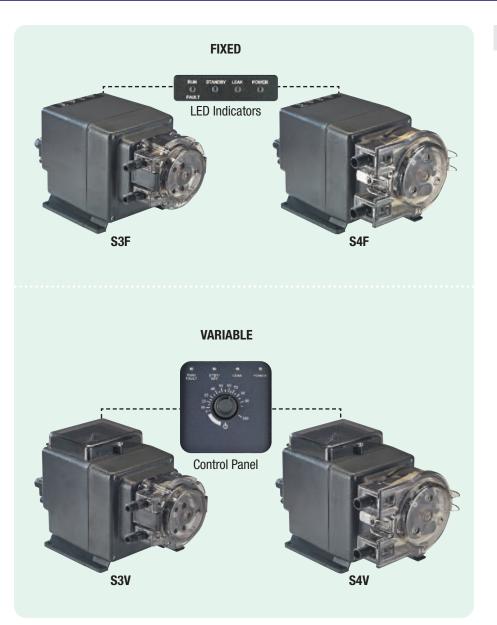
S FIXED and VARIABLE SERIES NEMA 4X | Leak Detect



Function

The Fixed and Variable pumps are both activated by mains power or by a Standby input.

FIXED

Operates at one speed when power is applied, or the standby input is removed. Does not have an on/off switch.

VARIABLE

Operates at the customer set speed when power is applied, or the standby input is removed (unless potentiometer is set to).

Quick Facts

FIXED

• 40.0 to 150.0 gpd, pressures to 25 psi 5.0 to 60.0 gpd, pressures to 100 psi

VARIABLE

- 2.0 to 150.0 gpd, pressures to 25 psi 0.3 to 60.0 gpd, pressures to 100 psi
- · Backup pump capability
- · Tube leak detector
- Totally enclosed housing, NEMA 4X
- · Tube replacement without tools

Features

- Advantages of Stenner peristaltic pumps on page 1
- LED Indicators
- · Dedicated Relays
- NSF 61 & 372
- cULus for indoor/outdoor use
- CE IP65
- NSF 50 (specific models)

S FIXED and VARIABLE SERIES

4 LED Indicators

POWER	Solid green when mains power is connected.
LEAK	Blinking red when solution is present in the pump head.
RUN/FAULT	Solid green when pump is operating. Blinking red when pump has a drive fault.
STANDBY	FIXED Solid red, pump is in Standby when contact closure is on the Standby inputs.
STANDBY/OFF	VARIABLE Solid red, pump is in Standby when a contact closure is on the Standby inputs. Blinking red when potentiometer is set to \textcircled{b} .

3 Dedicated Relays

LEAK DETECT

- Detects when solution is present in the pump head
- Red LED blinks
- Sends relay to indicate leak is detected
- Option to allow pump to continue to run

RUN

- Solid Green LED
- Sends relay to indicate pump is operating

TRANSFER

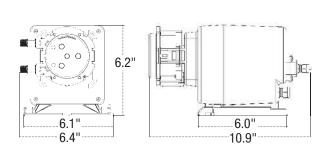
Sends relay from primary pump to transfer operation to a backup pump, if there is loss of power, a drive fault or a leak is detected.

S FIXED and VARIABLE SERIES

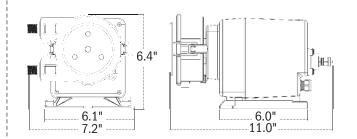
Weights and Dimensions

Shipping Weight 9 lbs (3.7 kg) Box Dimensions 14 x 9 x 10 in. (35 x 32 x 24 cm)

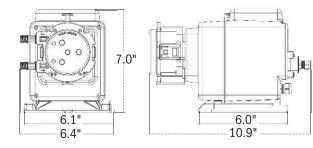
S3F Product Dimensions



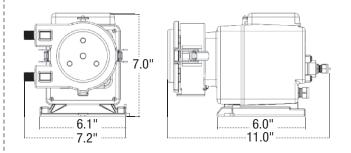
S4F Product Dimensions



S3V Product Dimensions



S4V Product Dimensions



Accessories Shipped with Each Pump

S3F & S3V

- 3 Connecting nuts 1/4" or 3/8"
- 3 Ferrules 1/4" or 6 mm Europe
- 1 Duckbill check valve 100 psi (6.9 bar) max. or Injection fitting 25 psi (1.7 bar) max.
- 1 Weighted suction line strainer 1/4", 3/8" or 6 mm *Europe*
- 1 20' Roll of suction/discharge tubing 1/4" or 3/8", white or UV black or 6 mm white *Europe*
- 1 Additional pump tube
- 2 Additional latches
- 1 Mounting bracket
- 1 Manual

S4F & S4V

- 3 Connecting nuts 3/8"
- 1 Ball check valve
- 1 Weighted suction line strainer 3/8"
- 1 20' Roll of suction/discharge tubing 3/8", white or UV black
- 1 Additional pump tube
- 1 Mounting bracket
- 1 Manual

S FIXED and VARIABLE SERIES

FIXED MODELS

VARIABLE MODELS



Specifications

Flow Rate Output Control S3F, S4F Fixed Rate S3V, S4V Potentiometer

Reproducibility ±2%

Maximum Working Pressure 25 psi (1.7 bar), 100 psi (6.9 bar)

Maximum Operating Temperature 104°F (40°C)

Maximum Altitude 6562 ft. (2000 m)

Maximum Suction Lift 25 ft (7.6 m) vertical lift, based on water

Motor Type Brushless DC motor

Shaft rpm (average maximum) 45

Duty Cycle Continuous

Maximum Viscosity 1500 Centipoise

Motor Voltage (Amp Draw) 120V 60Hz 1PH (0.6), 230V 60Hz 1PH (0.3),

230V 50Hz 1PH (0.3) Power Cord Type

120V 60Hz SJTOWA, 230V 60Hz SJTOWA, 230V 50Hz H05RN-F

Power Cord Plug End 120V 60Hz 5-15P, 230V 60Hz 6-15P, 230V 50Hz CEE7/7

Power Cord Length 6 ft (1.8 m) **Classification** Indoor/Outdoor

Materials of Construction

All Housings Polycarbonate

Pump Tube

- Santoprene® (FDA approved) OR
- Versilon[®] (excl. S4F, S4V)

Check Valve Duckbill S3F, S3V

Santoprene® (FDA approved) or Pellethane®

Ball Check Valve Components S4F, S4V

- Ceramic ball (FDA approved); tantalum spring; FKM seat & O-ring **OR**
- Ceramic ball (FDA approved); stainless steel spring; EPDM seat; Santoprene® 0-ring

Pump Head Rollers Polyethylene

Roller Bushings Oil impregnated bronze

Suction/Discharge Tubing, Ferrules Polyethylene (FDA approved)

Tube Fittings & Injection Fittings PVC or Polypropylene (both NSF listed)

Connecting Nuts PVC or Polypropylene (both NSF listed)

3/8" Adapter S3F, S3V PVC or Polypropylene (both NSF listed)

Suction Line Strainer and Cap PVC or Polypropylene (both NSF listed); ceramic weight

All Fasteners Stainless steel

Pump Head Latches S3F, S3V Polypropylene S4F, S4V Stainless steel

Leak Detect Components Hastelloy® NOTE: Refer to the chemical guide for material compatibility.

Agency Listings

S3F, S3V

- NEMA 4X
- IAPMO Listed, conforms to standard NSF/ANSI 61 & 372 (excludes any model with a Versilon[®] tube).
- INTERTEK/ETL Sanitation Listed, conforms to standard NSF/ANSI 50 (excludes any model with a Versilon[®] tube).



S4F, S4V

- NEMA 4X
- IAPMO Listed, conforms to standard NSF/ANSI 61 & 372.
- INTERTEK/ETL Sanitation Listed, conforms to standard NSF/ANSI 50 (excludes any model with a 7X tube or a ball check valve with stainless steel spring).



FIXED SERIES

S3F Models 25 psi (1.7 bar) max. Flow Rate Outputs

Item Number Prefix	Pump Tube	Gallons per Day	Gallons per Hour	Ounces per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Hour	Milliliters per Minute
S3F03	3	40.0	1.67	213.0	3.56	151.0	6.31	6309.0	105.0
S3F04	4	60.0	2.50	320.0	5.33	227.0	9.46	9464.0	158.0
S3F05	5	85.0	3.54	453.0	7.56	322.0	13.41	13407.0	223.0
		Approximate Output @ 50/60Hz							

S3F Models 100 psi (6.9 bar) max. Flow Rate Outputs

Item Number Prefix	Pump Tube	Gallons per Day	Gallons per Hour	Ounces per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Hour	Milliliters per Minute
S3F01	1	5.0	0.21	27.0	0.44	19.0	0.79	789.0	13.0
S3F02	2	17.0	0.71	91.0	1.51	64.0	2.68	2681.0	45.0
S3F07	7	40.0	1.67	213.0	3.56	151.0	6.31	6309.0	105.0
↓		Approximate Output @ 50/60Hz							
					Ν				
To Order, Build Pump Item Number Insert item number prefix						 ר			

Insert item number prefix and code for each specification.

code	Voltage & Hertz
AA	120V 60Hz
BA	230V 60Hz
DC	230V 50Hz International
	ct the factory for additional e and plug options.



- Santoprene[®]
 Versilon[®] (#7 not available)
- Refer to the chemical guide for material compatibility.
- 50 6 mm White Europe

1/4" White

3/8" White

1/4" UV Black

3/8" UV Black

10

20

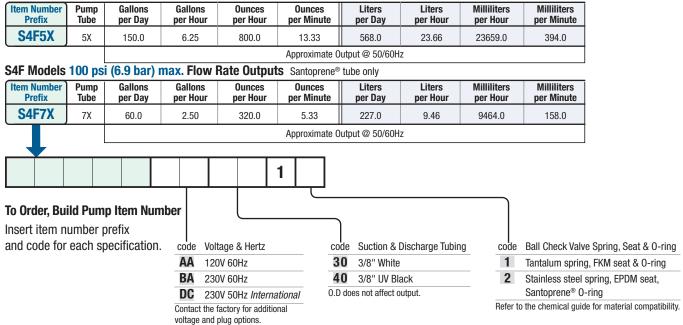
30

40

code Suction & Discharge Tubing

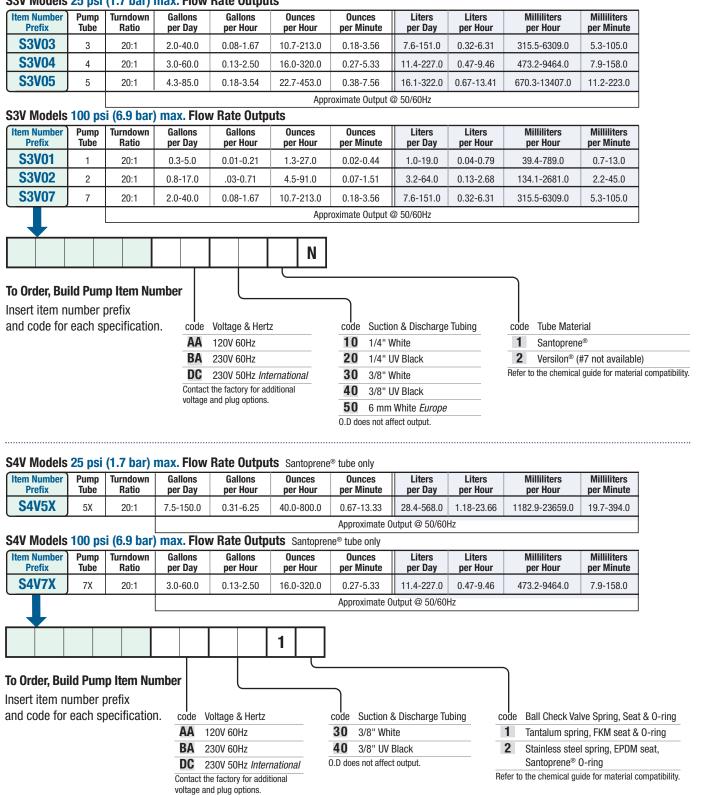
0.D does not affect output.

S4F Models 25 psi (1.7 bar) max. Flow Rate Outputs Santoprene® tube only



NOTICE: The information within these charts is solely intended for use as a guide. The output data is an approximation based on pumping water under a controlled testing environment. Many variables can affect the output of the pump. Stenner Pump Company recommends that all metering pumps undergo field calibration by means of analytical testing to confirm their outputs.

VARIABLE SERIES



NOTICE: The information within these charts is solely intended for use as a guide. The output data is an approximation based on pumping water under a controlled testing environment. Many variables can affect the output of the pump. Stenner Pump Company recommends that all metering pumps undergo field calibration by means of analytical testing to confirm their outputs.