SP Series Vane Pumps Installation, Operation, and Maintenance



SPO-N Vane Pump

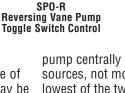
SPO-R **Reversing Vane Pump**



Reversing Vane Pump Touchpad Control

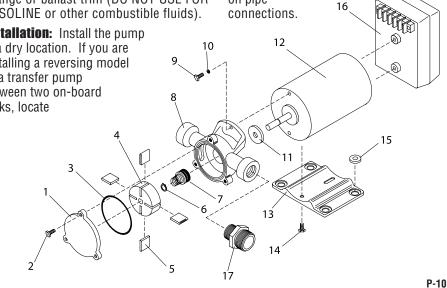
Concept: GROCO vane pumps are positive displacement pumps, capable of operation in either direction. They may be used to perform a variety of on-board duties such as fuel transfer, engine oil change or ballast trim (DO NOT USE FOR GASOLINE or other combustible fluids).

Installation: Install the pump in a dry location. If you are installing a reversing model as a transfer pump between two on-board tanks, locate the



pump centrally between the two liquid sources, not more than 24" higher than the lowest of the two liquid sources. Double clamp hose connections or

use thread tape on pipe



	ltem	Part Number	Part Name	Qty	P-10 Service Kit	Master Service Kit
	1	SP-91	COVER	1		
	2	1024X12HB	SCREW	3		
-	3	2-034	0-RING	1	*	*
	4	SP-94	ROTOR, 4 SLOT (until 090430)	1		
		SP-99-A	ROTOR, 8 SLOT (after 090501)	1		*
-	5	SP-99	BLADES SET (4) (until 090430)	1		
		SP-98	BLADES SET (8) (after 090501)	1		*
	6	SNAP RING-1	SNAP RING	1	*	*
	7	69089	SEAL ASSY	1	*	*
ERVE	8	SP-49-C	HOUSING	1		
© 1999 GROSS MECHANICAL LABORATORIES, INC. ALL RIGHTS RESERVED	9	1032X12HS	SCREW	2		
	10	10SS	LOCKWASHER	2		
	11	SP-95	SLINGER	1		
NC.	12	(VOLTAGE)-F	MOTOR (SPO-60 SERIES)	1		
IES, I		(VOLTAGE)-R	MOTOR (SPO-80 SERIES)	1		
ATOR	13	B-200-P	BASE	1		
ABOR	14	1032X12HST	SCREW	2		
SALL	15	B-200-G	GROMMETS SET (4)	1		
HANIC	16	REV-B ASSY (VOLTAGE)	REVERSING CONTROL (R MODELS)	1		
MEC		REV-D ASSY	REVERSING CONTROL (RT MODELS)	1		
ROSS		REV-E ASSY	REVERSING CONTROL (RR MODELS)	1		
9 6 6 6	17	GHMX500M	ADAPTOR, 1/2" NPT TO GARDEN HOSE	2		
© .	NS	SWITCH-8	CONTROL SWITCH (RR MODELS)	1		

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SPO-RR **Reversing Vane Pump Remote Location Control**

Mount the pump securely with (4) 1/4" screws and flat washers. Any pump orientation is OK

If the pump is at or below the liquid source level, in-line valves (GROCO IBV-500 or FV-500) may be installed at both pump ports to prevent fluid spills during pump service.

Installation. SPO-RR: Drill 1/2" hole for the panel switch, and use 18-gauge or larger 3-conductor marine grade wire between pump and switch. Use crimp-on ring terminals at the pump terminal block. Orient the switch to match your pumping direction (port/starboard or fore/aft).

Operation, SPO-N: No pump control is provided. The installer must provide switching.

Operation, SPO-R: Pump-mounted On-Off-On toggle switch is provided.

Operation, SPO-RT: Pump-mounted Touchpad Control is provided. Touchpad switching is momentary.

Operation, SPO-RR: On-Off-On momentary panel switch is supplied for control from a remote location.

Electrical: The pump should be powered and protected by a dedicated circuit breaker of the proper capacity. Refer to the wire size selection chart included with this pump. Use the proper wire size for connections between the breaker to the pump.

Model	Voltage	Breaker (For Water or Oil)
SPO	12V	30
010	24V	15

Maintenance: No regular maintenance is required. Annual inspection of plumbing and electrical connections should be made.

Winterization: If the pump is installed above the liquid level, no winterization is required. If the pump is installed at or below the liquid level, drain the pump body by removing the cover plate.