

# 8000 Series Diaphragm Pump



## Automatic-Demand Pumps 12 VDC



- Self-priming up to 2,4 m
- Chemical-resistant materials
- Designed for heavy-duty spraying and fluid transfer applications
- Can run dry without damage
- Built-in check valve

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 6,8 l/min providing maximum performance in a wide range of applications.

8000-543-936

### Order Information

Part #	Description	Max LPM	Max BAR	Port Size	Max Draw
8000-343-236	<b>All Viton® Pump:</b> Viton® valves, Viton® diaphragm, 4,1 BAR demand switch	4,54	4,1	¾ inch NPT-Female	5,8
8000-541-236	<b>Lawn and Garden Pump:</b> Viton® valves, Santoprene® diaphragm, 4,1 BAR demand switch	3,78	4,1	¾ inch NPT-Female	3,8
8000-542-136	<b>Low Flow Standard Pump:</b> Viton® valves, Santoprene® diaphragm, 4,1 BAR demand switch	4,54	4,1	½ inch MSPT-Male	6,0
8000-543-136	<b>Standard Pump:</b> Viton® valves, Santoprene® diaphragm, 4,1 BAR demand switch	6,81	4,1	½ inch MSPT-Male	7,3
8000-543-236	<b>Standard Pump:</b> Viton® valves, Santoprene® diaphragm, 4,1 BAR demand switch	6,81	3,4	¾ inch NPT-Female	6,4
8000-543-238	<b>High Pressure Pump:</b> Viton® valves, Santoprene® diaphragm, 6,9 BAR demand switch	6,81	6,8	¾ inch NPT-Female	8,7
8000-543-138	<b>High Pressure Pump:</b> Viton® valves, Santoprene® diaphragm, 6,9 BAR demand switch	6,81	6,8	½ inch MSPT-Male	8,7
8000-543-936	<b>Standard Pump w/Wire Harness:</b> Viton® valves, Santoprene® diaphragm, prewired with two wire molded connectors, 4,1 BAR demand switch	6,81	3,4	¾ inch NPT-Female	6,4
8000-643-236	<b>Transfer Pump:</b> Buna valves, Geolast® diaphragm, 4,1 BAR demand switch	6,81	4,1	¾ inch NPT-Female	6,8
8030-813-239	<b>High Pressure Pump:</b> Viton® valves, Santoprene® diaphragm, 10,3 BAR demand switch	6,81	10,3	¾ inch NPT-Female	12,0

Model	BAR	L/min	Amps
8000-343-236	1,4	3,5	3,9
	2,8	3,2	4,9
	3,4	3,0	5,3
	4,1	2,9	5,8
8000-541-236	1,4	3,0	2,3
	2,1	2,8	2,8
	2,8	2,6	3,2
	4,1	2,3	3,8
8000-542-136	1,4	4,2	4,1
	2,8	3,7	5,1
	3,4	3,5	5,6
	4,1	3,4	6,0
8000-543-136	1,4	4,7	5,0
	2,8	4,3	6,2
	3,4	4,1	6,8
	4,1	3,9	7,3
8000-543-236	1,4	5,5	5,7
	2,8	5,3	5,8
	3,4	5,1	6,4
8000-543-238	1,4	5,5	4,2
	2,8	5,0	5,5
	4,1	4,6	6,5
	6,9	3,6	8,7
8000-543-138	1,4	5,5	4,2
	2,8	5,0	5,5
	4,1	4,6	6,5
	6,9	3,6	8,7
8000-543-936	1,4	5,5	5,7
	2,8	5,3	5,8
	3,4	5,1	6,4
8000-643-236	1,4	5,4	4,1
	2,8	5,0	5,4
	3,4	4,8	6,1
	4,1	4,6	6,8
8030-813-239	1,4	5,9	5,5
	2,1	5,6	6,2
	2,8	5,4	6,8
	5,4	4,5	9,1
	6,9	4,2	10,1
	9,5	3,1	12,0

# 8000 Series Diaphragm Pump



## Bypass Pumps 12 VDC



8000-543-250

- Self-priming up to 2,4 m
- Chemical-resistant materials
- Internal bypass
- Can run dry without damage

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.

### Order Information

Part #	Description	Max LPM	Max BAR	Port Size	Max Draw
8000-543-250	<b>Standard Bypass Pump:</b> Viton® valves, Santoprene® diaphragm, 3,1 BAR internal bypass	6,81	3,4	3/8 inch NPT-Female	5,5
8000-543-210	<b>Standard Bypass Pump:</b> Viton® valves, Santoprene® diaphragm, 2,4 BAR internal bypass	4,92	2,7	3/8 inch NPT-Female	5,5
8000-543-220	<b>Standard Bypass Pump:</b> Viton® valves, Santoprene® diaphragm, 4,1 BAR internal bypass	5,67	4,1	3/8 inch NPT-Female	7,1
8006-543-250	<b>Bypass Pump with Reversed Pumphead:</b> Viton® valves, Santoprene® diaphragm, 3,1 BAR internal bypass	5,30	3,4	3/8 inch NPT-Female	5,5

Model	BAR	L/min	Amps
8000-543-250	1,4	4,9	4,0
	2,1	4,2	4,7
	2,8	2,6	5,2
	4,1	0,7	5,5
8000-543-210	0,7	4,8	3,8
	1,4	4,5	4,4
	2,1	4,0	5,0
	2,8	0,19	5,5
8000-543-220	0,7	5,7	3,8
	1,4	5,5	4,5
	2,1	5,3	5,2
	4,1	4,2	7,1
8006-543-250	0,7	5,3	3,4
	1,4	4,9	4,0
	2,8	2,6	5,2
	4,1	0,7	5,5

# 8000 Series Diaphragm Pump



## No Control 12 VDC



8000-543-290

- Self-priming up to 2,4 m
- Chemical-resistant materials
- 1/4 inch adapter for external bypass hook-up
- Can run dry without damage

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

### Order Information

Part #	Description	Max LPM	Max BAR	Port Size	Max Draw
8000-543-290	<b>Front Adapter Pump:</b> Viton® valves, Santoprene® diaphragm, 1/4 inch FNPT adapter mounted on switch ports	6,81	6,8	3/8 inch NPT-Female	8,8

Model	BAR	L/min	Amps
8000-543-290	1,4	4,7	5,0
	2,8	4,3	6,2
	4,1	3,9	7,3
	5,5	3,5	8,0
	6,9	3,2	8,8

# 8000 Series Diaphragm Pumps



## Bypass and Automatic-Demand 230 VAC



- Self-priming up to 2,4 m
- Built-in check valve
- Chemical-resistant materials
- Can run dry without damage

These SHURflo 8000 Series demand pumps provide the same reliability as the 12 VDC version, except in a 230 VAC capacity. They are ideal in agricultural applications that require high pressure with flow rates up to 5,5 l/min and low amp draw. They can be mounted in any position, are compact, and are designed for easy maintenance.

### Order Information - Demand 230 VAC

Part #	Description	Max LPM	Max BAR	Port Size	Max Draw
8090-212-246	<b>Standard Pump:</b> EPDM valves, Santoprene® diaphragm, 4,1 BAR demand switch	5,3	4,1	3/8 inch NPT-Female	0,24
8090-902-278	<b>High Pressure Pump:</b> EPDM valves, Santoprene® diaphragm, 6,9 BAR demand switch	5,5	6,9	3/8 inch NPT-Female	0,33

# 8007 Series Diaphragm Bypass Pump



12 VDC with Electrical Package



8007-543-850  
(Front and Back Shown)

- Self-priming up to 2,4 vertical metres
- Chemical-resistant materials
- Internal bypass
- 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

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.

## Order Information

Part #	Description	Max LPM	Max BAR	Port Size	Max Draw
8007-543-850	<b>Bypass Pump w/Electrical Package:</b> Viton® valves, Santoprene® diaphragm, 3,1 BAR bypass, Manual on/off switch 2 pin connector and fuse	6,81	3,4	3/8 inch NPT-Female	5,5
8007-593-850	<b>Bypass Pump w/Electrical Package:</b> Viton® valves, Santoprene® diaphragm, 3,1 BAR bypass, Manual on/off switch 2 pin connector			3/8 inch NPT-Female	

Model	BAR	L/min	Amps
8007-543-850	0,7	5,3	3,4
	1,4	4,9	4,0
	2,1	4,2	4,7
	2,8	2,6	5,2
	3,4	0,7	5,5
8007-593-850	0,7	5,3	3,4
	1,4	4,9	4,0
	2,1	4,2	4,7
	2,8	2,6	5,2
	3,4	0,7	5,5

# 8007 Series Diaphragm Pump



Automatic-Demand Pumps 12 VDC with Electrical Package



8007-593-836  
(Front and Back Shown)

- Self-priming up to 2,4 vertical metres
- Chemical-resistant materials
- 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

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.

## Order Information

Part #	Description	Max LPM	Max BAR	Port Size	Max Draw
8007-591-236	<b>Demand Pump w/Electrical Package:</b> Viton® valves, Santoprene® diaphragm, 4,1 BAR Demand Switch, Manual on/off switch 2 pin connector (8007-543-836 includes fuse)	3,78	3,4	3/8 inch NPT-Female	3,7
8007-593-836		6,81		3/8 inch NPT-Female	6,4
8007-543-836		6,81		3/8 inch NPT-Female	6,4

Model	BAR	L/min	Amps
8007-591-236	2,1	2,8	2,9
	2,8	2,6	3,2
	3,4	2,5	3,7
8007-593-836	2,1	5,5	5,3
	2,8	5,3	5,8
	3,4	5,1	6,4
8007-543-836	2,1	5,5	5,3
	2,8	5,3	5,8
	3,4	5,1	6,4