

SHURFLO® 8000 SERIES DIAPHRAGM PUMP

Automatic-Demand Pumps 12 VDC



The 8000 Series diaphragm pump is Shurflo's most widely used agriculture pump. Viton® valve material assures maximum chemical resistance. The unique conical valve design delivers high flow rates at maximum discharge pressures, making the 8000 Series the pump of choice for sprayers used on the farm or around the yard. These 12 VDC pumps deliver up to 1.8 GPM [6.8 L/min] providing maximum performance in a wide range of applications.

- ◆ Self-priming up to 8 vertical feet [2.4m]
- ◆ Chemical-resistant materials
- ◆ Designed for heavy-duty spraying and fluid transfer applications
- ◆ Can run dry without damage
- ◆ Built-in check valve

ORDER INFORMATION

Part Number	Max GPM	Max LPM	Max PSI	Max BAR	Port Size	Max Draw	Description
8000-343-236	1.2	4.5	60	4.1	3/8" NPT-Female	5.8	All Viton® Pump: Viton® valves, Viton® diaphragm, 60 PSI (4.1 bar) demand switch
8000-541-236*	1.0	3.8	60	4.1	3/8" NPT-Female	3.8	Lawn and Garden Pump: Viton® valves, Santoprene® diaphragm, 60 PSI (4.1 bar) demand switch
8000-542-136	1.2	4.5	60	4.1	1/2" MSPT-Male	6.0	Low Flow Standard Pump: Viton® valves, Santoprene® diaphragm, 60 PSI (4.1 bar) demand switch
8000-543-136	1.8	6.8	60	4.1	1/2" MSPT-Male	7.3	Standard Pump: Viton® valves, Santoprene® diaphragm, 60 PSI (4.1 bar) demand switch
8000-543-236*	1.8	6.8	50	3.4	3/8" NPT-Female	6.4	Standard Pump: Viton® valves, Santoprene® diaphragm, 60 PSI (4.1 bar) demand switch
8000-543-238	1.8	6.8	100	6.9	3/8" NPT-Female	8.7	High Pressure Pump: Viton® valves, Santoprene® diaphragm, 100 PSI (6.9 bar) demand switch
8000-543-138	1.8	6.8	100	6.9	1/2" MSPT-Male	8.7	High Pressure Pump: Viton® valves, Santoprene® diaphragm, 100 PSI (6.9 bar) demand switch
8000-543-936*	1.8	6.8	50	3.4	3/8" NPT-Female	6.4	Standard Pump w/Wire Harness: Viton® valves, Santoprene® diaphragm, prewired with two wire molded connectors, 60 PSI (4.1 bar) demand switch
8000-547-189	1.8	6.8	107	7.4	1/2" MSPT-Male	7.0	High Pressure Pump: Viton® valves, Santoprene® diaphragm, 100 PSI (6.9 bar) demand switch with internal bypass
8000-643-236	1.8	6.8	60	4.1	3/8" NPT-Female	6.8	Transfer Pump: Buna valves, Geolast® diaphragm, 60 PSI (4.1 bar) demand switch
8030-813-239	1.6	6.1	150	9.5	3/8" NPT-Female	12.0	High Pressure Pump: Viton® valves, Santoprene® diaphragm, 150 PSI (10.3 bar) demand switch

Model	PSI	BAR	GPM	L/min	Amps
8000-343-236	20	1.4	0.93	3.5	3.9
	40	2.8	0.84	3.2	4.9
	50	3.4	0.80	3.0	5.3
	60	4.1	0.76	2.9	5.8
8000-541-236	20	1.4	0.79	3.0	2.3
	30	2.1	0.75	2.8	2.8
	40	2.8	0.70	2.6	3.2
	60	4.1	0.62	2.3	3.8
8000-542-136	20	1.4	1.11	4.2	4.1
	40	2.8	0.98	3.7	5.1
	50	3.4	0.93	3.5	5.6
	60	4.1	0.90	3.4	6.0
8000-543-136	20	1.4	1.26	4.7	5.0
	40	2.8	1.14	4.3	6.2
	50	3.4	1.08	4.1	6.8
	60	4.1	1.02	3.9	7.3
8000-543-236	30	1.4	1.47	5.5	5.7
	40	2.8	1.41	5.3	5.8
	50	3.4	1.36	5.1	6.4
	60	4.1	1.31	5.0	5.5
8000-543-238	20	1.4	1.45	5.5	4.2
	40	2.8	1.31	5.0	5.5
	60	4.1	1.22	4.6	6.5
	100	6.9	0.96	3.6	8.7
8000-543-138	20	1.4	1.45	5.5	4.2
	40	2.8	1.31	5.0	5.5
	60	4.1	1.22	4.6	6.5
	100	6.9	0.96	3.6	8.7
8000-543-936	30	1.4	1.47	5.5	5.7
	40	2.8	1.41	5.3	5.8
	50	3.4	1.36	5.1	6.4
	60	4.1	1.31	5.0	5.5
8000-643-236	20	1.4	1.44	5.4	4.1
	40	2.8	1.33	5.0	5.4
	50	3.4	1.27	4.8	6.1
	60	4.1	1.22	4.6	6.8
8030-813-239	20	1.4	1.55	5.9	5.5
	30	2.1	1.49	5.6	6.2
	40	2.8	1.43	5.4	6.8
	80	5.4	1.20	4.5	9.1
	100	6.9	1.10	4.2	10.1
150	9.5	0.83	3.1	12.0	

* Packaged in quantities of 6. For single packs, replace "8000-" with "8009."
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SHURFLO® 8000 SERIES DIAPHRAGM PUMPS

Bypass Pumps 12 VDC



8000-543-250

8000 Series internal bypass pumps are ideal for applications where an automatic demand switch is not desired. Pumps with bypass will continue to run without damage once the bypass pressure is reached. They incorporate a triple chamber design with Viton® elastomers to withstand the toughest applications. Perfect for spot sprayers, foam markers and transfer applications where smooth, consistent flow is needed.

- ◆ Self-priming up to 8 vertical feet [2.4m]
- ◆ Chemical-resistant materials
- ◆ Internal bypass
- ◆ Can run dry without damage

ORDER INFORMATION

Part Number	Max GPM	Max LPM	Max PSI	Max BAR	Port Size	Max Draw	Description	Model	PSI	BAR	GPM	L/min	Amps
8000-543-250*	1.8	6.8	50	3.4	3/8" NPT-Female	5.5	Standard Bypass Pump: Viton® valves, Santoprene® diaphragm, 45 PSI(3.1BAR) internal bypass	8000-543-250	20	1.4	1.30	4.9	4.0
									30	2.1	1.11	4.2	4.7
									40	2.8	0.69	2.6	5.2
8000-543-210	1.3	4.9	40	2.8	3/8" NPT-Female	5.5	Standard Bypass Pump: Viton® valves, Santoprene® diaphragm, 35 PSI(2.4 BAR) internal bypass	8000-543-210	10	0.7	1.28	4.8	3.8
									20	1.4	1.19	4.5	4.4
8000-543-220	1.5	5.7	60	4.1	3/8" NPT-Female	7.1	Standard Bypass Pump: Viton® valves, Santoprene® diaphragm, 60 PSI(4.1BAR) internal bypass	8000-543-220	30	2.1	1.07	4.0	5.0
									40	2.8	0.05	0.19	5.5
									10	0.7	1.52	5.7	3.8
8006-543-250	1.4	5.3	50	3.4	3/8" NPT-Female	5.5	Bypass Pump with Reversed Pumphead: Viton® valves, Santoprene® diaphragm, 45 PSI(3.1 BAR) internal bypass	8000-543-220	20	1.4	1.45	5.5	4.5
									30	2.1	1.39	5.3	5.2
									60	4.1	1.12	4.2	7.1
									10	0.7	1.40	5.3	3.4
									8006-543-250	20	1.4	1.30	4.9
40	2.8	0.69	2.6	5.2									
50	4.1	0.18	0.7	5.5									

* Packaged in quantities of 6. For single packs, replace "8000-" with "8009."

SHURFLO® 8000 SERIES DIAPHRAGM PUMPS

Bypass Pumps 12 VDC



8000-543-290

Designed to accommodate applications that have external pressure valves plumbed into the system.

- ◆ Self-priming up to 8 vertical feet [2.4m]
- ◆ Chemical-resistant materials
- ◆ 1/4" adapter for external bypass hook-up
- ◆ Can run dry without damage

ORDER INFORMATION

Part Number	Max GPM	Max LPM	Max PSI	Max BAR	Port Size	Max Draw	Description	Model	PSI	BAR	GPM	L/min	Amps
8000-543-290	1.8	6.8	100	6.9	3/8" NPT-Female	8.8	Front Adapter Pump: Viton® valves, Santoprene® diaphragm, 1/4" FNPT adapter mounted on switch ports	8000-543-290	20	1.4	1.26	4.7	5.0
									40	2.8	1.14	4.3	6.2
									60	4.1	1.02	3.9	7.3
									80	5.5	0.93	3.5	8.0
									100	6.9	0.84	3.2	8.8

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SHURFLO® 8000, 8090 AND 8020 SERIES DIAPHRAGM PUMPS

Bypass and Automatic-Demand Pumps 115 VAC and 230 VAC



These Shurflo 8000, 8090 and 8020 Series bypass and demand pumps provide the same reliability as the 12 VDC version, except in a 115 VAC or 230 VAC capacity. They are ideal in agricultural applications that require high pressure with flow rates up to 1.6 GPM [6.1 L/min] and low amp draw. They can be mounted in any position, are compact, and are designed for easy maintenance.

- ◆ Self-priming up to 8 vertical feet [2.4m]
- ◆ Built-in check valve
- ◆ Chemical-resistant materials
- ◆ Corded pump optional
- ◆ Can run dry without damage

ORDER INFORMATION - BYPASS 115 VAC

Part Number	Max GPM	Max LPM	Max PSI	Max BAR	Port Size	Max Draw	Description
8000-533-250	1.4	5.3	50	3.4	3/8" NPT-Female	0.54	Bypass Pump: Viton® valves, Santoprene® diaphragm, 45 PSI (3.1 bar) Internal Bypass
8020-503-250	1.5	5.7	40	2.8	3/8" NPT-Female	0.56	Bypass Pump with 6' Power Cord: Viton® valves, Santoprene® diaphragm, 45 PSI (3.1 bar) Internal Bypass

ORDER INFORMATION - DEMAND 115 VAC

Part Numbers	Max GPM	Max LPM	Max PSI	Max BAR	Port Size	Max Draw	Description
8000-533-236	1.4	5.3	60	4.1	3/8" NPT-Female	0.64	Standard Demand Pump: Viton® valves, Santoprene® diaphragm, 60 PSI (4.1 bar) demand switch
8020-513-236	1.5	5.7	60	4.1	3/8" NPT-Female	0.57	Standard Demand Pump: Viton® valves, Santoprene® diaphragm, 60 PSI (4.1 bar) demand switch with 6ft (1.8m) power cord
8020-833-238	1.6	6.1	100	6.9	3/8" NPT-Female	0.95	High Pressure Pump with 6 ft. Power Cord: Viton® valves, Santoprene® diaphragm, 100 PSI (6.9 bar) demand switch
8030-863-239	1.5	5.7	150	9.7	3/8" NPT-Female	1	High Pressure Pump: Viton® valves, Santoprene® diaphragm, 150 PSI (10.3 bar) demand switch

ORDER INFORMATION - BYPASS 230 VAC

Part Numbers	Max GPM	Max LPM	Max PSI	Max Bar	Port Size	Max Draw	Description
8090-802-289	1.2	4.5	80	5.5	3/8" NPT Female	0.56	Bypass Pump: Viton® valves, Santoprene® diaphragm, 80 PSI (5.5 bar) Internal Bypass
8095-902-260	1.5	5.7	100	6.9	3/8" NPT Female	0.56	Bypass Pump: EPDM valves, Santoprene® diaphragm, 100 PSI (6.9 bar) Internal Bypass

ORDER INFORMATION - DEMAND & DEMAND/BYPASS 230 VAC

Part Numbers	Max GPM	Max LPM	Max PSI	Max BAR	Port Size	Max Draw	Description
8090-212-246	1.2	4.5	60	4.1	3/8" NPT Female	0.34	Standard Demand Pump: EPDM valves, Santoprene® diaphragm, 60 PSI (4.1 bar) demand switch
8090-801-278	1.3	4.9	100	6.9	3/8" NPT Female	0.56	Demand/Bypass Pump: Viton® valves, Santoprene® diaphragm, 80 PSI (5.5 bar) Internal Bypass, 100 PSI (6.9 bar) demand switch
8090-902-278	1.4	5.3	100	5.5	3/8" NPT Female	0.56	Demand/Bypass Pump: EPDM valves, Santoprene® diaphragm, 80 PSI (5.5 bar) Internal Bypass, 100 PSI (6.9 bar) demand switch

BYPASS 115 VAC

Model	PSI	BAR	GPM	L/min	Amps
8000-533-250	10	0.7	1.36	5.1	0.34
	30	2.1	1.05	4.0	0.46
	40	2.8	0.65	2.5	0.51
8020-503-250	50	3.4	0.19	0.7	0.54
	10	0.7	1.40	5.3	0.37
	20	1.4	1.30	4.9	0.44
	30	2.1	1.10	4.2	0.50
40	2.8	0.80	3.0	0.56	

DEMAND 115 VAC

Model	PSI	BAR	GPM	L/min	Amps
8000-533-236	20	1.4	1.15	4.3	0.46
	40	2.8	0.97	3.7	0.55
	50	3.4	0.91	3.4	0.60
	60	4.1	0.85	3.2	0.64
8020-513-236	20	1.4	1.15	4.8	0.40
	40	2.8	0.96	4.1	0.49
	50	3.4	0.90	3.6	0.54
	60	4.1	0.84	3.5	0.57
8020-833-238	20	1.4	1.32	5.0	0.45
	40	2.8	1.14	4.3	0.58
	60	4.1	1.07	4.0	0.70
	100	6.9	0.91	3.4	0.95
8030-863-239	20	1.4	1.24	4.7	0.45
	60	4.1	1.04	3.9	0.66
	120	8.3	0.77	2.9	0.92
	150	9.7	0.63	2.4	1.00

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SHURFLO® 8007 SERIES DIAPHRAGM PUMPS

Bypass and Automatic-Demand 12 VDC with Electrical Package



8007-543-850
(Front and Back Shown)

These models include an aesthetically-pleasing molded assembly, housing a rocker-type manual switch with international on/off switch symbols. Wiring is neatly routed into the molded assembly through form fitting entries and strain relieved inside the housing. Fused versions come with an automotive-type fuse housed under a snug fitting cap marked "fuse." Non-fused versions have a raised section.

- ◆ Self-priming up to 8 vertical feet [2.4m]
- ◆ Chemical-resistant materials
- ◆ Internal bypass option
- ◆ Can run dry without damage
- ◆ Built-in on/off switch included
- ◆ 2 pin connector on power leads
- ◆ Available with or without integral fuse
- ◆ Rocker switch protected from the elements by a clear boot

ORDER INFORMATION -BYPASS

Part Number	Max GPM	Max LPM	Max PSI	Max BAR	Port Size	Max Draw	Description
8007-543-850	1.8	6.8	50	3.4	3/8" NPT-Female	5.5	Bypass Pump w/Electrical Package: Viton® valves, Santoprene® diaphragm, 45 PSI (3.1 bar) bypass, Manual on/off switch 2 pin connector and fuse

BYPASS 12VDC

Model	PSI	BAR	GPM	L/min	Amps
8007-543-850	10	0.7	1.40	5.3	3.4
	20	1.4	1.30	4.9	4.0
	30	2.1	1.11	4.2	4.7
	40	2.8	0.69	2.6	5.2
	50	3.4	0.18	0.7	5.5

ORDER INFORMATION -DEMAND 12VDC

Part Number	Max GPM	Max LPM	Max PSI	Max BAR	Port Size	Max Draw	Description
8007-591-236	1.0	3.8	50	3.4	3/8" NPT-Female	3.7	Demand Pump w/Electrical Package: Viton® valves, Santoprene® diaphragm, 60 PSI (4.1 bar) Demand Switch Manual on/off switch 2 pin connector (8007-543-836 includes fuse)
8007-593-836	1.8	6.8	50	3.4	3/8" NPT-Female	6.4	
8007-543-836	1.8	6.8	50	3.4	3/8" NPT-Female	6.4	

DEMAND 12VDC

Model	PSI	BAR	GPM	L/min	Amps
8007-591-236	30	2.1	0.74	2.8	2.9
	40	2.8	0.69	2.6	3.2
	50	3.4	0.65	2.5	3.7
8007-593-836	30	2.1	1.47	5.5	5.3
	40	2.8	1.41	5.3	5.8
	50	3.4	1.36	5.1	6.4
8007-543-836	30	2.1	1.47	5.5	5.3
	40	2.8	1.41	5.3	5.8
	50	3.4	1.36	5.1	6.4

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