

Performance Indicators Activated by Pump Conditions

Pump	Com	nunication	
Conditions	Display Alarm on control panel	Three Output Relays to pump, system or device	Modes of Operation
Tube Change	\checkmark	\checkmark	
Tube Leak	\checkmark	\checkmark	
Standby	\checkmark	\checkmark	
Drive Fault	\checkmark	\checkmark	All Modes of Operation
Off	\checkmark	\checkmark	All would of Operation
Run		\checkmark	
Mode Change		\checkmark	
Transfer**		\checkmark	
Repeat Pulse		V	Manual, 4-20mA [*] , 0-10VDC [*] , Pulse, 7 Day Timer, Cycle Timer, PPM Feed: Flow switch
High Signal	\checkmark	\checkmark	4-20mA* or 0-10VDC*
Low Signal	\checkmark	\checkmark	4-20mA* or 0-10VDC*
High Flow	\checkmark	\checkmark	Hall Effect or PPM Feed: Hall Effect
Low Flow	\checkmark	\checkmark	Hall Effect
Signal Overrun	\checkmark	\checkmark	Pulse

* Scalable, invertible

** Transfer operation from a primary pump to a backup pump via a relay.

Designed for Demanding Applications

The S Series is a peristaltic metering pump built to NEMA 4X for demanding applications. Select from multiple operational modes and performance indicators that can interface with process control systems utilizing a 4-20mA output signal and three relay outputs. Program the pump for your application with the control panel with OLED display.

Quick Facts

- 0.05 to 60.0 gpd, pressures to 100 psi maximum
- 0.40 to 150.0 gpd, pressures to 25 psi maximum
- Digital keypad with OLED display
- Tube leak detector
- Tube life timer
- · Password protection
- · Connect primary to back-up S Series

Features

- Advantages of Stenner peristaltic pumps on page 1
- Fast tube replacement without tools with patented QuickPro[®] pump head
- Brushless DC motor with ball bearing support
- Switch mode power supply
- Totally enclosed housing
- Modbus capable
- NEMA 4X
- NSF 61 & 372
- cULus for indoor/outdoor use
- CE IP65
- NSF 50 (specific models)

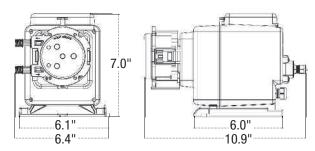
Modes of Operation

- Manual
- 4-20mA (scalable & invertible)
- 0-10VDC (scalable & invertible)
- Pulse
- Hall Effect
- 7 Day Timer
- PPM Feed: Flow Switch or Hall Effect
- Cycle Timer

S SERIES S30 Models

S30 Models Weights and Dimensions

Shipping Weight 9 lbs (3.7 kg) Box Dimensions 14 x 9 x 10 in. (35 x 23 x 24 cm) Product Dimensions



S30 Models Accessories Shipped with Each Pump

- 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 Quick Start Guide

Download complete S Series Manual www.stenner.com

S30 Models

Specifications Flow Rate Output Control Varies per control mode; digital keypad **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 50Hz 1PH (0.3) Hall Effect Max. Input Frequency 100 KHz Pulse Duration Required 10 milliseconds Minimum duration required for pump to read signal. **Power Cord Type** 120V 60Hz SJTOWA, 230V 50Hz H05RN-F **Power Cord Plug End** 120V 60Hz 5-15P, 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® **Check Valve Duckbill** Santoprene® (FDA approved) or Pellethane® 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 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 Polypropylene Leak Detect Components Hastelloy® NOTE: Refer to the chemical guide for material compatibility.

Agency Listings

- 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).



Item Number Prefix	Pump Tube	Turndown Ratio	Gallons per Day	Gallons per Hour	Ounces per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Hour	Milliliters per Minute
S3003	3	100:1	0.40 to 40.0	0.017 to 1.67	2.13 to 213.0	0.036 to 3.56	1.51 to 151.0	0.063 to 6.31	63.09 to 6309.0	1.05 to 105.0
S3004	4	100:1	0.60 to 60.0	0.025 to 2.50	3.20 to 320.0	0.053 to 5.33	2.27 to 227.0	0.095 to 9.46	94.64 to 9464.0	1.58 to 158.0
S3005	5	100:1	0.85 to 85.0	0.035 to 3.54	4.53 to 453.0	0.076 to 7.56	3.22 to 322.0	0.134 to 13.41	134.07 to 13407.0	2.23 to 223.0
		·			°	Approximate	e Output @ 50/6	OHz		

S30 Models 25 psi (1.7 bar) max. Flow Rate Outputs

S30 Models 100 psi (6.9 bar) max. Flow Rate Outputs

Item Number Prefix	Pump Tube	Turndown Ratio	Gallons per Day	Gallons per Hour	Ounces per Hou	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Hour	Milliliters per Minute
S3001	1	100:1	0.05 to 5.0	0.002 to 0.21	0.27 to 27	0 0.004 to 0.44	0.19 to 19.0	0.008 to 0.79	7.89 to 789.0	0.13 to 13.0
S3002	2	100:1	0.17 to 17.0	0.007 to 0.71	0.91 to 91	0 0.015 to 1.51	0.64 to 64.0	0.027 to 2.68	26.81 to 2681.0	0.45 to 45.0
S3007	7	100:1	0.40 to 40.0	0.017 to 1.67	2.13 to 213	0.036 to 3.56	1.51 to 151.0	0.063 to 6.31	63.09 to 6309.0	1.05 to 105.0
						Approximat	e Output @ 50/6	OHz	1	
						-				
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To Order, Bu	ild Pum	p Item Nu	mber						_	
Insert item n										
and code for	each s	pecificatio	n.							
			code	Voltage & Her	tz		ction & Discharg	ge Tubing	code Tube Mate	
			AA	120V 60Hz			" White		1 Santopren	e®
			DC	230V 50Hz In	ternational	20 1/4	" UV Black		2 Versilon [®]	
				t the factory for a		30 3/8	" White		(#7 not av	,
			voitage	e and plug options	i.	40 3/8	" UV Black		Refer to the chemica for material compati	
						50 6 n	nm White <i>Europ</i>	е	ior material compati	omry.
						0.D does no	t affect output.			

NOTE: Duckbill check valve included with pumps rated 100 psi (6.9 bar) maximum.

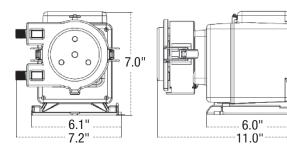


NOTICE: The information within these charts is solely intended for use as a guide. The output data is an approximation based on pumping water under a controlled testing environment. Many variables can affect the output of the pump. Stenner Pump Company recommends that all metering pumps undergo field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

S SERIES S40 Models

S40 Models Weights and Dimensions

Shipping Weight 9 lbs (3.7 kg) Box Dimensions 14 x 9 x 10 in. (35 x 23 x 24 cm) Product Dimensions



S40 Models Accessories Shipped with Each Pump

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

Download complete S Series Manual www.stenner.com

S40 Models

Specifications

Flow Rate Output Control Varies per control mode; digital keypad

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 50Hz 1PH (0.3)

Hall Effect Max. Input Frequency 100 KHz

Pulse Duration Required 10 milliseconds Minimum duration required for pump to read signal.

Power Cord Type 120V 60Hz SJTOWA, 230V 50Hz H05RN-F

Power Cord Plug End 120V 60Hz 5-15P, 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)

Ball Check Valve Components

- 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

Polyethylene (FDA approved)

Tube Fittings, Injection Fittings

PVC or Polypropylene (both NSF listed)

Connecting Nuts

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 Stainless steel

Leak Detect Components Hastelloy®

NOTE: Refer to the chemical guide for material compatibility.

Agency Listings

- 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 7X tube or a ball check valve with stainless steel spring).



S40 Models 25 psi (1.7 bar) max. Flow Rate Outputs

Item Number Prefix	Pump Tube	Turndown Ratio	Gallons per Day	Gallons per Hour	Ounces per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Hour	Milliliters per Minute
S405X	5X	100:1	1.5 to 150.0	0.06 to 6.25	8.0 to 800.0	0.13 to 13.33	5.7 to 567.0	0.24 to 23.66	236.59 to 23659.0	3.94 to 394.0
						Approximate 0	utput @ 50/60	Hz		

S40 Models 100 psi (6.9 bar) max. Flow Rate Outputs

Item Number Prefix	Pump Tube	Turndown Ratio	Gallons per Day		llons Hour		unces r Hour		nces Minute	Liters per Day	Liters per Hour		Milliliters per Hour	Milliliters per Minute
S407X	7X	100:1	0.6 to 60.0	0.03	to 2.50 3.2 to 320.0		0.053	8 to 5.34	2.3 to 227.0	0.09 to 9.46	94	4.64 to 9464.0	1.58 to 158.0	
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						1								
						-								
To Order, Bu	ild Pum	p Item Nu	Imber				Ĺ							
Insert item n								_						
and code for	each s	pecificatio	n.											
			code	Voltage	& Hertz			code	Suction	& Discharge Tu	ubing	code	Ball Check Va	lve Spring, Sea
			AA	120V 6	OHz			30	3/8" Wh	ite		1	Tantalum spri	ng, FKM seat &
			DC	230V 5	OHz <i>Inte</i>	rnation	al	40	3/8" UV	Black		2	Stainless stee	el spring, EPDM
				the facto		litional		0.D doe	s not affec	t output.	-		Santoprene®	0
			vollage	anu piuy	options.						I	Reter t	o the chemical gu	lide for material c

NOTE: Ball check valve included with S Series S40 models.



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.