



**Models 23180-9000  
23180-9100**



## ROTARY VANE PUMP

### FEATURES

<b>Body:</b>	Cast Iron
<b>Ports:</b>	1" IPT
<b>Vaness:</b>	Bronze
<b>Rotor:</b>	Brass
<b>Shaft:</b>	Stainless Steel
<b>Bearings:</b>	Oilite
<b>Seal:</b>	Lip
<b>Seal Housing:</b>	Cast Iron
<b>Coupling:</b>	Flexible Stainless Steel Spring
<b>Motor:</b>	Permanent Magnet Intermittent Duty (30 min.)
<b>Height:</b>	3-7/8" (98 mm)
<b>Length:</b>	10-1/16" (259 mm)
<b>Width:</b>	5-1/8" (130 mm)
<b>Weight:</b>	10 lbs (4,5 kg)

Models 23180-9000, 23180-9100



**WARNING: DO NOT USE TO  
PUMP GASOLINE OR  
FLAMMABLE LIQUIDS.**

### MODELS AVAILABLE

23180-9000	12 Vdc
23180-9100	24 Vdc

### APPLICATION

The Jabsco Rotary Vane pump is ideal for transferring diesel fuel. The brass rotor and bronze vanes are not affected by petroleum products. It is self-priming with a suction lift of up to eight feet and can pump against a discharge head of up to ten feet.

**NOTICE:** Do not pump water or corrosive fluids. Do not pump oils with a viscosity greater than SAE 10W. Pump and/or motor damage may result.

### INSTALLATION

The pump must be mounted in a dry location positioned horizontally – the motor is not waterproof and must not be submerged. SELECTION OF A COOL, VENTILATED location will generally extend pump motor life. The pump may be mounted at 90 degree increments on the bearing house to allow plumbing connections as needed.

### PLUMBING CONNECTIONS

Pumps ports are tapped with 1" NPT threads. Use rigid plumbing or flexible hose that does not kink when bent and with sufficient wall thickness to prevent collapse when used on suction side of pump. Plumbing should be routed so that some fluid will be retained in pump body to wet the rotor and vanes. Wetting the rotor and vanes aids in priming. Use a strainer on the intake if debris or solids are present in the fluid being pumped. ALL plumbing connections must be airtight to enable fast priming.

PSI	TOTAL HEAD		CAPACITY	
	FEET	METRES	GPM	l/MIN
2.1	5	1,5	13	49
4.3	10	3,0	12	46

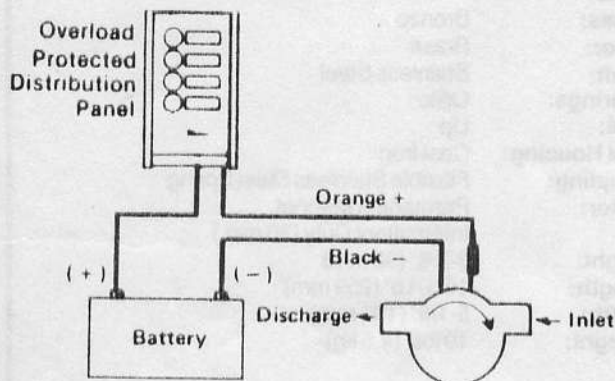
Table shows approximate Head-Flow for new pump.

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## ELECTRICAL CONNECTIONS

Connect black wire to negative ( - ) terminal of battery. The orange wire with the fuse holder should run to an overload protected switch or circuit breaker, with a wire from switch or breaker to positive ( + ) terminal of battery. Motor rotation is clockwise looking at shaft end of motor. Use proper wire size as determined by wire table elsewhere on this sheet. Should this fuse blow, replace with same size fuse after determining reason for blown fuse.

## WIRING DIAGRAM



MODELS	VOLTAGE	AMP DRAW	FUSE SIZE
23180-9000	12 Vdc	15	20 Amp
23180-9100	24 Vdc	7.0	10 Amp

## RECOMMENDED MINIMUM WIRE SIZES

CONNECTION LENGTH BETWEEN BATTERY AND MOTOR	12V	24V
1-10 ft. (3m)	#10	#16
11-20 ft. (6m)	#6	#12
21-30 ft. (9m)	#6	#10

Above recommendations are for a maximum 3% voltage drop.

NOTICE: To prevent motor damage, use only multi-strand copper wire in size recommended. DO NOT use ordinary lamp cord or other substitutes.

NOTICE: No warranty consideration will be given to pumps that are returned without the properly sized fuse and fuse holder supplied with the pump.

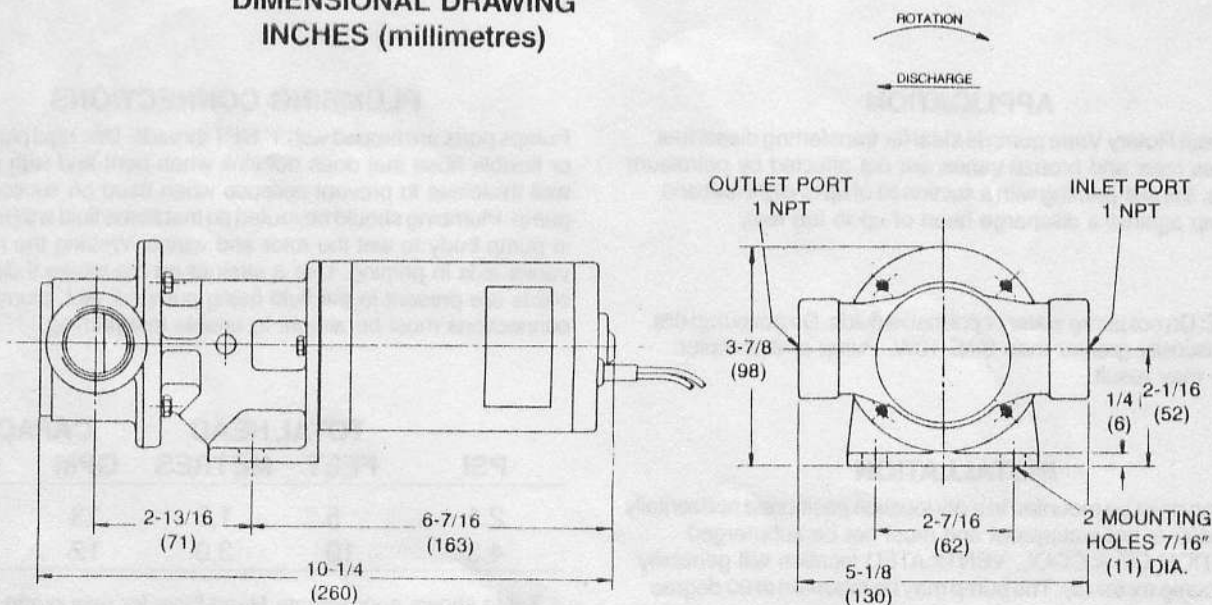
## OPERATION

Rotary Vane pumps must NOT be run dry, as the pumped liquid is the lubricant for the rotor and vanes. Observe the outlet and shut off pump as soon as liquid stops flowing.

The pump cannot run against a closed outlet such as encountered when using a garden hose type shut-off nozzle. Pressure for normal operation should not exceed 10 feet of head (4.3 PSI). Excessive pressures will cause fuse to blow.

Temperature of pumped liquid may be in the range of 45°-165°F (10°-78°C).

## DIMENSIONAL DRAWING INCHES (millimetres)



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For technical advice or service please take your pump into your local pump service center.  
To order pump or parts or for pricing please go to the following links :

[Jabsco Pumps Home >>](#)

[Jabsco Pumps stock list >>](#)