diaphragms and bottom suction manifold.
- Quick priming and immediate flow. Runs dry without damage.
- Handles fluid viscosities up to 5,000 CPS and solids up to 0.09 inches.
- Pump slides in and out of drums through bung adapter without the need to disconnect hoses.
- Pump is never immersed inside the drum.

DDP



1/4", 1/2", 1" Models



3/4" Models

MODEL	A	B	C
1/4"	6 ⁷ / ₃₂ "	6 ¹ / ₂ "	5 ¹³ / ₁₆ "
1/2"	8 ⁷ / ₈ "	9 ⁵ / ₃₂ "	11 ³ / ₄ "
3/4"	10"	10 ¹ / ₄ "	9"
1"	13 ⁷ / ₃₂ "	13 ³ / ₈ "	17"

DDP ORDER INFORMATION

	MODEL			
	1/4"	1/2"	3/4"	1"
Dry Lift Capability	10 ft.	15 ft.	18 ft.	18 ft.
Total Developed Head	150 ft.	150 ft.	231 ft.	150 ft.
Air Consumption@70 PSI	7 CFM	18 CFM	10 CFM	30 CFM
Maximum Flow	5 GPM	15 GPM	12 GPM	40 GPM
Air Inlet (NPT-F)	1/4"	1/4"	1/8"	1/2"
Maximum Inlet Pressure	100 PSI	100 PSI	100 PSI	100 PSI
Estimated Diaphragm Life (Millions of Cycles)				
Hytrel	N/A	15	N/A	7
Teflon	30	15	45	10
Maximum Viscosity (Centipoise)	500	5,000	2,250*	10,000
Inlet/Outlet Options				
1 Inlet/1 Outlet	✓	✓	✓	✓
1 Inlet/2 Outlets			✓	

*3/4" Models with standard Delrin ball checks handle viscosities up to 1100 CPS; with optional stainless steel ball checks, 2250 CPS.