STENNER PUMPS®

ADJUSTABLE FLOW RATE PUMPS
FIXED FLOW RATE PUMPS
PROPORTIONAL INJECTION PUMPS
TIMER ACTIVATED PUMPS
OEM PUMPS
METER SYSTEMS
TANK SYSTEMS
ACCESSORIES
PARTS

STENNER PUMP COMPANY
CATALOG

CONTENTS

STENNER PUMP ADVANTAGES

‣ Self-priming

‣ Can inject off-gassing solutions

‣ Simple tube replacement

‣ 3 point roller assists anti-siphoning

‣ Output reproducibility

‣ Output volume not affected by back pressure

‣ Tube lubrication not required

‣ No vapor lock or loss of prime

‣ Foot valve not required to prime

904.641.1666   800.683.2378   sales@stenner.com

CLASSIC SERIES

Electromechanical | Single or Double Head | Adjustable or Fixed

Feed Rate Control

Single Head Adjustable

Single Head Fixed

Tank System

Proportional Injection System

Feed Rate Control

Double Head Adjustable

Double Head Fixed

Quick Facts

CLASSIC 45

- Single head, adjustable or fixed output
- Up to 22.0 gpd @ 100 psi max.
  Up to 50.0 gpd @ 25 psi max.
- 26 rpm
- Classic 45 pump item number begins with 45

CLASSIC 85

- Single head, adjustable or fixed output
- Up to 40.0 gpd @100 psi max.
  Up to 85.0 gpd @ 25 psi max.
- 44 rpm
- Classic 85 pump item number begins with 85

CLASSIC 100

- Double head, adjustable or fixed output
- Up to 20.0 gpd @ 100 psi max.
  Up to 100.0 gpd @25 psi max.
- 26 rpm
- Classic 100 pump item number begins with 100

CLASSIC 170

- Double head, adjustable or fixed output
- Up to 34.0 gpd @ 100 psi max.
  Up to 170.0 gpd @ 25 psi max.
- 44 rpm
- Classic 170 pump item number begins with 170
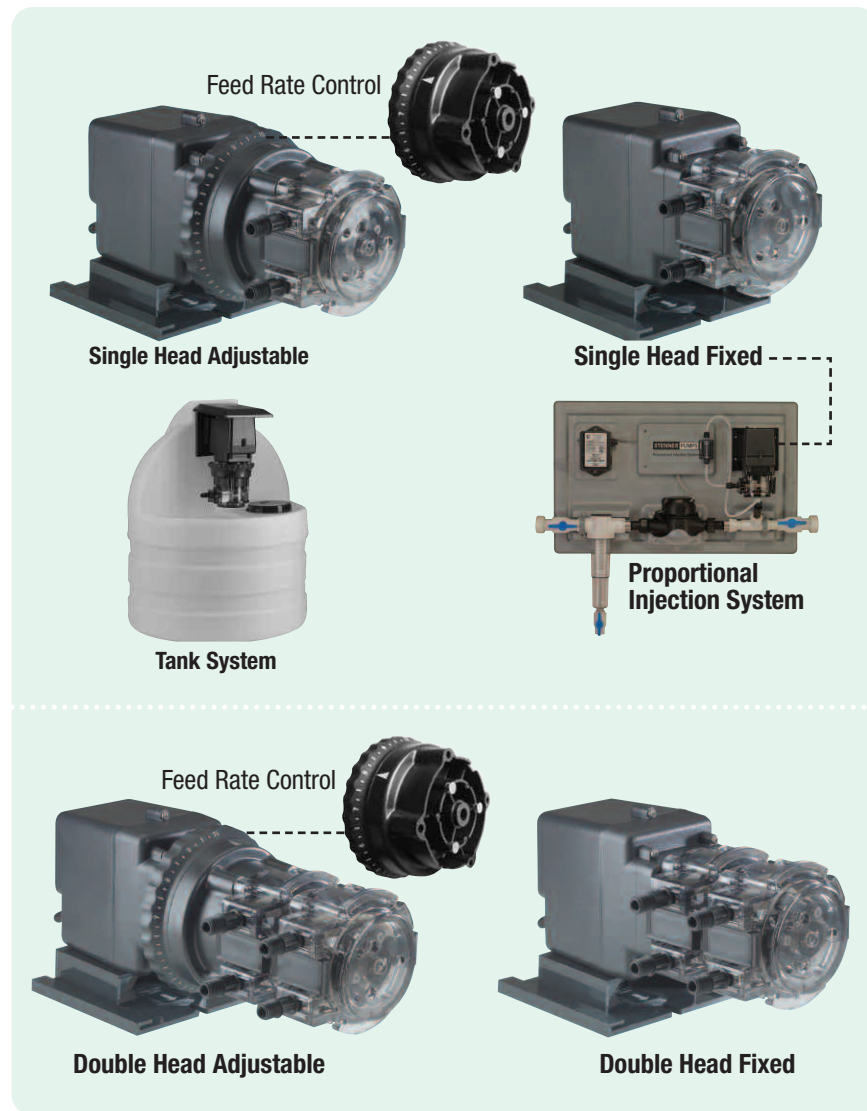
Features

- Advantages of Stenner peristaltic pumps on page 1
- Tube replacement without tools with patented QuickPro® pump head
- Adjustable models:
  - External adjustable dial ring on feed rate control
  - 20:1 turndown, 2.5% increments
- Single head models:
  - Available as Tank Systems: 7.5, 15, 30 gallon
  - Fixed output pump can be utilized for proportional dosing, refer to pages 56-57
- Components are interchangeable between models
- Tank System ships pre-assembled for quick installations

Versatile and Time-Tested

For over 65 years, the versatile peristaltic Classic Series remains a popular choice with installers. The pump is easy to service or convert to another model. Injection can be directly into the water line. Pump can be activated by a pressure switch or controller.
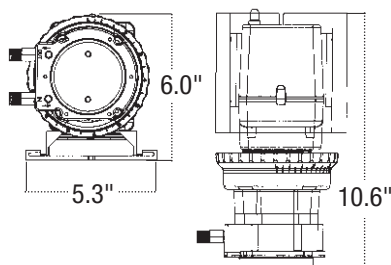
Weights and Dimensions

Single Head Adjustable

Shipping Weight 9 lbs (3.9 kg)

Box Dimensions
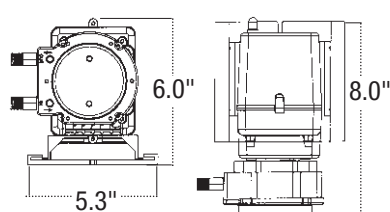13 x 8 x 10 in. (33 x 20 x 24 cm)

Product Dimensions

6.0" 5.3" 10.6"

Single Head Fixed

Shipping Weight 8 lbs (3.4 kg)

Box Dimensions
13 x 8 x 10 in. (33 x 20 x 24 cm)

Product Dimensions

6.0" 8.0" 5.3"

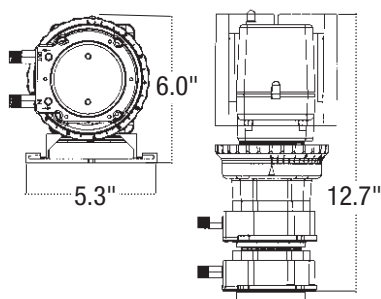### Double Head Adjustable

Shipping Weight 10 lbs (4.5 kg)

Box Dimensions
18 x 8 x 10 in. (46 x 21 x 25 cm)

Product Dimensions

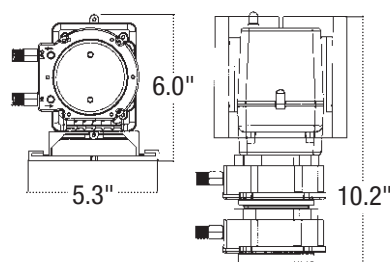6.0" 5.3" 12.7"

Double Head Fixed

Shipping Weight 10 lbs (4.1 kg)

Box Dimensions
18 x 8 x 10 in. (46 x 21 x 25 cm)

Product Dimensions

6.0" 5.3" 10.2"

Accessories Shipped with Each Pump

3 Connecting nuts 1/4" & 3 Ferrules 1/4" or 6 mm *Europe*
or 3 Connecting Nuts & 2 Adapters 3/8"

1 Injection Fitting 25 psi (1.7 bar) max.
or 1 Duckbill Check Valve 100 psi (6.9 bar) max.

1 Weighted Suction Line Strainer 1/4", 3/8" or 6 mm *Europe*

20' Suction/Discharge Tubing 1/4" or 3/8", white or UV black
or 20' Suction/Discharge Tubing, white, 6 mm *Europe*

1 Additional Pump Tube

2 Additional Latches

1 Mounting Bracket

1 Manual

NOTE: Double head pumps include another set of accessories listed above.

Specifications

Flow Rate Output Control
Adjustable model: External dial ring

Reproducibility ±2%

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

Maximum Operating Temperature 125°F (52°C)

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

Motor Type 1/30 HP, shaded pole, class B

Shaft rpm (average maximum) 26 or 44

Duty Cycle Continuous

Maximum Viscosity 1500 Centipoise

Motor Voltage (Amp Draw)
120V 60Hz 1PH (1.7), 220V 60Hz 1PH (0.9),
230V 50Hz 1PH (0.9), 250V 50Hz 1PH (0.9)

Power Cord Type
120V 60Hz, 220V 60Hz: SJTOW
230V 50Hz, 250V 50Hz: H05VV-F

Power Cord Plug End
120V 60Hz NEMA 5-15P, 220V 60Hz NEMA 6-15P,
230V 50Hz CEE7/7, 250V 50Hz CEE7/7

Power Cord Length 6 ft (1.8 m)

Classification Indoor and suitable for Outdoor when installed with a Stenner Rain Roof part # MP90000

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, Check Valve 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

NOTE: Refer to the chemical guide for material compatibility.

Agency Listings

- IAPMO Listed, conforms to standard NSF/ANS 61 & 372 (excludes any model with a Versilon® tube).
- INTERTEK/ETL Sanitation Listed, Adjustable models conform to standard NSF/ANSI 50 (excludes any model with a Versilon® tube).
- INTERTEK/ETL Sanitation Listed, Fixed models conform to standard NSF/ANSI 50 only when used with standard NSF/ANSI 50 listed controllers.

Listings vary by model.

Single Head Adjustable 25 psi (1.7 bar) max. Flow Rate Outputs Approximate 20:1 turndown, 2.5% increments

Model	Item Number Prefix	Pump Tube	Gallons per Day	Gallons per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Minute	Liters per Day	Liters per Hour	Milliliters per Minute
45M1	45MJL1	1	0.2 to 3.0	0.01 to 0.13	0.02 to 0.27	0.8 to 11.4	0.03 to 0.48	0.56 to 7.92	0.6 to 9.1	0.02 to 0.38	0.31 to 6.32
45M2	45MJL2	2	0.5 to 10.0	0.02 to 0.42	0.04 to 0.89	1.9 to 37.9	0.08 to 1.58	1.32 to 26.32	1.5 to 30.3	0.06 to 1.26	1.04 to 21.04
45M3	45MJL3	3	1.1 to 22.0	0.05 to 0.92	0.10 to 1.96	4.2 to 83.3	0.18 to 3.47	2.92 to 57.85	3.3 to 66.6	0.14 to 2.78	2.29 to 46.25
45M4	45MJL4	4	1.7 to 35.0	0.07 to 1.46	0.15 to 3.11	6.4 to 132.5	0.27 to 5.52	4.44 to 92.01	5.1 to 106.0	0.21 to 4.42	3.54 to 73.61
45M5	45MJL5	5	2.5 to 50.0	0.10 to 2.08	0.22 to 4.44	9.5 to 189.3	0.40 to 7.89	6.60 to 131.43	7.6 to 151.4	0.32 to 6.31	5.28 to 105.14
85M1	85MJL1	1	0.3 to 5.0	0.01 to 0.21	0.03 to 0.44	1.1 to 18.9	0.05 to 0.79	0.76 to 13.13	0.9 to 15.1	0.04 to 0.63	0.52 to 10.49
85M2	85MJL2	2	0.8 to 17.0	0.03 to 0.71	0.07 to 1.51	3.0 to 64.4	0.13 to 2.68	2.08 to 44.65	2.4 to 51.5	0.10 to 2.15	1.67 to 35.76
85M3	85MJL3	3	2.0 to 40.0	0.08 to 1.67	0.18 to 3.55	7.6 to 151.4	0.32 to 6.31	5.27 to 105.14	6.1 to 121.1	0.25 to 5.05	4.24 to 84.10
85M4	85MJL4	4	3.0 to 60.0	0.13 to 2.5	0.27 to 5.33	11.4 to 227.1	0.48 to 9.46	7.92 to 157.71	9.1 to 181.7	0.38 to 7.57	6.32 to 126.18
85M5	85MJL5	5	4.3 to 85.0	0.18 to 3.54	0.38 to 7.55	16.3 to 321.8	0.68 to 13.4	11.32 to 223.40	13.0 to 257.4	0.54 to 10.73	9.03 to 178.75
						Approximate Output @ 60Hz			Approximate Output @ 50Hz		

Single Head Adjustable 100 psi (6.9 bar) max. Flow Rate Outputs Approximate 20:1 turndown, 2.5% increments

Model	Item Number Prefix	Pump Tube	Gallons per Day	Gallons per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Minute	Liters per Day	Liters per Hour	Milliliters per Minute
45MHP2	45MJH1	1	0.2 to 3.0	0.01 to 0.13	0.02 to 0.27	0.8 to 11.4	0.03 to 0.48	0.56 to 7.92	0.6 to 9.1	0.02 to 0.38	0.31 to 6.32
45MHP10	45MJH2	2	0.5 to 10.0	0.02 to 0.42	0.04 to 0.89	1.9 to 37.9	0.08 to 1.58	1.32 to 26.32	1.5 to 30.3	0.06 to 1.26	1.04 to 21.04
45MHP22	45MJH7	7	1.1 to 22.0	0.05 to 0.92	0.10 to 1.96	4.2 to 83.3	0.18 to 3.47	2.92 to 57.85	3.3 to 66.6	0.14 to 2.78	2.29 to 46.25
85MHP5	85MJH1	1	0.3 to 5.0	0.01 to 0.21	0.03 to 0.44	1.1 to 18.9	0.05 to 0.79	0.76 to 13.13	0.9 to 15.1	0.04 to 0.63	0.52 to 10.49
85MHP17	85MJH2	2	0.8 to 17.0	0.03 to 0.71	0.07 to 1.51	3.0 to 64.4	0.13 to 2.68	2.08 to 44.65	2.4 to 51.5	0.10 to 2.15	1.67 to 35.76
85MHP40	85MJH7	7	2.0 to 40.0	0.08 to 1.67	0.18 to 3.55	7.6 to 151.4	0.32 to 6.31	5.27 to 105.14	6.1 to 121.1	0.25 to 5.05	4.24 to 84.10
						Approximate Output @ 60Hz			Approximate Output @ 50Hz		

To Order, Build Pump Item Number
Insert item number prefix
and code for each specification.

code	Voltage & Hertz
A	120V 60Hz
B	220V 60Hz
C	230V 50Hz *International*
D	250V 50Hz *International*

Contact the factory for additional voltage and plug options.

code	Suction & Discharge Tubing
1	1/4" White
2	1/4" UV Black
3	3/8" White
4	3/8" UV Black
5	6 mm White *Europe*

O.D does not affect output.

code	Tube Material
S	Santoprene®
T	Versilon® (#7 not available)

Refer to the chemical guide for material compatibility.

OPTIONAL

To order **Tank System**, insert code before pump item number.

code	Tank System
S7G	7.5-Gallon UV Gray
S7N	7.5-Gallon White
S1G	15-Gallon UV Gray
S1N	15-Gallon White
S3G	30-Gallon UV Gray
S3N	30-Gallon White

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. To reduce feed rate control wear, select the pump with a maximum flow rate output that most closely matches your application's maximum need.
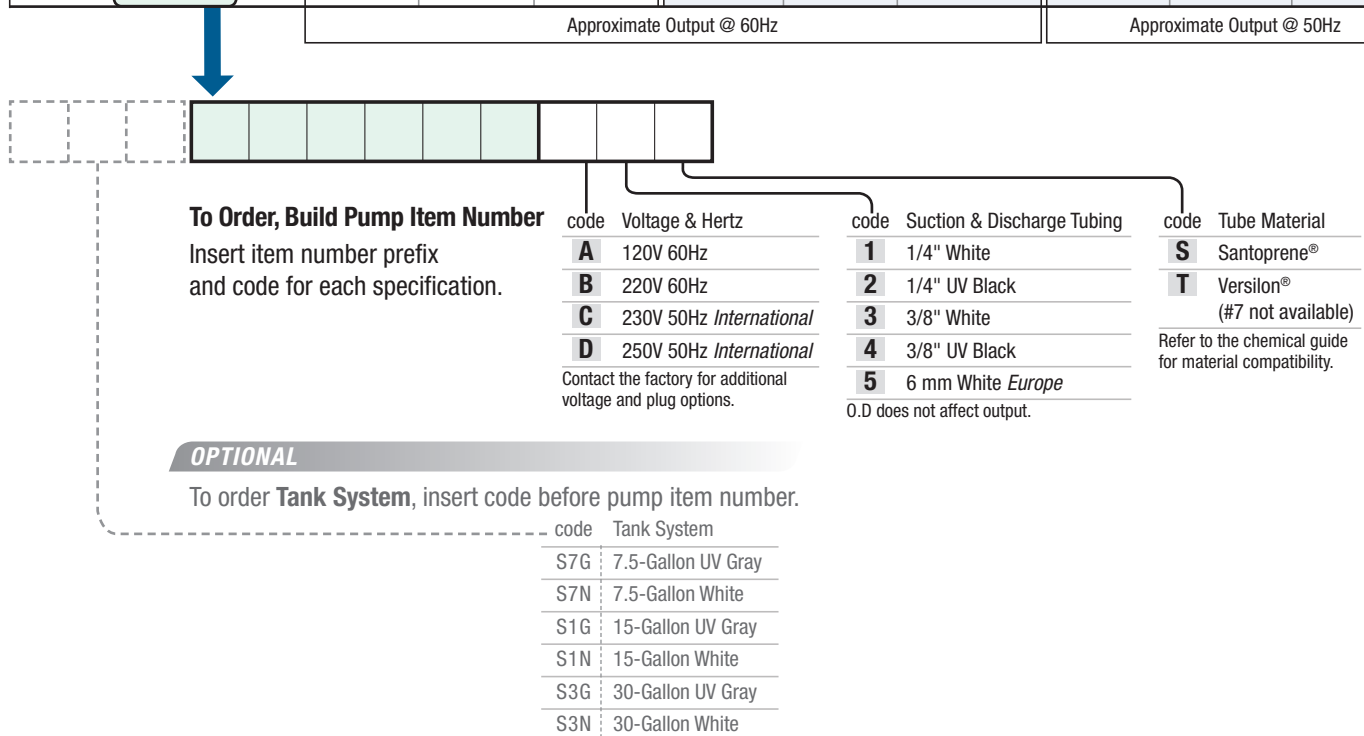
CLASSIC SERIES

Single Head Fixed 25 psi (1.7 bar) max. Flow Rate Outputs

Model	Item Number Prefix	Pump Tube	Gallons per Day	Gallons per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Minute	Liters per Day	Liters per Hour	Milliliters per Minute
45MP1	45MFL1	1	3.0	0.13	0.27	11.4	0.48	7.92	9.1	0.38	6.32
45MP2	45MFL2	2	10.0	0.42	0.89	37.9	1.58	26.32	30.3	1.26	21.04
45MP3	45MFL3	3	22.0	0.92	1.96	83.3	3.47	57.85	66.6	2.78	46.25
45MP4	45MFL4	4	35.0	1.46	3.11	132.5	5.52	92.01	106.0	4.42	73.61
45MP5	45MFL5	5	50.0	2.08	4.44	189.3	7.89	131.43	151.4	6.31	105.14
85MP1	85MFL1	1	5.0	0.21	0.44	18.9	0.79	13.13	15.1	0.63	10.49
85MP2	85MFL2	2	17.0	0.71	1.51	64.4	2.68	44.65	51.5	2.15	35.76
85MP3	85MFL3	3	40.0	1.67	3.55	151.4	6.31	105.14	121.1	5.05	84.10
85MP4	85MFL4	4	60.0	2.50	5.33	227.1	9.46	157.71	181.7	7.57	126.18
85MP5	85MFL5	5	85.0	3.54	7.55	321.8	13.40	223.40	257.4	10.73	178.75
					Approximate Output @ 60Hz				Approximate Output @ 50Hz		

Single Head Fixed 100 psi (6.9 bar) max. Flow Rate Outputs

Model	Item Number Prefix	Pump Tube	Gallons per Day	Gallons per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Minute	Liters per Day	Liters per Hour	Milliliters per Minute
45MPHP2	45MFH1	1	3.0	0.13	0.27	11.4	0.48	7.92	9.1	0.38	6.32
45MPHP10	45MFH2	2	10.0	0.42	0.89	37.9	1.58	26.32	30.3	1.26	21.04
45MPHP22	45MFH7	7	22.0	0.92	1.96	83.3	3.47	57.85	66.6	2.78	46.25
85MPHP5	85MFH1	1	5.0	0.21	0.44	18.9	0.79	13.13	15.1	0.63	10.49
85MPHP17	85MFH2	2	17.0	0.71	1.51	64.4	2.68	44.65	51.5	2.15	35.76
85MPHP40	85MFH7	7	40.0	1.67	3.55	151.4	6.31	105.14	121.1	5.05	84.10
					Approximate Output @ 60Hz				Approximate Output @ 50Hz		

To Order, Build Pump Item Number

Insert item number prefix and code for each specification.

code	Voltage & Hertz
A	120V 60Hz
B	220V 60Hz
C	230V 50Hz *International*
D	250V 50Hz *International*

Contact the factory for additional voltage and plug options.

code	Suction & Discharge Tubing
1	1/4" White
2	1/4" UV Black
3	3/8" White
4	3/8" UV Black
5	6 mm White *Europe*

O.D does not affect output.

code	Tube Material
S	Santoprene®
T	Versilon® (#7 not available)

Refer to the chemical guide for material compatibility.

OPTIONAL

To order **Tank System**, insert code before pump item number.

code	Tank System
S7G	7.5-Gallon UV Gray
S7N	7.5-Gallon White
S1G	15-Gallon UV Gray
S1N	15-Gallon White
S3G	30-Gallon UV Gray
S3N	30-Gallon White

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.

Double Head Adjustable 25 psi (1.7 bar) max. Flow Rate Outputs Approximate 20:1 turndown, 2.5% increments

Model	Item Number Prefix	Pump Tube	Gallons per Day	Gallons per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Minute	Liters per Day	Liters per Hour	Milliliters per Minute
100DM1	100JL1	1	0.3 to 6.0	0.01 to 0.25	0.03 to 0.53	1.1 to 22.7	0.05 to 0.95	0.76 to 15.76	0.9 to 18.2	0.04 to 0.76	0.61 to 12.64
100DM2	100JL2	2	1.0 to 20.0	0.04 to 0.83	0.09 to 1.78	3.8 to 75.7	0.16 to 3.15	2.64 to 52.57	3.0 to 60.6	0.13 to 2.53	2.11 to 42.06
100DM3	100JL3	3	2.2 to 44.0	0.09 to 1.83	0.19 to 3.91	8.3 to 166.5	0.35 to 6.94	5.76 to 115.63	6.6 to 133.2	0.28 to 5.55	4.58 to 92.50
100DM4	100JL4	4	3.5 to 70.0	0.15 to 2.92	0.31 to 6.22	13.2 to 265.0	0.55 to 11.04	9.17 to 184.03	10.6 to 212.0	0.44 to 8.83	7.36 to 147.22
100DM5	100JL5	5	5.0 to 100.0	0.21 to 4.17	0.44 to 8.88	18.9 to 378.5	0.79 to 15.77	13.13 to 262.88	15.1 to 302.8	0.63 to 12.61	10.49 to 210.28
170DM1	170JL1	1	0.5 to 10.0	0.02 to 0.42	0.04 to 0.89	1.9 to 37.9	0.08 to 1.58	1.32 to 26.32	1.5 to 30.3	0.06 to 1.26	1.04 to 21.04
170DM2	170JL2	2	1.7 to 34.0	0.07 to 1.42	0.15 to 3.02	6.4 to 128.7	0.27 to 5.36	4.44 to 89.38	5.1 to 102.6	0.21 to 4.29	3.54 to 71.55
170DM3	170JL3	3	4.0 to 80.0	0.17 to 3.33	0.35 to 7.11	15.1 to 302.8	0.63 to 12.62	10.49 to 210.28	12.1 to 242.2	0.50 to 10.09	8.40 to 168.22
170DM4	170JL4	4	6.0 to 120.0	0.25 to 5.00	0.53 to 10.66	22.7 to 454.2	0.95 to 18.93	15.76 to 315.42	18.2 to 363.4	0.76 to 15.14	12.64 to 252.36
170DM5	170JL5	5	8.5 to 170.0	0.35 to 7.08	0.76 to 15.10	32.2 to 643.5	1.34 to 26.80	22.36 to 446.88	25.7 to 514.8	1.07 to 21.45	17.92 to 357.50
			Approximate Output @ 60Hz						Approximate Output @ 50Hz		

Double Head Adjustable 100 psi (6.9 bar) max. Flow Rate Outputs Approximate 20:1 turndown, 2.5% increments

Model	Item Number Prefix	Pump Tube	Gallons per Day	Gallons per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Minute	Liters per Day	Liters per Hour	Milliliters per Minute
100DMHP5	100JH1	1	0.3 to 6.0	0.01 to 0.25	0.03 to 0.53	1.1 to 22.7	0.05 to 0.95	0.76 to 15.76	0.9 to 18.2	0.04 to 0.76	0.61 to 12.64
100DMHP20	100JH2	2	1.0 to 20.0	0.04 to 0.83	0.09 to 1.78	3.8 to 75.7	0.16 to 3.15	2.64 to 52.57	3.0 to 60.6	0.13 to 2.53	2.11 to 42.06
170DMHP9	170JH1	1	0.5 to 10.0	0.02 to 0.42	0.04 to 0.89	1.9 to 37.9	0.08 to 1.58	1.32 to 26.32	1.5 to 30.3	0.06 to 1.26	1.04 to 21.04
170DMHP34	170JH2	2	1.7 to 34.0	0.07 to 1.42	0.15 to 3.02	6.4 to 128.7	0.27 to 5.36	4.44 to 89.38	5.1 to 102.6	0.21 to 4.29	3.54 to 71.55
			Approximate Output @ 60Hz						Approximate Output @ 50Hz		

To Order, Build Pump Item Number

Insert item number prefix
and code for each specification.

code	Voltage & Hertz
A	120V 60Hz
B	220V 60Hz
C	230V 50Hz *International*
D	250V 50Hz *International*

Contact the factory for additional
voltage and plug options.

code	Suction & Discharge Tubing
1	1/4" White
2	1/4" UV Black
3	3/8" White
4	3/8" UV Black
5	6 mm White *Europe*

O.D does not affect output.

code	Tube Material
S	Santoprene®
T	Versilon® (#7 not available)

Refer to the chemical guide
for material compatibility.

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. To reduce feed rate control wear, select the pump with a maximum flow rate output that most closely matches your application's maximum need.

Double Head Fixed 25 psi (1.7 bar) max. Flow Rate Outputs

Model	Item Number Prefix	Pump Tube	Gallons per Day	Gallons per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Minute	Liters per Day	Liters per Hour	Milliliters per Minute
100DMP1	100FL1	1	6.0	0.25	0.53	22.7	0.95	15.76	18.2	0.76	12.64
100DMP2	100FL2	2	20.0	0.83	1.78	75.7	3.15	52.57	60.6	2.53	42.06
100DMP3	100FL3	3	44.0	1.83	3.91	166.5	6.94	115.63	133.2	5.55	92.50
100DMP4	100FL4	4	70.0	2.92	6.22	265.0	11.04	184.03	212.0	8.83	147.22
100DMP5	100FL5	5	100.0	4.17	8.88	378.5	15.77	262.88	302.8	12.61	210.28
170DMP1	170FL1	1	10.0	0.42	0.89	37.9	1.58	26.32	30.3	1.26	21.04
170DMP2	170FL2	2	34.0	1.42	3.02	128.7	5.36	89.38	102.6	4.29	71.55
170DMP3	170FL3	3	80.0	3.33	7.11	302.8	12.62	210.28	242.2	10.09	168.22
170DMP4	170FL4	4	120.0	5.00	10.66	454.2	18.93	315.42	363.4	15.14	252.36
170DMP5	170FL5	5	170.0	7.08	15.10	643.6	26.80	446.88	514.8	21.45	357.50
			Approximate Output @ 60Hz						Approximate Output @ 50Hz		

Double Head Fixed 100 psi (6.9 bar) max. Flow Rate Outputs

Model	Item Number Prefix	Pump Tube	Gallons per Day	Gallons per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Minute	Liters per Day	Liters per Hour	Milliliters per Minute
100DMPHP5	100FH1	1	6.0	0.25	0.53	22.7	0.95	15.76	18.2	0.76	12.64
100DMPHP20	100FH2	2	20.0	0.83	1.78	75.7	3.15	52.57	60.6	2.53	42.06
170DMPHP9	170FH1	1	10.0	0.42	0.89	37.9	1.58	26.32	30.3	1.26	21.04
170DMPHP34	170FH2	2	34.0	1.42	3.02	128.7	5.36	89.38	102.6	4.29	71.55
			Approximate Output @ 60Hz						Approximate Output @ 50Hz		

To Order, Build Pump Item Number

Insert item number prefix and code for each specification.

code	Voltage & Hertz
A	120V 60Hz
B	220V 60Hz
C	230V 50Hz *International*
D	250V 50Hz *International*

Contact the factory for additional voltage and plug options.

code	Suction & Discharge Tubing
1	1/4" White
2	1/4" UV Black
3	3/8" White
4	3/8" UV Black
5	6 mm White *Europe*

O.D does not affect output.

code	Tube Material
S	Santoprene®
T	Versilon® (#7 not available)

Refer to the chemical guide for material compatibility.

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.

S30

S40

S50

Quick Facts

- Variable speed with multiple modes of operation
- Up to 125.0 gpd @ 100 psi maximum
  Up to 315.0 gpd @25 psi maximum
- Totally enclosed housing, NEMA 4X
- Leak detection
- Tube life timer
- Password protection
- Backup pump capability
- Indoor/Outdoor
- 2 year warranty
- S Series pump item number begins with S30, S40, or S50

QuickStart in 5 Steps

1. ENTER pump max. flow rate output
2. CONFIGURE options
3 SELECT mode of operation
4. PROGRAM optional relays
5. RUN pump

Designed for Demanding Applications

The S Series metering pump is designed for demanding applications with a robust totally enclosed housing, built to the NEMA 4X standard. The pump has backup capability to seamlessly transfer operation from the primary to a backup pump when needed. With the OLED display on the control panel and the programmable output relays, an operator can monitor the performance status of the pump. The password protection prevents unauthorized access to the programmed settings.

The pump interfaces with process control systems utilizing a 4-20mA output signal and three programmable output relays. Applications include but are not limited to return wastewater treatment, additive injection in a manufacturing process, liquid biocide injection in cooling towers. Program the pump for your application with the digital keypad. Select from nine modes of operation and several pump status indicators.

Features

- Advantages of Stenner peristaltic pumps on page 1
- Brushless DC motor with ball bearing support
- Switch mode power supply
- Digital keypad with OLED display
- Modbus RTU over RS-485 capable (accessory required)
- Tank System available for quick installations applicable to S30 and S40 models only

S SERIES

9 Modes of Operations

- 4-20mA scalable, invertible
- 0-10VDC scalable, invertible
- Timer 7-day/24-hour

- Pulse
- Hall Effect
- Cycle Timer

- PPM Feed flow switch
- PPM Feed hall effect
- Manual

Pump Status Indicators

The S Series has indicators to communicate the pump status. When a pump condition is recognized it activates either a display alarm on the control panel or an output relay indication or both. There are three programmable relays for output indication from the pump to a control system or to another pump or receptacle.

The chart below shows the pump status and indicators available per mode of operation.

Pump Status	Pump Status Indicators		Modes of Operation
	Display Alarm on control panel	Three Output Relays to pump, system or device	
Tube Change	✓	✓	All Modes of Operation
Tube Leak	✓	✓	
Standby	✓	✓	
Drive Fault	✓	✓	
Off	✓	✓	
Run	——	✓	
Mode Change	——	✓	
Transfer**	——	✓	
Repeat Pulse	——	✓	4-20mA*, 0-10VDC*, Pulse, Cycle Timer, Manual, Timer 7-day/24-hour, PPM Feed flow switch
High Signal	✓	✓	4-20mA*, 0-10VDC*
Low Signal	✓	✓	4-20mA*, 0-10VDC*
High Flow	✓	✓	Hall Effect, PPM Feed hall effect
Low Flow	✓	✓	Hall Effect
Signal Overrun	✓	✓	Pulse

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

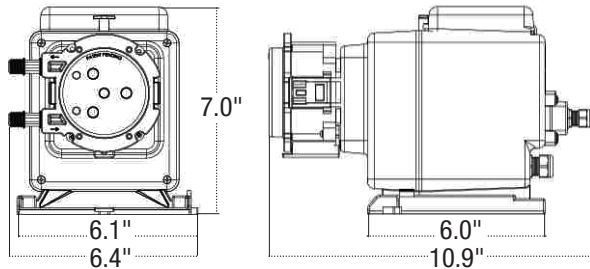## S30 Models Weights and Dimensions

Shipping Weight 9 lbs (3.7 kg)

Box Dimensions 14 x 9 x 10 in. (35 x 23 x 24 cm)

Product Dimensions

7.0"

6.1"
6.4"

6.0"
10.9"

S30 Models Accessories Shipped with Each Pump

3 Connecting Nuts 1/4" & 3 Ferrules 1/4" or 6 mm *Europe* or 3 Connecting Nuts & 2 Adapters 3/8"

1 Injection Fitting 25 psi (1.7 bar) max.
or 1 Duckbill Check Valve 100 psi (6.9 bar) max.

1 Weighted Suction Line Strainer 1/4", 3/8" or 6 mm *Europe*

20' Suction/Discharge Tubing 1/4" or 3/8", white or UV black or 20' Suction/Discharge Tubing, white, 6 mm *Europe*

1 Additional Pump Tube

2 Additional Latches

1 Mounting Bracket

1 Quick Start Guide

Download 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 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);
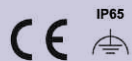ceramic weight

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).
- INTERTEK/ETL Tested for CE, IP65 rating, with maximum altitude of 2000 m.

c(UL)us
LISTED
METERING PUMP
4TF1

CE
IP65

IAPMO R&T
THIS PUMP IS TESTED
AND CERTIFIED BY IAPMO
ACCORDING TO ANSI/NSF 61
FOR CONTACT WITH SODIUM
HYPOCHLORITE AND WATER
ONLY AND NSF/ANSI 372.

Intertek
94247
CONFORMS TO
ANSI/NSF STD. 50
Equipment for swimming pools,
spas, hot tubs and other
recreational water facilities.

Listings vary by model.

S30 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
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 Output @ 50/60Hz	

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 Hour	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	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
									Approximate Output @ 50/60Hz	

To Order, Build Pump Item Number

Insert item number prefix and code for each specification.

code	Voltage & Hertz
AA	120V 60Hz
DC	230V 50Hz *International*

Contact the factory for additional voltage and plug options.

code	Suction & Discharge Tubing
10	1/4" White
20	1/4" UV Black
30	3/8" White
40	3/8" UV Black
50	6 mm White *Europe*

O.D does not affect output.

code	Tube Material
1	Santoprene®
2	Versilon® (#7 not available)

Refer to the chemical guide for material compatibility.

OPTIONAL

To order **Tank System**, insert code before pump item number.

code	Tank System
S7G	7.5-Gallon UV Gray
S7N	7.5-Gallon White
S1G	15-Gallon UV Gray
S1N	15-Gallon White
S3G	30-Gallon UV Gray
S3N	30-Gallon White

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.

S40 & S50 Weights and Dimensions

S40

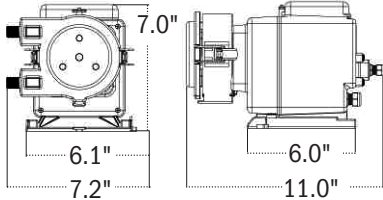**Shipping Weight** 9 lbs (3.9 kg)

Box Dimensions
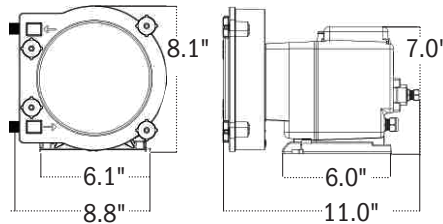13 x 8 x 10 in. (33 x 20 x 24 cm)

Product Dimensions

7.0"
6.1"
7.2"
6.0"
11.0"

S50

Shipping Weight 14 lbs (6.3 kg)

Box Dimensions
16 x 13 x 14 in. (41 x 32 x 35 cm)

Product Dimensions

8.1"
6.1"
8.8"
7.0"
6.0"
11.0"

S40 & S50 Accessories Shipped with Each Pump

3 Connecting Nuts & 2 Adapters 3/8"

1 Ball Check Valve 3/8"

1 Weighted Suction Line Strainer 3/8"

20' Suction/Discharge Tubing 3/8", white or UV black

1 Additional Pump Tube

1 Mounting Bracket

1 Quick Start Guide

Download S Series Manual www.stenner.com

S40 & S50

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 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® O-ring

Pump Head Rollers
S40 Polyethylene; S50 Polycarbonate

Guide Rollers S50 Polyethylene

Roller Bushings
S40 Oil impregnated bronze; S50 Ball bearings

Suction/Discharge Tubing 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 S40 Stainless steel

Pump Head Thumbscrews
S50 Stainless steel and PVC

Pump Head Support & Transition Sleeve
S50 Santoprene®

Tube Pull S50 PVC

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 or 7G tube or a ball check valve with stainless steel spring).
- INTERTEK/ETL Tested for CE, IP65 rating, with maximum altitude of 2000 m.

IP65

c (UL) US
LISTED
METERING PUMP
4TF1

CE

IAPMO R&T

THIS PUMP IS TESTED AND CERTIFIED BY IAPMO ACCORDING TO ANSI/NSF 61 FOR CONTACT WITH SODIUM HYPOCHLORITE AND WATER ONLY AND NSF/ANSI 372.

Intertek
94247
CONFORMS TO
ANSI/NSF STD. 50
Equipment for swimming pools, spas, hot tubs and other recreational water facilities.

Listings vary by model.

S40 & S50 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
S505G	5G	100:1	3.2-315.0	0.133-13.13	17.07-1680.0	0.284-28.00	12.11-1192.0	0.505-49.68	504.72-49684.0	8.41-828.0
							Approximate Output @ 50/60Hz			

S40 & S50 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 Hour	Ounces per 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 to 5.34	2.3 to 227.0	0.09 to 9.46	94.64 to 9464.0	1.58 to 158.0
S507G	7G	100:1	1.3-125.0	0.054-5.21	6.93-667.0	0.116-11.11	4.92-473.0	0.205-19.72	205.04-19,716.0	3.42-329.0
							Approximate Output @ 50/60Hz			

To Order, Build Pump Item Number

Insert item number prefix and code for each specification.

code	Voltage & Hertz
AA	120V 60Hz
DC	230V 50Hz *International*

Contact the factory for additional voltage and plug options.

code	Suction & Discharge Tubing
30	3/8" White
40	3/8" UV Black

O.D does not affect output.

code	Ball Check Valve Spring, Seat & O-ring
1	Tantalum spring, FKM seat & O-ring
2	Stainless steel spring, EPDM seat, Santoprene® O-ring

Refer to the chemical guide for material compatibility.

FOR S40 MODELS ONLY

OPTIONAL

To order **Tank System**, insert code before pump item number.

| code	Tank System
S7G	7.5-Gallon UV Gray
S7N	7.5-Gallon White
S1G	15-Gallon UV Gray
S1N	15-Gallon White
S3G	30-Gallon UV Gray
S3N	30-Gallon White

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.
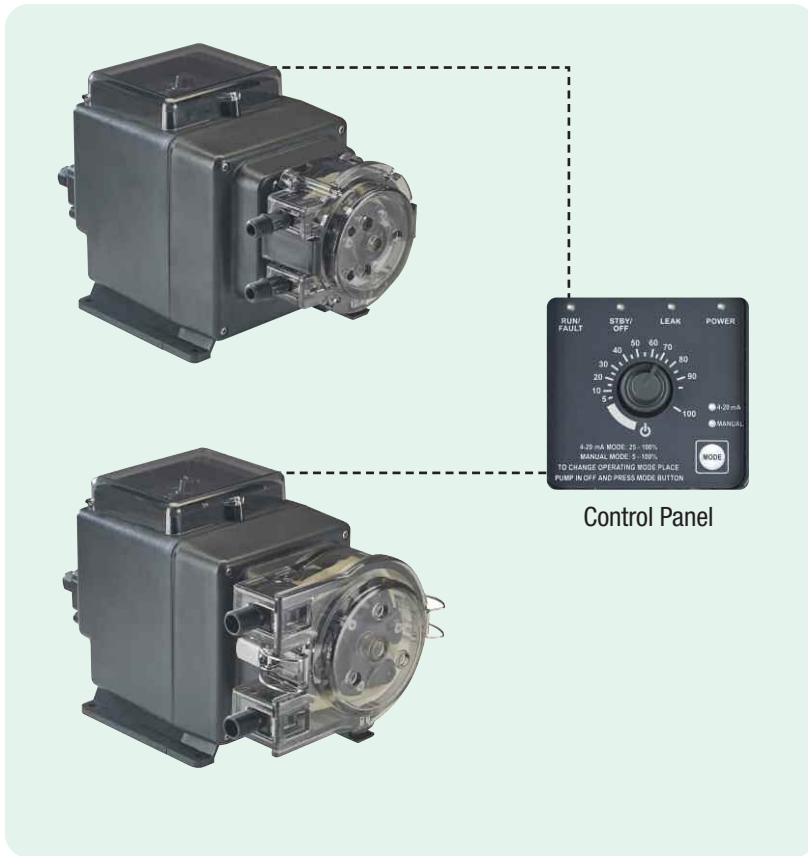
Control Panel

Quick Facts

- Activated by 4-20mA input or manually
- Up to 60.0 gpd @100 psi max.
  Up to 150.0 gpd @ 25 psi max.
- Leak detection
- Tube replacement without tools
- Indoor/Outdoor
- 2 year warranty
- S420 pump item number begins with S34 or S44

Features

- Totally enclosed housing, NEMA 4X
- Brushless DC motor with ball bearing support
- Three dedicated output relays
- LED pump status indicators
- Remote start or stop
- Advantages of peristaltic pumps on page 1

Backup Pump Capability

The S420 has back-up pump capability to the primary pump to maintain operation in critical applications. When programmed, the primary pump transfers operation seamlessly to the backup pump.

HOW IT WORKS

The S420 variable speed metering pump injects solution in direct proportion to an incoming 4-20mA analog signal. To achieve the desired flow rate output, the operator scales the pump's response to the signal from 25% to 100% of the maximum flow rate output. The chart on the right illustrates the correlation between the signal received and the pump flow rate output based on the scale setting. When operating in manual mode, the adjustment range is 5% to 100%.

Approximate Signal and Flow Rate Output Correlation

The ability to accept a 4-20mA signal makes the pump well suited for use with water treatment controls including pH and ORP monitors to maintain proper water chemistry and to treat effluent discharge water. Installations can include industrial and municipal waste water treatment facilities and well or surface water treatment for municipalities who supply potable water to residential communities or commercial sites.
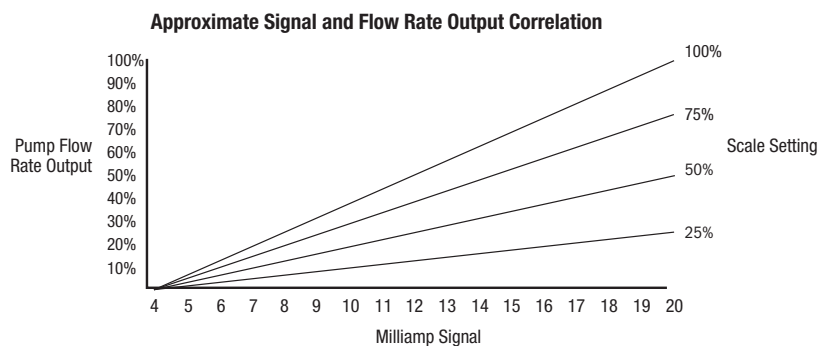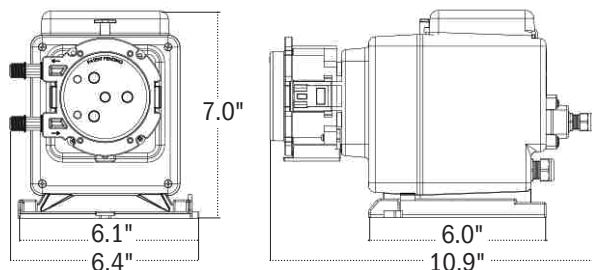
Weights and Dimensions

S34 Models

Shipping Weight 9 lbs (3.7 kg)

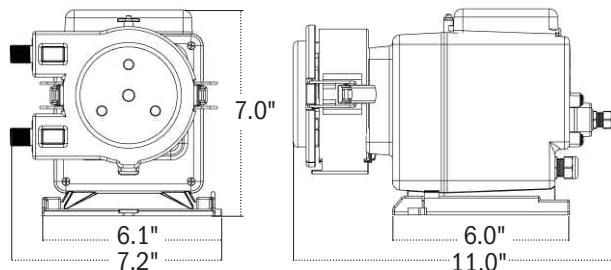**Box Dimensions** 14 x 9 x 10 in. (35 x 32 x 24 cm)

Product Dimensions

7.0"
6.1"
6.4"
6.0"
10.9"

Shipping Weight 9 lbs (3.7 kg)

S44 Models

Shipping Weight 9 lbs (3.7 kg)

Box Dimensions 14 x 9 x 10 in. (35 x 32 x 24 cm)

Product Dimensions

7.0"
6.1"
7.2"
6.0"
11.0"

Shipping Weight 9 lbs (3.7 kg)

Accessories Shipped with Each Pump

S34 Models

3 Connecting nuts 1/4" & 3 Ferrules 1/4" or 6 mm *Europe*
or 3 Connecting Nuts & 2 Adapters 3/8"

1 Injection Fitting 25 psi (1.7 bar) max.
or 1 Duckbill Check Valve 100 psi (6.9 bar) max.

1 Weighted Suction Line Strainer 1/4", 3/8" or 6 mm *Europe*

20' Suction/Discharge Tubing 1/4" or 3/8", white or UV black

or 20' Suction/Discharge Tubing, white, 6 mm *Europe*

1 Additional Pump Tube

2 Additional Latches

1 Mounting Bracket

1 Manual

S44 Models

3 Connecting Nuts & 2 Adapters 3/8"

1 Ball Check Valve 3/8"

1 Weighted Suction Line Strainer 3/8"

20' Suction/Discharge Tubing 3/8", white or UV black

1 Additional Pump Tube

1 Mounting Bracket

1 Manual

S34   S44

Specifications

Flow Rate Output Control
4-20mA input signal or manual

Reproducibility ±2%

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

Maximum Operating Temperature
104°F (40°C)

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®

Check Valve Duckbill S34
Santoprene® (FDA approved) or Pellethane®

Ball Check Valve Components S44
- Ceramic ball (FDA approved); tantalum spring;
  FKM seat & O-ring **OR**
- Ceramic ball (FDA approved); stainless steel spring;
  EPDM seat; Santoprene® O-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 S34
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
  S34 Polypropylene
  S44 Stainless steel

Leak Detect Components Hastelloy®

NOTE: Refer to the chemical guide for material compatibility.

Agency Listings

IP65

c (UL) US
LISTED
METERING PUMP
4TF1

CE

IAPMO R&T ®

THIS PUMP IS TESTED
AND CERTIFIED BY IAPMO
ACCORDING TO ANSI/NSF 61
FOR CONTACT WITH SODIUM
HYPOCHLORITE AND WATER
ONLY AND NSF/ANSI 372.

ETL
Intertek
94247
CONFORMS TO
ANSI/NSF STD. 50
Equipment for swimming pools,
spas, hot tubs and other
recreational water facilities.

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

Listings vary by model.

S34 MODELS

S34 Models 25 psi (1.7 bar) max. Flow Rate Outputs

Item Number Prefix	Pump Tube	Turndown 4-20mA	Turndown Manual Mode	Gallons per Day	Gallons per Hour	Ounces per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Hour	Milliliters per Minute
S3403	3	100:1	20:1	40.0	1.67	213.0	3.56	151.0	6.31	6309.0	105.0
S3404	4	100:1	20:1	60.0	2.50	320.0	5.33	227.0	9.46	9464.0	158.0
S3405	5	100:1	20:1	85.0	3.54	453.0	7.56	322.0	13.41	13407.0	223.0
								Approximate Output @ 50/60Hz			

S34 Models 100 psi (6.9 bar) max. Flow Rate Outputs

Item Number Prefix	Pump Tube	Turndown 4-20mA	Turndown Manual Mode	Gallons per Day	Gallons per Hour	Ounces per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Hour	Milliliters per Minute
S3401	1	100:1	20:1	5.0	0.21	27.0	0.44	19.0	0.79	789.0	13.0
S3402	2	100:1	20:1	17.0	0.71	91.0	1.51	64.0	2.68	2681.0	45.0
S3407	7	100:1	20:1	40.0	1.67	213.0	3.56	151.0	6.31	6309.0	105.0
								Approximate Output @ 50/60Hz			

To Order, Build Pump Item Number

Insert item number prefix and code for each specification.

code	Voltage & Hertz
AA	120V 60Hz
BA	230V 60Hz
DC	230V 50Hz *International*

Contact the factory for additional voltage and plug options.

code	Suction & Discharge Tubing
10	1/4" White
20	1/4" UV Black
30	3/8" White
40	3/8" UV Black
50	6 mm White *Europe*

O.D does not affect output.

code	Tube Material
1	Santoprene®
2	Versilon® (#7 not available)

Refer to the chemical guide for material compatibility.

S44 MODELS

S44 Models 25 psi (1.7 bar) max. Flow Rate Outputs

Item Number Prefix	Pump Tube	Turndown 4-20mA	Turndown Manual Mode	Gallons per Day	Gallons per Hour	Ounces per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Hour	Milliliters per Minute
S445X	5X	100:1	20:1	150.0	6.25	800.0	13.33	568.0	23.66	23659.0	394.0
								Approximate Output @ 50/60Hz			

S44 Models 100 psi (6.9 bar) max. Flow Rate Outputs Santoprene® tube only

Item Number Prefix	Pump Tube	Turndown 4-20mA	Turndown Manual Mode	Gallons per Day	Gallons per Hour	Ounces per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Hour	Milliliters per Minute
S447X	7X	100:1	20:1	60.0	2.50	320.0	5.33	227.0	9.46	9464.0	158.0
								Approximate Output @ 50/60Hz			

To Order, Build Pump Item Number

Insert item number prefix and code for each specification.

code	Voltage & Hertz
AA	120V 60Hz
BA	230V 60Hz
DC	230V 50Hz *International*

Contact the factory for additional voltage and plug options.

code	Suction & Discharge Tubing
30	3/8" White
40	3/8" UV Black

O.D does not affect output.

code	Ball Check Valve Spring, Seat & O-ring
1	Tantalum spring, FKM seat & O-ring
2	Stainless steel spring, EPDM seat, Santoprene® O-ring

Refer to the chemical guide for material compatibility.

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.

FIXED

RUN STANDBY LEAK POWER
FAULT

LED Indicators

S3F

S4F

VARIABLE

RUN/ STBY/ LEAK POWER
FAULT OFF
40 50 60 70
30 80
20 90
10 100

Control Panel

S3V

S4V

Quick Facts

- Backup pump capability
- Leak detection
- Totally enclosed housing, NEMA 4X
- Indoor/Outdoor
- Tube replacement without tools
- 2 year warranty

FIXED

- Up to 60.0 gpd @ 100 psi max.
  Up to 150.0 gpd @ 25 psi max.
- The Fixed pump item number begins with S3F or S4F

VARIABLE

- Up to 60.0 gpd @ 100 psi max.
  Up to 150.0 gpd @ 25 psi max.
- The Variable pump item number begins with S3V or S4V

HOW IT WORKS

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.

Features

- Advantages of Stenner peristaltic pumps on page 1
- LED pump status indicators
- Dedicated Relays

4 LED Pump Status 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 ⏻ .

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.
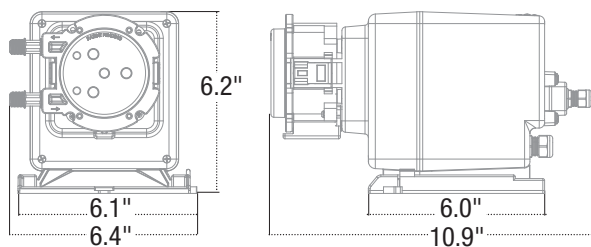
S FIXED & S VARIABLE SERIES
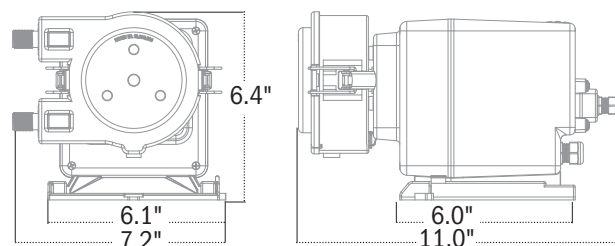
Weights and Dimensions

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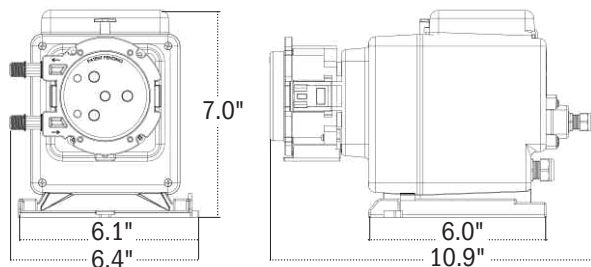**Box Dimensions** 14 x 9 x 10 in. (35 x 32 x 24 cm)

S3F Product Dimensions

6.2"
6.1"
6.4"
6.0"
10.9"

S4F Product Dimensions

6.4"
6.1"
7.2"
6.0"
11.0"

S3V Product Dimensions

7.0"
6.1"
6.4"
6.0"
10.9"

S4V Product Dimensions

7.0"
6.1"
7.2"
6.0"
11.0"
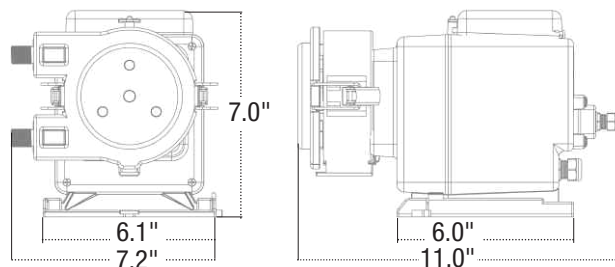
Accessories Shipped with Each Pump

S3F & S3V

3 Connecting nuts 1/4" & 3 Ferrules 1/4" or 6 mm *Europe*
or 3 Connecting Nuts & 2 Adapters 3/8"

1 Injection Fitting 25 psi (1.7 bar) max.
or 1 Duckbill Check Valve 100 psi (6.9 bar) max.

1 Weighted Suction Line Strainer 1/4", 3/8" or 6 mm *Europe*

20' Suction/Discharge Tubing 1/4" or 3/8", white or UV black
or 20' Suction/Discharge Tubing, white, 6 mm *Europe*

1 Additional Pump Tube

2 Additional Latches

1 Mounting Bracket

1 Manual

S4F & S4V

3 Connecting Nuts & 2 Adapters 3/8"

1 Ball Check Valve 3/8"

1 Weighted Suction Line Strainer 3/8"

20' Suction/Discharge Tubing 3/8", white or UV black

1 Additional Pump Tube

1 Mounting Bracket

1 Manual

FIXED MODELS

S3F S4F

VARIABLE MODELS

S3V S4V

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 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® O-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

CE IP65

THIS PUMP IS TESTED AND CERTIFIED BY IAPMO ACCORDING TO ANSI/NSF 61 FOR CONTACT WITH SODIUM HYPOCHLORITE AND WATER ONLY AND NSF/ANSI 372.

UL LISTED
METERING PUMP
4TF1

Intertek 94247
CONFORMS TO ANSI/NSF STD. 50
Equipment for swimming pools, spas, hot tubs and other recreational water facilities.

Intertek 94247
CONFORMS TO ANSI/NSF STD. 50
Equipment for swimming pools, spas, hot tubs and other recreational water facilities.
USE ONLY WITH ANSI/NSF 50 LISTED CONTROLLERS

- NEMA 4X
- IAPMO Listed, conforms to standard NSF/ANSI 61 & 372 (excludes any model with a Versilon® tube).
- INTERTEK/ETL Sanitation Listed, Variable models conform to standard NSF/ANSI 50 (excludes any model with a Versilon® tube, 7X tube or ball check valve with stainless steel spring).
- INTERTEK/ETL Sanitation Listed, Fixed models conform to standard NSF/ANSI 50 only when used with standard NSF/ANSI 50 listed controllers (excludes any model with a Versilon® tube, 7X tube or ball check valve with stainless steel spring).
- INTERTEK/ETL Tested for CE, IP65 rating, with maximum altitude of 2000 m.

Listings vary by model.

S FIXED

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		

					N			

To Order, Build Pump Item Number

Insert item number prefix and code for each specification.

code	Voltage & Hertz
AA	120V 60Hz
BA	230V 60Hz
DC	230V 50Hz *International*

Contact the factory for additional voltage and plug options.

code	Suction & Discharge Tubing
10	1/4" White
20	1/4" UV Black
30	3/8" White
40	3/8" UV Black
50	6 mm White *Europe*

O.D does not affect output.

code	Tube Material
1	Santoprene®
2	Versilon® (#7 not available)

Refer to the chemical guide for material compatibility.

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

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
S4F5X	5X	150.0	6.25	800.0	13.33	568.0	23.66	23659.0	394.0
							Approximate Output @ 50/60Hz		

S4F Models 100 psi (6.9 bar) max. Flow Rate Outputs Santoprene® tube only

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
S4F7X	7X	60.0	2.50	320.0	5.33	227.0	9.46	9464.0	158.0
							Approximate Output @ 50/60Hz		

					1			

To Order, Build Pump Item Number

Insert item number prefix and code for each specification.

code	Voltage & Hertz
AA	120V 60Hz
BA	230V 60Hz
DC	230V 50Hz *International*

Contact the factory for additional voltage and plug options.

code	Suction & Discharge Tubing
30	3/8" White
40	3/8" UV Black

O.D does not affect output.

code	Ball Check Valve Spring, Seat & O-ring
1	Tantalum spring, FKM seat & O-ring
2	Stainless steel spring, EPDM seat, Santoprene® O-ring

Refer to the chemical guide for material compatibility.

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 VARIABLE

S3V 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
S3V03	3	20:1	2.0-40.0	0.08-1.67	10.7-213.0	0.18-3.56	7.6-151.0	0.32-6.31	315.5-6309.0	5.3-105.0
S3V04	4	20:1	3.0-60.0	0.13-2.50	16.0-320.0	0.27-5.33	11.4-227.0	0.47-9.46	473.2-9464.0	7.9-158.0
S3V05	5	20:1	4.3-85.0	0.18-3.54	22.7-453.0	0.38-7.56	16.1-322.0	0.67-13.41	670.3-13407.0	11.2-223.0
									Approximate Output @ 50/60Hz	

S3V 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 Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Hour	Milliliters per Minute
S3V01	1	20:1	0.3-5.0	0.01-0.21	1.3-27.0	0.02-0.44	1.0-19.0	0.04-0.79	39.4-789.0	0.7-13.0
S3V02	2	20:1	0.8-17.0	.03-0.71	4.5-91.0	0.07-1.51	3.2-64.0	0.13-2.68	134.1-2681.0	2.2-45.0
S3V07	7	20:1	2.0-40.0	0.08-1.67	10.7-213.0	0.18-3.56	7.6-151.0	0.32-6.31	315.5-6309.0	5.3-105.0
									Approximate Output @ 50/60Hz	

[Pump item number builder diagram with boxes and "N"]

To Order, Build Pump Item Number

Insert item number prefix and code for each specification.

code	Voltage & Hertz
AA	120V 60Hz
BA	230V 60Hz
DC	230V 50Hz *International*

Contact the factory for additional voltage and plug options.

code	Suction & Discharge Tubing
10	1/4" White
20	1/4" UV Black
30	3/8" White
40	3/8" UV Black
50	6 mm White *Europe*

O.D does not affect output.

code	Tube Material
1	Santoprene®
2	Versilon® (#7 not available)

Refer to the chemical guide for material compatibility.

S4V Models 25 psi (1.7 bar) max. Flow Rate Outputs Santoprene® tube only

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
S4V5X	5X	20:1	7.5-150.0	0.31-6.25	40.0-800.0	0.67-13.33	28.4-568.0	1.18-23.66	1182.9-23659.0	19.7-394.0
									Approximate Output @ 50/60Hz	

S4V Models 100 psi (6.9 bar) max. Flow Rate Outputs Santoprene® tube only

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
S4V7X	7X	20:1	3.0-60.0	0.13-2.50	16.0-320.0	0.27-5.33	11.4-227.0	0.47-9.46	473.2-9464.0	7.9-158.0
									Approximate Output @ 50/60Hz	

[Pump item number builder diagram with boxes and "1"]

To Order, Build Pump Item Number

Insert item number prefix and code for each specification.

code	Voltage & Hertz
AA	120V 60Hz
BA	230V 60Hz
DC	230V 50Hz *International*

Contact the factory for additional voltage and plug options.

code	Suction & Discharge Tubing
30	3/8" White
40	3/8" UV Black

O.D does not affect output.

code	Ball Check Valve Spring, Seat & O-ring
1	Tantalum spring, FKM seat & O-ring
2	Stainless steel spring, EPDM seat, Santoprene® O-ring

Refer to the chemical guide for material compatibility.

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.

S10P

Control Panel

Quick Facts

- Flow activated
- Up to 30 gpd @100 psi max., 10:1 turndown
- 4:1 turndown in PPG mode
- Operating pressure to 100 psi max.
- Leak detection
- Totally enclosed housing
- Indoor/Outdoor
- Control panel with LCD display
- Tube replacement without tools
- 2 year warranty
- Advantages of Stenner peristaltic pumps, pg 1
- S10P pump item number begins with S3P

Features

PUMP STATUS INDICATORS
Prime, Standby, Signal (excludes 10 PPG mode), Leak, Level, Change, Keypad Locked.

PERFORMANCE TIME MODES
Pump Life Hours
Registers the total run hours, not resettable.

Tube Run Hours
Total hours the tube has been in service.

Tube Change Hours
Set the desired hours for tube to run. When hours are exceeded, display flashes CHANGE, as a tube replacement reminder.

LEAK DETECTION
When a leak is detected, the pump stops and the display flashes LEAK. The dedicated relay can indicate to another device.

LEVEL INPUT
Utilized with a fluid level device in the solution tank. At low level, the dry contact is received on the level input, the pump stops and the display flashes LEVEL.

SIGNAL REPEATER
Dedicated relay replicates dry contact to another pump or device, for example, link multiple pumps.

Modes of Operation

AUXILIARY (12-24 VAC/VDC signal)
Runs at set speed while signal is received.
Adjustable 10% to 100%, 1% increments.

FLOW SWITCH (dry contact)
Runs at set speed while dry contact from 2-wire flow switch is received.
Adjustable 10% to 100%, 1% increments.

SECONDS (dry contact)
Runs at set amount of time for each pulse.
Adjustable 0.1 to 60.0 seconds.

10 PPG (dry contact 10 PPG water meter)
Runs at set flow rate output for each pulse.
Adjustable 50% to 100%, 5% increments.
For process flows from 0.1 to 14.0 GPM.
Delivers steady solution distribution.

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

7.0"
6.1"
6.4"
6.0"
9.3"

Accessories Shipped with Each Pump

3 Connecting Nuts 1/4" & 3 Ferrules 1/4" or 6 mm *Europe*

1 Duckbill Check Valve

1 Weighted Suction Line Strainer 1/4" or 6 mm *Europe*

20' Suction/Discharge Tubing 1/4" white or UV black
or 20' Suction/Discharge Tubing, white, 6 mm *Europe*

1 Additional Pump Tube

2 Additional Latches
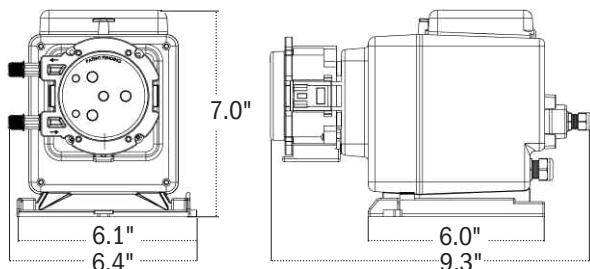
1 Mounting Bracket

1 Manual

Specifications

Flow Rate Output Control
Six button control panel with LCD display

Reproducibility ±2

Maximum Working Pressure
100 psi (6.9 bar)

Maximum Operating Temperature
104°F (40°C)

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)

Power Cord Type
120V 60Hz SJTOWA

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

Power Cord Length 6 ft (1.8 m)

Classification Indoor/Outdoor

Materials of Construction

All Housings Polycarbonate

Pump Tube & Check Valve Duckbill
Santoprene® (FDA approved)

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)

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

THIS PUMP IS TESTED AND CERTIFIED BY IAPMO ACCORDING TO ANSI/NSF 61 FOR CONTACT WITH SODIUM HYPOCHLORITE AND WATER ONLY AND NSF/ANSI 372.

IAPMO R&T ®

c (UL) US
LISTED
METERING PUMP
4TF1

Listings vary by model.

S10P 100 psi (6.9 bar) max. Flow Rate Outputs

Item Number Prefix	Pump Tube	Turndown Ratio	Turndown @ 10 PPG	Gallons per Day	Gallons per Hour	Ounces per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Hour	Milliliters per Minute
S3P01	1	10:1	4:1	5.0	0.21	27.0	0.44	19.0	0.79	789.0	13.0
S3P02	2	10:1	4:1	17.0	0.71	91.0	1.51	64.0	2.68	2681.0	45.0
S3P06	6	10:1	4:1	30.0	1.25	160.0	2.67	114.0	4.73	4732.0	79.0
				Approximate Maximum Output @ 50/60Hz							

							1	N

To Order, Build Pump Item Number

Insert item number prefix
and code for each specification.

code	Voltage & Hertz
AA	120V 60Hz

Contact the factory for additional
voltage and plug options.

code	Suction & Discharge Tubing
10	1/4" White
20	1/4" UV Black
50	6 mm White *Europe*

O.D does not affect output.

code	Tube Material
1	Santoprene®

Refer to the chemical guide
for material compatibility.

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.
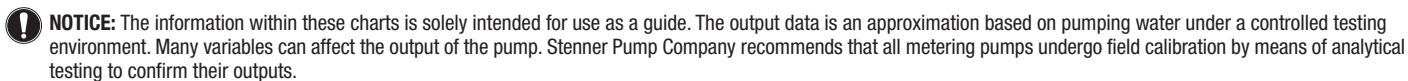
S128 MEDICATOR 1:128 Injection | Leak Detection | Repeater Relay
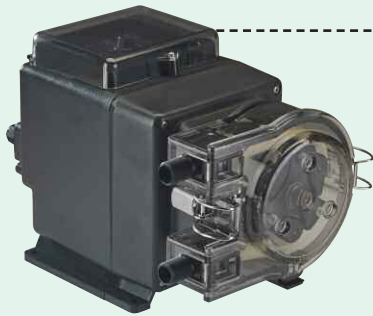
S128 Medicator

Control Panel

Quick Facts

- 1:128 dosing
- Up to 10.0 oz/min @ 60 psi max.
- Injects into system water flows up to 10 GPM
- 1 or 10 PPG and 1PPL water meter pulse settings
- Leak detection
- Built-in signal repeater
- Tube change timer
- Totally enclosed housing, NEMA 4X
- Indoor/Outdoor
- 2 year warranty
- S128 pump item number begins with S4M

Speed Automatically Adjusts to the System Water Flow Rate

The S128 Medicator is a peristaltic metering pump designed to deliver at a ratio of 1:128; 1 ounce of product into a gallon of process water. The primary application is for injection of solutions commonly used in livestock production, particularly chicken, turkey, ducks and swine.

Activated by a dry contact pulsing water meter, the pump adjusts its speed when the system water flow increases or decreases to continuously maintain an even and proportional injection of product into the water line. The pump injects into system water flow rates up to 10 gallons per minute. The flow rate output capacity is up to 10 ounces per minute with pressures up to 60 psi.

The three pulse rate settings are the most common water meter pulse rates of 1 & 10 pulses per gallon and 1 pulse per liter. There are four LED pump status indicators on the control panel for Leak/Fault, Overrun, Change/Level and Power/Standby.
The adjustable potentiometer has prime, each pulse setting, reset tube timer and ⏻ (standby).

The leak detect feature can be set to stop the pump or let it continue to run when a leak is detected. The tube change timer can be set with the number of desired hours for the pump to run before the change/level LED is activated. The built-in signal repeater allows the existing water meter to register its totalizing volume to an environmental controller.

The S128 Medicator is equipped with highly chemical resistant components, 3/8" suction and discharge tubing and a durable ball and spring check valve.

Features

- Advantages of Stenner peristaltic pumps on page 1
- Tube replacement without tools
- Automatically adjusts speed to evenly distribute product
- Proportional injection especially at low flow rates
- Remote start & stop capability using house controller
- LED pump status indicators
- Output relays
- Standby setting

S128 MEDICATOR

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

7.0"

6.1"
7.2"

6.0"
11.0"
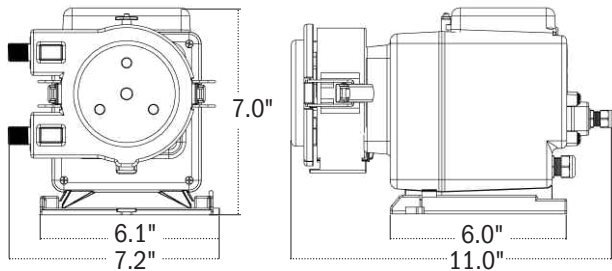
Accessories Shipped with Each Pump

3 Connecting Nuts & 2 Adapters 3/8"

1 Ball Check Valve 3/8"

1 Weighted Suction Line Strainer 3/8"

20' Suction/Discharge Tubing 3/8", white or UV black

1 Additional Pump Tube

1 Mounting Bracket

1 Manual

1 Reference Poster

S128 Medicator 60 psi (4.1 bar) max. Flow Rate Outputs

Item Number Prefix	Pump Tube	Ounces per Minute	Milliliters per Minute
S4M8X	8X	10.0	295.7
		Approximate Output @ 50/60Hz	

To Order, Build Pump Item Number

S	4	M	8	X					1	

Insert item number prefix and code for each specification.

code	Voltage & Hertz
AA	120V 60Hz

Contact the factory for additional voltage and plug options.

code	Suction & Discharge Tubing
30	3/8" White
40	3/8" UV Black

O.D does not affect output.

code	Ball Check Valve Spring, Seat & O-ring
1	Tantalum spring, FKM seat & O-ring
2	Stainless steel spring, EPDM seat, Santoprene® O-ring

Refer to the chemical guide for material compatibility.

Specifications

Flow Rate Output Control
Fixed rate, interfaces with water meter

Reproducibility ±2

Maximum Working Pressure 60 psi (4.1 bar)

Maximum Operating Temperature 104°F (40°C)

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)

Power Cord Type 120V 60Hz SJTOWA

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

Power Cord Length 6 ft (1.8 m)

Classification Indoor/Outdoor

Agency Listings

THIS PUMP IS TESTED AND CERTIFIED BY IAPMO ACCORDING TO ANSI/NSF 61 FOR CONTACT WITH SODIUM HYPOCHLORITE AND WATER ONLY AND NSF/ANSI 372.

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LISTED
METERING PUMP
4TF1

Listings vary by model.

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® O-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)

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 Stainless steel

Leak Detect Components Hastelloy

NOTE: Refer to the chemical guide for material compatibility.
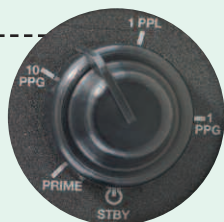
Potentiometer

ECON STENNICATOR

ECON STENNICATOR Meter Systems - Single and Dual

Watch Animated Video
Econ Stennicator on a Poultry Farm
www.stenner.com

ECON Tank System

Quick Facts

- 1:128 Injection
- Up to 2.7 oz/min @ 80 psi max.
- 1, 10 PPG or 1 PPL water meter pulse settings
- Repeater relay
- Standby setting
- Econ Stennicator pump item number begins with E20M

Compact and Water Meter Activated

The Econ Stennicator injects solution at a fixed ratio of 1:128. The pulse from the water meter activates the pump at a fixed run time to deliver the proper dosage. The pump has three pulse settings, adjustable with a potentiometer, to accommodate 1 or 10 pulses per gallon or 1 pulse per liter. The pump's relay repeats the incoming meter signal to another Stennicator, controller or device. Additional features include an on/off switch, prime and a standby setting.

Not a Traditional Medicator for Livestock Water

The Stennicator, Stenner's peristaltic medicator, is not a typical 1:128 water driven proportional pump. The pump injects directly into the water line eliminating a water bypass that can restrict water flow to the drinker lines. Poor water quality, scale and solids are not harmful to the pump. The Stennicator is compact with a small footprint and can adapt to an existing pulse water meter. If utilizing a house controller, the pump's relay allows the water meter to send the signal to the controller to register the water consumption. The pump can accurately inject or be placed in standby, without interrupting the water meter signal.

Stennicator Meter System or Tank System

For convenient and quick installations or turnkey operations, the Stennicator Meter System is equipped with the pump and corresponding dry contact 3/4" or 1" water meter mounted on a heavy duty panel.

The pre-assembled Tank System is equipped with the pump mounted to a 7.5, 15 or 30 gallon capacity tank. Select UV Gray for outdoor installations or translucent white.

Features

- Advantages of Stenner peristaltic pumps on page 1
- Tube replacement without tools
- Activate multiple pumps from one meter
- No water restriction or pressure loss
- On/off switch
- Brushless motor
- Enclosed housing
- Indoor/Outdoor

ECON STENNICATOR

Weights and Dimensions

Pump
Shipping Weight 4 lbs (1.6 kg)
Box Dimensions 8 x 8 x 10 in. (21 x 21 x 25 cm)
Product Dimensions

3.7"
4.4"
5.4"
5.9"
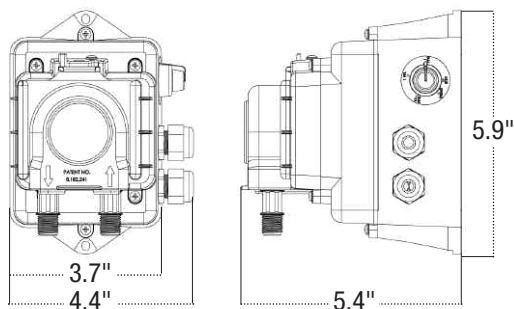
Meter System
Shipping Weight
Single 17 lbs (7.7 kg)
Dual 20 lbs (9.1 kg)
Box Dimensions
8 x 8 x 10 in. (21 x 21 x 25 cm)

Accessories Shipped with Each Pump

3 Connecting Nuts & 3 Ferrules 1/4"

1 Duckbill Check Valve

1 Weighted Suction Line Strainer 1/4"

20' Suction/Discharge Tubing 1/4", white or UV black

1 Additional Pump Tube

1 Manual

Specifications
Flow Rate Output Control
On/off switch, fixed output

Reproducibility ±2%

Maximum Working Pressure
80 psi (5.5 bar)

Maximum Operating Temperature
104°F (40°C)

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

Motor Type 24VDC, brushless

Shaft rpm (average maximum) 60

Duty Cycle Continuous

Maximum Viscosity 50 Centipoise

Motor Voltage 120V 60Hz (0.25A),
230V 60Hz (0.17A), 24VDC (0.85A)

Power Cord Type
120V 60Hz, 230V 60Hz: SJTOW,
24VDC pigtail

Power Cord Plug End
120V 60Hz NEMA 5-15P,
230V 60Hz NEMA 6-15P, 24VDC pigtail

Power Cord Length
10 ft (3.05 m) or 24VDC Pigtail 1 ft (30.5 cm)

Classification Indoor/Outdoor

Materials of Construction
All Housings Polycarbonate

Pump Tube & Check Valve Duckbill
Santoprene® (FDA approved)

Pump Head Rollers Polyethylene

Suction/Discharge Tubing, Ferrules
Polyethylene (FDA approved)

Tube and 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

NOTE: Refer to the chemical guide for material compatibility.

Agency Listings

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METERING PUMP
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Listings vary by model. 24VDC pumps do not
carry any agency listings.

ECON STENNICATOR 80 psi (5.5 bar) max. Flow Rate Outputs

Item Number Prefix	Pump Tube	Roller Assembly	Ounces per Minute	Milliliters per Minute
E20MH	H	Black	2.7	74.0
			Approximate Max. Output @ 50/60Hz	

| E | 2 | 0 | M | H | | | S |

To Order, Build Pump Item Number

Insert item number prefix
and code for Voltage & Hertz.

code	Voltage & Hertz
8	120V 60Hz; 10' cord
B	230V 60Hz; 6' cord
5	24VDC; 1' cord

code	Suction & Discharge Tubing
1	1/4" White
2	1/4" UV Black

O.D does not affect output.

OPTIONAL

To order **Tank System**, insert code before pump item number.

| | | E | 2 | 0 | M | H | | 1 | S |

code	Tank System
S7G	7.5-Gallon UV Gray
S7N	7.5-Gallon White
S1G	15-Gallon UV Gray
S1N	15-Gallon White
S3G	30-Gallon UV Gray
S3N	30-Gallon White

To order **Meter System**, insert codes as shown.

| | E | 2 | 0 | M | H | | 1 | S | | | |

code	System
S	Single
D	Dual

code	Meter System
341	3/4" 1 pulse/gallon
340	3/4" 10 pulses/gallon
34L	3/4" 1 pulse/liter
011	1" 1 pulse/gallon
010	1" 10 pulses/gallon
01L	1" 1 pulse/liter

Tank System and Meter System are two separate systems and not sold as one.

NOTICE: The information within this chart 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.

ECON INTEGRATOR™

Control Panel

ECON INTEGRATOR™ Meter System

ECON Tank System

Quick Facts

- Flow activated with internal repeater relay
- Up to 30.0 gpd @ 80 psi max.
- 10:1 turndown, 1% increments
- Digital keypad with LCD display
- Econ IntegratorTM pump item number begins with E10R or E20R

Proportional Pump with Repeater Relay

The Econ Integrator™ is a flow activated peristaltic pump featuring three operational modes and a repeater relay. The relay provides a dry contact output signal replicating the signal the pump receives. The signal output can control another device that accepts a dry contact signal such as another Econ Integrator™. Multiple pumps can be activated by one water meter. The relay is operable in the Seconds or Flow Switch mode.

In livestock operations, the relay is especially useful when an existing water meter is utilized to tally water consumption to a controller. The relay allows the meter to send a signal to the pump and to the controller; eliminating the need for another meter. The signal can be sent if the pump is operating or in standby.

Econ Integrator™ Meter System or Tank System

For convenient and quick installations or turnkey operations, the Econ Integrator™ Meter System is equipped with the pump and corresponding dry contact 3/4" or 1" water meter mounted on a heavy duty panel.

The pre-assembled Tank System is equipped with the pump mounted to a 7.5, 15 or 30 gallon capacity tank. Select UV Gray for outdoor installations or translucent white.

Features

- Advantages of Stenner peristaltic pumps on page 1
- Tube replacement without tools
- Patented quick release pump head
- Enclosed housing
- Indoor/Outdoor
- Wall mountable
- Optional mounting accessories available

Three Operating Modes

SECONDS: The pump can accept a dry (non-voltage) contact signal and will run for a set **time** in response to receiving the signal. There are five pump operating time ranges; the maximum time is displayed on the control panel. The run time is adjustable from 10% to 100% in 1% increments.

1 second = 0.1-1.0   5 seconds = 0.5-5.0   10 seconds = 1.0-10.0
20 seconds = 2.0-20.0   60 seconds = 6.0-60.0

FLOW SWITCH: The pump can accept a dry (non-voltage) contact signal from a 2 wire flow switch and will run at the set **speed** as long as it receives the dry contact. The pump speed is adjustable from 10% to 100% in 1% increments.

AUXILIARY: The pump can accept a 12-24 VAC/VDC signal from control equipment that responds to flow and will run at a set **speed** for as long as it receives the signal. The pump speed is adjustable from 10% to 100% in 1% increments. The repeater relay does not work with a 12-24 VAC/VDC signal.

Weights and Dimensions

Pump
Shipping Weight 4 lbs (1.8 kg)
Box Dimensions 8 x 8 x 10 in. (21 x 21 x 25 cm)
Product Dimensions

5.9"
3.7"
5.4"

Meter System
Shipping Weight 17 lbs (7.7 kg)
Box Dimensions 24 x 23 x 12 in. (61 x 58 x 30 cm)

Accessories Shipped with Each Pump

3 Connecting Nuts 1/4" & 3 Ferrules 1/4" or 6 mm *Europe*

1 Duckbill Check Valve

1 Weighted Suction Line Strainer 1/4" or 6 mm *Europe*

20' Suction/Discharge Tubing 1/4", white or UV black
or 20' Suction/Discharge, white, 6 mm *Europe*

1 Additional Pump Tube

1 Manual

Specifications
Flow Rate Output Control
Six button control panel with LCD display

Reproducibility ±2%

Maximum Working Pressure 80 psi (5.5 bar)

Maximum Operating Temperature 104°F (40°C)

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

Motor Type 24VDC, brushless

Shaft rpm (average maximum) 60

Duty Cycle Continuous

Maximum Viscosity 100 Centipoise

Motor Voltage 120V 60Hz (0.25A),
230V 60Hz (0.17A), 24VDC (0.85A)

Power Cord Type 120V 60Hz,
230V 60Hz: SJTOW, 24VDC pigtail

Power Cord Plug End 120V 60Hz NEMA 5-15P,
230V 60Hz NEMA 6-15P, 24VDC pigtail

Power Cord Length 6 ft (1.8 m),
10 ft (3.05 m) or 24VDC Pigtail 1 ft (30.5 cm)

Classification Indoor/Outdoor

Materials of Construction
All Housings Polycarbonate

Pump Tube & Check Valve Duckbill
Santoprene® (FDA approved)

Pump Head Rollers Polyethylene

Suction/Discharge Tubing, Ferrules
Polyethylene (FDA approved)

Tube and 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

NOTE: Refer to the chemical guide for material compatibility.

Agency Listings

THIS PUMP IS TESTED
AND CERTIFIED BY IAPMO
ACCORDING TO ANSI/NSF 61
FOR CONTACT WITH SODIUM
HYPOCHLORITE AND WATER
ONLY AND NSF/ANSI 372.

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Listings vary by model. 24VDC pumps do not carry any
agency listings.

ECON INTEGRATOR™ SERIES

ECON INTEGRATOR™ 80 psi (5.5 bar) max. Flow Rate Outputs

Item Number Prefix	Pump Tube	Roller Assembly	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
E10RLM	M	White	10:1	0.49	0.02	2.6	0.04	1.84	0.08	76.7	1.3
E10RHM	M	White	10:1	0.83	0.03	4.4	0.07	3.14	0.13	130.8	2.2
E20RHM	M	White	10:1	1.41	0.06	7.5	0.13	5.36	0.22	223.2	3.7
E20RHF	F	White	10:1	4.5	0.19	24.0	0.40	17.01	0.71	708.8	11.8
E20RHG	G	Black	10:1	16.0	0.67	85.3	1.42	60.48	2.52	2520.0	42.0
E20RHH	H	Black	10:1	30.0	1.25	160.0	2.67	113.40	4.73	4725.0	78.8

Approximate Maximum Output @ 50/60Hz

To Order, Build Pump Item Number

Insert item number prefix and code for each specification.

code	Voltage & Hertz
7	120V 60Hz; 6' cord
8	120V 60Hz; 10' cord
B	230V 60Hz; 6' cord
5	24VDC; 1' cord

code	Suction & Discharge Tubing
1	1/4" White
2	1/4" UV Black

O.D does not affect output.

OPTIONAL

To order **Tank System**, insert code before pump item number.

code	Tank System
S7G	7.5-Gallon UV Gray
S7N	7.5-Gallon White
S1G	15-Gallon UV Gray
S1N	15-Gallon White
S3G	30-Gallon UV Gray
S3N	30-Gallon White

To order **Meter System**, insert code after pump item number.

code	Meter System
71	3/4" 1 pulse/gallon
72	3/4" 2 pulses/gallon
74	3/4" 4 pulses/gallon
11	1" 1 pulse/gallon
12	1" 2 pulses/gallon
14	1" 4 pulses/gallon

Tank System and Meter System are two separate systems and not sold as one.

NOTICE: The information within this chart 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.

ECON LD SERIES   Variable Speed | Low Volume

ECON LD

Potentiometer

ECON Tank System

Quick Facts

- Up to 50.7 oz/hr @ 80 psi. max.
- Adjustable potentiometer
- 50:1 turndown
- Econ LD pump item number begin with E10H

Features

- Advantages of Stenner peristaltic pumps on page 1
- Patented quick release pump head
- Tube replacement without tools
- Brushless motor
- Enclosed housing
- Indoor/Outdoor
- Optional mounting accessories available
- Tank System ships with pump pre-mounted to tank

Accurate Low Volume Metering

The Econ LD is a precise, compact variable speed peristaltic pump designed for metering low volumes when reliability and accuracy are a must. Ideal for pumping flocculants, coagulants, sanitizers, and a variety of solutions. The quiet, long lasting brushless motor, in a totally enclosed housing, offers premium quality in a compact pump.

The design incorporates the latest microprocessor technology with a simple potentiometer control and on/off switch. The potentiometer has a 50:1 turndown offering a wide range of outputs. Adjusting the potentiometer clockwise gradually increases the pump speed to 100%. Turning the potentiometer fully counterclockwise turns the pump off.

Weights and Dimensions

Shipping Weight 4 lbs (1.6 kg)

Box Dimensions 8 x 8 x 10 in. (21 x 21 x 25 cm)

Product Dimensions

3.7"
4.4"
5.2"
5.9"

Accessories Shipped with Each Pump

3 Connecting Nuts 1/4" & 3 Ferrules 1/4" or 6 mm *Europe*

1 Duckbill Check Valve

1 Weighted Suction Line Strainer 1/4" or 6 mm *Europe*

20' Suction/Discharge Tubing 1/4", white or UV black
or 20' Suction/Discharge, white, 6 mm *Europe*

1 Additional Pump Tube

1 Manual

Specifications
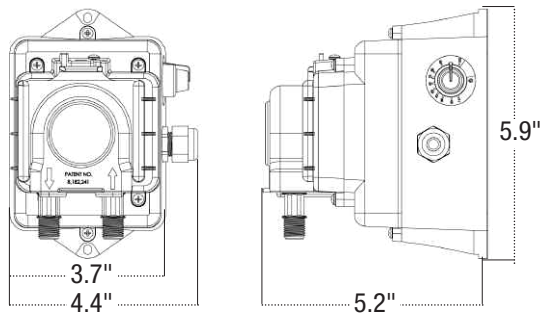
Flow Rate Output Control Potentiometer, 50:1 Turndown

Reproducibility ±2%

Maximum Working Pressure 80 psi (5.5 bar)

Maximum Operating Temperature 104°F (40°C)

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

Motor Type 24VDC, brushless

Shaft rpm (average maximum) 17

Duty Cycle Continuous

Maximum Viscosity 50 Centipoise

Motor Voltage
120V 60Hz (0.25A), 230V 60Hz (0.17A),
230V 50Hz (10W), 24VDC (0.5A)

Power Cord Type
120V 60Hz, 230V 60Hz: SJTOW,
230V 50Hz: H05RN-F, 24VDC pigtail

Power Cord Plug End
120V 60Hz NEMA 5-15P, 230V 60Hz NEMA 6-15P,
230V 50Hz CEE7/7, 24VDC pigtail

Power Cord Length 6 ft (1.8 m) or 24VDC Pigtail 1 ft (30.5 cm)

Classification Indoor/Outdoor

Materials of Construction

All Housings Polycarbonate

Pump Tube & Check Valve Duckbill Santoprene® (FDA approved)

Pump Head Rollers Polyethylene

Suction/Discharge Tubing, Ferrules Polyethylene (FDA approved)

Tube and 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

NOTE: Refer to the chemical guide for material compatibility

Agency Listings

THIS PUMP IS TESTED AND CERTIFIED BY IAPMO ACCORDING TO ANSI/NSF 61 FOR CONTACT WITH SODIUM HYPOCHLORITE AND WATER ONLY AND NSF/ANSI 372.

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Listings vary by model. 24VDC pumps do not carry any agency listings.

ECON LD 80 psi (5.5 bar) max. Flow Rate Outputs

Item Number Prefix	Pump Tube	Roller Assembly	Turndown Ratio	Ounces per Hour	Milliliters per Hour
E10LHM	M	White	50:1	0.04 to 2.4	1.3 to 70.0
E10LHF	F	White	50:1	0.11 to 8.1	3.2 to 240.0
E10LHG	G	Black	50:1	0.50 to 25.1	14.8 to 742.3
E10LHH	H	Black	50:1	1.01 to 50.7	29.7 to 1499.4
					Approximate Max. Output @ 50/60Hz
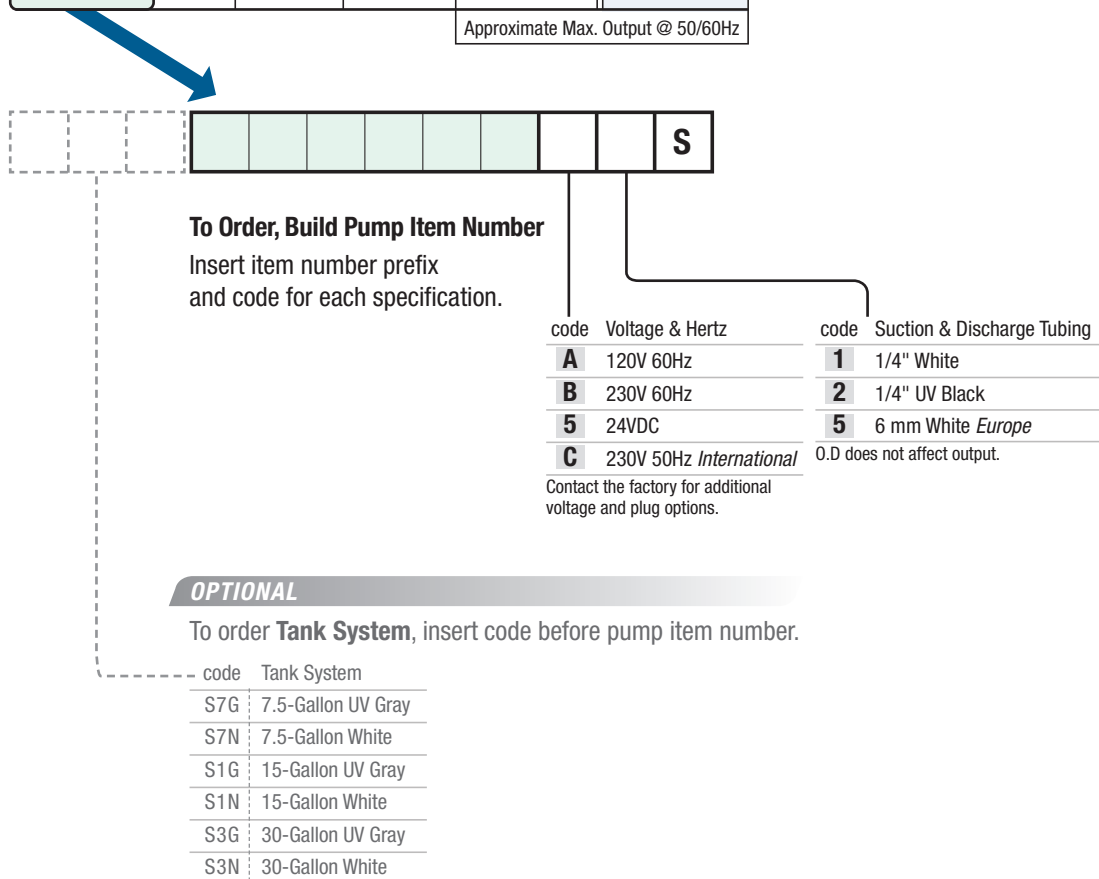
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[ ] [ ] [ ]   [ ] [ ] [ ] [ ] [ ] [ ]  [ ] [ ]  S
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To Order, Build Pump Item Number

Insert item number prefix
and code for each specification.

code	Voltage & Hertz
A	120V 60Hz
B	230V 60Hz
5	24VDC
C	230V 50Hz *International*

Contact the factory for additional
voltage and plug options.

code	Suction & Discharge Tubing
1	1/4" White
2	1/4" UV Black
5	6 mm White *Europe*

O.D does not affect output.

OPTIONAL

To order **Tank System**, insert code before pump item number.

code	Tank System
S7G	7.5-Gallon UV Gray
S7N	7.5-Gallon White
S1G	15-Gallon UV Gray
S1N	15-Gallon White
S3G	30-Gallon UV Gray
S3N	30-Gallon White

NOTICE: The information within this chart 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.
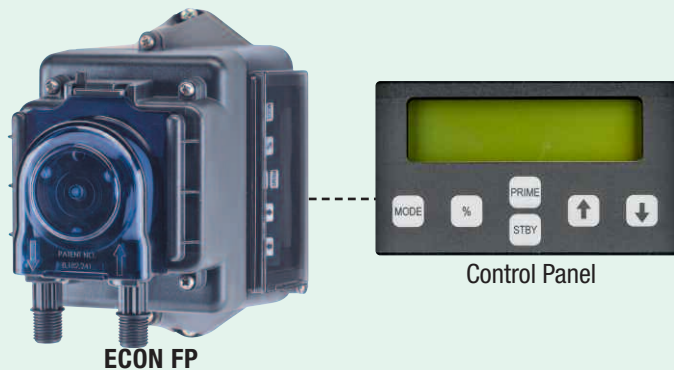
ECON FP

Control Panel

ECON FP Meter System

ECON Tank System

Quick Facts

- Flow activated
- Up to 30 gpd @ 80 psi max.
- Digital keypad with LCD display
- 10:1 turndown, 1% increments
- Econ FP pump item number begins with E10P or E20P

Flow Activated

The Econ FP is a flow activated peristaltic pump with three modes of operation. Based on the mode of operation selected, the pump runs at a set time or a set speed in response to receiving a signal. The control panel displays one of three operating modes: Seconds, Flow Switch or Auxiliary. The pump is designed for light duty applications such as drinking water disinfection or pH adjustment for private water wells in homes or farms.

Econ FP Meter System or Tank System

For convenient and quick installations or turnkey operations, the Econ FP Meter System is equipped with the pump and corresponding dry contact 3/4" or 1" water meter mounted on a heavy duty panel.

The pre-assembled Tank System is equipped with the pump mounted to a 7.5, 15 or 30 gallon capacity tank. Select UV Gray for outdoor installations or translucent white.

Three Operating Modes

SECONDS: The pump can accept a dry (non-voltage) contact signal and will run for a set **time** in response to receiving the signal. There are five pump operating time ranges; the maximum time is displayed on the control panel. The run time is adjustable from 10% to 100% in 1% increments.

1 second = 0.1-1.0   5 seconds = 0.5-5.0   10 seconds = 1.0-10.0
20 seconds = 2.0-20.0   60 seconds = 6.0-60.0

FLOW SWITCH: The pump can accept a dry (non-voltage) contact signal from a 2 wire flow switch and will run at the set **speed** as long as it receives the dry contact. The pump speed is adjustable from 10% to 100% in 1% increments.

AUXILIARY: The pump can accept a 12-24 VAC/VDC signal from control equipment that responds to flow and will run at a set **speed** for as long as it receives the signal. The pump speed is adjustable from 10% to 100% in 1% increments.

Features

- Advantages of Stenner peristaltic pumps on page 1
- Patented quick release pump head
- Tube replacement without tools
- Enclosed housing
- Indoor/Outdoor
- Solid one piece tube construction
- Wall mountable
- Optional mounting accessories available

Weights and Dimensions

Pump
Shipping Weight 4 lbs (1.7 kg)
Box Dimensions 8 X 8 x 10 in. (21 x 21 x 25 cm)
Product Dimensions

5.9"

3.7"   5.4"

Meter System
Shipping Weight 17 lbs (7.7 kg)
Box Dimensions 24 x 23 x 12 in. (61 x 58 x 30 cm)

Accessories Shipped with Each Pump

3 Connecting Nuts 1/4" & 3 Ferrules 1/4" or 6 mm *Europe*

1 Duckbill Check Valve

1 Weighted Suction Line Strainer 1/4" or 6 mm *Europe*

20' Suction/Discharge Tubing 1/4", white or UV black or 20' Suction/Discharge, white, 6 mm *Europe*

1 Additional Pump Tube

1 Manual

Specifications

Flow Rate Output Control
Six button control panel with LCD display

Reproducibility ±2%

Maximum Working Pressure 80 psi (5.5 bar)

Maximum Operating Temperature 104°F (40°C)

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

Motor Type 24VDC, brushless

Shaft rpm (average maximum) 60

Duty Cycle Continuous

Maximum Viscosity 100 Centipoise

Motor Voltage
120V 60Hz (0.25A), 230V 60Hz (0.17A),
230V 50Hz (10W), 24VDC (0.85A)

Power Cord Type
120V 60Hz, 230V 60Hz: SJTOW,
230V 50Hz: H05RN-F, 24VDC pigtail

Power Cord Plug End
120V 60Hz NEMA 5-15P, 230V 60Hz NEMA 6-15P,
230V 50Hz CEE7/7, 24VDC pigtail

Power Cord Length
6 ft (1.8 m), 10 ft (3.05 m) or
24VDC Pigtail 1 ft (30.5 cm)

Classification Indoor/Outdoor

Materials of Construction

All Housings Polycarbonate

Pump Tube & Check Valve Duckbill
Santoprene® (FDA approved)

Pump Head Rollers Polyethylene

Suction/Discharge Tubing, Ferrules
Polyethylene (FDA approved)

Tube and 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

NOTE: Refer to the chemical guide for material compatibility.

Agency Listings

IP44

c (UL) US   CE

LISTED
METERING PUMP
96F0

THIS PUMP IS TESTED
AND CERTIFIED BY IAPMO
ACCORDING TO ANSI/NSF 61
FOR CONTACT WITH SODIUM
HYPOCHLORITE AND WATER
ONLY AND NSF/ANSI 372.

Listings vary by model. 24VDC pumps do not carry any agency listings.

ECON FP 80 psi (5.5 bar) max. Flow Rate Outputs

Item Number Prefix	Pump Tube	Roller Assembly	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
E10PLM	M	White	10:1	0.49	0.02	2.6	0.04	1.84	0.08	76.7	1.3
E10PHM	M	White	10:1	0.83	0.03	4.4	0.07	3.14	0.13	130.8	2.2
E20PHM	M	White	10:1	1.41	0.06	7.5	0.13	5.36	0.22	223.2	3.7
E20PHF	F	White	10:1	4.5	0.19	24.0	0.40	17.01	0.71	708.8	11.8
E20PHG	G	Black	10:1	16.0	0.67	85.3	1.42	60.48	2.52	2520.0	42.0
E20PHH	H	Black	10:1	30.0	1.25	160.0	2.67	113.40	4.73	4725.0	78.8
				Approximate Maximum Output @ 50/60Hz							

To Order, Build Pump Item Number

Insert item number prefix and code for each specification.

code	Voltage & Hertz
7	120V 60Hz; 6' cord
8	120V 60Hz; 10' cord
B	230V 60Hz; 6' cord
5	24VDC; 1' cord
9	230V 50Hz; 6' cord *International*

code	Suction & Discharge Tubing
1	1/4" White
2	1/4" UV Black
5	6 mm White *Europe*

O.D does not affect output.

OPTIONAL

To order **Tank System**, insert code before pump item number.

code	Tank System
S7G	7.5-Gallon UV Gray
S7N	7.5-Gallon White
S1G	15-Gallon UV Gray
S1N	15-Gallon White
S3G	30-Gallon UV Gray
S3N	30-Gallon White

To order **Meter System**, insert code after pump item number.

code	Meter System
71	3/4" 1 pulse/gallon
72	3/4" 2 pulses/gallon
74	3/4" 4 pulses/gallon
11	1" 1 pulse/gallon
12	1" 2 pulses/gallon
14	1" 4 pulses/gallon

Tank System and Meter System are two separate systems and not sold as one.

NOTICE: The information within this chart 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.

ECON FX and VX SERIES   Variable Speed | Multiple Applications

ECON FX

ECON Tank System

ECON VX

Potentiometer

Quick Facts

ECON FX – Fixed Speed
- No adjustment
- Up to 2.09 oz/min @ 80 psi max.
  Up to 3.45 oz/min @ 25 psi max.
- Econ FX pump item number begins with E10FX or E20FX

ECON VX – Variable Speed
- Adjustable potentiometer
- Up to 2.09 oz/min @ 80 psi max.
  Up to 3.45 oz/min @ 25 psi max.
- Econ VX pump item number begins with E10VX or E20VX

Features

- Advantages of Stenner peristaltic pumps on page 1
- Patented quick release pump head
- Tube replacement without tools
- Enclosed housing
- Wall mountable
- Indoor/Outdoor
- Optional mounting accessories

Reliable Accurate Metering

Both the Econ VX and FX are peristaltic pumps designed with a totally enclosed brushed motor for light duty or general intermittent applications. The pumps work well for fluid transfer, sampling or injecting a variety of solutions for swimming pools, food & beverage, metal finishing, irrigation and horticulture and more.

The pumps are wall mountable or select one of the optional mounting accessories. The Econ VX or FX is offered as a Tank System; the pump is shipped pre-mounted to a 7.5, 15 or 30 gallon solution tank. The pumps are cULus for indoor and outdoor use; CE IP44 is also available.

Weights and Dimensions

ECON FX

Shipping Weight 3 lbs (1.4 kg)

Box Dimensions 8 x 8 x 10 in. (21 x 21 x 25 cm)

Product Dimensions

3.7"
4.4"
5.9"
5.2"
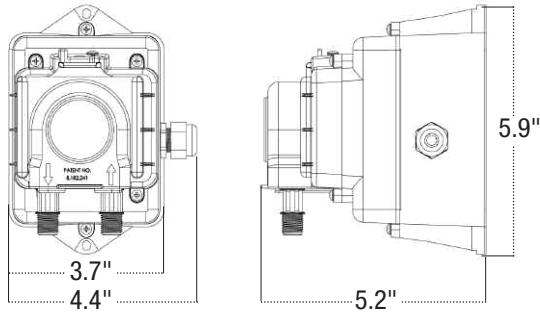
ECON VX

Shipping Weight 4 lbs (1.5 kg)
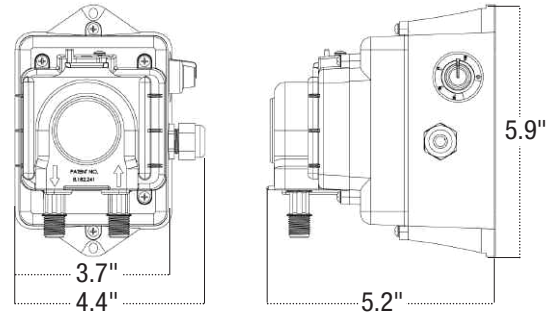
Box Dimensions 8 x 8 x 10 in. (21 x 21 x 25 cm)

Product Dimensions

3.7"
4.4"
5.9"
5.2"

Accessories Shipped with Each Pump

3 Connecting Nuts 1/4" & 3 Ferrules 1/4" or 6 mm *Europe*

1 Injection Fitting 25 psi (1.7 bar) max.
or 1 Duckbill Check Valve 80 psi (5.5 bar) max.

1 Weighted Suction Line Strainer 1/4" or 6 mm *Europe*

20' Suction/Discharge Tubing 1/4", white or UV black
or 20' Suction/Discharge, white, 6 mm *Europe*

1 Additional Pump Tube

1 Manual

Specifications

Flow Rate Output Control
  ECON FX Fixed speed, no adjustment
  ECON VX Adjustable potentiometer

Reproducibility ±5%

Maximum Working Pressure 80 psi (5.5 bar), 25 psi (1.7 bar)

Maximum Operating Temperature 104°F (40°C)

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

Motor Type 24VDC, brushed

Shaft rpm (average maximum) 26, 44

Duty Cycle Continuous

Maximum Viscosity 100 Centipoise

Motor Voltage 120V 60Hz (0.25A), 230V 60Hz (0.17A),
230V 50Hz (10W), 24VDC (0.5A)

Power Cord Type 120V 60Hz, 230V 60Hz: SJTOW,
230V 50Hz: H05RN-F, 24VDC pigtail

Power Cord Plug End 120V 60Hz NEMA 5-15P,
230V 60Hz NEMA 6-15P, 230V 50Hz CEE7/7, 24VDC pigtail

Power Cord Length 6 ft (1.8 m) or 24VDC Pigtail 1 ft (30.5 cm)

Classification Indoor/Outdoor

Materials of Construction

All Housings Polycarbonate

Pump Tube & Check Valve Duckbill Santoprene® (FDA approved)

Pump Head Rollers Polyethylene

Suction/Discharge Tubing, Ferrules Polyethylene (FDA approved)

Tube and 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

NOTE: Refer to the chemical guide for material compatibility.

Agency Listings

Listings vary by model. 24VDC pumps do not carry any agency listings.

ECON FX Fixed Speed - Flow Rate Outputs

Item Number Prefix	Pressure max. psi	Pump Tube	Roller Assembly	Gallons per Day	Gallons per Hour	Ounces per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Hour	Milliliters per Minute	Pressure max. bar
E10FXA	25	A	White	7.4	0.31	39.5	0.66	28.0	1.17	1166.7	19.44	1.7
E10FXB	25	B	White	14.0	0.58	74.7	1.24	52.9	2.20	2204.2	36.74	1.7
E20FXB	25	B	White	24.8	1.03	132.3	2.20	93.7	3.90	3904.2	65.07	1.7
E20FXC	25	C	White	38.8	1.62	206.9	3.45	146.7	6.11	6112.5	101.88	1.7
E10FXH	80	H	Black	14.0	0.58	74.7	1.24	52.9	2.20	2204.2	36.74	5.5
E20FXH	80	H	Black	23.5	0.98	125.3	2.09	88.8	3.70	3700.0	61.67	5.5

Approximate Output @ 50/60Hz

ECON VX Variable Speed - Flow Rate Outputs

Item Number Prefix	Pressure max. psi	Pump Tube	Roller Assembly	Gallons per Day	Gallons per Hour	Ounces per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Hour	Milliliters per Minute	Pressure max. bar
E10VXA	25	A	White	0.8 to 7.4	0.03 to 0.31	0.4 to 39.5	0.01 to 0.66	3.0 to 28.0	0.13 to 1.17	125.0 to 1166.7	2.08 to 19.44	1.7
E10VXB	25	B	White	1.2 to 14.0	0.05 to 0.58	6.4 to 74.7	0.11 to 1.24	4.5 to 52.9	0.19 to 2.20	188.0 to 2204.2	3.13 to 36.74	1.7
E20VXB	25	B	White	1.6 to 24.8	0.07 to 1.03	8.6 to 132.3	0.14 to 2.20	6.0 to 93.7	0.25 to 3.90	250.0 to 3904.2	4.17 to 65.07	1.7
E20VXC	25	C	White	4.4 to 38.8	0.18 to 1.62	23.4 to 206.9	0.39 to 3.45	16.6 to 146.7	0.69 to 6.11	692.0 to 6112.5	11.53 to 101.88	1.7
E10VXH	80	H	Black	1.7 to 14.0	0.07 to 0.58	9.1 to 74.7	0.15 to 1.24	6.4 to 52.9	0.27 to 2.20	267.0 to 2204.2	4.45 to 36.74	5.5
E20VXH	80	H	Black	2.7 to 23.5	0.11 to 0.98	14.5 to 125.3	0.24 to 2.09	10.2 to 88.8	0.43 to 3.70	425.0 to 3700.0	7.08 to 61.67	5.5

Approximate Output @ 50/60Hz

							S

To Order, Build Pump Item Number
Insert item number prefix
and code for each specification.

code	Voltage & Hertz
A	120V 60Hz
B	230V 60Hz
5	24VDC
C	230V 50Hz *International*

Contact the factory for additional
voltage and plug options.

code	Suction & Discharge Tubing
1	1/4" White
2	1/4" UV Black
5	6 mm White *Europe*

O.D does not affect output.

OPTIONAL

To order **Tank System**, insert code before pump item number.

code	Tank System
S7G	7.5-Gallon UV Gray
S7N	7.5-Gallon White
S1G	15-Gallon UV Gray
S1N	15-Gallon White
S3G	30-Gallon UV Gray
S3N	30-Gallon White

NOTICE: The information within this chart 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.

ECON T TANK SYSTEM

Features

- Timed injection
- Digital control pad with LCD display
- Programmable 24 hour clock
- Enclosed housing
- Wall mountable
- Patented quick release pump head
- Tube replacement without tools
- Advantages of Stenner peristaltic pumps on page 1

Automatic Dosing Control for Timed Applications

The Econ T and TD pumps provide automatic injection and offer flexibility to program a customized dosing schedule for light duty applications. Program up to 24 independent On and Off events within a 7 day period. Each event can be set for a specific On and Off time for each selected day or days of the week. The timer is programmed in hour and minutes increments. A battery is included as back-up to power loss to maintain the time and programmed events.

ECON TD Electric　　　**ECON TD Battery-Powered**

Quick Facts

ECON T

- Up to 1.92 oz/min @ 80 psi max.
  Up to 1.33 oz/min @ 25 psi max.
- Indoor/Outdoor
- Santoprene® pump tube
- Optional mounting accessories
- Available as a Tank System
- Econ T pump item number begins with E10T or E20T

ECON TD

- Up to 3.18 oz/min @ 5 psi max.
- FKM pump tube for d-Limonene
- Indoor
- Optional mounting accessories
- Econ TD pump item number begins with E20T_ _C3

ECON TD Battery-Powered

- Up to 4.0 oz/min @ 5 psi max.
- FKM pump tube for d-Limonene
- Silicone pump tube
- 8 D cell batteries 1.2V–1.5V or 2 6V lantern batteries, not included
- Indoor
- Wall mountable only
- Econ TD battery-powered pump item number begins with E10T01 or E20T01

Applications

ECON T

- Biocide feed for Legionella prevention in small cooling towers
- Sanitation for water fountains
- Injection of liquid solar blankets or enzymes for commercial pools
- Injection for scale and algae control in poultry evaporative cool cells
- Disinfection of poultry hatchery dip tanks

ECON TD

The Econ TD pumps are an extension of the Econ T programmable timer series designed for 5 psi or less. Timed applications such as commercial drain line maintenance, grease trap treatment or odor control installations are some of the possibilities. Unlike the Econ T, both TD pumps offer an FKM tube for d-Limonene. The Econ TD battery-powered pump offers a silicone pump tube option and is the only pump in the Econ line with a blue roller assembly.

Accessories Shipped with Each Pump

ECON T

3 Connecting Nuts 1/4" & 3 Ferrules 1/4" or 6 mm *Europe*

1 Injection Fitting 25 psi (1.7 bar) max.
or 1 Duckbill Check Valve 80 psi (5.5 bar) max.

1 Weighted Suction Line Strainer 1/4" or 6 mm *Europe*

20' Suction/Discharge Tubing 1/4", white
or 20' Suction/Discharge, white, 6 mm *Europe*

1 Additional Pump Tube

1 Manual

ECON TD

3 Connecting Nuts 1/4" & 3 Ferrules 1/4" or 6 mm *Europe*

1 Injection Fitting

1 Ceramic Weight with clip 1/4"

20' Suction/Discharge Tubing 1/4", white or UV black
or 20' Suction/Discharge, white, 6 mm *Europe*

1 Manual and Addendum

NOTE: Econ TD Battery Pump includes 1 Mounting Bracket.

Weights and Dimensions

ECON T and ECON TD Electric-Powered

Shipping Weight 4 lbs (1.8 kg)

Box Dimensions 8 x 8 x 10 in. (21 x 21 x 25 cm)

Product Dimensions

5.9"
3.7"
5.4"
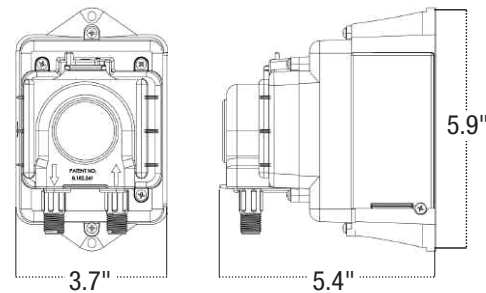
ECON TD Battery-Powered

Shipping Weight 5 lbs (2.1 kg)

Box Dimensions 14 x 9 x 10 in. (36 x 23 x 24 cm)

Product Dimensions

10.1"
6.7"
6.7"
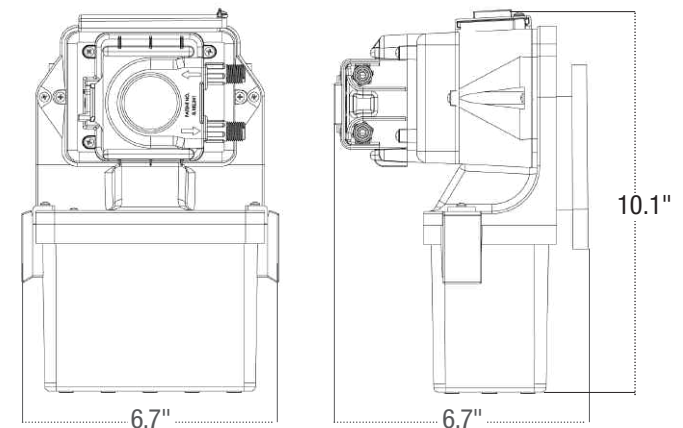
Specifications	ECON T	ECON TD Electric	ECON TD Battery
Flow Rate Output Control	Programmable 24 hr clock, 7 day, 24 event timer	Programmable 24 hr clock, 7 day, 24 event timer	Programmable 24 hr clock, 7 day, 24 event timer
Reproducibility	±5%	±15%	Varies depending on battery quality and strength
Max. Working Pressure	25 psi (1.7 bar), 80 psi (5.5 bar)	5 psi (0.34 bar)	5 psi (0.34 bar)
Max. Operating Temperature	104°F (40°C)	104°F (40°C)	104°F (40°C)
Max. Suction Lift	25 ft (7.6 m) vertical lift, based on water	5 ft (1.5 m) vertical lift, based on water	5 ft (1.5 m) vertical lift, based on water
Motor Type	24VDC, brushed	24VDC, brushed	Proprietary
Shaft rpm (average maximum)	9, 18 or 40	8, 18, 25 or 40	Varies depending on battery quality and strength
Duty Cycle	Continuous	Continuous	Intermittent
Maximum Viscosity	100 Centipoise	100 Centipoise	100 Centipoise
Motor Voltage	120V 60Hz (0.25A), 230V 60Hz (0.17A), 230V 50Hz (10W), 24VDC (0.5A)	120V 60Hz (0.25A), 230V 60Hz (0.17A), 230V 50Hz (10W), 24VDC (0.5A)	n/a
Power Cord Type	120V 60Hz, 230V 60Hz: SJTOW, 230V 50Hz: H05RN-F, 24VDC pigtail	120V 60Hz, 230V 60Hz: SJTOW, 230V 50Hz: H05RN-F, 24VDC pigtail	n/a
Power Cord Plug End	120V 60Hz NEMA 5-15P, 230V 60Hz NEMA 6-15P, 230V 50Hz CEE7/7, 24VDC pigtail	120V 60Hz NEMA 5-15P, 230V 60Hz NEMA 6-15P, 230V 50Hz CEE7/7, 24VDC pigtail	n/a
Power Cord Length	6 ft (1.8 m), 10 ft (3.05 m) or 24VDC Pigtail 1 ft (30.5 cm)	6 ft (1.8 m), 10 ft (3.05 m) or 24VDC Pigtail 1 ft (30.5 cm)	n/a
Classification	Indoor/Outdoor	Indoor	Indoor
Materials of Construction			
Pump Tube	Santoprene® (FDA approved)	FKM	FKM or Silicone
Check Valve Duckbill	Santoprene® (FDA approved)	n/a	n/a
Suction Line Weight	Strainer & Cap PVC or Polypropylene (both NSF listed); ceramic weight	Ceramic Weight with 1/4" Clip PVC (NSF listed); ceramic weight	Ceramic Weight with 1/4" Clip PVC (NSF listed); ceramic weight
Housings	Polycarbonate	Polycarbonate	Polycarbonate
Pump Head Rollers	Polyethylene	Polyethylene	Polyethylene
Suction/Discharge Tubing and Ferrules	Polyethylene (FDA approved)	Polyethylene (FDA approved)	Polyethylene (FDA approved)
Tube and Injection Fittings	PVC or Polypropylene (both NSF listed)	PVC or Polypropylene (both NSF listed)	PVC or Polypropylene (both NSF listed)
Connecting Nuts	PVC or Polypropylene (both NSF listed)	PVC or Polypropylene (both NSF listed)	PVC or Polypropylene (both NSF listed)
All Fasteners	Stainless steel	Stainless steel	Stainless steel

NOTE: Refer to the chemical guide for material compatibility.

Agency Listings

- INTERTEK/ETL Sanitation Listed, conforms to standard NSF/ANSI 50 (excludes any model rated for 80 psi max.).

Listings vary by model. 24VDC pumps do not carry any agency litings.

Listings vary by model. 24VDC pumps do not carry any agency litings.

Battery pumps do not carry any agency listings.

ECON T 25 psi (1.7 bar) max. Flow Rate Outputs Santoprene® tube only

Item Number Prefix	Pump Tube	Roller Assembly	Gallons per Day	Gallons per Hour	Ounces per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Hour	Milliliters per Minute
E10T1A	A	White	2.5	0.10	13.2	0.22	9.5	0.39	396.0	6.60
E10T2A	A	White	5.0	0.21	26.4	0.44	18.9	0.79	786.0	13.10
E10T2B	B	White	8.5	0.35	45.6	0.76	32.2	1.34	1338.0	22.30
E10T2C	C	White	15.0	0.63	79.8	1.33	56.8	2.37	2364.0	39.40
						Approximate Output @ 50/60Hz				

ECON T 80 psi (5.5 bar) max. Flow Rate Outputs Santoprene® tube only

Item Number Prefix	Pump Tube	Roller Assembly	Gallons per Day	Gallons per Hour	Ounces per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Hour	Milliliters per Minute
E10T1F	F	White	0.6	0.02	3.0	0.05	2.2	0.09	90.0	1.50
E10T2F	F	White	1.3	0.05	6.6	0.11	4.8	0.20	198.0	3.30
E20T4F	F	White	3.4	0.14	18.0	0.30	13.1	0.54	544.8	9.08
E20T4G	G	Black	12.3	0.51	65.4	1.09	46.5	1.94	1937.4	32.29
E20T4H	H	Black	21.7	0.90	115.2	1.92	82.0	3.41	3416.4	56.94
						Approximate Output @ 50/60Hz				

							S	

To Order, Build Pump Item Number

Insert item number prefix
and code for each specification.

code	Voltage & Hertz
7	120V 60Hz; 6' cord
8	120V 60Hz; 10' cord
B	230V 60Hz; 6' cord
5	24VDC; 1' cord
9	230V 50Hz; 6' cord *International*

code	Suction & Discharge Tubing
1	1/4" White
2	1/4" UV Black
5	6 mm White *Europe*

O.D does not affect output.

OPTIONAL

To order **Tank System**, insert code before pump item number.

code	Tank System
S7G	7.5-Gallon UV Gray
S7N	7.5-Gallon White
S1G	15-Gallon UV Gray
S1N	15-Gallon White
S3G	30-Gallon UV Gray
S3N	30-Gallon White

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.

ECON TD Electric-Powered 5 psi (0.34 bar) max. Flow Rate Outputs

Item Number Prefix	Pump Tube	Tube Material	Roller Assembly	Gallons per Day	Gallons per Hour	Ounces per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Hour	Milliliters per Minute
E20T1C3	C3	FKM	Black	9.10	0.38	48.7	0.81	34.6	1.44	1440.0	24.0
E20T2C3	C3	FKM	Black	17.10	0.71	91.2	1.52	64.7	2.70	2687.6	44.8
E20T3C3	C3	FKM	Black	23.20	0.97	123.7	2.06	87.8	3.66	3659.2	61.0
E20T4C3	C3	FKM	Black	35.76	1.49	190.7	3.18	135.4	5.64	5640.3	94.0
							Approximate Maximum Output @ 50/60Hz				

To Order, Build Pump Item Number

Insert item number prefix
and code for each specification.

code	Voltage & Hertz
7	120V 60Hz; 6' cord
8	120V 60Hz; 10' cord
B	230V 60Hz; 6' cord
5	24VDC; 1' cord
9	230V 50Hz; 6' cord *International*

code	Suction & Discharge Tubing
1	1/4" White
5	6 mm White *Europe*

O.D does not affect output.

ECON TD Battery-Powered 5 psi (0.34 bar) max. Flow Rate Outputs

Item Number Prefix	Pump Tube	Tube Material	Roller Assembly	Gallons per Day	Gallons per Hour	Ounces per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Hour	Milliliters per Minute
E10T01C3	C3	FKM	Blue	24.7	1.00	132.0	2.2	94.0	3.9	3904.0	65.0
E20T01C3	C3	FKM	Blue	41.7	1.74	222.0	3.7	158.0	6.6	6577.0	110.0
E10T01C4	C4	Silicone	Blue	27.0	1.10	144.0	2.4	102.0	4.2	4259.0	71.0
E20T01C4	C4	Silicone	Blue	45.0	1.88	240.0	4.0	170.0	7.1	7098.0	118.0
							Approximate Maximum Output @ 50/60Hz				

To Order, Build Pump Item Number

Insert item number prefix and code
for suction & discharge tubing.

code	Suction & Discharge Tubing
1	1/4" White
5	6 mm White Europe

O.D. does not affect output.

NOTICE: The information within this chart 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.

OEM

On/Off Switch

OEM BATCH

Stenner's custom OEM pump can be designed with the customer's supplied motor and gearbox. A standard OEM bracket is provided, or a custom bracket can be designed. The pump is offered with a brushless or brushed DC motor, and as an open or enclosed version.

Enclosed versions offer an optional internal power supply and customizable power cord for 100-240VAC, 50/60Hz. The customer selects the fixed output from ranges of 0.04 ounces per hour to 2.08 gallons per hour, up to 80 psi maximum (1.3 milliliters per hour to 7.88 liters per hour, up to 5.5 bar maximum).

The custom OEM batch pump is factory programmed to run a specific length of time when manually activated by an integral switch or can be designed to activate with an input signal. The customer selects the pump run time from 0.1 seconds to 24 hours per activations.

The pre-set fluid volume choices are up to 50 gallons per day, up to 80 psi maximum (189.3 liters per day, up to 5.5 bar maximum). The pump is supplied with a 24VDC brushless motor and a customizable power cord for 100-240VAC, 50/60Hz. The pump can also be supplied without an internal power supply.

Weights and Dimensions

Shipping Weight 4 lbs (1.5 kg)
Box Dimensions 8 x 8 x 10 in. (21 x 21 x 25 cm)
Product Dimensions

3.7"
4.4"

5.9"
5.2"
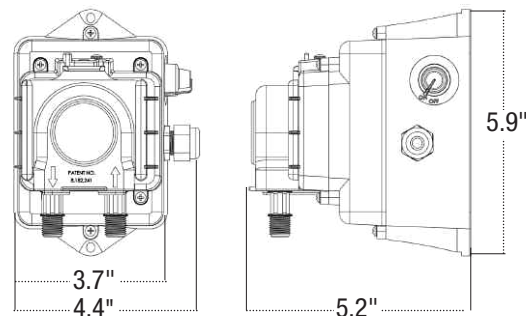
Quick Facts

- Up to 8.1 oz/min @ 80 psi max.
- Adjustable potentiometer

- Select custom color
- Optional tube materials
- Dual bearing support output shaft

- Serviceable liquid end, gear train & motor
- Agency approvals available
- Voltage options

ECON VACCINATOR™

Delivers liquid oral vaccine for animal health
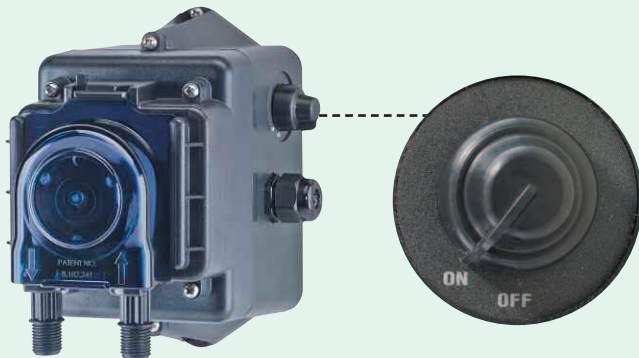
ECON VACCINATOR™

Quick Facts

- Inject 1 gallon consistently over 6 hours
- Built-in timer automatically shut off pump
- Simple installation
- Inject directly into water lines
- Eliminates pre-measured stock solutions

Reliable Accurate Delivery

The Vaccinator delivers 1 gallon of a liquid oral vaccine into the water line consistently over 6 hours.

Injection is directly into the water line, unlike proportioners which require a water bypass.

Direct injection assures accurate dosages to the entire herd and eliminates the need to pre-measure stock solutions, reducing labor costs.

Two Models

US

Item Number E10SHGA1S

    0.36 ounces per minute max.

    G pump tube

    Black roller assembly

    120V 60Hz

    1/4" white suction/discharge tubing

EUROPE

Item Number E10SHGC9S

    13.9 milliliters per minute max.

    G pump tube

    Black roller assembly

    230V 50Hz

    6 mm white suction discharge tubing

Features

- Patented quick release pump head
- Tube replacement without tools
- Enclosed housing
- On/Off Potentiometer
- Wall mountable
- Indoor/Outdoor
- Optional mounting accessories
- Advantages of Stenner peristaltic pumps on page 1

Weights and Dimensions

Shipping Weight 4 lbs (1.5 kg)
Box Dimensions 8 x 8 x 10 in. (21 x 21 x 25 cm)
Product Dimensions

3.7"
4.4"
5.2"
5.9"
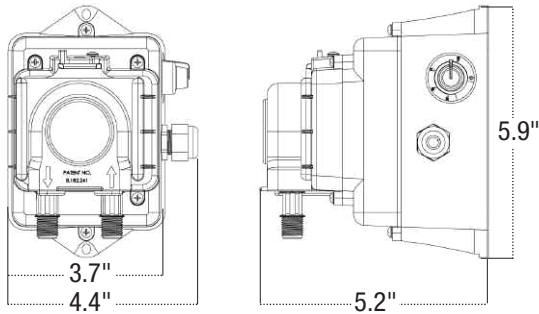
Accessories Shipped with Each Pump

4 Connecting nuts 1/4" or 6 mm *Europe*

3 Ferrules 1/4" or 6 mm *Europe*

1 Injection Check Valve

1 Vented Cap with tubing adapter, 1.5" or 38 mm *Europe*

20' Suction/Discharge Tubing white, 1/4" or 6 mm *Europe*

1 Additional pump tube

1 Manual

Specifications

Flow Rate Output Control
Factory programmed with 375 minute run cycle

Reproducibility ±2%

Maximum Working Pressure 80 psi (5.5 bar)

Maximum Operating Temperature 104°F (40°C)

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

Motor Type 24VDC, brushless

Shaft rpm (average maximum) 17

Duty Cycle Continuous

Maximum Viscosity 50 Centipoise

Motor Voltage
120V 60Hz (0.25A), 230V 50Hz 1PH (0.3)

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

Power Cord Plug End
120V 60Hz NEMA 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 & Check Valve Duckbill
Santoprene® (FDA approved)

Pump Head Rollers Polyethylene

Suction/Discharge Tubing, Ferrules
Polyethylene (FDA approved)

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

Connecting Nuts
PVC or Polypropylene (both NSF listed)

All Fasteners Stainless steel

NOTE: Refer to the chemical guide for material compatibility.

Agency Listings

C UL US
LISTED
METERING PUMP
96FO

Listings vary by model.

7.5-Gallon (28.4 Liters)

15-Gallon (56.8 Liters)

30-Gallon (113.6 Liters)

Materials of Construction

Tank Polyethylene
Lid with child resistant lock Polypropylene
Grommets Viton
Screws Stainless steel

Agency Listings

C   USA

THIS TANK IS TESTED AND
CERTIFIED BY WQA ACCORDING TO
ANSI/NSF 61 FOR CONTACT WITH
SODIUM HYPOCHLORITE AND
WATER ONLY AND ANSI/NSF 372.

Quick Facts

- UV resistant gray or translucent white
- 7.5, 15 or 30 gallon
- Child resistant lid
- Polyethylene construction
- Lightweight

Weights and Dimensions

Tank Size	Shipping Weight	Box Dimensions
7.5-Gallon	15 lbs (6.8 kg)	23 x 23 x 21 in. (58 x 58 x 54 cm)
15-Gallon	18 lbs (8.2 kg)	23 x 23 x 27 in. (58 x 58 x 66 cm)
30-Gallon	24 lbs (10.8 kg)	23 x 23 x 39 in. (58 x 58 x 97 cm)

Product Dimensions

7.5-Gallon: 20.5 OD x 19.6 in. (52.1 OD x 49.9 cm)
15-Gallon: 20.5 OD x 25.3 in. (52.1 OD x 64.1 cm)
30-Gallon: 20.5 OD x 37.5 in. (52.1 OD x 95.3 cm)

TANKS		
DESCRIPTION	**WORKS WITH** item number prefix below	**ITEM NUMBER**
7.5-gallon, gray		STS7GC
7.5-gallon, white	45, 85, S30, S34, S3F, S3V, S3P S40, S44, S4F, S4V, S4M All Econ* Pumps EXCLUDING E10T01, E20T01	STS7NC
15-gallon, gray		STS15GC
15-gallon, white		STS15NC
30-gallon, gray		STS30GC
30-gallon, white		STS30NC

* Econ Mounting Kit **EC303** required and sold separately on page 70.

TANK SYSTEM   Pump and Tank Pre-Assembled System

7.5-Gallon (28.4 Liters)

15-Gallon (56.8 Liters)

30-Gallon (113.6 Liters)

Materials of Construction
Tank Polyethylene
Lid with child resistant lock Polypropylene
Grommets Viton
Screws Stainless steel

Agency Listings

THIS TANK IS TESTED AND
CERTIFIED BY WQA ACCORDING TO
ANSI/NSF 61 FOR CONTACT WITH
SODIUM HYPOCHLORITE AND
WATER ONLY AND ANSI/NSF 372.

How It Works

Tank Systems are available for the Classic Series single head pumps, the S Series pumps, and the Econ pump line. Most Tank Systems consist of the tank and pump shipped pre-assembled to save time on installation. The Tank System for the S Series is shipped with the pump boxed separately within the tank box to protect it during shipping. The S Series pump will easily slide onto the pre-installed mounting bracket on the tank.

Features

- Pump is vertically mounted for solution containment
- Child resistant lid
- Polyethylene construction is lightweight and rugged

Rain Roof (Classic Series only)
Vertical mount over containment basin

Child Resistant Lid

Level Indicators

Weights and Dimensions

| Tank Size	Shipping Weight			Box Dimensions
	Classic Adjustable S Series	**Classic Fixed**	**Econ**	
7.5-Gallon	24 lbs (10.9 kg)	23 lbs (10.4 kg)	19 lbs (8.6 kg)	23 x 23 x 21 in. (58 x 58 x 54 cm)
15-Gallon	27 lbs (12.2 kg)	26 lbs (11.8 kg)	22 lbs (10.0 kg)	23 x 23 x 27 in. (58 x 58 x 66 cm)
30-Gallon	34 lbs. (15.4 kg)	32 lbs (14.5 kg)	27 lbs (12.2 kg)	23 x 23 x 39 in. (58 x 58 x 97 cm)

Product Dimensions

7.5-Gallon: 20.5 OD x 19.6 in. (52.1 OD x 49.8 cm)
15-Gallon: 20.5 OD x 25.3 in. (52.1 OD x 64.1 cm)
30-Gallon: 20.5 OD x 37.5 in. (52.1 OD x 95.3 cm)
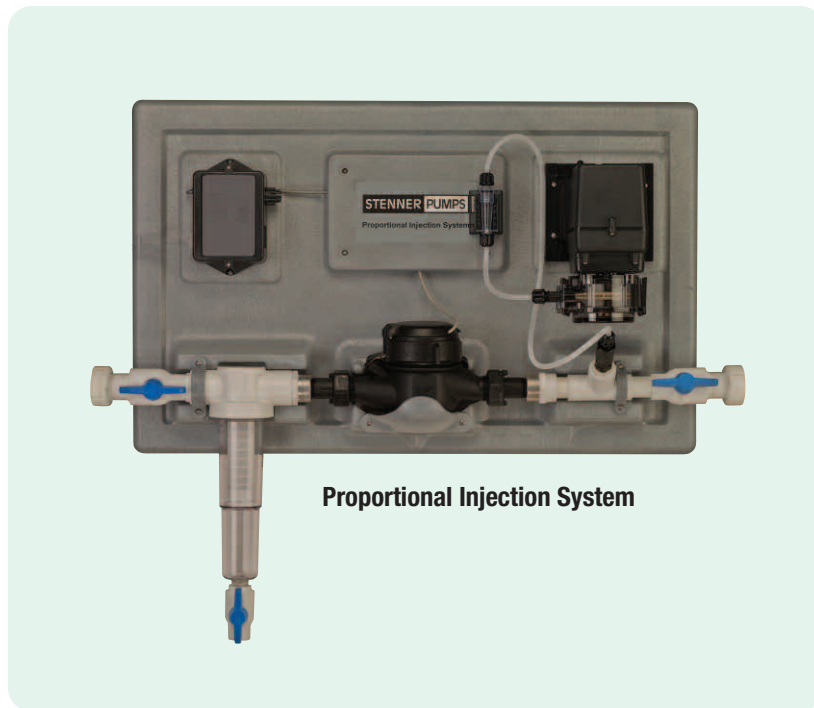
Proportional Injection System
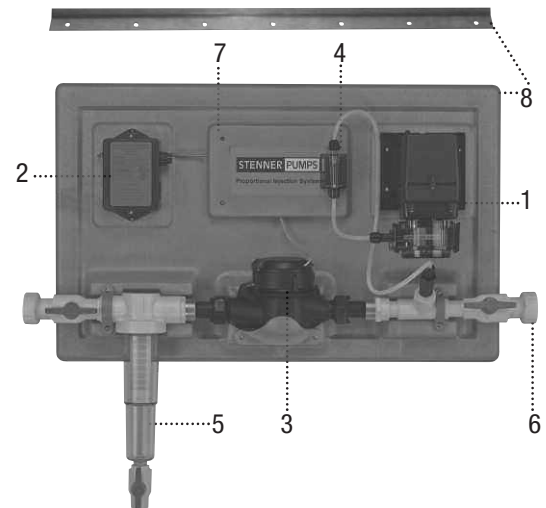
Proportional Metering in a Pre-Assembled System

The Proportional Injection System injects solution in proportion to the system's flow rate based on water volume. The water meter sends a signal to the PCM which actuates the pump. Components are pre-mounted to a heavy duty panel for quick installation and convenient equipment accessibility.

The system is suited for constant pressure (variable speed) well pumps, poultry and livestock houses, irrigation, systems with demand based backup wells and any application with varying flow rates.

Components

1   Classic Series Single Head Fixed Output Pump

2   PCM

3   Plastic 3/4" dry contact water meter, certified by the Water Quality Association to ANSI/NSF 372, low lead

4   Flow Indicator to confirm pump is operating

5   Filter with 30 and 100 mesh screens

6   Unions for easy installation and removal

7   Cabinet keeps cords and wires contained

8   Heavy duty panel and wall mounting bracket

Weights and Dimensions

Shipping Weight 29 lbs (13.2 kg)
Box Dimensions 36 x 23 x 12 in. (91 x 59 x 29 cm)

To Order, Build System Item Number

Insert code for each component selected.

S			1					

code	Classic 120V 60Hz Single Head Fixed
03	3 gpd / 11.4 lpd
05	5 gpd / 18.9 lpd
10	10 gpd / 37.9 lpd
17	17 gpd / 64.4 lpd
22	22 gpd / 83.3 lpd
40	40 gpd / 151.4 lpd

code	PCM 120V 60Hz operating seconds
01	0.1 to 1.0
05	0.5 to 5.0
10	1.0 to 10.0
20	2.0 to 20.0

code	Plastic Water Meter
341P	3/4" 1 pulse/gallon
342P	3/4" 2 pulses/gallon
344P	3/4" 4 pulses/gallon

Specifications

Flow Rate Output Control Water meter and PCM
Voltage 120V 60Hz

Materials of Construction

Panel & Panel Fittings Polyethylene
Mounting Hardware Stainless steel
Piping and Associated Fittings PVC
Water Meter Plastic lead free (certified with WQA/ANSI-372)
Filter PVC with polycarbonate cover and two polyester screens 30 and 100 mesh

NOTE: PVC connections are socket weld union 3/4" connections. Two 1" to 3/4" reducer couplings are included in the accessory kit to allow unit to adapt to 1" piping systems.

PCM

Potentiometer

Specifications

Timer Microcontroller with triac output

Turndown Ratio 10:1

Input Signal Non-voltage dry contact water meter

Reset Time Immediate

Minimum Signal Durations 10 milliseconds

Input Electrical 120V 60Hz

No Load Current 0.45mA AC maximum

Output Electrical
Maximum device load, 1.8 amp at 120V

Materials of Construction

Housings Polycarbonate

Agency Listings

c (UL) US
LISTED
34GZ

How It Works

The PCM is a time adjustable controller utilized with the Classic Series Single Head Fixed Output Pump and a pulsing dry contact water meter for applications requiring proportional injection. The water meter sends a signal to the PCM and the PCM actuates the pump to deliver the desired dose based on water volume. The PCM is a component in Stenner's Proportional Injection System.

Proportional Injection System
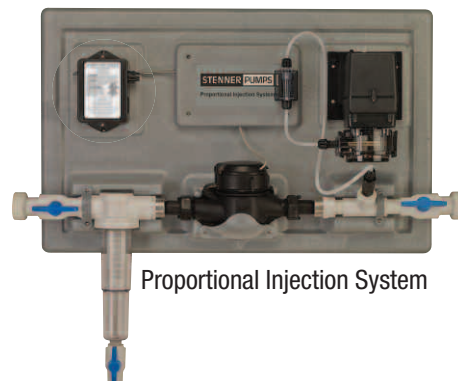
Features

• Chemical resistant ABS plastic housing
• On-time duration set with knob adjustment with locking feature
• 10' power cord and jacketed signal input cable

Do It Yourself Proportional Feed

Purchase a Classic Series Single Head Fixed Output Pump, a PCM and water meter to create your own proportional feed installation.

PCM

Classic Series
Fixed Output Pump

Water Meter
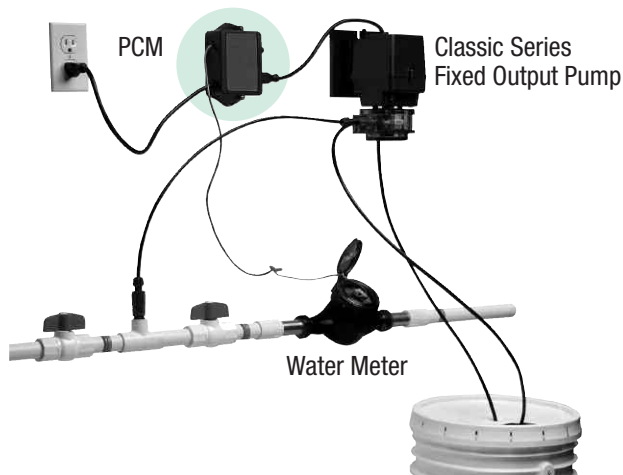
Interchangeable Operating Range Settings

The PCM's operating range can be converted by changing the position of the jumpers on the circuit board so another model doesn't have to be purchased.

3 2 1

Pin

Jumper

3 2 1 — 0.1-1 second

3 2 1 — 0.5-5 seconds

3 2 1 — 1-10 seconds

3 2 1 — 2-20 seconds
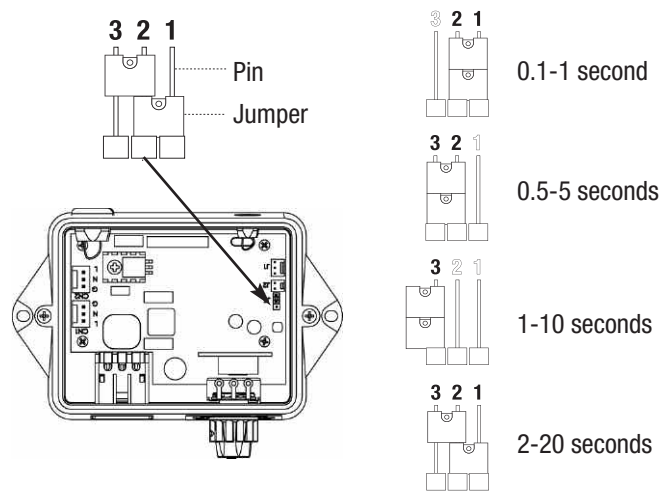
Weights and Dimensions

Shipping Weight 2.1 lbs (1 kg)
Box Dimensions 9 x 9 x 7 in. (23 x 23 x 18 cm)
Product Dimensions

5.4"

3.6"

2.2"

3.6"

2.2"

5.9"
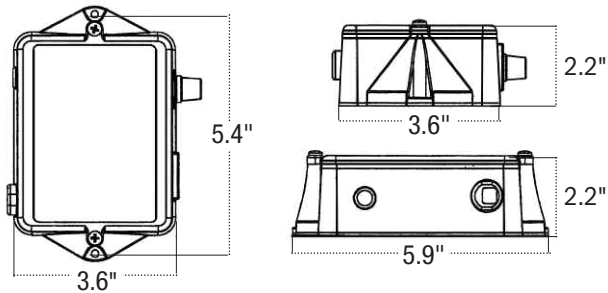
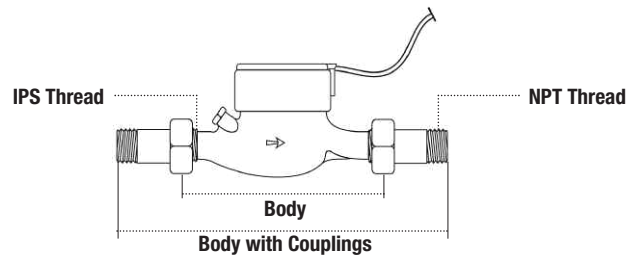| PCM	
OPERATING RANGE	**ITEM NUMBER**
0.1 to 1.0 Second	PCM1
0.5 to 5.0 Seconds	PCM5
1.0 to 10.0 Seconds	PCM10
2.0 to 20.0 Seconds	PCM20

Plastic Water Meter

How It Works

The plastic water meter doesn't require power and utilizes a reed switch to provide a pulsing dry contact signal. The meter is certified by IAPMO to ANSI/NSF 372, low lead.

The 3/4" or 1" meter is included with the Econ Meter Systems. The 3/4" meter is included with the Proportional Injection System. Purchase the meter and other components separately to create your own proportional feed installation.

Weights and Dimensions

Size	Shipping Weight	Body	Body with Couplings	IPS Thread	NPT Thread
3/4"	2.2 lbs (0.9 kg)	7.5" (19.1 cm)	11.5" (29.2 cm)	1"	0.75"
1"	2.8 lbs (1.4 kg)	10.25" (26.0 cm)	15.25" (38.7 cm)	1.25"	1"
1 1/2"	5.7 lbs (2.7 kg)	9.63" (24.4 cm)	14.75" (37.5 cm)	2"	1.5"

IPS Thread — NPT Thread

Body

Body with Couplings

Flow Rates*

SIZE	FLOW RATE GPM	PULSES PER GALLON			
3/4"	0.25 to 22	1	2	4	10
1"	0.75 to 50	1	2	4	10
1 1/2"	2.0 to 100	1	2	4	n/a

* Continuous Flow: The meter size should be selected based upon continuous flow, gpm, as opposed to pipe size.

Specifications

Accuracy ±2% when operating between minimum and maximum flow range
Temperature Range 35-122°F (1.7-50°C)
Pressure Ratings 15-100 psi (1.0-6.9 bar)
Maximum Current 20mA
Maximum Voltage 24VDC or 24VAC
Sensor Reed Switch
Cable Length 6 ft (1.8 m)

Materials of Construction

Body** Engineered reinforced plastic (nylon)
Internal Engineered thermoplastic
Magnet Alnico

** 1 1/2" meter may include plastic or lead free stainless steel couplings.

PLASTIC WATER METER		
SIZE	PULSES PER GALLON	ITEM NUMBER
3/4"	1 pulse/gallon	JLP0750-1PPG
3/4"	2 pulses/gallon	JLP0750-2PPG
3/4"	4 pulses/gallon	JLP0750-4PPG
3/4"	10 pulses/gallon	JLP0750-10PPG
1"	1 pulse/gallon	JLP1000-1PPG
1"	2 pulses/gallon	JLP1000-2PPG
1"	4 pulses/gallon	JLP1000-4PPG
1 1/2"	1 pulse/gallon	JLP1500-1PPG
1 1/2"	2 pulses/gallon	JLP1500-2PPG
1 1/2"	4 pulses/gallon	JLP1500-4PPG

WATER METER

Stainless Steel | Dry Contact

Stainless Steel Water Meter

Flow Rates

Continuous Flow[*] 80 gallons per minute

Flow Range 2-160 gallons per minute

Pulses per Gallon 1, 2, 4

* The size of the meter should be based upon continuous flow and gallons per minute as opposed to pipe size.

Specifications

Accuracy ±1.5% of maximum flow when operating between minimum and maximum flow range

Maximum Operating Pressure 150 psi (10.3 bar)

pH Level Range 6.5-8.0

Temperature Range 35-122°F (1.7-50°C)
Protect the meter from freezing

Maximum Current 20mA

Maximum Voltage 24VDC or 24VAC

Sensor Reed switch, dry contact type, normally open

Cable Length 6 ft (1.8 m)

Register US gallons

Materials of Construction

Body Stainless steel

Internal Engineered thermoplastic

Magnet Alnico

How It Works

The stainless steel water meter doesn't require power and utilizes a reed switch to provide a pulsing dry contact signal. The meter is certified by IAPMO to ANSI/NSF 372, low lead.

Purchase the meter and other components separately to create your own proportional feed installation.

Weights and Dimensions

Shipping Weight 12 lbs (5.4 kg)
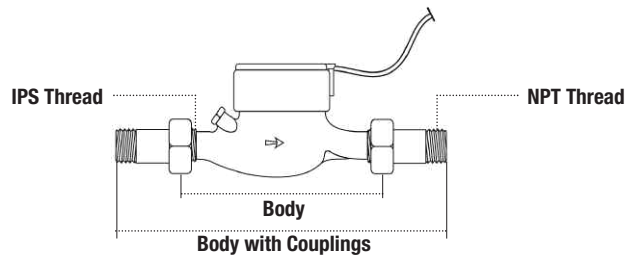
Box Dimensions 13 x 10 x 9 in. (33 x 25 x 23 cm)

Product Dimensions
Body: 11.9 in. (30.1 cm)
Body with Couplings: 17.5 in. (44.5 cm)
IPS Thread: 2.5 in. (6.4 cm)
NPT Thread: 2.0 in. (5.1 cm)

IPS Thread   NPT Thread

Body
Body with Couplings

STAINLESS STEEL WATER METER		
SIZE	PULSE PER GALLON	ITEM NUMBER
2"	1 pulse/gallon	SSMRS20-1PPG
2"	2 pulses/gallon	SSMRS20-2PPG
2"	4 pulses/gallon	SSMRS20-4PPG

NOTE: Two week lead time for non-stocked meters. Contact factory to confirm availability.

VPD Water Meter

How It Works

The vertical positive displacement, oscillating piston, water meter doesn't require power and utilizes a reed switch to provide a pulsing dry contact signal. Although designed for vertical installation, the meter can be installed horizontally or on an incline, provided the meter remains full of water. The meter has a built-in back flow preventer and is housed in an engineered plastic with corrosion resistant liquid-sealed register for easy reading.

Weights and Dimensions

Shipping Weight 1.8 lbs (0.8 kg)

Box Dimensions 13 x 10 x 9 in. (33 x 25 x 23 cm)

Product Dimensions
Body: 6.5 in. (16.51 cm)
Body with Couplings: 10.5 in. (26.67 cm)
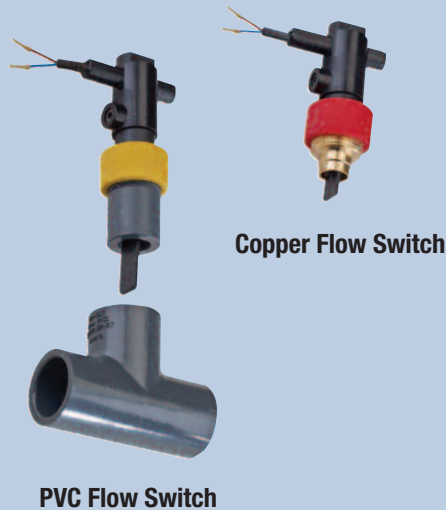IPS Thread: 1.0 in. (2.54 cm)
NPT Thread: 0.75 in. (1.9 cm)

Flow Rates

Continuous Flow[*] 16 gallons per minute

Flow Range 0.1-22 gallons per minute

[*] The size of the meter should be based upon continuous flow and gallons per minute as opposed to pipe size.

Specifications

Accuracy ±2% of maximum flow when operating between minimum and maximum flow range

Maximum Operating Pressure 150 psi (10.3 bar)

Temperature Range 35-122°F (1.7-50°C)
Protect the meter from freezing

Maximum Current 20mA

Maximum Voltage 24VDC or 24VAC

Sensor Reed switch, dry contact type, normally open

Cable Length 6 ft (1.8 m)

Register US gallons or liters

Materials of Construction

Body Engineered reinforced plastic (nylon)

Internal Engineered thermoplastic

VERTICAL POSITIVE DISPLACEMENT WATER METER		
SIZE	PULSE PER GALLON	ITEM NUMBER
3/4"	1 pulse/gallon	VPD0750-1PPG
3/4"	1 pulse/liter	VPD0750-1PPL

NOTE: Two week lead time for non-stocked meters. Contact factory to confirm availability.

FLOW SWITCH Two Wire | Dry Contact

Copper Flow Switch

PVC Flow Switch

How It Works

In residential or light commercial applications, water treatment professionals can use a metering pump activated by a flow switch for applications such as disinfection, oxidation or pH adjustment. Stenner offers a dry contact, two wire flow switch for a PVC tee or copper pipe. Both are a paddle style with glass fiber reinforced plastic construction. The design uses a magnetic force to reset the paddle to eliminate spring fatigue. Stenner's Econ FP or Econ Integrator™ pumps are designed to interface with a two wire flow switch that accepts a dry contact.

Features

The flow switch for PVC includes a glue-in adapter for easy mounting to a standard PVC slip fit tee. The flow switch for copper has an adapter for soldering to copper pipe. The nominal activation points are based on installation into a Spears 3/4" or 1" schedule 80 PVC tee or an industry standard, smooth 3/4" or 1" copper pipe. The activation points are 1.2 gallons per minute for 3/4" and 1.9 gallons per minute for the 1" flow switch. A wiring harness is included with the Econ FP and the Econ Integrator™ for an easy connection to the dry contact flow switch.

Specifications

Switching Function Contact closes at increasing flow, opens at decreasing flow
Pressure Rating Maximum 145 psi*
Medium Temperature Maximum +212°F* (+100°C)
Ambient Temperature Maximum +158°F* (+70°C)
Protection Class IP 65
Switching Current Maximum 1A
Switching Voltage Maximum 230VAC, 48VDC
Switching Capacity Maximum 26VA, 20W

Materials of Construction

Body/Paddle System PPO Noryl GFN3
Adapter
  PVC: Glue-in
  Copper: Brass, soldering
Gasket EPDM
Magnet Hard Ferrite
Cable PVC

Agency Listings
- cETLus Component Recognized
- UL 508
- UL 353
- CSA C22.2#14-05
- Water Regulations Advisory Scheme

* Values for flow switch, observe maximum values of PVC slip fit tee or maximum values of copper pipe.

FLOW SWITCH	
DESCRIPTION	ITEM NUMBER
3/4" for PVC pipe	EC500
1" for PVC pipe	EC501
3/4" for copper pipe	EC50C
1" for copper pipe	EC51C

PUMP TUBES

Refer to the **FLOW RATE OUTPUTS** chart to match the pump with the correct tube

Includes tube, ferrules 1/4" or *6 mm Europe*

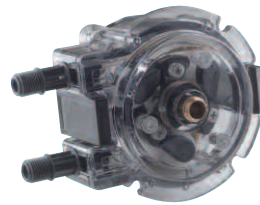| DESCRIPTION	UM	PART NUMBER	Insert tube # for ☐ *Europe 6 mm*	WORKS WITH item number prefix below
#1, 2, 3, 4, or 5 Santoprene® tube	2-PK	UCCP20☐	UCCP2☐CE	45, 85, 100, 170, S30, S34, S3F, S3V
	5-PK	MCCP20☐	MCCP2☐CE	
#1 or 2 Santoprene® tube & duckbill	2-PK	UCCP☐FD	UC☐FDCE	45, 85, 100, 170, S30, S34, S3F, S3V
#1, 2, 3, 4, or 5 Versilon® tube	2-PK	UCTYG0☐	UCTY☐CE	45, 85, 100, 170, S30, S34, S3F, S3V
	5-PK	MCTYG0☐	MCTY☐CE	
#1 or 2 Versilon® tube & Pellethane® Duckbill	2-PK	UCTY☐FD	UCTY☐DCE	45, 85, 100, 170, S30, S34, S3F, S3V
#5X Santoprene® tube	2-PK	S4005X-2		S44, S4F, S4V
	5-PK	S4005X-5		
#5G Santoprene® tube	2-PK	S5005G-2		S50
	5-PK	S5005G-5		
#6 Santoprene® tube	2-PK	UCCP206	UCCP26CE	S3P
	5-PK	MCCP206	MCCP26CE	
#6 Santoprene® tube & duckbill	2-PK	UCCP6FD	UC6FDCE	S3P
#7 Santoprene® tube	2-PK	UCCP207	UCCP27CE	45, 85, S30, S34, S3F, S3V
	5-PK	MCCP207	MCCP27CE	
#7 Santoprene® tube & duckbill	2-PK	UCCP7FD	UC7FDCE	45, 85, S30, S34, S3F, S3V
#7X Santoprene® tube	2-PK	S4007X-2		S44, S4F, S4V
	5-PK	S4007X-5		
#7G Santoprene® tube	2-PK	S5007G-2		S50
	5-PK	S5007G-5		
#8X Santoprene® tube	2-PK	S4008X-2		S4M
	5-PK	S4008X-5		

Refer to the **FLOW RATE OUTPUTS** chart to match the pump with the correct tube

Includes tube, ferrules 1/4" or *6 mm Europe* Econ Pump Line

DESCRIPTION	UM	PART NUMBER	Insert tube letter for ☐ *Europe 6 mm*	WORKS WITH item number prefix below
A, B or C Santoprene® tube	2-PK	EC30☐-2	EC30☐CE-2	E10FX, E20FX, E10VX, E20VX, E10T, E20T, E10T01,
	5-PK	EC30☐-5	EC30☐CE-5	E20T01, E20T_ _C3 & Econ white roller assembly
C3 FKM tube	2-PK	EC3C3-2	EC3C3CE-2	E20T_ _C3 & Econ black roller assembly
	5-PK	EC3C3-5	EC3C3CE-5	E10T01, E20T01 & Econ blue roller assembly
C4 silicone tube	2-PK	EC3C4-2	EC3C4CE-2	E10T01, E20T01
	5-PK	EC3C4-5	EC343CE-5	& Econ blue roller assembly
F Santoprene® tube	2-PK	EC30F-2	EC30FCE-2	E10P, E20P, E10R, E20R, E10L, E10T, E20T
	5-PK	EC30F-5	EC30FCE-5	& Econ white roller assembly
G Santoprene® tube	2-PK	EC30G-2	EC30GCE-2	E10P, E20P, E10R, E20R, E10L, E10T, E20T
	5-PK	EC30G-5	EC30GCE-5	& Econ black roller assembly
H Santoprene® tube	2-PK	EC30H-2	EC30HCE-2	E10P, E20P, E10R, E20R, E20M, E10L, E10T, E20T,
	5-PK	EC30H-5	EC30HCE-5	E10FX, E20FX, E10VX, E20VX & Econ black roller assembly
M Santoprene® tube	2-PK	EC30M-2	EC30MCE-2	E10P, E20P, E10R, E20R, E10L
	5-PK	EC30M-5	EC30MCE-5	& Econ white roller assembly

PUMP HEADS

The Innermost QuickPro® pump head is next to the motor or feed rate control in the Classic Series Double Head pump.

25 psi (1.7 bar) max.

DESCRIPTION	UM	PART NUMBER	Insert tube # for ☐ Europe 6 mm	WORKS WITH item number prefix below
Pump Head with #1, 2, 3, 4, or 5 Santoprene® tube, ferrules 1/4" or *6 mm Europe*	EA	QP25☐-1	QP17☐-1	45, 85, 100, 170
	2-PK	QP25☐-2	QP17☐-2	
Pump Head with #1, 2, 3, 4, or 5 Versilon® tube, ferrules 1/4" or *6 mm Europe*	EA	QP25T☐-1	QP17T☐-1	45, 85, 100, 170
Innermost QP Pump Head with #1, 2, 3, 4, or 5 Santoprene® tube, ferrules 1/4" or *6 mm Europe*	EA	QPA25☐-1	QPA17☐-1	100, 170
	2-PK	QPA25☐-2	QPA17☐-2	
S3QP Pump Head with #3, 4, or 5 Santoprene® tube, ferrules 1/4" or *6 mm Europe*	EA	S310☐-1	S315☐-1	S30, S34, S3F, S3V
	2-PK	S310☐-2	S315☐-2	
S3QP Pump Head with #3, 4, or 5 Versilon® tube, ferrules 1/4" or *6 mm Europe*	EA	S320☐-1	S325☐-1	S30, S34, S3F, S3V
S4QP Pump Head with #5X Santoprene® tube	EA	S4105X-1		S40, S44, S4F, S4V
	2-PK	S4105X-2		
S5 Pump Head with #5G Santoprene® tube	EA	S5105G-1		S50
	2-PK	S5105G-2		

60 psi max.

DESCRIPTION	UM	PART NUMBER	WORKS WITH item number prefix below
S4QP Pump Head with #8X Santoprene® tube	EA	S4108X-1	S4M
	2-PK	S4108X-2	

100 psi (6.9 bar) max.

DESCRIPTION	UM	PART NUMBER	Insert tube # for ☐ Europe 6 mm	WORKS WITH item number prefix below
QP Pump Head with #1 or 2 Santoprene® tube & duckbill, ferrules 1/4" or *6 mm Europe*	EA	QP10☐-1	QP69☐-1	45, 85, 100, 170
QP Pump Head with #7 Santoprene® tube & duckbill, ferrules 1/4" or *6 mm Europe*	EA	QP107-1	QP697-1	45, 85
QP Pump Head with #1 or 2 Versilon® tube & Pellathane® duckbill, ferrules 1/4" or *6 mm Europe*	EA	QP10T☐-1	QP69T☐-1	45, 85, 100, 170
Innermost QP Pump Head with #1 or 2 Santoprene® tube & duckbill, ferrules 1/4" or *6 mm Europe*	EA	QPA10☐-1	QPA69☐-1	100, 170
	2-PK	QPA10☐-2	QPA69☐-2	
S3QP Pump Head with #1 or 2 Santoprene® tube & duckbill, ferrules 1/4" or *6 mm Europe*	EA	S310☐-1	S315☐-1	S30, S34, S3F, S3V, S3P
	2-PK	S310☐-2	S315☐-2	
S3QP Pump Head with #6 Santoprene® tube & duckbill, ferrules 1/4" or *6 mm Europe*	EA	S3106-1	S3156-1	S3P
	2-PK	S3106-2	S3156-2	
S3QP Pump Head with #7 Santoprene® tube & duckbill, ferrules 1/4" or *6 mm Europe*	EA	S3107-1	S3157-1	S30, S34, S3F, S3V
	2-PK	S3107-2	S3157-2	
S4QP Pump Head with #7X Santoprene® tube	EA	S4107X-1		S40, S44, S4F, S4V
	2-PK	S4107X-2		
S5 Pump Head with #7G Santoprene® tube	EA	S5107G-1		S50
	2-PK	S5107G-2		

PUMP HEAD PARTS

Latches

Tube Housing with Latches   Roller Assembly   Pump Tube   Tube Housing Cover

INNERMOST PUMP HEAD PARTS Classic Series Double Head Pumps

DESCRIPTION	UM	PART NUMBER	WORKS WITH item number prefix below
Innermost QP Tube Housing Cover	EA	QP10A-1	100, 170
	2-PK	QP10A-2	
Innermost QP Roller Assembly	EA	QP50A-1	100, 170

PUMP HEAD PARTS

DESCRIPTION	UM	PART NUMBER	WORKS WITH item number prefix below
QP Tube Housing with plastic latches	EA	QP400-1	45, 85, 100, 170
	2-PK	QP400-2	
S3QP Tube Housing with plastic latches	EA	S3400-1	S30, S3F, S3V, S34, S3P
	2-PK	S3400-2	
Latches, plastic	2-PK	QP401-2	45, 85, 100, 170, S30, S3V, S34, S3P
S4QP Tube Housing with metal latches	EA	S4400-1	S40, S4F, S4V, S44, S4M
	2-PK	S4400-2	
S5 Tube Housing	EA	S5400-1	S50
	2-PK	S5400-2	
QP Roller Assembly	EA	QP500-1	45, 85, 100, 170
	4-PK	QP500-4	
S3QP Roller Assembly	EA	S3500-1	S30, S3F, S3V, S34, S3P
	4-PK	S3500-4	
S4QP Roller Assembly	EA	S4500-1	S40, S4F, S4V, S44, S4M
	4-PK	S4500-4	
S5 Roller Assembly	EA	S5500-1	S50
	4-PK	S5500-2	
QP Tube Housing Cover with bushing	EA	QP100-1	45, 85, 100, 170
	4-PK	QP100-4	
S3QP Tube Housing Cover with bushing	EA	S3600-1	S30, S3F, S3V, S34, S3P
	4-PK	S3600-4	
S4QP Tube Housing Cover with bushing	EA	S4600-1	S40, S4F, S4V, S44, S4M
	4-PK	S4600-4	
S5 Tube Housing Cover	EA	S5600-1	S50
	4-PK	S5600-2	
S5 Pump Head Support	EA	S5003-1	S50
S5 Transition Sleeve	EA	S5002-1	S50
S5 Thumbscrews	4-PK	S5001-4	S50
S5 Tube Pull	EA	S6063-1	S50

PUMP HEAD PARTS Econ Pump Line

DESCRIPTION	UM	PART NUMBER	WORKS WITH item number prefix below
Roller Assembly, white	EA	EC350	E10P, E20P, E10R, E20R, E10L & Tube F, M; E10T, E20T & Tube A, B, C, F; E10VX & Tube A, B, C
Roller Assembly, black	EA	EC351	E10P, E20P, E10R, E20R, E10T, E20T, E10L & Tube G, H; E10VX, E20VX, E20M & Tube H; E20T_ _C3 & Tube C3
Roller Assembly, blue	EA	EC352	E10T01, E20T01 & Tube C3, C4
Pump Head Cover	EA	EC355	All Econ Pumps

PUMP HEAD SERVICE KITS

Pump Tube

Roller Assembly   Connecting Nuts   Duckbill   Ferrules   Latches
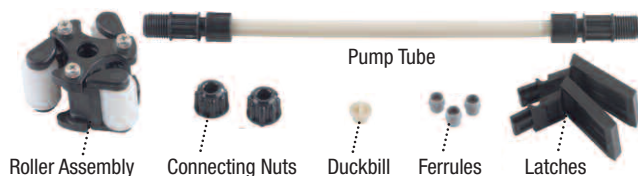
Refer to the **FLOW RATE OUTPUTS** chart to match the pump with the correct tube

25 psi (1.7 bar) max. Includes roller assembly, tube, latches, nuts, ferrules 1/4" or *6 mm Europe*

DESCRIPTION	UM	PART NUMBER	Insert tube # for ☐ *Europe 6 mm*	WORKS WITH item number prefix below
QP Pump Head Service Kit with #1, 2, 3, 4, or 5 Santoprene® tube	KIT	QP25☐K	QP17☐K	45, 85, 100, 170
QP Pump Head Service Kit with #1, 2, 3, 4, or 5 Versilon® tube	KIT	QP25T☐K	QP17T☐K	45, 85, 100, 170
S3QP Pump Head Service Kit with #3, 4, or 5 Santoprene® tube	KIT	S310☐K	S311☐K	S30, S34, S3F, S3V
S3QP Pump Head Service Kit with #3, 4, or 5 Versilon® tube	KIT	S320☐K	S321☐K	S30, S34, S3F, S3V
S4QP Pump Head Service Kit with #5X Santoprene® tube and 3/8" adapters	KIT	S4105XK		S40, S44, S4F, S4V
S5 Pump Head Service Kit with #5G Santoprene® tube and 3/8" adapters	KIT	S5105GK		S50

60 psi (4.1 bar) max. Includes roller assembly, tube, nuts 3/8"

DESCRIPTION	UM	PART NUMBER	WORKS WITH item number prefix below
S4QP Pump Head with #8X Santoprene® tube and 3/8" adapters	KIT	S4108XK	S4M

100 psi (6.9 bar) max. Includes roller assembly, tube, latches, nuts, ferrules 1/4" or *6 mm Europe*

DESCRIPTION	UM	PART NUMBER	Insert tube # for ☐ *Europe 6 mm*	WORKS WITH item number prefix below
QP Pump Head Service Kit with #1 or 2 Santoprene® tube & duckbill	KIT	QP10☐K	QP69☐K	45, 85, 100, 170
QP Pump Head Service Kit with #1 or 2 Versilon® tube & Pellathane® duckbill	KIT	QP10T☐K	QP69T☐K	45, 85, 100, 170
QP Pump Head Service Kit with #7 Santoprene® tube & duckbill	KIT	QP107K	QP697K	45, 85
S3QP Pump Head Service Kit with #1 or 2 Santoprene® tube & duckbill	KIT	S310☐K	S311☐K	S30, S34, S3F, S3V, S3P
S3QP Pump Head Service Kit with #1 or 2 Versilon® tube & Pellathane® duckbill	KIT	S320☐K	S321☐K	S30, S34, S3F, S3V
S3QP Pump Head Service Kit with #6 Santoprene® tube & duckbill	KIT	S3106K	S3116K	S3P
S3QP Pump Head Service Kit with #7 Santoprene® tube & duckbill	KIT	S3107K	S3117K	S30, S34, S3F, S3V
S4QP Pump Head Service Kit with #7X Santoprene® tube and 3/8" adapters	KIT	S4107XK		S40, S44, S4F, S4V
S5 Pump Head Service Kit with #7G Santoprene® tube and 3/8" adapters	KIT	S5107GK		S50

NOTE: Confirm material compatibility with the chemical resistance guide in this catalog.

INJECTION FITTINGS and CHECK VALVES

1/4" Injection Fitting with Nut & Ferrule

1/4" Duckbill Check Valve

3/8" Ball Check Valve

INJECTION FITTINGS 25 psi (1.7 bar) max.

DESCRIPTION	UM	PART NUMBER	Europe 6 mm	WORKS WITH item number prefix below
1/4" Injection Fitting with nut & ferrule	EA	UCAK300		All Pumps EXCLUDING S40, S4V, S44, S4M, S50
	5-PK	MCAK300		
3/8" Injection Fitting with nut	EA	UCAK400		All Pumps EXCLUDING S40, S4V, S44, S4M, S50
6 mm Injection Fitting with nut & ferrule	EA		UCAK3CE	All Pumps EXCLUDING S40, S4V, S44, S4M, S50

DUCKBILL CHECK VALVE & PARTS 100 psi (6.9 bar) max.

DESCRIPTION	UM	PART NUMBER	Europe 6 mm	WORKS WITH item number prefix or part below
1/4" Santoprene® Duckbill Check Valve with nut & ferrule	EA	UCDBINJ		All Pumps EXCLUDING S40, S4V, S44, S4M, S50
	5-PK	MCDBINJ		
1/4" Pellethane® Duckbill Check Valve with nut & ferrule	EA	UCTYINJ		All Pumps EXCLUDING S40, S4V, S44, S4M, S50
	5-PK	MCTYINJ		
1/4" FKM Duckbill Check Valve with nut & ferrule	EA	UCKMINJ		All Pumps EXCLUDING S40, S4V, S44, S4M, S50
	5-PK	MCKMINJ		
3/8" Santoprene® Duckbill Check Valve with nut	EA	UCINJ38		All Pumps EXCLUDING S40, S4V, S44, S4M, S50
	5-PK	MCINJ38		
3/8" Pellethane® Duckbill Check Valve with nut	EA	UCTYIJ38		All Pumps EXCLUDING S40, S4V, S44, S4M, S50
	5-PK	MCTYIJ38		
3/8" FKM Duckbill Check Valve with nut	EA	UCKMI38		All Pumps EXCLUDING S40, S4V, S44, S4M, S50
	5-PK	MCKMI38		
6 mm Santoprene® Duckbill Check Valve with nut & ferrule	EA		UCINJCE	All Pumps EXCLUDING S40, S4V, S44, S4M, S50
	5-PK		MCINJCE	
6 mm Pellethane® Duckbill Check Valve with nut & ferrule	EA		UCTINJCE	All Pumps EXCLUDING S40, S4V, S44, S4M, S50
	5-PK		MCTINJCE	
6 mm FKM Duckbill Check Valve with nut & ferrule	EA		UCKMJCE	All Pumps EXCLUDING S40, S4V, S44, S4M, S50
	5-PK		MCKMJCE	
Santoprene® Duckbill	2-PK	UCCVDB0		Duckbill Check Valve
	5-PK	MCCVDB0		
Santoprene® O-Ring	EA	CVIJOR		Duckbill Check Valve or Ball Check Valve
Pellethane® Duckbill	2-PK	UCTYDB2		Duckbill Check Valve
	5-PK	MCTYDB5		
Pellethane® O-Ring	EA	TVIJOR		Duckbill Check Valve
FKM Duckbill & O-Ring	2-PK	UCKMDB0		Duckbill Check Valve
	5-PK	MCKMDB0		

100 psi (6.9 bar) max. BALL CHECK VALVE & PARTS

DESCRIPTION	UM	PART NUMBER	WORKS WITH item number prefix or part below
1/4" Ball Check Valve with tantalum spring, ceramic ball, FKM seat & o-ring, nut & ferrule	EA	BC014-1	All Pumps EXCLUDING S40, S4V, S44, S4M, S50
1/4" Ball Check Valve with stainless steel spring, ceramic ball, EPDM seat, Santoprene® o-ring, nut & ferrule	EA	BC214-1	All Pumps EXCLUDING S40, S4V, S44, S4M, S50
3/8" Ball Check Valve with tantalum spring, ceramic ball, FKM seat & O-ring, nut	EA	BC038-1	All Pumps
3/8" Ball Check Valve with stainless steel spring, ceramic ball, EPDM seat, Santoprene® o-ring, nut	EA	BC238-1	All Pumps
Tantalum spring, ceramic ball, FKM seat & o-ring	2-PK	BC100-2	Ball Check Valve
Stainless steel spring, EPDM seat, Santoprene® o-ring, ceramic ball	2-PK	BC102-2	Ball Check Valve

MISCELLANEOUS PARTS

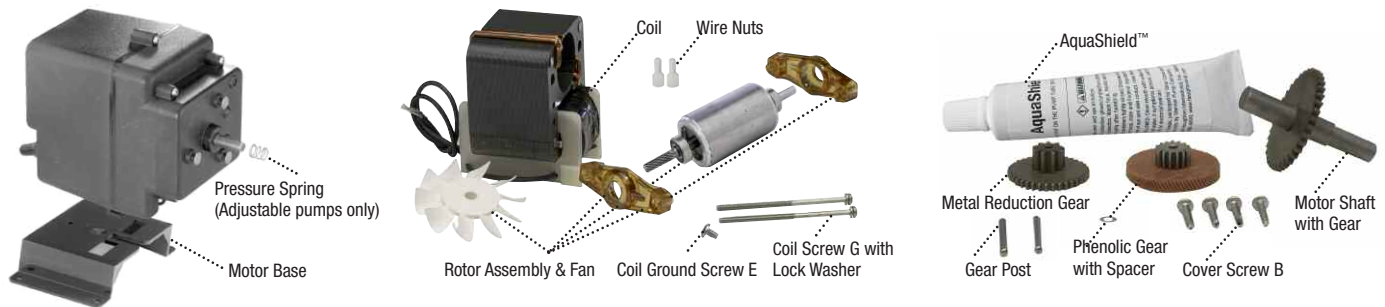Connecting Nut 1/4"   Connecting Nut 3/8" with Adapter   Ferrule 1/4"   Weighted Suction Line Strainer   Flow Indicator

MISCELLANEOUS PARTS

DESCRIPTION	UM	PART NUMBER	Europe 6 mm	WORKS WITH item number prefix below
1/4" or *6 mm* Connecting Nuts	10-PK	UCAK100		All Pumps EXCLUDING S40, S4F, S4V, S44, S4M, S50
	24-PK	MCAK100		
3/8" Connecting Nuts	EA	MANUT00		All Pumps
3/8" Connecting Nuts with adapter	2-PK	UCADPTR		All Pumps EXCLUDING S40, S4F, S4V, S44, S4M, S50
	5-PK	MCADPTR		
1/4" or *6 mm* Ferrules	10-PK	UCAK200	UCAK2CE	All Pumps EXCLUDING S40, S4F, S4V, S44, S4M, S50
	24-PK	MCAK200	MCAK2CE	
1/4" or *6 mm* Weighted Suction Line Strainer	EA	ST114	ST114	All Pumps EXCLUDING S40, S4F, S4V, S44, S4M, S50
AquaShield™ 5.5 oz tube	EA	MAGRE55		All Pumps
1/4" Flow Indicator with bracket	EA	AK600		All Pumps EXCLUDING S40, S4F, S4V, S44, S4M, S50
3/8" Flow Indicator with bracket	EA	AK700		All Pumps
6 mm Flow Indicator with bracket	EA		AK800	All Pumps EXCLUDING S40, S4F, S4V, S44, S4M, S50
Flow Indicator Bracket	EA	AK900		Flow Indicator
Filter Assembly	EA	P2000		Proportional Injection System
1/4" UV black 20' Suction/Discharge Tubing	EA	AK4002B		All Pumps EXCLUDING S40, S4F, S4V, S44, S4M, S50
1/4" UV black 100' Suction/Discharge Tubing	EA	AK4010B		All Pumps EXCLUDING S40, S4F, S4V, S44, S4M, S50
1/4" UV black 1000' Suction/Discharge Tubing	EA	AK4100B		All Pumps EXCLUDING S40, S4F, S4V, S44, S4M, S50
1/4" white 20' Suction/Discharge Tubing	EA	AK4002W		All Pumps EXCLUDING S40, S4F, S4V, S44, S4M, S50
1/4" white 100' Suction/Discharge Tubing	EA	AK4010W		All Pumps EXCLUDING S40, S4F, S4V, S44, S4M, S50
1/4" white 1000' Suction/Discharge Tubing	EA	AK4100W		All Pumps EXCLUDING S40, S4F, S4V, S44, S4M, S50
6 mm white 20' Suction/Discharge Tubing	EA		AK20W6M	All Pumps EXCLUDING S40, S4F, S4V, S44, S4M, S50
3/8" UV black 20' Suction/Discharge Tubing	EA	MALT02B		All Pumps
3/8" UV black 100' Suction/Discharge Tubing	EA	MALT10B		All Pumps
3/8" UV black 1000' Suction/Discharge Tubing	EA	MALTB10		All Pumps
3/8" white 20' Suction/Discharge Tubing	EA	MALT002		All Pumps
3/8" white 100' Suction/Discharge Tubing	EA	MALT010		All Pumps
3/8" white 1000' Suction/Discharge Tubing	EA	MALT100		All Pumps
3/4" Plastic Couplings with gaskets	2-PK	JLP38009P		Works with 3/4" Plastic Water Meter
1" Plastic Couplings with gaskets	2-PK	JLP38012P		Works with 1" Plastic Water Meter
1/8" Rubber Gaskets	2-PK	JLP38007R		Works with 3/4" Plastic Water Meter
1/8" Rubber Gaskets	2-PK	JLP38012R		Works with 1" Plastic Water Meter
Single Reed Switch with screw	EA	JLP32RS		Works with 1PPG, 4PPG, 10PPG Plastic or Stainless Steel Water Meter
Dual Reed Switch with screw	EA	JLP34RS		Works with 2PPG Plastic or Stainless Steel Water Meter

MOTORS

Pressure Spring
(Adjustable pumps only)

Motor Base

Coil   Wire Nuts

Rotor Assembly & Fan   Coil Ground Screw E   Coil Screw G with
Lock Washer

AquaShield™

Metal Reduction Gear

Gear Post   Phenolic Gear
with Spacer   Cover Screw B

Motor Shaft
with Gear

MOTORS 60Hz

DESCRIPTION	UM	PART NUMBER	WORKS WITH item number prefix below
Motor 120V 60Hz	EA	PM6041D	45MJ, 100J
Motor 220V 60Hz	EA	PM6042D	45MJ, 100J
Motor 120V 60Hz	EA	PM6081D	85MJ, 170J
Motor 220V 60Hz	EA	PM6082D	85MJ, 170J
Motor 120V 60Hz	EA	ME6041D	45MF
Motor 220V 60Hz	EA	ME6042D	45MF
Motor 120V 60Hz	EA	ME6081D	85MF
Motor 220V 60Hz	EA	ME6082D	85MF
Motor 120V 60Hz	EA	DM6041D	100F
Motor 220V 60Hz	EA	DM6042D	100F
Motor 120V 60Hz	EA	DM6081D	170F
Motor 220V 60Hz	EA	DM6082D	170F

MOTORS 50Hz INTERNATIONAL

DESCRIPTION	UM	PART NUMBER	WORKS WITH item number prefix below
Motor 230V 50Hz	EA	PM64230	45MJ, 100J
Motor 250V 50Hz	EA	PM6426D	45MJ, 100J
Motor 230V 50Hz	EA	PM68230	85MJ, 170J
Motor 250V 50Hz	EA	PM6826D	85MJ, 170J
Motor 230V 50Hz	EA	ME64230	45MF
Motor 250V 50Hz	EA	ME6426D	45MF
Motor 230V 50Hz	EA	ME68230	85MF
Motor 250V 50Hz	EA	ME6826D	85MF
Motor 230V 50Hz	EA	DM64230	100F
Motor 250V 50Hz	EA	DM64250	100F
Motor 230V 50Hz	EA	DM68230	170F
Motor 250V 50Hz	EA	DM68250	170F

MOTOR SERVICE KITS

DESCRIPTION	UM	PART NUMBER	WORKS WITH item number prefix below
Motor Service Kit 120V 60Hz	KIT	MSK120	45, 85, 100, 170
Motor Service Kit 220V 60Hz	KIT	MSK220	45, 85, 100, 170

GEAR CASE SERVICE KITS

DESCRIPTION	UM	PART NUMBER	WORKS WITH item number prefix below
Gear Case Service Kit	KIT	GSK45A	45MJ, 100J
Gear Case Service Kit	KIT	GSK85A	85MJ, 170J
Gear Case Service Kit	KIT	GSK45F	45MF
Gear Case Service Kit	KIT	GSK85F	85MF

MOTORS
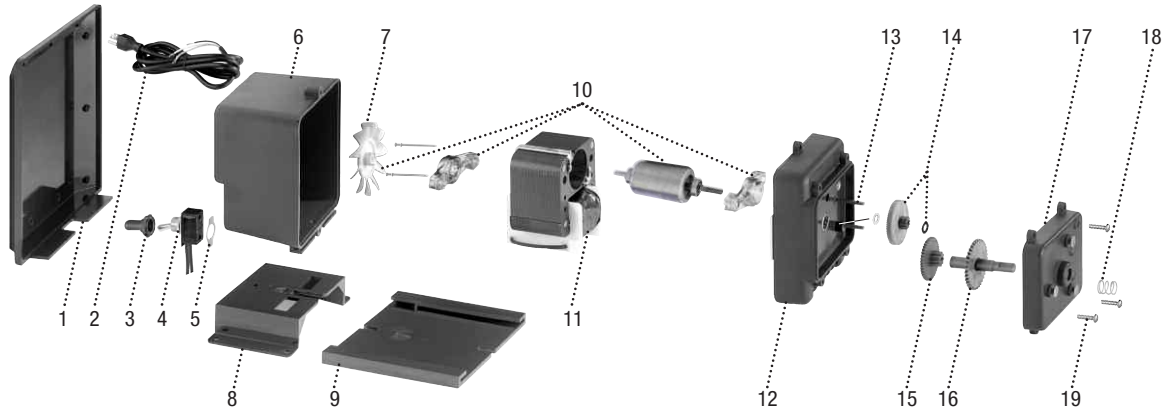
MOTOR PARTS Classic Series

	DESCRIPTION	UM	PART NUMBER	WORKS WITH item number prefix below
1	Rain Roof	EA	MP90000	45, 85, 100, 170
Not shown	Pump Cover	EA	MP90001	45MJ, 85MJ
Not shown	Pump Cover & Rain Roof	EA	MP90002	45MJ, 85MJ
2	Power Cord 120V	EA	MP6B010	45, 85, 100, 170
	Power Cord 220V	EA	MP6B020	45, 85, 100, 170
3	Switch Boot	EA	MP6C000	45, 85, 100, 170
4	Toggle Switch	EA	PM6E000	45, 85, 100, 170
5	On/Off Switch Plate	EA	MP6D000	45, 85, 100, 170
6	Motor Cover with 120V Cord	EA	PM6A0BL	45, 85, 100, 170
	Motor Cover with 220V Cord	EA	PM6A00L	45, 85, 100, 170
7	Motor Fan	EA	PM6F000	45, 85, 100, 170
8	Motor Base	EA	MP70000	45, 85, 100, 170
9	Mounting Bracket	EA	MP80000	45, 85, 100, 170
10	Rotor Assembly with bearings, brackets, tolerance rings & fan	EA	PMBRPL2	45, 85, 100, 170
11	Coil 120V 60Hz	EA	MP6J115	45, 85, 100, 170
	Coil 220V 60Hz	EA	MP6J226	45, 85, 100, 170
	Coil 230V 50Hz *INTERNATIONAL*	EA	MP6J223	45, 85, 100, 170
	Coil 250V 50Hz *INTERNATIONAL*	EA	MP6J222	45, 85, 100, 170
12	Gear Case with posts	EA	PM6K0BL	45, 85, 100, 170
13	Gear Post	EA	PM6M000	45, 85, 100, 170
14	Phenolic Gear with spacer 26 rpm	EA	MP6N040	45, 100
	Phenolic Gear with spacer 44 rpm	EA	MP6N080	85, 170
15	Metal Reduction Gear 26 rpm	EA	MP6O040	45, 100
	Metal Reduction Gear 44 rpm	EA	MP6O080	85, 170
16	Motor Shaft & Gear	EA	MP6Q00D	45MJ, 85MJ, 100J, 170J
	Motor Shaft & Gear	EA	ME6Q0LD	45MF, 85MF
	Motor Shaft & Gear	EA	DM6Q0LD	100F, 170F
17	Gear Case Cover	EA	PM6R0BL	45, 85, 100, 170
18	Pressure Spring	EA	MP6T000	45MJ, 85MJ, 100J, 170J
19	Cover Screw B	10-PK	UCCPS0B	All Pumps
		24-PK	MCCPS0B	

Drive shown for reference, not sold separately

1

2

3

4

Mounting Kit

Stand
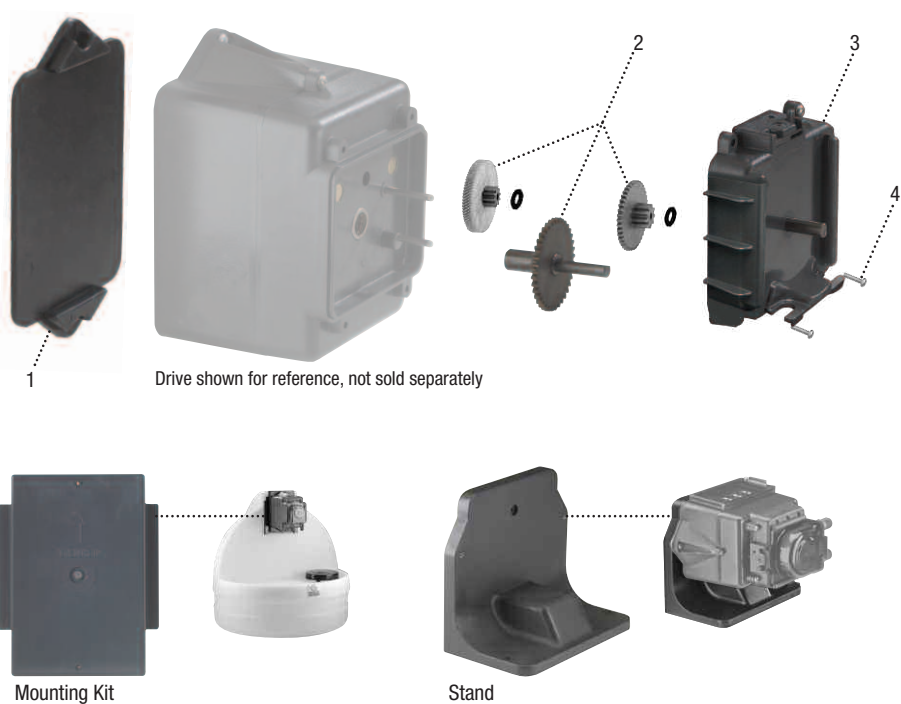
MOTOR PARTS MOTOR PARTS and MOUNTING ACCESSORIES Econ Pump Line

	DESCRIPTION	UM	PART NUMBER	WORKS WITH item number prefix below
1	Drive Assembly Pad	EA	EC302	E10P, E20P, E10R, E20R,E10L E20M, E10H, E10FX, E20FX, E10VX, E20VX, E10T, E20T, E20T_ _C3
2	Gear Kit with spacers, screws & AquaShield™	EA	EC310	E10P, E10R, E10L, E10H ,E10FX, E10VX, E10T, E10T01
		EA	EC320	E20P, E20R, E20M, E20FX, E20VX, E20T01
3	Gear Case Front Cover with pump head cover	EA	EC330	All Econ Pumps
4	Cover Screw B	10-PK	UCCPS0B	All Pumps
	Mounting Kit for wall mount or Stenner tank	KIT	EC303	E10P, E20P, E10R, E20R,E10L E20M, E10H, E10FX, E20FX, E10VX, E20VX, E10T, E20T, E20T_ _C3
	Pump Stand for wall mount or table display	KIT	EC304	E10P, E20P, E10R, E20R,E10L E20M, E10H, E10FX, E20FX, E10VX, E20VX, E10T, E20T, E20T_ _C3

FEED RATE CONTROL

Variable Cam

AquaShield™

Index Plate   Lifter   Screw A

11
9
13

1 2 3 4 5 6 7 8 10 12 14 15 16
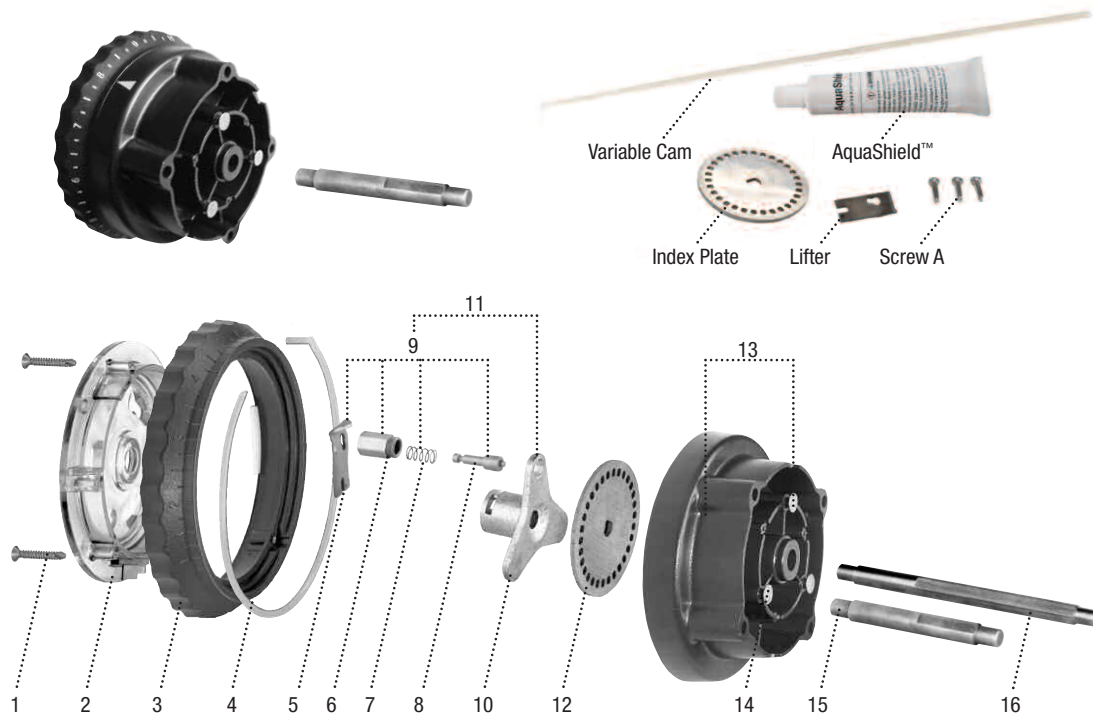
FEED RATE CONTROL WITH SHAFT Classic Series Adjustable Pumps

DESCRIPTION	UM	PART NUMBER	WORKS WITH item number prefix below
Feed Rate Control with shaft	EA	FC5040D	45MJ, 85MJ
Feed Rate Control with shaft	EA	DM5040D	100J, 170J

FEED RATE CONTROL SERVICE KIT AND PARTS Classic Series Adjustable Pumps

	DESCRIPTION	UM	PART NUMBER	WORKS WITH item number prefix below
	Feed Rate Control Service Kit	KIT	FSK100	45MJ, 85MJ, 100J, 170J
1	FRC Screw A	EA	FCS000A	45MJ, 85MJ, 100J, 170J
2	Feed Rate Mounting Plate	EA	FC5N000	45MJ, 85MJ, 100J, 170J
3	Dial Ring	EA	FC5M040	45MJ, 85MJ, 100J, 170J
4	Variable Cam	2-PK	UCFC5H0	45MJ, 85MJ, 100J, 170J
		5-PK	MCFC5H0	
5	Index Pin Lifter	2-PK	UCFC5L1	45MJ, 85MJ, 100J, 170J
		5-PK	MCFC5L1	
6	Index Pin Holder	EA	FC5L003	45MJ, 85MJ, 100J, 170J
7	Index Pin Spring	EA	FC5L005	45MJ, 85MJ, 100J, 170J
8	Index Pin	EA	FC5L002	45MJ, 85MJ, 100J, 170J
9	Index Pin Assembly includes lifter, holder, spring & pin	EA	UCFC5AY	45MJ, 85MJ, 100J, 170J
		5-PK	MCFC5AY	
10	Index Spider	EA	FC5K00D	45MJ, 85MJ, 100J, 170J
11	Index Spider Assembly includes lifter, holder, spring, pin & spider	EA	FC5LASY	45MJ, 85MJ, 100J, 170J
12	Index Plate	EA	UCFC5ID	45MJ, 85MJ, 100J, 170J
		2-PK	MCFC5ID	
13	Feed Rate Housing with Roller Clutch, Seal & Rivets	EA	FC5D00S	45MJ, 85MJ, 100J, 170J
14	Mounting Rivet C	EA	FCS000C	45MJ, 85MJ, 100J, 170J
15	Main Shaft	EA	UCFC5AD	45MJ, 85MJ
		2-PK	MCFC5AD	
16	Main Shaft	EA	DM5A00D	100J, 170J

CHEMICAL RESISTANCE GUIDE

Ratings Key – Chemical Effect
- **A** Fluid has minor or no effects
- **B** Fluid has minor to moderate effects
- **C** Fluid has severe effects
- **•** No data available

⚠ **⚠ CAUTION** The information is provided ONLY as a guide to assist in determining chemical compatibility for wetted components. Testing under the specific conditions of the application is recommended. Stenner Pump Company assumes no responsibility for its accuracy. Outside factors including but not limited to temperature, pressure, mechanical stress, and solution concentration can affect material compatibility in a particular application. Stenner makes no warranty, expressed or implied, as to the accuracy of this guide or any materials' suitability for fitness or purpose for any application. User assumes all risk and liability for use of this guide.

Chemical / Solution	PP Santoprene EPDM	Versilon®	PVC	LDPE	FKM	Silicone	Tantalum	Stainless Steel
Acetic Acid 20%	A	B	B	A	B	A	A	A
Acetic Acid 30%	B	C	C	A	B	A	A	B
Acetic Acid, Glacial	C	C	C	C	C	•	A	A
Acetic Anhydride	B	C	C	C	C	C	•	A
Aliphatic Hydrocarbons	B	B	B	B	•	•	•	•
Aluminum Chloride	A	A	A	B	A	B	A	B
Aluminum Sulfate	A	A	A	A	A	A	A	B
Alums	A	A	A	A	A	A	•	A
Ammonium Acetate	B	B	A	A	A	•	•	A
Ammonium Carbonate	A	A	A	A	A	C	•	B
Ammonium Chloride	A	B	A	B	A	C	A	B
Ammonium Hydroxide	A	B	A	A	B	A	B	A
Ammonium Nitrate	A	A	A	A	B	C	A	A
Ammonium Phosphate	A	A	A	A	A	A	•	C
Ammonium Sulfate	A	A	A	A	B	A	A	B
Amyl Acetate	A	C	C	C	C	C	•	A
Aniline	B	C	C	C	C	C	A	B
Antimony Salts	A	A	A	B	•	•	•	•
Arsenic Salts	A	A	A	B	•	•	•	•
Barium Hydroxide	A	A	A	B	A	•	B	B
Barium Salts	A	•	A	B	•	A	•	•
Beer	A	A	A	A	A	•	A	A
Benzene	C	C	C	C	B	•	•	B
Benzoic Acid	A	C	A	A	A	•	A	B
Bleach 5.25%	A	A	A	A	A	•	•	•
Boric Acid	A	A	A	A	A	A	A	A
Bromine	A	B	B	B	A	C	A	C
Butyl Acetate	A	C	C	C	C	C	•	A
Butyric Acid	A	C	B	C	B	C	A	B
Calcium Chloride	A	A	B	A	A	•	A	B
Calcium Hydroxide	A	C	A	A	A	•	B	B
Calcium Hypochlorite 5%	A	B	A	A	A	•	A	B
Calcium Salts	A	A	A	A	•	B	•	•
Carbon Disulfide	C	C	C	C	A	•	•	B
Carbon Tetrachloride	C	C	C	C	A	C	•	B
Castor Oil	B	A	A	•	A	•	•	A
Chlorine	see Sodium Hypochlorite							

Chemical / Solution	PP Santoprene EPDM	Versilon®	PVC	LDPE	FKM	Silicone	Tantalum	Stainless Steel
Chloroacetic Acid	A	C	B	C	C	•	•	A
Chloroform	C	C	C	C	A	C	•	A
Chlorosulfonic Acid	B	C	C	C	C	C	•	B
Chromic Acid < 50%	B	C	B	A	A	C	A	B
Chromium Salts	A	•	A	B	•	•	•	•
Citric Acid	B	B	B	C	A	•	A	A
Copper Chloride	A	A	A	A	A	•	A	C
Copper Sulfate	A	A	A	A	A	•	A	B
Cottonseed Oil	B	A	B	A	A	•	•	A
d-Limonene	C	B	B	B	A	C	•	•
Ethyl Acetate	A	C	C	C	C	B	•	B
Ethyl Alcohol	B	C	C	B	B	•	A	•
Ethyl Chloride	C	C	C	C	A	C	•	A
Ethylene Dichloride	C	C	C	C	A	C	•	B
Ethylene Glycol	A	A	A	A	A	A	•	B
Ethylene Oxide	B	A	C	C	C	C	•	B
Eucalyptus Oil	C	B	C	C	•	•	•	•
Fatty Acids	C	B	A	A	A	C	•	A
Ferric Chloride	A	A	A	A	A	B	A	C
Ferric Sulfate	A	A	A	A	A	B	•	B
Ferrous Chloride	A	A	A	A	A	C	•	C
Ferrous Sulfate	A	A	A	A	A	C	•	B
Fluoboric Acid	A	C	A	C	B	A	•	•
Fluosilicic Acid	A	A	A	A	A	C	•	B
Formaldehyde < 40%	A	B	A	C	C	B	•	A
Formic Acid	A	C	B	C	C	C	A	A
Glucose	A	A	A	A	A	A	•	A
Glycerin	A	A	A	A	A	A	•	A
Hydrochloric Acid 20%	A	C	A	A	A	C	A	C
Hydrochloric Acid 37%	A	C	A	A	A	C	A	C
Hydrocyanic Acid	A	B	A	A	A	C	A	A
Hydrofluoric Acid < 48%	A	C	B	A	A	C	C	C
Hydrofluoric Acid 48-75%	A	C	C	C	A	C	C	C
Hydrofluoric Acid, anhydrous	B	C	C	C	C	•	C	C
Hydrogen Peroxide < 50%	A	B	A	B	A	A	A	A
Hydrogen Sulfide	A	A	B	A	C	•	•	A
Iodine	A	A	C	B	A	C	A	C

Chemical / Solution	PP Santoprene® EPDM	Versilon®	PVC	LDPE	FKM	Silicone	Tantalum	Stainless Steel
Lactic Acid	A	B	B	A	A	A	A	B
Lead Acetate	B	A	A	A	C	C	•	B
Linseed Oil	B	A	A	A	A	A	•	A
Limonene	C	B	B	B	A	C	•	•
Lubricating Oils	C	A	B	C	A	•	•	A
Magnesium Chloride	A	A	B	A	A	A	A	C
Magnesium Hydroxide	A	A	A	A	A	•	A	A
Magnesium Sulfate	A	A	A	A	A	A	A	B
Malic Acid	A	B	A	A	A	B	•	A
Manganese Salts	A	A	A	A	•	B	•	•
Mercuric Chloride	A	A	A	A	A	•	•	C
Methylene Chloride	C	C	C	C	B	•	A	B
Mineral Oil	B	A	B	B	A	•	•	•
Mineral Spirits	C	A	B	B	A	•	•	A
Muriatic Acid, 20° Baume	A	C	A	A	A	•	•	•
Nitric Acid < 10%	A	C	A	B	A	B	A	A
Nitric Acid 10-30%	B	C	A	C	A	C	A	A
Nitric Acid 30-60%	C	C	B	C	A	C	A	A
Nitric Acid 70%	C	C	B	C	A	C	A	A
Nitric Acid, red fuming	C	C	C	C	C	C	•	•
Nitrous Acid	A	B	•	•	B	•	•	B
Oleic Acid	A	B	C	C	B	C	•	A
Oleum 20-25%	C	C	C	C	•	•	•	B
Oxalic Acid	A	C	B	A	A	C	A	A
Palmitic Acid	A	B	B	A	A	C	•	A
Petroleum Distillates	C	B	B	C	•	•	A	A
Peracetic Acid 5%	B	B	B	A	A	A	•	•
Peracetic Acid 15%	B	B	B	A	A	B	•	•
Phenol	B	C	C	B	A	C	•	B
Phosphoric Acid	A	C	A	A	A	C	A	C
Phthalic Acid	A	C	A	A	A	B	•	A
Pickling Solutions	A	C	•	•	B	•	•	•
Plating Solutions	A	C	•	•	A	C	•	•
Polyphosphate	A	A	A	A	•	•	•	•
Potassium Carbonate	A	A	A	A	A	•	•	B
Potassium Chlorate	A	A	A	A	A	B	•	B
Potassium Hydroxide	A	A	A	A	C	C	B	A
Potassium Dichromate	A	A	A	A	A	•	•	B
Potassium Iodide	A	A	B	B	A	•	•	A
Potassium Permanganate	A	A	A	A	A	•	•	B
Sea Water	A	A	A	A	A	•	A	C

Chemical / Solution	PP Santoprene® EPDM	Versilon®	PVC	LDPE	FKM	Silicone	Tantalum	Stainless Steel
Silicone Oil	C	A	A	B	A	C	•	A
Silver Nitrate	A	A	A	A	A	A	•	B
Soap Solutions	A	A	A	C	A	A	•	A
Sodium	A	A	A	A	•	•	•	•
Sodium Bisulfate	A	A	A	A	A	•	•	C
Sodium Bisulfite	A	A	A	A	A	A	•	B
Sodium Borate	A	A	A	A	A	A	•	B
Sodium Carbonate	A	A	A	A	A	A	•	A
Sodium Chlorate	A	A	A	A	A	C	•	B
Sodium Chloride	A	A	A	A	A	A	A	B
Sodium Dichromate 20%	A	•	B	•	A	•	•	•
Sodium Hydroxide < 20%	A	B	A	B	C	A	B	B
Sodium Hydroxide 20-46.5%	A	C	A	B	C	•	C	B
Sodium Hypochlorite 5%	A*	B	A	A	A	B	A	C
Sodium Hypochlorite 6-15%	A*	B	A	A	A	B	A	C
Sodium Nitrate	A	A	A	A	A	C	A	B
Sodium Silicate	A	A	A	A	A	A	•	B
Sodium Sulfide	A	A	A	A	A	A	•	C
Sodium Sulfite	A	A	A	A	A	A	•	A
Solvents	C	B	B	B	•	•	•	•
Soybean Oil	B	A	A	A	A	•	•	A
Stannous Chloride 15%	A	A	A	B	A	•	•	A
Stearic Acid	A	B	B	B	A	B	•	A
Sulfur Dioxide liquid	A	C	C	C	B	•	•	A
Sulfur Trioxide	B	C	A	C	A	•	•	C
Sulfuric Acid < 40%	B	B	B	B	A	C	A	C
Sulfuric Acid > 40%	C	C	C	C	A	C	A	C
Sulfurous Acid	A	A	A	B	C	C	•	B
Tannic Acid 10%	A	B	A	B	A	B	•	A
Tanning Liquors	A	A	A	A	A	•	•	A
Tartaric Acid	A	A	A	A	A	A	•	C
Titanium Salts	A	A	A	B	•	•	•	•
Triethanolamine	A	C	C	C	C	•	•	•
Trisodium Phosphate	A	A	A	A	A	•	•	B
Tung Oil	B	B	C	C	A	•	•	•
Turpentine	B	B	C	C	A	C	•	A
Urea	B	A	B	A	A	B	•	B
Water & Brine	A	A	A	A	A	B	•	•
Zinc Chloride	A	A	B	A	A	A	A	B
Zinc Salts	A	A	A	A	•	•	•	•

NOTE: FKM tested to ANSI/NSF 61 with water only.

* Products tested and certified by IAPMO according to ANSI/NSF 61 for contact with Sodium Hypochlorite and Water only and ANSI/NSF 372.

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POLICIES

Limited Warranty

Stenner Pump Company will for a period of one (1) or two (2) years from the date of purchase (proof of purchase required) repair or replace – at our option, all defective parts. Stenner is not responsible for any removal or installation costs. Pump tube assemblies and rubber components are considered perishable and are not covered in this warranty. Pump tube will be replaced each time a pump is in for service, unless otherwise specified. The cost of the pump tube replacement will be the responsibility of the customer. Stenner will incur shipping costs for warranty products shipped from our factory in Jacksonville, Florida. Any tampering with major components, chemical damage, faulty wiring, weather conditions, water damage, power surges, or products not used with reasonable care and maintained in accordance with the instructions will void the warranty. Stenner limits its liability solely to the cost of the original product. We make no other warranty expressed or implied.

Returns

Stenner offers a 30-day return policy on factory direct purchases. Except as otherwise provided, no merchandise will be accepted for return after 30 days from purchase. To return merchandise at any time, call Stenner at 800.683.2378 for a Return Merchandise Authorization (RMA) number. A 15% restocking fee will be applied. Include a copy of your invoice or packing slip with your return.

Problem with Shipment

Check orders immediately upon arrival. Any claim of damage, shortage or order discrepancy must be noted on the delivery receipt and reported to Stenner at 800.683.2378 within seven (7) days of receipt.

Pump Service & Repairs

Before returning a pump for warranty or repair, remove chemical from pump tube by running water through the tube, and then run the pump dry. Following expiration of the warranty period, Stenner Pump Company will clean and overhaul any Stenner metering pump for a minimum labor charge plus necessary replacement parts and shipping. All metering pumps received for overhaul will be restored to their original condition. The customer will be charged for missing parts unless specific instructions are given. To return merchandise for repair, call Stenner at 800.683.2378 or 904.641.1666 for a Return Merchandise Authorization (RMA) number.

Disclaimer

This information is not intended for specific application purposes. Stenner Pump Company reserves the right to make changes to prices, products, and specifications at any time without prior notice.

Trademarks

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Versilon® is a registered trademark of Saint-Gobain Performance Plastics.
Pellethane® is a registered trademark of Lubrizol Advanced Materials, Inc.
Hastelloy® is a registered trademark of Haynes International, Inc.
AquaShield™ is a trademark of Houghton International.

STENNER PUMPS