




# SOTERA<sup>TM</sup>

SYSTEMS

SV ROTARY VANE PUMPS





As part of Tuthill Transfer Systems, we've been making heavy-duty, industrial rotary vane pumps for 50 years. We're expanding our expertise into stainless steel construction to better fit chemical transfer applications.

Sotera stainless steel rotary vane pumps are designed for use with thin liquids that are compatible with stainless steel. Chemical manufacturers and users that run many different liquids through their pumps want the maximum practical corrosion protection, standard on our SV Series.

**The SV Series is compatible with:**

- Acids and alkalis
- Aqueous solutions
- Detergents and soaps
- Diesel Exhaust Fluid

## KEY FEATURES AND BENEFITS

**Superior Suction Lift Capabilities**—pump design provides excellent suction lift and application flexibility. Empty totes from the top or bottom.

**Internal Bypass**—spring is installed in the pump housing for continuous pump operation, eliminating the cost of return to the tank system. Protects pump from over-pressure from day one and beyond.

**Short-term Dry-run Capabilities**—high-efficiency pump with self-priming, short-term dry-run capabilities that handle entrained gases. Allows self-priming, completely emptying totes.

**Parts Commonality**—better design with fewer parts reduces maintenance, and the commonality of parts between the 8-gpm and 20-gpm pumps reduces parts stocking needs. The result is better parts availability and a lower cost of ownership.

**Motor Speed Operation**—motor speed operation eliminates speed reducer. No shaft alignment, coupling, or guard. Reduces footprint and system cost, and allows quick, easy installation.



## PUMP ONLY

Pump	GPM (Max)	Differential PSI (Max)	Horsepower	Enclosure	Temp (Max)	Viscosity (Max)	RPM	Port Size	Approximate Shipping Weight
FRSA120800N	8	29	1/2hp/115V AC	TEFC	120°F	40 cp	3,450	¾" NPT	24 lbs.
FRSA120800MN	8	29	1/2hp/115V AC	TEFC	120°F	40 cp	3,450	¾" BSPP	24 lbs.
FRSD120800N	8	29	1/2hp/12V DC	TEFC	120°F	40 cp	3,450	¾" NPT	24 lbs.
FRSD120800MN	8	29	1/2hp/12V DC	TEFC	120°F	40 cp	3,450	¾" BSPP	24 lbs.
SV20A1DNSD	20	20	1/2hp/115V AC	TEFC	125°F	40 cp	3,450	1" NPT	22 lbs.
SV20A1DBSD	20	20	1/2hp/115V AC	TEFC	125°F	40 cp	3,450	¾" BSPP	22 lbs.

## FULL PACKAGES\*

### FRSA120801MA (AC)/FRSD120801MA (DC)

- 8-gpm pump — BSPP connections
- ¾" x 12' hose with ¾" BSPP male threads, stainless steel (*FRHS07512S*)
- Stainless steel automatic nozzle with ¾" BSPP female threads (*FRNS075A*)
- Digital meter, ¾" BSPP female threads (*825D075BSPP*)
- ¾" BSPP male stainless steel union

### FRSA120801MATU (AC)/FRSD120801MATU (DC)

- 8-gpm pump — BSPP connections
- ¾" x 12' hose with ¾" BSPP male threads, stainless steel (*FRHS07512S*)
- Stainless steel automatic nozzle with ¾" BSPP female threads (*FRNS075A*)
- Digital meter, ¾" BSPP female threads (*825D075BSPP*)
- ¾" BSPP male stainless steel union
- Tote mounting plate (*KIT180MP*)
- Hose retractor rod assembly (*KITFR32RA*)

### FRSA120801MATUC (AC)/FRSD120801MATUC (DC)

- 8-gpm pump — BSPP connections
- ¾" x 12' hose with ¾" BSPP male threads, stainless steel (*FRHS07512S*)
- Stainless steel automatic nozzle with ¾" BSPP female threads (*FRNS075A*)
- Digital meter, ¾" BSPP female threads (*825D075BSPP*)
- ¾" BSPP male stainless steel union
- Tote mounting plate (*KIT180MP*)
- Hose retractor rod assembly (*KITFR32RA*)
- Four-pin micromatic coupler with hose barb (*MMSS075RSV*)
- 6' hard-wall suction hose assembly — (1) ¾" BSPP male thread connection, (1) hose connection (*FRHA07506HW*)

\*Full packages include everything listed beneath the product number listed. Individual parts may be purchased using the part number provided.

## MATERIALS

Construction	Housing	Rotor	Vanes	Seal	O-rings	Shaft	Cover Plate	Bushings
Standard	304SS	304SS	POM*	Fluorocarbon	Fluorocarbon	304SS	304SS	Polypropylene

\* Polyoxymethylene



**SOTERA**<sup>™</sup>  
SYSTEMS



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