

# Chemical Feed Pumps

## 85 Pump Series Single Head Adjustable Rate

### How it Works

Stenner's fixed output metering pump is built with two detachable components: the motor and pump head. Outputs are dependent upon the rpm of the motor gears and the size of the peristaltic pump tube.

The fixed rate pump has no output adjustment. All Stenner metering pumps have a 3-point roller design in the pump head, which acts as a check valve to prevent back flow, siphoning, overdosing and loss of prime.

The motor's output shaft rotates at a fixed rpm which drives the roller assembly within the pump head. The chemical solution in the pump tube is captured between the rollers as they rotate and compress the tube. As the rollers advance, the squeezed tube section regains its original form and generates a vacuum, creating the self-priming feature that delivers a constant flow unaffected by the outlet pressure.



**STENNER PUMPS**

### Advantages:

- ➔ Self-priming up to 25 feet and does not lose prime
- ➔ Can pump off-gassing solutions
- ➔ Solutions contained in tube, not exposed to pump components or air
- ➔ Subassemblies fit together without tools; easy service or conversion to another model
- ➔ Pump head universal to all Stenner pumps
- ➔ Can run dry without damage
- ➔ Will not clog from dirt or debris
- ➔ Reproducible outputs within 2%
- ➔ Adjustable feed rate control from 5%-100% in 2.5% increments
- ➔ Pump tubes accept a variety of chemicals

#### Outputs @ 60Hz

Gallons per day: 0.8 to 17.0  
 Gallons per hour: 0.03 to 0.71  
 Liters per day: 3.0 to 64.4  
 Liters per hour: 0.13 to 2.68  
 Ounces per minute: 0.07 to 1.51  
 Milliliter per minute: 2.08 to 44.65

#### Outputs @ 50Hz

Liters per day: 2.4 to 51.5  
 Liters per hour: 0.10 to 2.15  
 Milliliters per minute: 1.67 to 35.76

#### Discharge Pressure

26-100 psi (1.7-6.9 bar)

#### Voltage

Voltage 120V 60Hz; 220V 60Hz/230V 50Hz; 250V 50Hz International

#### Motor

shaded pole; 44 rpm; 1/30 HP

#### Suction Lift

25' (7.6 m)

#### Maximum Operating Temperature

125° F (52° C)

#### Amp Draw

1.7 120V; 0.9 220V, 230V, 250V

#### Dimensions (l x w x h)

10.6 x 5.3 x 6.0 in  
 (26.9 x 13.4 x 15.2 cm)

#### Shipping Weight

9 lbs (4 kg)

Item #		Model	Tube	Feed Rate Setting: Outputs per day in US Gallons @ 60Hz										
CDN #	US #			L	1	2	3	4	5	6	7	8	9	10
11880	11852	85MHP5	#1	0.3	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
11872	11853													

Item #	Description
11880	STENNER-PUMP-85MHP5-110
11872	STENNER-PUMP-85MHP5-220

# Chemical Feed Pumps

## Materials of Construction

All Housings: Lexan® polycarbonate plastic  
Pump tube & check valve duckbill: Santoprene® FDA approved

Pump tube: Tygothane® FDA approved

Checkvalve duckbill (w/Tygothane tube): Pellathane®

Suction/discharge tubing & ferrules (1/4" & 6 mm):  
LDPE polyethylene,

NSF/FDA approved

Tube fittings, connecting nuts, check valve fitting,  
weighted strainer: Type 1 Rigid PVC-NSF listed

All fasteners: Stainless Steel

Lexan® is a registered trademark of General Electric.

Santoprene® is a registered trademark of Advanced  
Elastomer system

Tygothane® is a registered trademark of Saint-Gobain  
Performance Plastics

Pellathane® is a registered trademark of The Dow  
Company

## Agency listings

Santoprene®: UL, CSA, CE, NSF-50, NSF-61

Tygothane®: UL, CSA, CE

## Accessories shipped with each pump

3 connecting nuts 1/4" or 3/8"

3 ferrules 1/4" & 6 mm or 2 ferrules 3/8"

1 injection check valve

1 weighted strainer

1 20' roll of suction/discharge tubing 1/4" or 3/8" white or UV  
black or 6 mm (Europe) white

1 spare pump tube

1 mounting bracket

1 installation manual

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