



# INDUSTRIAL PUMP TECHNOLOGIES



Industrial



Floor Care



Solar



Automotive



Car wash



Healthcare



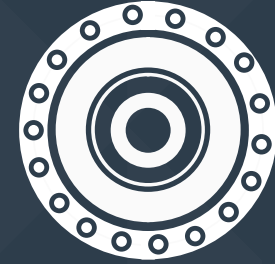
# ABOUT

Shurflo® has been a leading name in small pump manufacturing since 1968. With various flows, voltages and material choices, the Shurflo line covers a wide range of fluid-handling applications. Whether working on a new system or improving an existing one, our experienced field personnel and applications engineering team will assist you in selecting a pump to meet your requirements. Our team is also ready to work with you to develop your custom pumping solution.



## PUMP SELECTION ASSISTANCE

- | Visit [www.shurflo.com](http://www.shurflo.com) and click on the Pump Select icon
- | Fill in as much application information as possible and click submit
- | Our Application Engineers will review your request and provide a tailored Shurflo pump solution



- / AN EXTENSIVE PRODUCT LINE
- / INNOVATIVE SOLUTIONS
- / QUALITY PRODUCTS
- / SUPERIOR CUSTOMER SERVICE
- / CUSTOM CONFIGURATIONS
- / DYNAMIC PARTNERSHIP OPTIONS
- / APPLICATION SPECIFIC SUPPORT

WE  
OFFER

# MARKETS



## General Industrial

With various flow rates, voltages, and material combinations available, Shurflo® pump configurations are comprised of a wide range of industrial fluid-handling applications that includes construction, laboratory, chemical transfer, ink and dye injection and hot oil equipment.



## Floor Care/Sanitation

Engineered OEM pump solutions for scrubber, extractor and pre-treatment sprayers for hard and soft surface floor care offer the service provider consistent performance and durable reliability.



## Solar Watering

Pumps and accessories tailored for low amp draw and enduring performance ideally suited for remote livestock watering, off-grid residence, or whenever efficient DC powered water delivery is needed.



## Automotive

Fluid service and maintenance for vehicle fluid rejuvenation. Offering flows, voltages and material combinations to handle common automotive fluids and cleaning agents.



## Car Wash

Offering AODD (air operated diaphragm) pump and other technologies in dispensing and chemical solution delivery.



## Medical/Healthcare

Offering a versatile and wide range for specific functions in post-surgery, therapy cooling, disinfecting equipment and applications for optical grinding equipment.



# APPLICATIONS

/ CHEMICAL TRANSFER & METERING

/ COLD THERAPY CIRCULATION

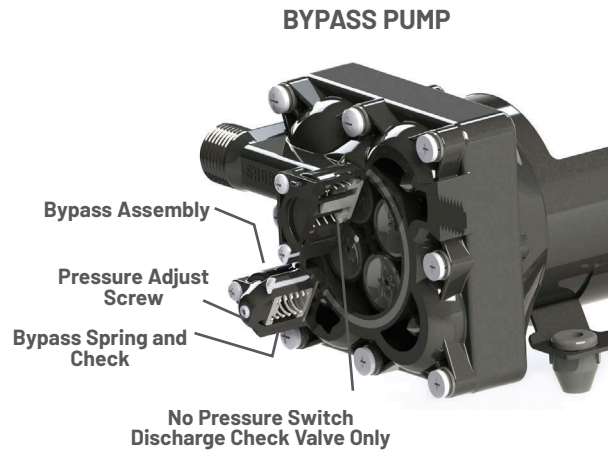
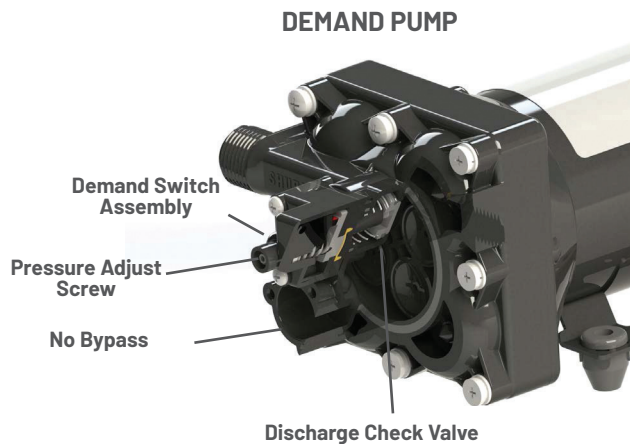
/ CONSTRUCTION AND EQUIPMENT

/ CHEMICAL AND FLUID DISPENSING

/ WATER TREATMENT AND DELIVERY

/ HOT OIL EQUIPMENT

# DEMAND VS BYPASS PUMP



## COMMON USES

Applications with a set flow and pressure requirement.  
Example: Spray wands on spot sprayers.

## HOW IT WORKS

When the operator shuts off the wand, pressure in the line increases to a set point and the pressure switch shuts off the motor. A check valve inside the pump keeps trapped pressure in the line. When the wand is turned back on, pressure in the line decreases. The pressure falls below the set point then restarts the pump.

## SIZING THE PUMP

Select a pump with a pressure and flow point that is matched to the orifice size in the wand.

## PRO

- ◆ Saves wear and tear on the pump
- ◆ Extends the service life of the battery

## CON

- ◆ Can be difficult to use with variable rate
- ◆ Hand operated spray wands and guns

## COMMON USES

Applications where a wide range of flows and pressures may be required. Examples: Spray bar with multiple nozzles, all controlled independently.

## HOW IT WORKS

The pump continues to run regardless of pressure in the system. For the spray bar example, the flow rate is different when one nozzle is turned on as opposed to having two or more turned on. As nozzles are turned off, excess flow is bypassed within the pump.

## SIZING THE PUMP

Size the pump for the maximum flow rate required with all nozzles spraying.

## PRO

- ◆ Prevents on/off cycling of pump which can lead to early failure

## CON

- ◆ If discharge valve is closed for too long, overheating and damage can occur
- ◆ Constant amp draw can reduce battery power life

## 5 GPM Bypass and Automatic-Demand Pumps 12 VDC



Bypass



Demand

The field-proven Shurflo 5.3 GPM [20.1 L/min] pump delivers 3.8 GPM at 40 psi [14.4 L/min at 2.75 bar] with current draw of 14 amps. This pump is designed with a Santoprene® diaphragm for chemical resistance and maximum life, as well as Viton® valves for maximum chemical resistance. Also included is a built-in pressure switch, set at 60 PSI [4.14 bar], which protects the pump in the event of dead-heading. The pump is available in the same footprint as other Shurflo pumps, allowing users to upgrade to a higher performance on existing installations.

- ◆ Field-proven pump head design
- ◆ Driven by a 12-volt, sealed motor
- ◆ Self-priming up to 8 feet [2.4 m]
- ◆ Santoprene diaphragm for chemical resistance and maximum life
- ◆ Viton valves provide maximum chemical resistance
- ◆ Automatic demand versions with built-in pressure switch, set at 60 psi [4.14 bar], protects the pump in the event of dead-heading
- ◆ Bypass versions set at 90 psi (5.86 bar), protects the pump in the event of dead heading
- ◆ Available in the same footprint as other Shurflo pumps, allowing users to upgrade to a higher performance on existing installations

### BYPASS 12VDC: ORDERING INFORMATION

Part Number	Max GPM	Max LPM	Max PSI	Max BAR	Port Size	Max Draw
5059-3611-D011	5.3	20.1	90	6.2	1/2" npsm*	20.9
5059-3610-D011	5.3	20.1	90	6.2	1/2" NPTF	20.9

\* 1/2" -14 American National Standard Straight Pipe Thread  
 \*\* For retail box: change "-D011" to "-D012"

### BYPASS 12VDC

Model	PSI	GPM	BAR	L /min	Amps
5059-3611-D011 5059-3610-D011	0	5.3	0	20.1	6.5
	10	4.7	.7	17.8	9.0
	20	4.3	1.4	16.3	10.2
	30	4.1	2.1	15.5	12.0
	40	3.4	2.8	12.9	13.5
	50	2.6	3.4	9.8	15.2
	60	1.8	4.1	6.8	16.9
	70	1.1	4.8	4.2	18.5
	80	0.4	5.5	1.5	20.1
	90	0.0	6.2	0.0	20.9

### DEMAND 12VDC: ORDERING INFORMATION

Part Number	Max GPM	Max LPM	Max PSI	Max BAR	Port Size	Max Draw
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Model	PSI	GPM	BAR	L /min	Amps
5059-1311-D011 5059-1310-D011	0	5.3	0	20.1	6.5
	10	4.7	.69	17.8	9.0
	20	4.3	1.38	16.3	11.8
	30	4.1	2.07	15.5	12.4
	40	3.8	2.75	14.4	14.0
	50	3.6	3.45	13.6	15.4
	60	3.4	4.14	12.9	17.0