

Low Pressure Poly Pumps

LOW PRESSURE POLY DIAPHRAGM PUMP FEATURES:

- All fluid end components are polypropylene and 316 stainless steel, offering amazing reliability and service for even the most aggressive chemicals including acid and highly corrosive products.
- John Blue self-lubricating cast iron piston sleeves provide a unique “oil-thrust-pad” design.
- Bronze connecting rods and diaphragms constructed from resistant elastomers provide economical and trouble free service.
- The heads are designed with a new patented technology that includes an aluminum die-cast core inside a polypropylene structure offering superior strength.
- Pre-deformed diaphragms in a specially formulated chemical resistant material, 316 stainless steel washer and diaphragm bolt offer strength and resistance to chemical attack.
- Pre-deformed diaphragm allows for reduced deflection and longer life.
- Two, three, four, five and six piston semi-hydraulic Diaphragm Pumps assure a smooth and quiet operation even with high volume flow.
- Reduced piston stroke decreases diaphragm deflection providing long life operation.
- Other benefits of Poly Pumps include low maintenance costs and interchangeability of heads, diaphragms and associated components across most of the Poly Pump line.
- Convenient visual oil-level indicator.
- Pumps can be run dry.
- Individual suction and pressure manifolds for smoother flow through the pump.

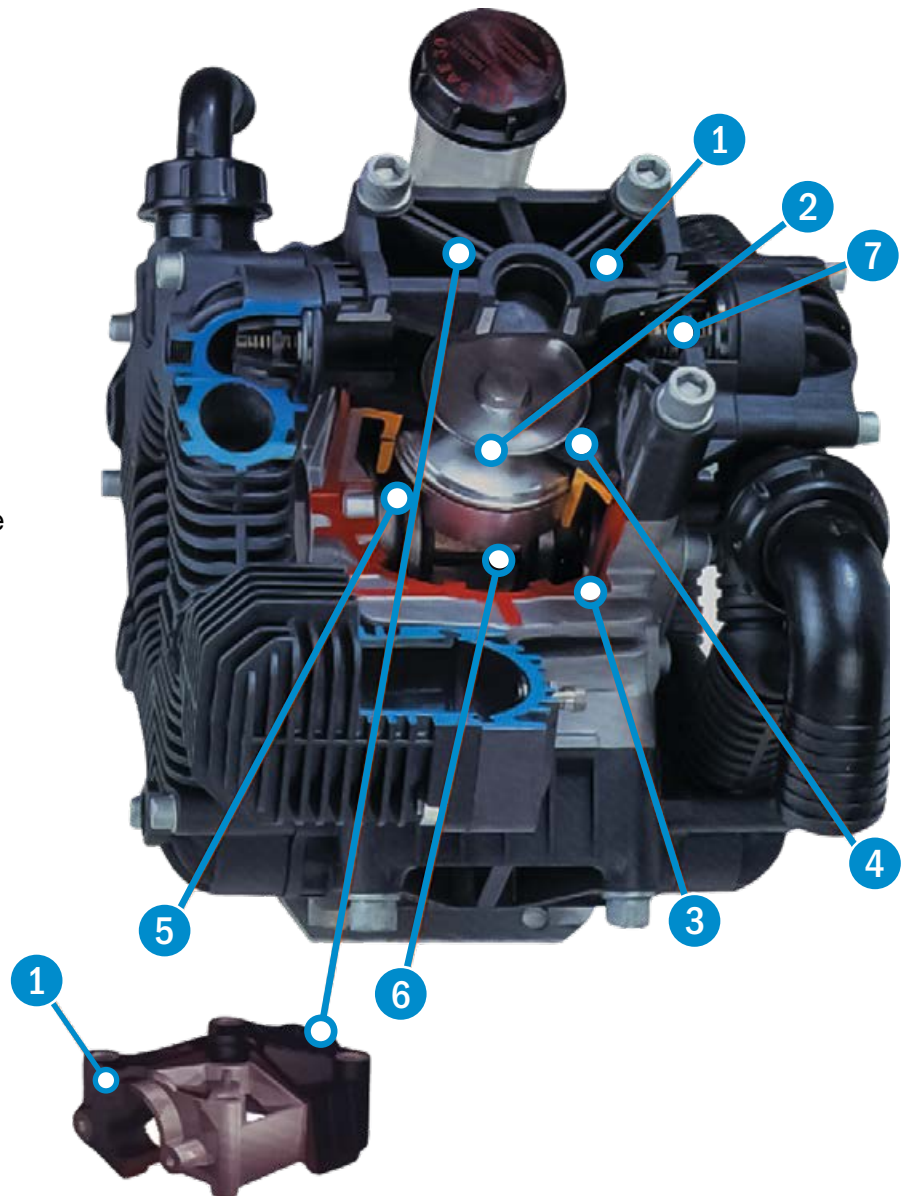


Low Pressure Poly Pumps

LOW-PRESSURE POLY DIAPHRAM PUMPS

EXCLUSIVE, PATENTED TECHNOLOGY:

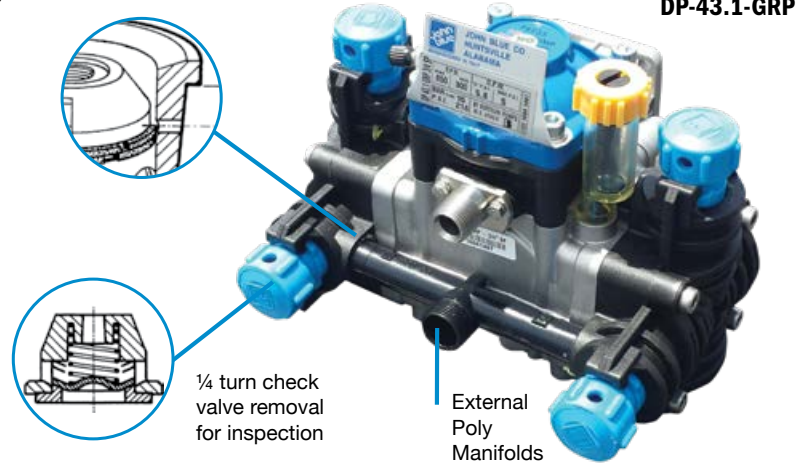
- Pumps come standard with internal pressure dampener.
 - Standard, interchangeable parts for reduced inventory and best service.
 - Full range: 2,3,4,5,6 diaphragms available.
1. The heads are designed with a patented technology that includes an aluminum die-cast core inside a polypropylene structure offering superior strength.
 2. Washers and diaphragm bolts in 316 stainless steel, an exclusive feature.
 3. Die cast crankcase incorporating a new cooling system.
 4. New chemically resistant diaphragm material pre-deformed to reduce the amount of deflection, increasing diaphragm life. The diaphragm material is compatible with most of the corrosive chemicals on the market today.
 5. A short crankshaft stroke means the longest life possible.
 6. New connecting rods in special bronze alloy offer economical and trouble free service.
 7. 316 stainless steel and polypropylene inlet and outlet check valves.



Low Pressure Poly Pumps

ADVANTAGES OF LOW PRESSURE POLY DIAPHRAGM PUMPS

- » Low Pressure Diaphragm Pumps operate to 4.3 GPM with pressure ratings to 290 PSI
- » Cast iron piston sleeves for longer wear
- » Convenient visual oil-level indicator
- » Stainless steel check valve design ensures perfect sealing performance due to its unique spherical shaped poppet and conical seat
- » Three bearings on the crankshaft
- » Pumps can be run dry



DP-43-FP

Maximum Flow: 4.3 GPM @ 550 RPM and 290 PSI
 Maximum Pressure: 290 PSI
 Maximum Speed: 650 RPM
 Maximum Power: 1.0 HP @ 550 RPM and 290 PSI
 Weight: 13 lbs
 Diaphragms: 2
 Suction Hose Diameter: 3/4" Hose
 Discharge Hose Diameter: 1/2" NPT
 Max Temperature: 140°F
 Lubricating Oil Type: 30 SAE
 Can be PTO, gasoline engine or electric motor driven

Recommended Accessories:

- Pressure Regulator: SC-1066-2.
- Gearbox for 3.5 and 5 HP engines: DP-321009.
- Pump equipped with crankshaft flange, must order shaft separately: DP-318793 (3/4") solid shaft or DP-318590 (1") solid shaft.

Optional Accessories:

DP-310088 Female 1 3/8" shaft kit
DP-310049 Male 1 3/8" shaft kit
DP-31874897 Hydraulic adaptor kit SAE "B"

DP-43 Performance - RPM

Pressure	500		550		600		650	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP
29	4.38	.09	4.8	0.10	5.28	1.1	5.73	0.13
145	4.0	.48	4.38	0.52	4.78	0.57	5.1	0.60
218	3.96	.71	4.3	0.78	4.73	0.85	5.07	0.90
290	3.93	.94	4.3	1.0	4.7	1.13	5.0	1.2

Optional Models:

DP- 43.1-GRIP

DP-43.1-GRIP2.2

DP-43-P

DP-43.1-GRP

All Available in Poly

Poly Pump includes gearbox for 3.5 and 5 HP engines and regulator with (2) outlets and shut-off valve.

Poly Pump includes gearbox for 2.2 HP Honda engine with and regulator with (2) outlets and shut-off valve.

Mini Poly Pump - total chemical resistance to harsh chemicals and fertilizers. Has 3/4" solid shaft.

Mini Poly Pump includes gearbox for 3.5 and 5 HP engines, does not include a regulator. Poly Pump guarantees total chemical resistance to harsh chemicals and fertilizers.



Mini Poly Pumps have total chemical resistance to harsh chemicals and fertilizers.

Low Pressure Poly Pumps

DP-70-FP



DP-70-FP

Maximum Flow: 6.0 GPM @ 550 RPM and 290 PSI

Maximum Pressure: 290 PSI

Maximum Speed: 650 RPM

Maximum Power: 1.4 HP @ 550 RPM and 290 PSI

Weight: 13 lbs

Diaphragms: 2

Suction Hose Diameter: 1" hose

Discharge Hose Diameter: 3/4" npt

Max Temperature: 140° F

Lubricating Oil Type: 30 SAE

Can be PTO, gasoline engine or electric motor driven

Recommended Accessories:

- Pressure Regulator: SC-1132-2.
- Gearbox for 5 HP engines: DP-321009.
- DP-318793 (3/4") or DP-318590 (1") solid shaft.



SC-1132-2

Optional Accessories:

- DP-310088** Female 1 3/8" shaft kit
- DP-310049** Male 1 3/8" shaft kit
- DP-31874897** Hydraulic adaptor kit SAE "B"
- DP-94994297** Repair Kit
- DP-94994497** Valve Kit

Optional Models:

All Available in Poly

- DP- 70.1-GRIP** Poly Pump includes gearbox for 3.5 and 5 HP engines and regulator with (2) outlets and shut-off valve.
- DP-70-P** Total chemical resistance to harsh chemicals and fertilizers. Has 3/4" solid shaft.
- DP-70.1-GRP** Poly Pump includes gearbox for 3.5 and 5 HP engines, does not include a regulator.

DP-70.1-GRP



DP-70 Performance - RPM

Pressure	500		550		600		650	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP
29	6.3	0.1	6.9	0.2	7.6	0.2	8.2	0.2
145	5.9	0.7	6.5	0.7	7.1	0.8	7.7	0.9
218	5.7	1.0	6.3	1.1	6.8	1.2	7.4	1.2
290	5.5	1.2	6.0	1.4	6.6	1.5	7.1	1.6

Low Pressure Poly Pumps



DP-193-PP

Maximum Flow: 19.8 GPM

Maximum Pressure: 218 PSI

Maximum Speed: 550 RPM

Maximum Power: 2.8 HP

Diaphragms: 3

Negative Pressure – Max: 4.9 ft.,

Intermittent: 9.8 ft.

Weight: 25 lbs.

Suction Hose Diameter: 1 1/2" Hose

Discharge Hose Diameter: 1" NPT

Max Temperature: 140°F

Lubricating Oil Type: 30 SAE

Drive Shaft: 1" diameter (one side only)

Optional Models:

All Available in Poly

DP-193-GRP

Includes gearbox for 3.5 and 5 HP engines

DP-193-GRIP

Includes gearbox for 3.5 and 5 HP engines and SC-2420-3 regulator.

Recommended Accessories:

- Control Units: SC-2420-3, SC-2660-3
- Gearbox for 5 HP gasoline engine with 3/4" shaft: DP-321003
- Hydraulic Adapter (SAE "B"): DP-31874997
- Hydraulic Adapter (SAE "A"): DP-31922897

DP-193-PP Performance - RPM								
Pressure	400		450		500		550	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP
29	14.4	0.3	16.2	0.3	18.0	0.4	19.8	0.4
73	14.2	2.7	16.0	0.8	17.8	0.9	19.6	1.0
145	13.8	1.4	15.6	1.5	17.3	1.7	19.0	1.9
218	13.5	2.0	15.1	2.3	16.8	2.5	18.5	2.8



DP-282-P

Maximum Flow: 28.2 GPM

Maximum Pressure: 218 PSI

Maximum Speed: 550 RPM

Maximum Power: 4.1 HP

Diaphragms: 3

Negative Pressure – Max: 4.9 ft.,

Intermittent: 9.8 ft.

Weight: 42 lbs.

Suction Hose Diameter: 1 1/2" Hose

Discharge Hose Diameter: 1" NPT

Max Temperature: 140°F

Lubricating Oil Type: 30 SAE

Through input shaft: 1" diameter one end,

1 3/8" 6-spline opposite end.

Recommended Accessories:

- Control Units: SC-2420-3, SC-2660-3
- Gearbox for 5 HP gasoline engine with 3/4" shaft: DP-321003 must use DP-31155907 spacer and (4) bolts DP-86357500.
- Hydraulic Adapter (SAE "B"): DP-31874997 must use (1) DP-31155907 spacer and (4) bolts DP-86357500.

DP-282-P Performance - RPM								
Pressure	400		450		500		550	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP
29	20.6	0.4	23.1	0.5	25.7	0.5	28.3	0.6
73	20.4	1.0	22.9	1.1	25.5	1.3	28.0	1.4
145	20.2	2.0	22.5	2.3	25.2	2.5	27.7	2.8
218	20.0	3.0	15.1	3.3	25.0	3.7	27.5	4.1

Low Pressure Poly Pumps



DP-332-P

Maximum Flow: 33.3 GPM

Maximum Pressure: 218 PSI

Maximum Speed: 550 RPM

Maximum Power: 4.8 HP

Weight: 42 lbs.

Diaphragms: 3

Negative Pressure - Max: 4.9 ft.

Intermittent: 9.8 ft.

Suction Hose Diameter: 1 1/2" Hose

Discharge Hose Diameter: 1" NPT

Max Temperature: 140°F

Lubricating Oil Type: 30 SAE

Through input shaft: 1" diameter one end,
1 3/8" 6-spline opposite end.

Recommended Accessories:

- Control Units: SC-2420-3, SC-2660-3
- Gearbox for 5 HP gasoline engine with 3/4" shaft: DP-321003 and requires the DP-31155907 spacer and (4) DP-86357500 bolts.
- Hydraulic Adapter (SAE "B"): DP-31874997 must use (1) DP-31155907 spacer and (4) bolts DP-86357500.

DP-332-P Performance - RPM

Pressure	400		450		500		550	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP
29	24.2	0.5	27.2	0.5	30.3	0.6	33.3	0.7
73	24.0	1.2	27.0	1.3	30.0	1.5	33.0	1.6
145	23.8	2.4	26.8	2.7	29.8	3.0	32.8	3.3
218	23.4	3.5	26.4	3.9	29.3	4.4	32.2	4.8



DP-448-P

Maximum Flow: 44.9 GPM

Maximum Pressure: 218 PSI

Maximum Speed: 550 RPM

Maximum Power: 6.5 HP

Weight: 58 lbs.

Diaphragms: 4

Negative Pressure - Max: 4.9 ft.

Intermittent: 9.8 ft.

Suction Hose Diameter: 2" Hose

Discharge Hose Diameter: 1" NPT

Max Temperature: 140°F

Lubricating Oil Type: 30 SAE

Through shaft: 1 3/8" 6-spline both ends

DP-448-P Performance - RPM

Pressure	400		450		500		550	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP
29	32.7	0.6	36.7	0.7	40.8	0.8	44.9	0.9
73	32.5	1.6	36.5	1.8	40.6	2.0	44.6	2.2
145	32.1	3.2	36.1	3.6	40.1	4.0	44.1	4.4
218	31.7	4.7	35.7	5.3	39.6	5.9	43.6	6.5

Recommended control unit:

- SC-2660-3

Low Pressure Poly Pumps


Recommended control unit:

- SC-2660-3

DP-555-P

Maximum Flow: 55.5 GPM
 Maximum Pressure: 218 PSI
 Maximum Speed: 550 RPM
 Maximum Power: 8.0 HP
 Weight: 73 lbs.
 Diaphragms: 5
 Negative Pressure – Max: 4.9 ft.
 Intermittent: 9.8 ft.

Suction Hose Diameter: 2" Hose
 Discharge Hose Diameter: 1" NPT
 Max Temperature: 140°F
 Lubricating Oil Type: 30 SAE
 Through shaft 1 3/8" 6-spline opposite end

DP-555-P Performance - RPM

Pressure	400		450		500		550	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP
29	40.4	0.8	45.4	0.9	50.4	1.0	55.5	1.1
73	40.0	2.0	45.0	2.2	50.0	2.5	55.0	2.7
145	39.6	3.9	44.5	4.4	49.5	4.9	54.4	5.4
218	39.2	5.8	44.1	6.6	49.0	7.3	53.9	8.0


Recommended control unit:

- SC-2660-3

DP-687-P

Maximum Flow: 68.7 GPM
 Maximum Pressure: 218 PSI
 Maximum Speed: 550 RPM
 Maximum Power: 9.4 HP
 Weight: 86 lbs.
 Diaphragms: 6
 Negative Pressure – Max: 4.9 ft.
 Intermittent: 9.8 ft.

Suction Hose Diameter: 2" Hose
 Discharge Hose Diameter: 1 1/4" NPT
 Max Temperature: 140°F
 Lubricating Oil Type: 30 SAE
 Through shaft 1 3/8" 6-spline opposite end

DP-687-P Performance - RPM

Pressure	400		450		500		550	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP
29	50.0	1.0	56.2	1.1	62.4	1.2	68.7	1.4
73	49.6	2.5	55.8	2.8	62.0	3.1	68.2	3.4
145	48.8	4.8	54.9	5.5	61.0	6.1	67.1	6.7
218	48.0	7.2	54.0	8.0	60.0	8.9	66.1	9.8