

# SHURFLO® 5000 Series Pumps

SHURflo offers various pumps models for different applications. The information outlined by this manual is general, and not specific to all 5000 series pumps. Contact SHURflo or your local distributor for specific application information and pump selection. SHURflo always recommends professional installation and service of pumps and accessories.

**CAUTION** "Intermittent Duty" is defined as: operated and/or frequently started within a period of time that would **NOT** cause the motor to reach its maximum thermal limits. Once the maximum thermal limit is obtained, the motor must be allowed to return to ambient temperature before resuming operation.

**CAUTION** **DO NOT** use to pump flammable liquids. Never operate the pump in an explosive environment. Arcing from the motor brushes, switch or excessive heat from an improperly cycled motor may cause an explosion.

**CAUTION** **DO NOT** assume fluid compatibility. If the fluid is improperly matched to the pumps' elastomers, a leak may occur. Pumps used to transfer hazardous or hot (max. temperature 120°F [49°C]) chemicals must be in a vented area to guard against the possibility of injury due to harmful or explosive liquid/vapors.

**CAUTION** **DO NOT** operate the pump at pressures which cause the motor to exceed the amperes rating indicated on the name plate. Various pump models are equipped with thermal breakers to interrupt operation due to excessive heat. Once the temperature of the motor is within proper limits it will automatically reset, and the pump **will start operation without warning**.

**MOUNTING** The 5000 series pumps are self-priming. Horizontal and vertical prime vary depending on the fluid viscosity and pump configuration. The pump should be located in an area that is dry and provides adequate ventilation. If mounted within an enclosure, provisions to cool the motor may be necessary. Heat sinks which attach to the motor are available from SHURflo if increased heat dissipation is necessary.

**CAUTION** **DO NOT** locate the motor near low temperature plastics or combustible materials. The surface temperature of the motor may exceed 250°F [120°C]. The pump may be mounted in any position. However, if mounting the pump vertically the pump head should be in the down position so that in the event of a leak, fluid will not enter the motor. **DO NOT** compress the feet, doing so will increase vibration and noise.

**PLUMBING** Flexible high pressure tubing compatible with the fluid should be used to connect the inlet/outlet ports. Tubing should be at least  $\frac{1}{2}$ " [13 mm]. Restrictions on the inlet may cause vacuum levels to reach the fluid vapor pressure, causing cavitation, degassing, vapor lock, noise, and a loss in performance. Inlet pressure **must** not exceed 30 psi [2.1 bar] maximum. Installation of a 50 mesh strainer is recommended to prevent foreign debris from entering the pump. If a check valve is installed in the plumbing, it must have a cracking pressure of no more than 2 psi [.14 bar].

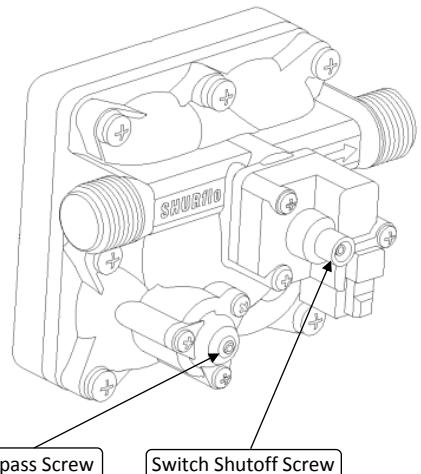
**ELECTRICAL** Electrical wiring should be performed by a qualified electrician, in accordance with all local electrical codes. The pump should be on a dedicated (individual) circuit, controlled with a switch (double pole VAC U.L./C-UL certified) rated at or above the fuse ampere indicated by the pump motor label. All 115 vac and 230 vac pump motors and systems **must** be grounded per local and state electrical codes. For the pump to meet U.L./C-UL requirements the circuit **MUST be protected with a slow-blow fuse** (U.L./C-UL certified) or equivalent circuit breaker as indicated on the motor label. Use an approved wire of the size specified or heavier.

For a DC Voltage Circuit with a 10% Voltage Drop, we recommend the following Wire Sizes [but please follow all local electrical codes]:

Distance From Power Source To Pump and Back: FEET [M]	20 [6.1]	30 [9.1]	50 [15.2]	65 [18.2]	80 [21.3]	120/240 VAC Circuits
25 Amps: AWG [mm <sup>2</sup> ]	12 [3.31]	10 [5.26]	8 [8.36]	6 [13.29]	6 [13.29]	120/240 VAC Circuits are recommended to use a minimum of 14GA [2.08mm <sup>2</sup> ] Wire Size for the circuit lengths shown
15 Amps: AWG [mm <sup>2</sup> ]	14 [2.08]	12 [3.31]	10 [5.26]	10 [5.26]	8 [8.36]	

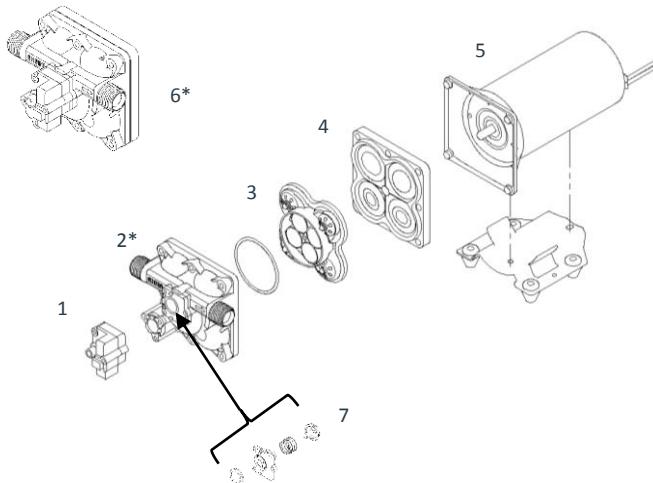
If your pump has a by-pass feature, please read the following section.

**BYPASS OPERATION & ADJUSTMENT:** By-pass adjustment should only be performed by a professional technician with proper gauges and equipment. The by-pass is a spring loaded diaphragm that opens up allowing water from the discharge side back to the inlet side. The by-pass is set to begin opening at about 40 psi and creating full by-pass at about 62 psi (lower pressure pumps will vary depending on the by-pass and pressure shut-off settings). The pressure switch on the pump is set to shut off at 55 psi. If the switch or by-pass are adjusted too much, the by-pass and switch shut-off can overlap and THE PUMP WILL NOT SHUT OFF. Screwing the switch screw in clockwise will raise the shut-off pressure. Unscrewing the switch screw counterclockwise will lower the pump shut-off pressure. Screwing the by-pass screw in will raise the pressure at which the by-pass starts and raise the full by-pass pressure. Unscrewing the by-pass screw counterclockwise will lower the pressure at which by-pass starts and lower the full by-pass pressure. **WARNING:** If full by-pass is reached before the shut-off setting, the pump will not shut off. Full by-pass pressure setting should be at least 7-10 psi higher than pump shut off pressure. Raising any pressure settings will also increase the amp load and power used.



**SERVICE** Repair kits are readily available to repair standard 5000 series pumps. Repair kits include simple illustrated instructions allowing easy installation. To insure that the correct kit is received, the model number and all name plate data must be included with the order. Visit our web site, contact a SHURflo distributor or contact SHURFLO directly to order the necessary repair kits.

**CAUTION** To prevent electrical shock, disconnect power before initiating any work. In the case of pump failure, the motor housing and/or the pumped fluid may carry high voltage to components normally considered safe.



\*Male pump ports shown. Female ports available based on pump model number.

Number	Description
1	Pressure Switch
1,2*	Upper Assembly
3	Valve Assembly
4	Drive Assembly
5	Motor/Gasket
6* (1,2*,3,4,7)	Pump Head
7	Check Valve

#### RETURN POLICY

All Industrial pumps/products **must** be flushed of **any** chemical (ref. OSHA Section 1910.1200 (d)(e)(f)(g)(h)) and hazardous chemicals **must** be labeled/tagged before being shipped\* to SHURFLO for service or warranty consideration. SHURFLO reserves the right to request a Material Safety Data Sheet from the returnee for any pump/product it deems necessary. SHURFLO reserves the right to "disposition as scrap" pumps/products returned which contain unknown fluids. SHURFLO reserves the right to charge the returnee for any and all costs incurred for chemical testing, and proper disposal of components containing unknown fluids. SHURFLO requires this in order to protect the environment and personnel from the hazards of handling unknown fluids.

#### LIMITED WARRANTY PROCEDURE

SHURFLO warrants Industrial 5000 series pumps to be free from material and workmanship defects (under normal use and service) for a period of one (1) year from the date of manufacture, or (1) one year use with proof of purchase, not to exceed (2) two years in any event.

The limited warranty will not apply to pumps that were improperly installed, misapplied, or incompatible with fluids or components not manufactured by SHURFLO. SHURFLO will not warrant any pump which is damaged or modified outside the SHURFLO factory.

All Industrial pumps/products **must** be flushed of **any** chemicals before shipping\*. All warranty considerations are governed by SHURFLO's written Return Policy.

Returns are to be shipped postage prepaid to our service center in Elkhart, IN. SHURFLO shall not be liable for freight damage incurred during shipping. Package returns carefully. PENTAIR-SHURFLO, 52748 Park Six Ct., Elkhart, IN 46514.

Upon receiving a pump, it will be tested per SHURFLO's test criteria. SHURFLO's obligation under this warranty policy is limited to the repair or replacement of the unit. Pumps found not defective (under the terms of this limited warranty) are subject to charges to be paid by the returnee for the testing and packaging of "tested good" units.

No credit or labor allowances will be given to the returnee for pumps returned as defective. Warranty replacements will be shipped on a freight allowed basis. SHURFLO reserves the right to choose the method of transportation.

This limited warranty is in lieu of all other warranties, expressed or implied, and no other person is authorized to give any other warranty or assume obligation or liability on SHURFLO's behalf. SHURFLO shall not be liable for any labor, damage or other expense, nor shall SHURFLO be liable for any indirect, incidental or consequential damages of any kind incurred by the reason of the use or sale of any defective product or part. This limited warranty covers pumps distributed within the United States of America. Other world market areas should consult with their local distributor for any deviation from this document.

\*Carriers, including U.S.P.S., airlines, UPS, ground freight, etc., require specific identification of any hazardous materials being shipped. Check with your shipping company for specific instructions. Failure to do so may result in substantial penalties.



#### SHURFLO

3545 Harbor Gateway South, Ste. 103, Costa Mesa, CA 92626, (800) 854-3218 [www.shurflo.com](http://www.shurflo.com)

SHURFLO Europe, Middle East, Africa

Pentair Water Belgium bvba, Industriepark Wolfstee, Toekomstlaan 30, B-2200 Herentals, Belgium, +32-14-283500

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### APPLICATION

A variety of light-duty water and chemical transfer and pressure applications. Other uses may include general water transfer. Benefits include an adjustable by-pass, thermally protected, CE compliant motor and a self-priming 4-chamber design. This pump has a unique co-molded diaphragm and can run dry without damage. It is NSF-Listed for potable water applications.

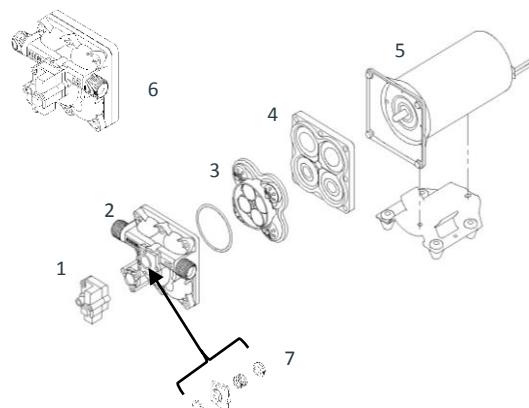
### PUMP DESIGN

Type: 4 Chamber Diaphragm By-pass Pump  
 Ports: 1/2"-14 NPSM-Male  
 Liquid: 130°F [54°C] Max  
 Dry-Prime: 6 feet [1.82 M]  
 Run Dry: Yes  
 Inlet Pressure: 30 PSI Max. [2.06 Bar]

### ELECTRICAL

Motor: 12V DC Permanent Magnet, Intermittent Duty  
 Protection: Thermal Overload, Automatic Restart  
 Leads: 16 AWG, 10" [25 cm] Red +, Black -  
 Fuse: 10 Amp Recommended  
 Control: Shut-Off: 55 PSI [3.8 Bar] ± 2 PSI [0.13 Bar]  
 Re-start: 40 PSI [2.8 Bar] ± 2 PSI [0.13 Bar]

### REPAIR KITS



### MATERIALS OF CONSTRUCTION

Housings: Polypropylene  
 Valves/Seals: EPDM  
 Diaphragm: Santoprene/Polypropylene, Co-Molded  
 Hardware: Stainless Steel and Zinc Plated Steel

### AGENCY APPROVALS

NSF, CE

### SHIPPING INFORMATION

Net Weight: 5 Pounds [2.3 Kg] ea.  
 Carton Qty.: 6  
 Carton Weight: 31 Lbs. [14.1 Kg]  
 Carton Size: 24" L X 18" W X 6" H [61cm x 46cm x 15cm]

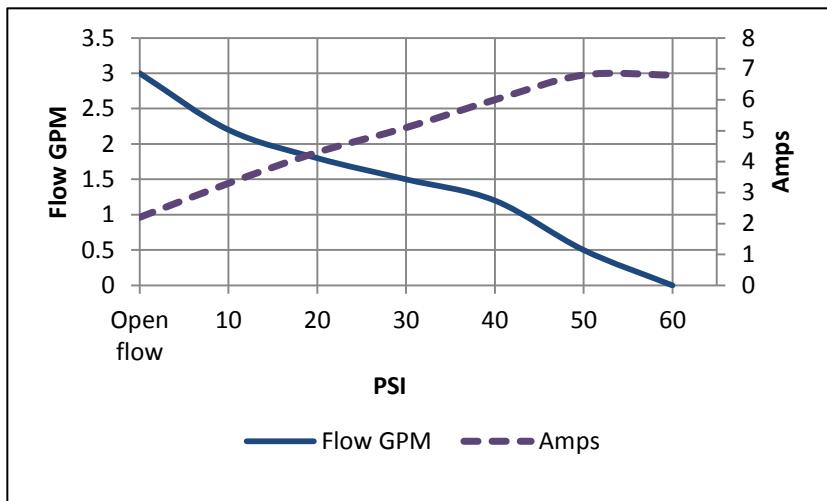
Number	Description	Part Number
1	Pressure Switch	94-800-05
1,2	Upper Assembly	94-800-00
3	Valve Assembly	94-800-01
4	Drive Assembly	94-800-02
5	Motor	94-11-302-00
6 (1,2,3,4,7)	Pump Head	94-800-04
7	Check Valve	94-800-03

# SHURFLO® 5000 SERIES PUMPS

## \*PERFORMANCE

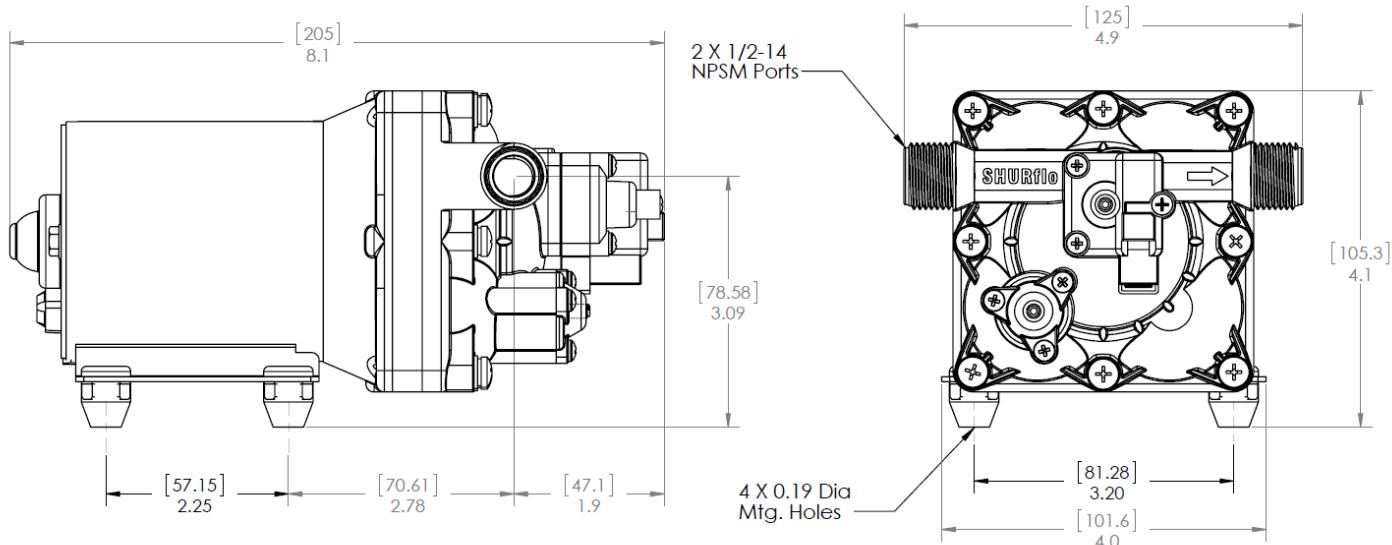
### TYPICAL PERFORMANCE AT 12V

PRESSURE		FLOW		CURRENT
BAR	PSI	GPM	LPM	AMPS
0	0	3.0	11.3	2.2
0.7	10	2.2	8.3	3.3
1.4	20	1.8	6.8	4.3
2.1	30	1.5	5.7	5.1
2.8	40	1.2	4.5	6.0
3.4	50	0.5	1.9	6.8
4.1	60	0	0	6.6



\*Typical Performance is for informational purposes only and can vary and should not be considered a design specification.

## DIMENSIONS



## FLOW MANAGEMENT SOLUTIONS

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### APPLICATION

A variety of light-duty water and chemical transfer and pressure applications. Other uses may include general water transfer. Benefits include an adjustable by-pass, thermally protected, CE compliant motor and a self-priming 4-chamber design. This pump has a unique co-molded diaphragm and can run dry without damage. It is NSF-Listed for potable water applications.

### PUMP DESIGN

Type: 4 Chamber Diaphragm By-pass Pump  
 Ports: 1/2"-14 NPSM-Male  
 Liquid: 130°F [54°C] Max  
 Dry-Prime: 6 feet [1.82 M]  
 Run Dry: Yes  
 Inlet Pressure: 30 PSI Max. [2.06 Bar]

### ELECTRICAL

Motor: 24V DC Permanent Magnet, Intermittent Duty  
 Protection: Thermal Overload, Automatic Restart  
 Leads: 16 AWG, 10" [25 cm] Red +, Black -  
 Fuse: 5 Amp Recommended  
 Control: Shut-Off: 55 PSI [3.8 Bar] ± 2 PSI [0.13 Bar]  
 Re-start: 40 PSI [2.8 Bar] ± 2 PSI [0.13 Bar]

### MATERIALS OF CONSTRUCTION

Housings: Polypropylene  
 Valves/Seals: EPDM  
 Diaphragm: Santoprene/Polypropylene, Co-Molded  
 Hardware: Stainless Steel and Zinc Plated Steel

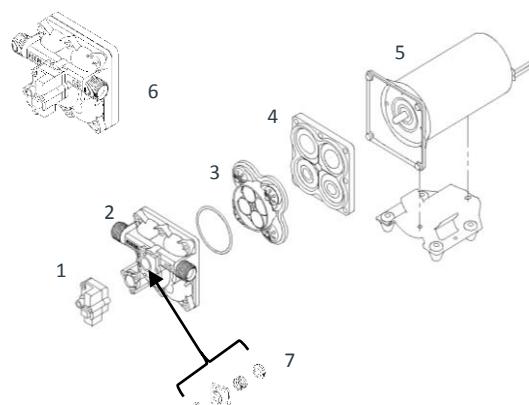
### AGENCY APPROVALS

NSF, CE

### SHIPPING INFORMATION

Net Weight: 5 Pounds [2.3 Kg] ea.  
 Carton Qty.: 6  
 Carton Weight: 31 Lbs. [14.1 Kg]  
 Carton Size: 24" L X 18" W X 6" H [61cm x 46cm x 15cm]

### REPAIR KITS



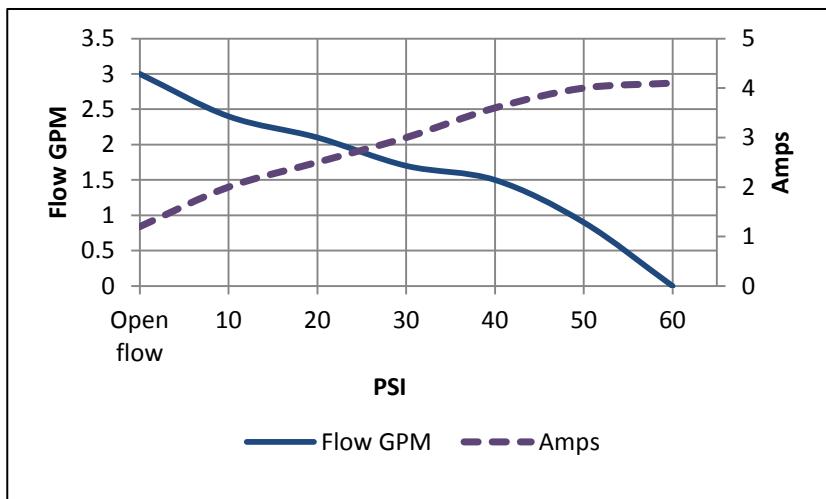
Number	Description	Part Number
1	Pressure Switch	94-800-05
1,2	Upper Assembly	94-800-00
3	Valve Assembly	94-800-01
4	Drive Assembly	94-800-02
5	Motor	94-11-303-00
6 (1,2,3,4,7)	Pump Head	94-800-04
7	Check Valve	94-800-03

# SHURFLO® 5000 SERIES PUMPS

## \*PERFORMANCE

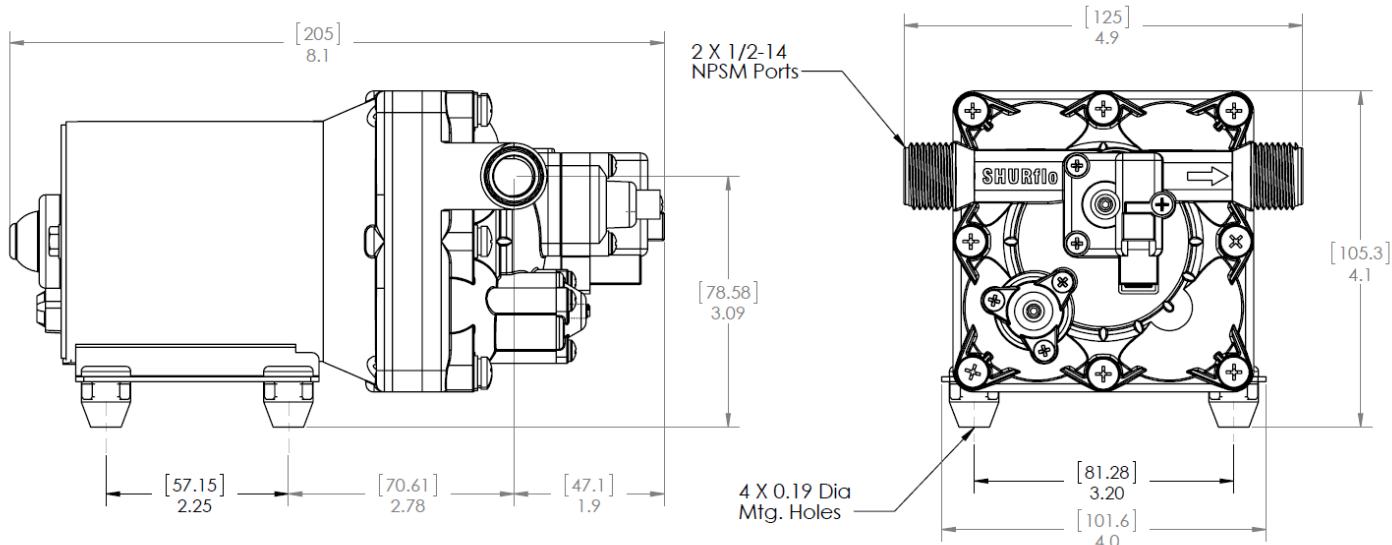
### TYPICAL PERFORMANCE AT 24V

PRESSURE		FLOW		CURRENT
BAR	PSI	GPM	LPM	AMPS
0	0	3.0	11.3	1.2
0.7	10	2.4	9.3	2.0
1.4	20	2.1	7.9	2.5
2.1	30	1.7	6.6	3.0
2.8	40	1.5	5.6	3.6
3.4	50	0.9	3.4	4.0
4.1	60	0	0	4.1



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## FLOW MANAGEMENT SOLUTIONS

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### APPLICATION

A variety of light-duty water and chemical transfer and pressure applications. Other uses may include general water transfer. Benefits include an adjustable by-pass, thermally protected, CE compliant motor and a self-priming 4-chamber design. This pump has a unique co-molded diaphragm and can run dry without damage. It is NSF-Listed for potable water applications.

### PUMP DESIGN

Type: 4 Chamber Diaphragm By-pass Pump  
 Ports: 1/2"-14 NPSM-Male  
 Liquid: 130°F [54°C] Max  
 Dry-Prime: 6 feet [1.82 M]  
 Run Dry: Yes  
 Inlet Pressure: 30 PSI Max. [2.06 Bar]

### ELECTRICAL

Motor: 24V DC Permanent Magnet, Intermittent Duty  
 Protection: Thermal Overload, Automatic Restart  
 Leads: 16 AWG, 10" [25 cm] Red +, Black -  
 Fuse: 5 Amp Recommended  
 Control: Shut-Off: 30 PSI [2.1 Bar] ± 2 PSI [0.13 Bar]  
 Re-start: 20 PSI [1.4 Bar] ± 2 PSI [0.13 Bar]

### MATERIALS OF CONSTRUCTION

Housings: Polypropylene  
 Valves/Seals: EPDM  
 Diaphragm: Santoprene/Polypropylene, Co-Molded  
 Hardware: Stainless Steel and Zinc Plated Steel

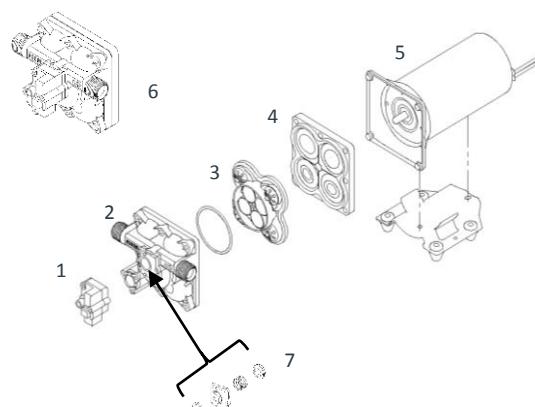
### AGENCY APPROVALS

NSF, CE

### SHIPPING INFORMATION

Net Weight: 5 Pounds [2.3 Kg] ea.  
 Carton Qty.: 6  
 Carton Weight: 31 Lbs. [14.1 Kg]  
 Carton Size: 24" L X 18" W X 6" H [61cm x 46cm x 15cm]

### REPAIR KITS



Number	Description	Part Number
1	Pressure Switch	94-890-01
1,2	Upper Assembly	94-890-09
3	Valve Assembly	94-800-01
4	Drive Assembly	94-800-02
5	Motor	94-11-303-00
6 (1,2,3,4,7)	Pump Head	94-890-04
7	Check Valve	94-800-03

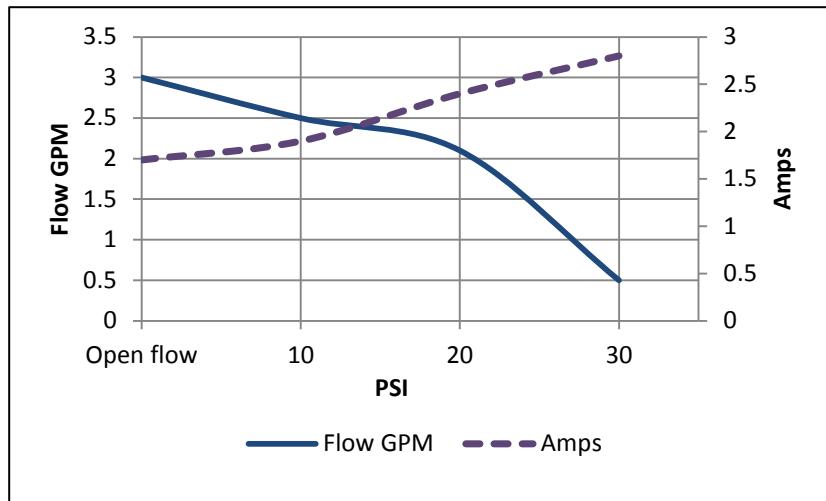
# SHURFLO® 5000 SERIES PUMPS

## \*PERFORMANCE

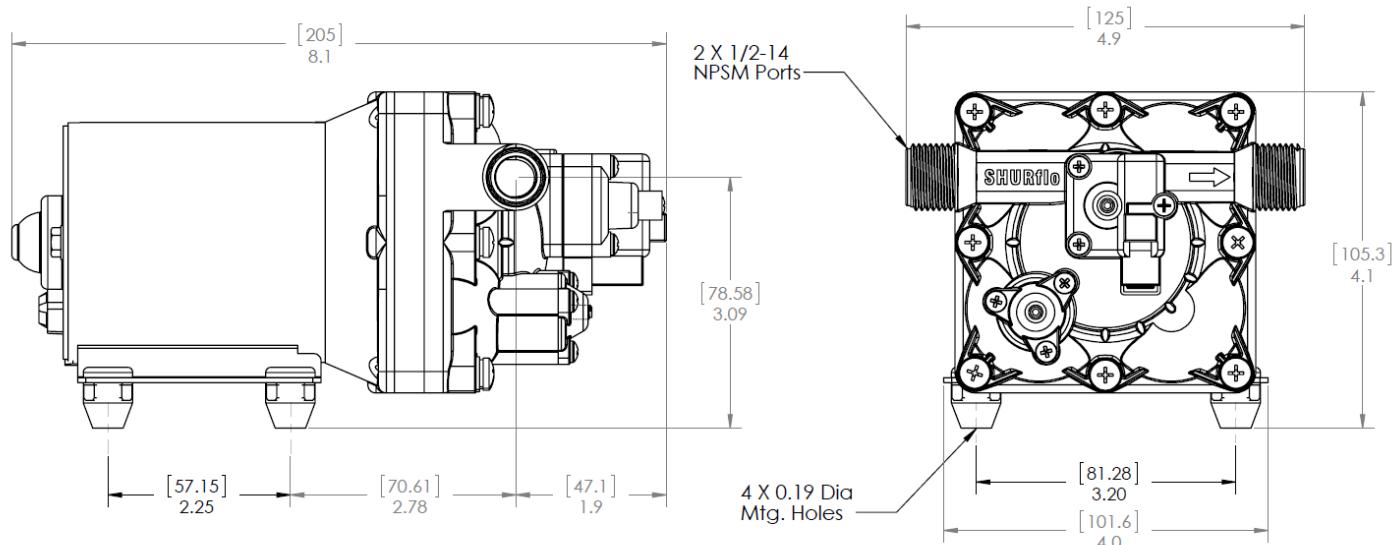
### TYPICAL PERFORMANCE AT 24V

PRESSURE		FLOW		CURRENT
BAR	PSI	GPM	LPM	AMPS
0	0	3.0	11.3	1.7
0.7	10	2.5	9.4	1.9
1.4	20	2.1	8.0	2.4
2.1	30	.5	2.1	2.8

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**APPLICATION**

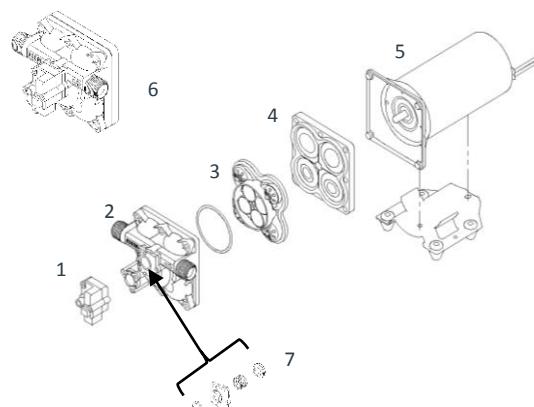
Multi-fixture adjustable bypass fresh water installations. Other uses may include pressurized water systems in cabins and general water transfer. Benefits include a heavy-duty, thermally protected, CE compliant sealed motor, adjustable bypass and a self-priming 4-chamber design. This pump has a unique co-molded diaphragm and can run dry without damage.

**PUMP DESIGN**

Type: 4 Chamber Diaphragm pump  
 Ports: 1/2"-14 NPSM-Male  
 Liquid: 130°F [54°C] Max  
 Dry-Prime: 6 feet [1.82 M]  
 Run Dry: Yes  
 Inlet Pressure: 30 PSI Max. [2.06 Bar]

**ELECTRICAL**

Motor: 12V DC Permanent Magnet, Intermittent Duty  
 Protection: Thermal Overload, Automatic Restart  
 Leads: 14 AWG, 14 3/4" [37 cm] Red +, Black -  
 Fuse: 20 Amp Recommended  
 Control: Shut-Off: 55 PSI [3.8 Bar] ± 2 PSI [0.13 Bar]  
 Re-start: 40 PSI [2.8 Bar] ± 2 PSI [0.13 Bar]  
 By-Pass: 65 PSI [4.5 Bar] ± 2 PSI [0.13 Bar]

**REPAIR KITS**

**MATERIALS OF CONSTRUCTION**

Housings: Polypropylene  
 Valves/Seals: EPDM  
 Diaphragm: Santoprene/Polypropylene, Co-Molded  
 Hardware: Stainless Steel and Zinc Plated Steel

**AGENCY APPROVALS**

Ignition Protection 8846, CE, NSF

**SHIPPING INFORMATION**

Net Weight: 7.9 Pounds [3.5 Kg] ea.  
 Carton Qty.: 6  
 Carton Weight: 50 Lbs. [22.6 Kg]  
 Carton Size: 24" L X 18" W X 6" H [61cm x 46cm x 15cm]

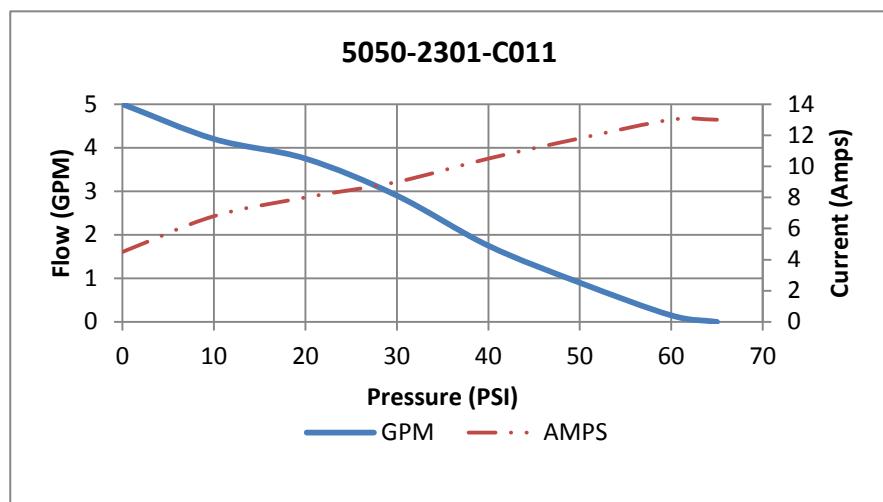
Number	Description	Part Number
1	Pressure Switch	N/A
1,2	Upper Assembly	94-801-10
3	Valve Assembly	94-800-01
4	Drive Assembly	94-801-02
5	Motor/Gasket	94-71-004-17
6 (1,2,3,4,7)	Pump Head	94-801-11
7	Check Valve	94-800-03

# SHURFLO® 5000 SERIES PUMPS

## \*PERFORMANCE

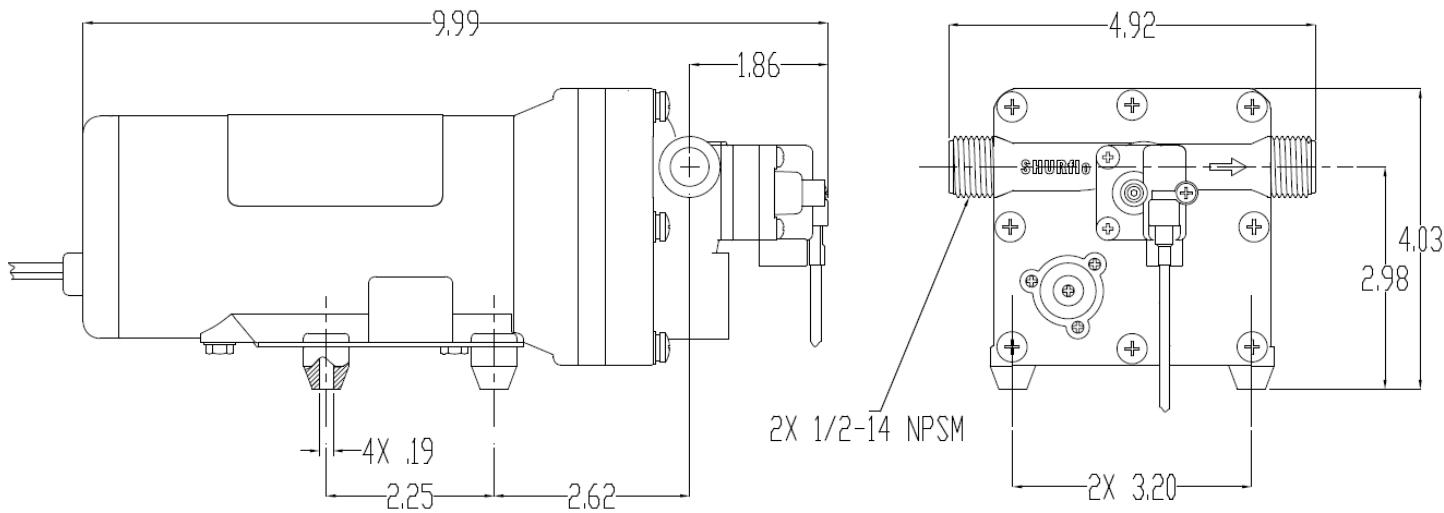
### TYPICAL PERFORMANCE AT 12V

PRESSURE		FLOW		CURRENT
BAR	PSI	GPM	LPM	AMPS
0	0	5.0	18.9	4.5
0.7	10	4.2	15.8	6.8
1.4	20	3.75	14.1	8.0
2.1	30	2.9	10.9	9.0
2.8	40	1.75	6.6	10.5
3.4	50	0.9	3.4	11.8
4.1	60	0.15	0.56	13.0
4.5	65	0	0	13.0



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**APPLICATION**

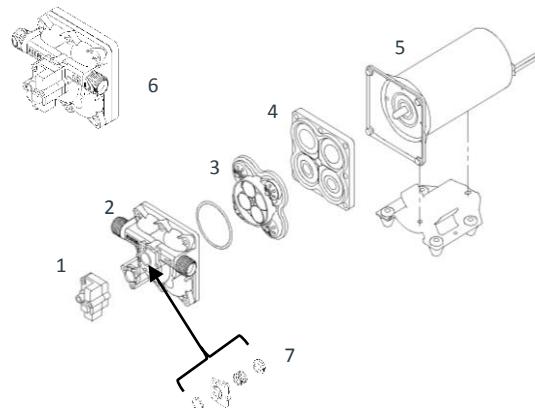
Multi-fixture adjustable bypass fresh water installations. Other uses may include pressurized water systems in cabins and general water transfer. Benefits include a heavy-duty, thermally protected, CE compliant sealed motor, adjustable bypass and a self-priming 4-chamber design. This pump has a unique co-molded diaphragm and can run dry without damage.

**PUMP DESIGN**

Type: 4 Chamber Diaphragm pump  
 Ports: 1/2"-14 NPSM-Male  
 Liquid: 130°F [54°C] Max  
 Dry-Prime: 6 feet [1.82 M]  
 Run Dry: Yes  
 Inlet Pressure: 30 PSI Max. [2.06 Bar]

**ELECTRICAL**

Motor: 24V DC Permanent Magnet, Intermittent Duty  
 Protection: Thermal Overload, Automatic Restart  
 Leads: 14 AWG, 14 3/4" [37 cm] Red +, Black -  
 Fuse: 7.5 Amp Recommended  
 Control: Shut-Off: 55 PSI [3.8 Bar] ± 2 PSI [0.13 Bar]  
 Re-start: 40 PSI [2.8 Bar] ± 2 PSI [0.13 Bar]  
 By-Pass: 65 PSI [4.5 Bar] ± 2 PSI [0.13 Bar]

**REPAIR KITS**

**MATERIALS OF CONSTRUCTION**

Housings: Polypropylene  
 Valves/Seals: EPDM  
 Diaphragm: Santoprene/Polypropylene, Co-Molded  
 Hardware: Stainless Steel and Zinc Plated Steel

**AGENCY APPROVALS**

Ignition Protection 8846, CE, NSF

**SHIPPING INFORMATION**

Net Weight: 7.9 Pounds [3.5 Kg] ea.  
 Carton Qty.: 6  
 Carton Weight: 50 Lbs. [22.6 Kg]  
 Carton Size: 24" L X 18" W X 6" H [61cm x 46cm x 15cm]

Number	Description	Part Number
1	Pressure Switch	N/A
1,2	Upper Assembly	94-801-10
3	Valve Assembly	94-800-01
4	Drive Assembly	94-801-02
5	Motor/Gasket	94-71-001-04
6 (1,2,3,4,7)	Pump Head	94-801-11
7	Check Valve	94-800-03

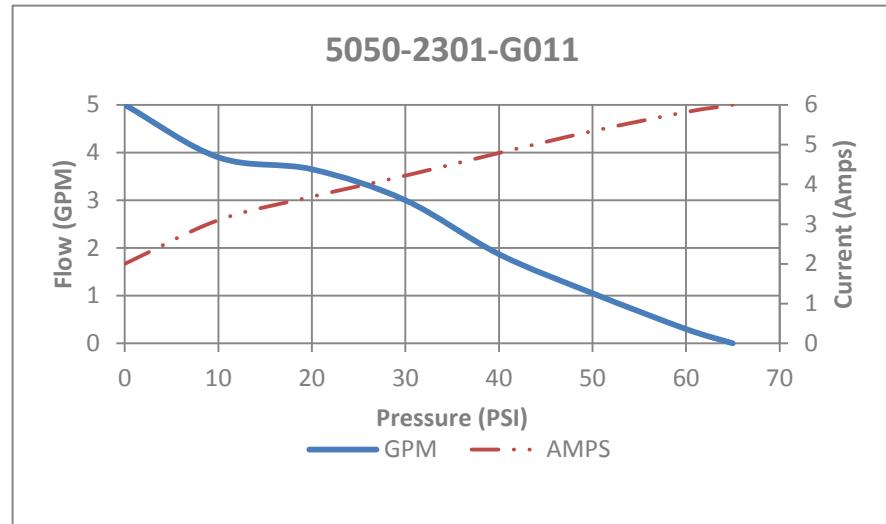
# SHURFLO® 5000 SERIES PUMPS

## PERFORMANCE

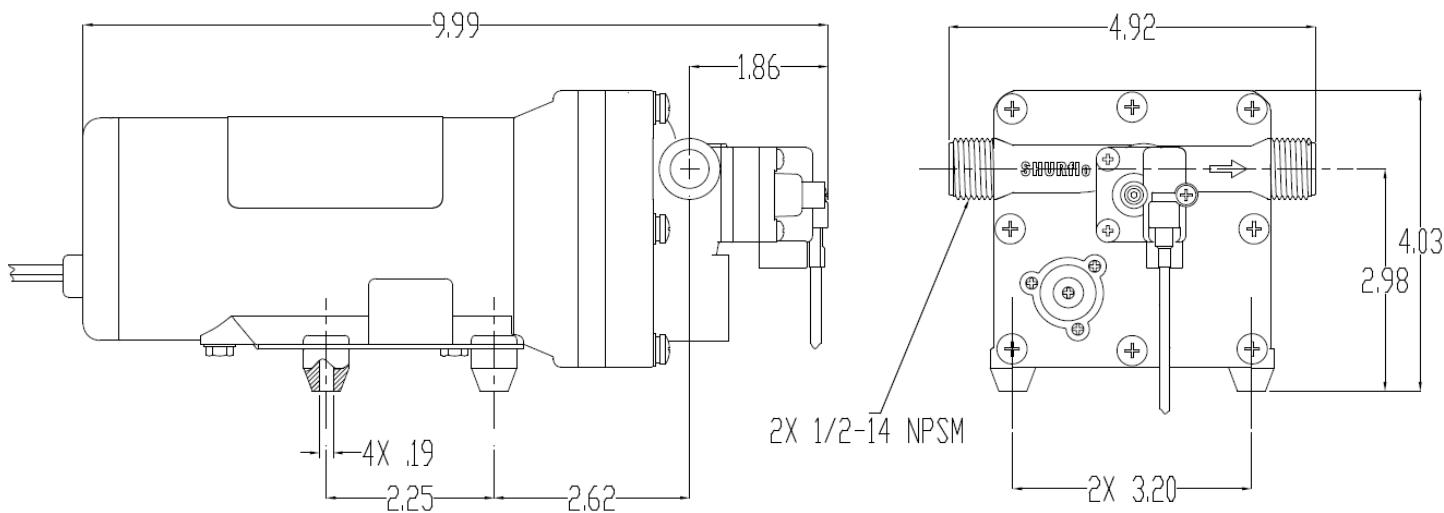
### TYPICAL PERFORMANCE AT 25.6V

PRESSURE		FLOW		CURRENT
BAR	PSI	GPM	LPM	AMPS
0	0	5.0	18.9	2.0
0.7	10	3.9	14.7	3.1
1.4	20	3.6	13.8	3.7
2.1	30	3.0	11.3	4.2
2.8	40	1.8	7.1	4.8
3.4	50	1.1	3.9	5.3
4.1	60	0.3	1.1	5.8
4.5	65	0.0	0.0	6.0

\*Typical Performance is for informational purposes only and can vary and should not be considered a design specification.



## DIMENSIONS



## FLOW MANAGEMENT SOLUTIONS

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**APPLICATION**

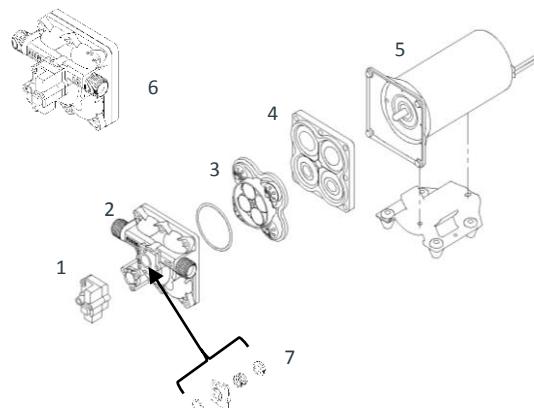
Multi-fixture adjustable bypass fresh water installations. Other uses may include pressurized water systems in cabins and general water transfer. Benefits include a heavy-duty, thermally protected, CE compliant sealed motor, adjustable bypass and a self-priming 4-chamber design. This pump has a unique co-molded diaphragm and can run dry without damage.

**PUMP DESIGN**

Type: 4 Chamber Diaphragm pump  
 Ports: ½"-14 NPSM-Male  
 Liquid: 130°F [54°C] Max  
 Dry-Prime: 6 feet [1.82 M]  
 Run Dry: Yes  
 Inlet Pressure: 30 PSI Max. [2.06 Bar]

**ELECTRICAL**

Motor: 12V DC Permanent Magnet, Intermittent Duty  
 Protection: Thermal Overload, Automatic Restart  
 Leads: 14 AWG, 14 ¾" [37 cm] Red +, Black -  
 Fuse: 15 Amp Recommended  
 Control: Shut-Off: 55 PSI [3.8 Bar] ± 2 PSI [0.13 Bar]  
 Re-start: 40 PSI [2.8 Bar] ± 2 PSI [0.13 Bar]  
 By-Pass: 65 PSI [4.5 Bar] ± 2 PSI [0.13 Bar]

**REPAIR KITS**

**MATERIALS OF CONSTRUCTION**

Housings: Polypropylene  
 Valves/Seals: EPDM  
 Diaphragm: Santoprene/Polypropylene, Co-Molded  
 Hardware: Stainless Steel and Zinc Plated Steel

**AGENCY APPROVALS**

Ignition Protection 8846, CE, NSF

**SHIPPING INFORMATION**

Net Weight: 7.9 Pounds [3.5 Kg] ea.  
 Carton Qty.: 6  
 Carton Weight: 50 Lbs. [22.6 Kg]  
 Carton Size: 24" L X 18" W X 6" H [61cm x 46cm x 15cm]

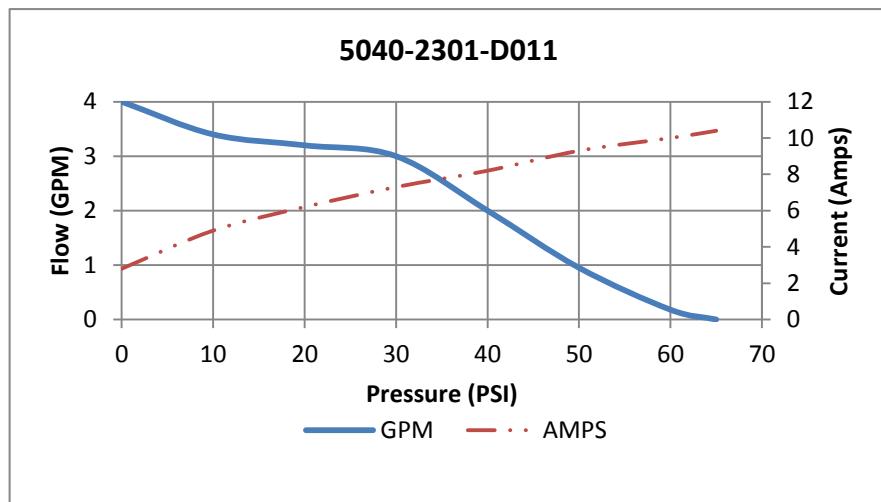
Number	Description	Part Number
1	Pressure Switch	N/A
1,2	Upper Assembly	94-801-10
3	Valve Assembly	94-800-01
4	Drive Assembly	94-801-02
5	Motor/Gasket	94-71-001-07
6 (1,2,3,4,7)	Pump Head	94-801-11
7	Check Valve	94-800-03

# SHURFLO® 5000 SERIES PUMPS

## \*PERFORMANCE

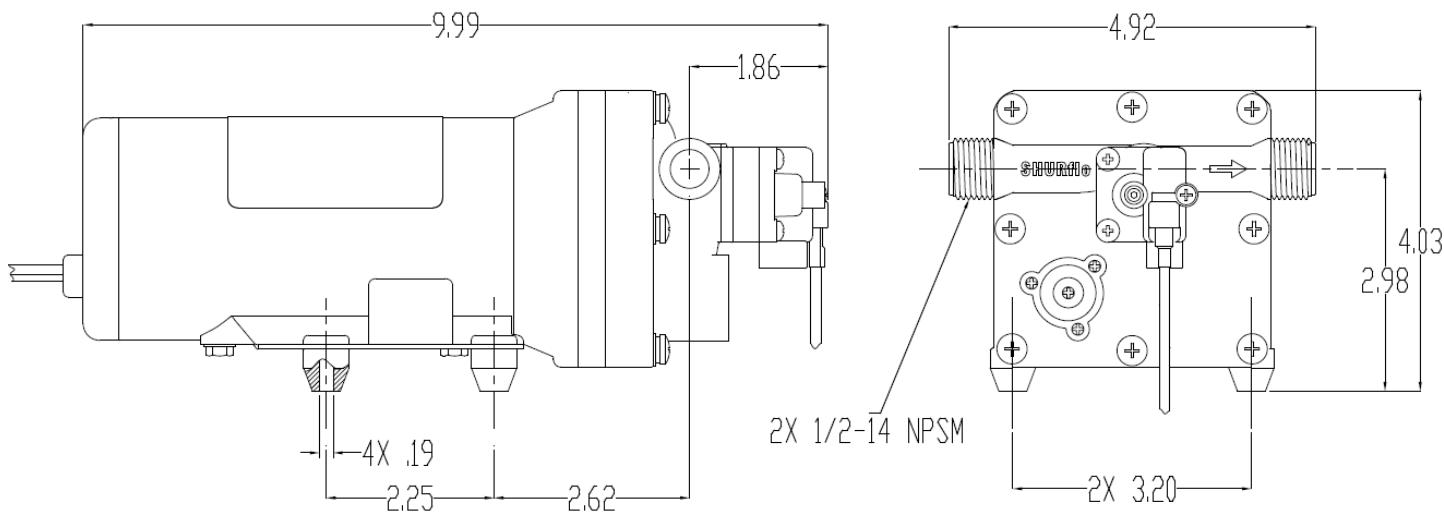
### TYPICAL PERFORMANCE AT 12V

PRESSURE		FLOW		CURRENT
BAR	PSI	GPM	LPM	AMPS
0	0	4.0	15.1	2.8
0.7	10	3.4	12.8	4.9
1.4	20	3.2	12.1	6.2
2.1	30	3.0	11.3	7.3
2.8	40	2.0	5.79	8.2
3.4	50	0.95	7.57	9.3
4.1	60	0.18	0.68	10.0
4.5	65	0	0	10.4



\*Typical Performance is for informational purposes only and can vary and should not be considered a design specification.

## DIMENSIONS



## FLOW MANAGEMENT SOLUTIONS

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**APPLICATION**

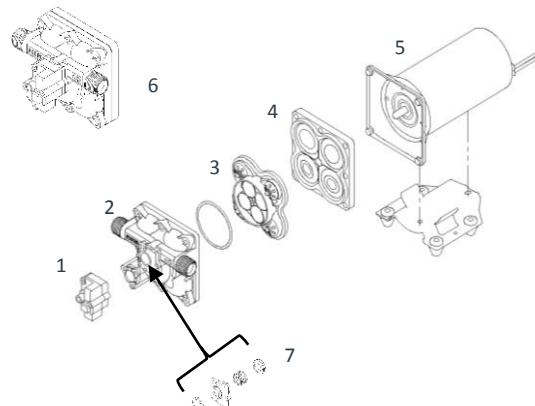
Multi-fixture adjustable bypass fresh water installations. Other uses may include pressurized water systems in cabins and general water transfer. Benefits include a heavy-duty, thermally protected, CE compliant sealed motor, adjustable bypass and a self-priming 4-chamber design. This pump has a unique co-molded diaphragm and can run dry without damage.

**PUMP DESIGN**

Type: 4 Chamber Diaphragm pump  
 Ports: 1/2"-14 NPSM-Male  
 Liquid: 130°F [54°C] Max  
 Dry-Prime: 6 feet [1.82 M]  
 Run Dry: Yes  
 Inlet Pressure: 30 PSI Max. [2.06 Bar]

**ELECTRICAL**

Motor: 24V DC Permanent Magnet, Intermittent Duty  
 Protection: Thermal Overload, Automatic Restart  
 Leads: 14 AWG, 14 3/4" [37 cm] Red +, Black -  
 Fuse: 7.5 Amp Recommended  
 Control: Shut-Off: 55 PSI [3.8 Bar] ± 2 PSI [0.13 Bar]  
 Re-start: 40 PSI [2.8 Bar] ± 2 PSI [0.13 Bar]  
 By-Pass: 65 PSI [4.5 Bar] ± 2 PSI [0.13 Bar]

**REPAIR KITS**

**MATERIALS OF CONSTRUCTION**

Housings: Polypropylene  
 Valves/Seals: EPDM  
 Diaphragm: Santoprene/Polypropylene, Co-Molded  
 Hardware: Stainless Steel and Zinc Plated Steel

**AGENCY APPROVALS**

Ignition Protection 8846, CE, NSF

**SHIPPING INFORMATION**

Net Weight: 7.9 Pounds [3.5 Kg] ea.  
 Carton Qty.: 6  
 Carton Weight: 50 Lbs. [22.6 Kg]  
 Carton Size: 24" L X 18" W X 6" H [61cm x 46cm x 15cm]

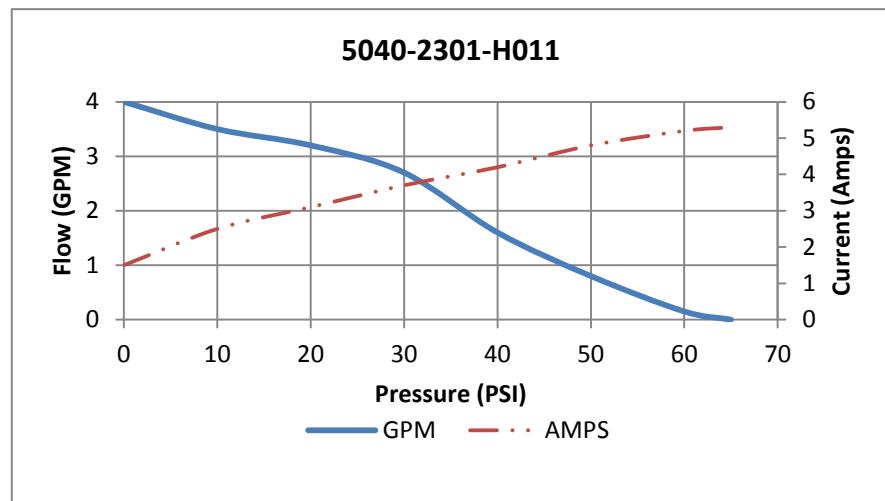
Number	Description	Part Number
1	Pressure Switch	N/A
1,2	Upper Assembly	94-801-10
3	Valve Assembly	94-800-01
4	Drive Assembly	94-801-02
5	Motor/Gasket	94-71-001-03
6 (1,2,3,4,7)	Pump Head	94-801-11
7	Check Valve	94-800-03

# SHURFLO® 5000 SERIES PUMPS

## \*PERFORMANCE

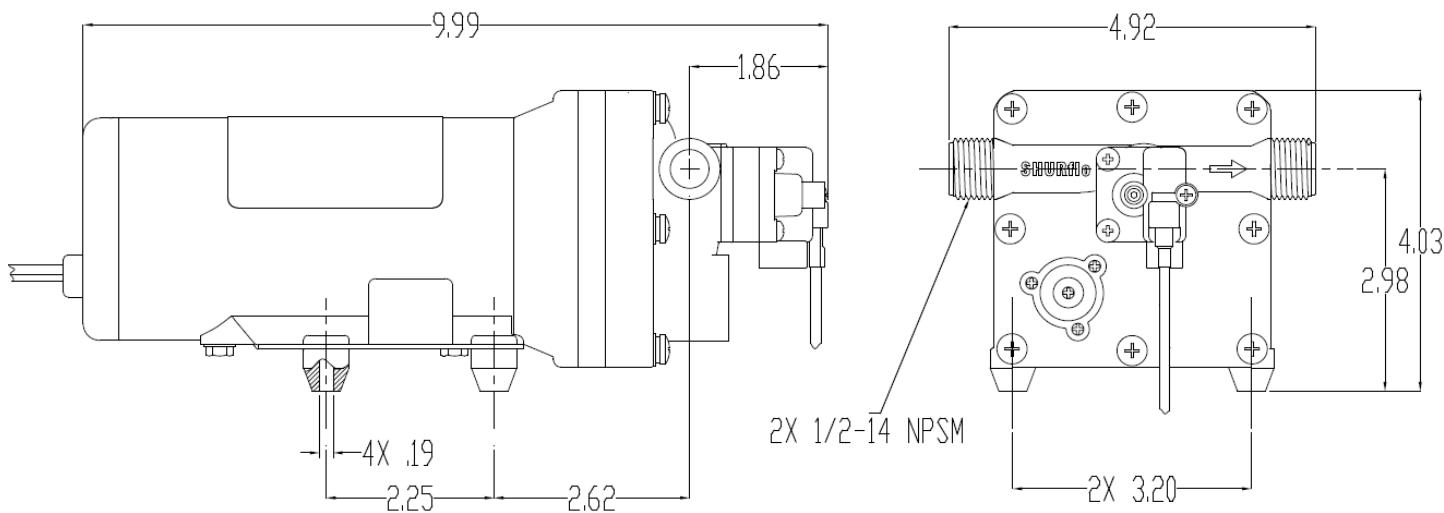
### TYPICAL PERFORMANCE AT 24V

PRESSURE		FLOW		CURRENT
BAR	PSI	GPM	LPM	AMPS
0	0	4.0	15.1	1.5
0.7	10	3.5	13.2	2.5
1.4	20	3.2	12.1	3.1
2.1	30	2.7	10.2	3.7
2.8	40	1.6	6.0	4.2
3.4	50	0.80	3.02	4.8
4.1	60	0.15	0.56	5.2
4.5	65	0	0	5.3



\*Typical Performance is for informational purposes only and can vary and should not be considered a design specification.

## DIMENSIONS



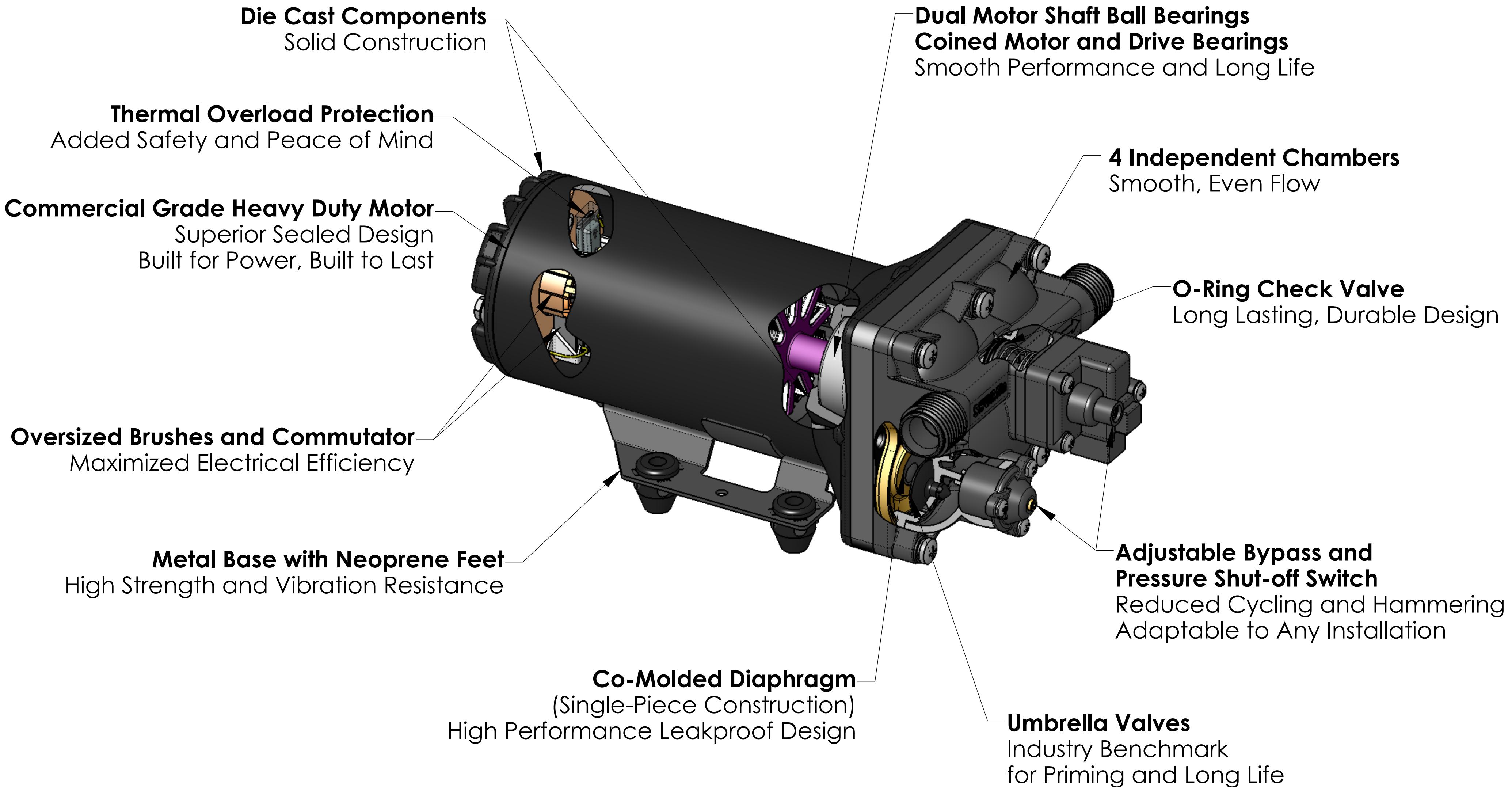
## FLOW MANAGEMENT SOLUTIONS

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# SHURflo 5000



## SHURFLO® 5000 SERIES PUMPS

SHURFLO's new 5000 Series pumps include a unique diaphragm design whereby solid pistons are co-molded to the pump diaphragm, forming a leak proof molecular bond for ultimate durability and pumping efficiency. A newly designed electrostatically painted, fully sealed heavy duty motor powers the 5000 series.

The 5000's conical valves deliver consistent priming and performance, while an available internal bypass enables the pump to operate in varied demand conditions, without switch cycling.

The new 5000 series is uncompromising in every aspect of its design, construction, and performance, furthering SHURFLO's commitment to provide innovative, durable, high value products for our customers' applications.



### **BENEFITS**

**Heavy Duty Sealed Motor**

**Available Bypass**

**Runs Dry Without Damage**

**Self-Priming**

**CE compliant**

**Co-Molded Diaphragm**

**Compact 4 chamber design**

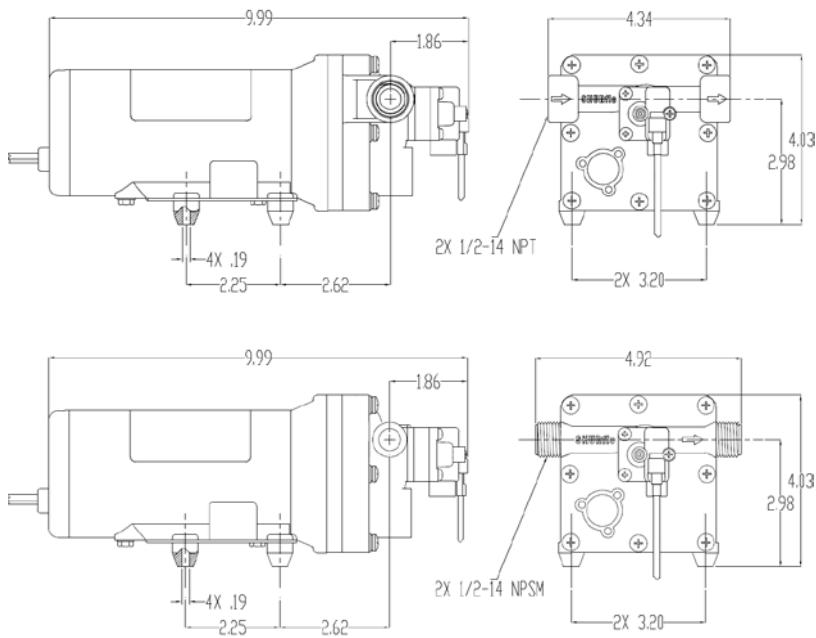
**Flow rates up to 5.3 GPM**

**Chemical resistant elastomers**

# SHURFLO® 5000 SERIES PUMPS

## SPECIFICATIONS

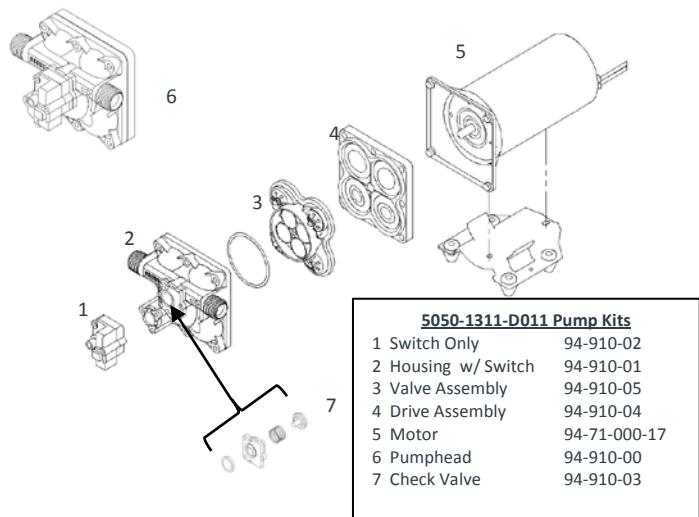
Product	5050
Flow	5.3 GPM
Amps	17 [12VDC]
Voltage	12/24 VDC 120/230VAC
Pump Body	Polypropylene
Valves	Viton or EPDM
Diaphragm	Santoprene or Gelast
Shut-off	60 PSI
Pump Type	Standard or Bypass
Ports	1/2" NPSM-Male 1/2" NPT-Female
Standard	Sealed/E-Coated Motor
Features	Thermal Overload Run Dry Self-Priming



## PERFORMANCE - Typical 12VDC Performance

## PARTS & SERVICE KITS – 5050-1311-D011 (Non-Bypass)

PRESSURE		FLOW		CURRENT
BAR	PSI	GPM	LPM	AMPS
0	0	5.3	20	6.5
0.7	10	4.7	17.7	9.0
1.4	20	4.3	16.2	11.8
2.1	30	4.1	15.5	12.4
2.8	40	3.8	14.3	14.0
3.4	50	3.6	13.6	15.4
4.1	60	3.4	12.8	17.0



## WATER PURIFICATION

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