

RVP Range – Baseplate mounted offloading/stripping pumps



Atex
Approved



II 2 GD T4

For Hazardous Area Applications



The EPS Range of Vane pumps offers extremely efficient suction and self priming capabilities. The range covers duties up to 1000 l/min.

The sliding vane operating principle imparts a very low rate of shear to the material being handled and provides a smooth, almost pulsationless flow. Sliding vane pumps “self-adjust” to compensate for “normal wear,” providing like-new pump performance over the life of the product. When repairs are required, maintenance is a simple, requiring few tools and minimal training to ensure proper performance.

RVP-Series pumps are rotary vane type, self-priming, provided with integral by-pass valve to protect the pump and system against overpressure. The sliding vane pump consists of a rotor turning inside a cam that is machined eccentrically in relation to the rotor. As the rotor turns, the liquid that is trapped between the rotor, cam and vanes is displaced. The RVP Series pumps are made with vanes produced from advanced polymers which exhibit extremely low coefficients of friction. The self adjusting vanes compensate for wear and help extend the life of the pump. Originally designed for fuel and light petroleum products applications, EPS RVP pumps are also available in special executions for industrial and chemical products like solvents, resins, inks and so on. Due to its efficiency this kind of pump can handle viscous and also volatile liquids and requires less horsepower than other equivalent pumps.

RVP Range – Baseplate mounted offloading/stripping pumps



Typical Applications:

- Tanker offloading
- Tanker loading
- Fuel transfer
- Line stripping
- Fuel sampling
- Fuel cleaning/polishing



Efficiency means energy savings

The high volumetric efficiency and symmetrical bearing support of our pumps means they require less horsepower than other positive displacement pumps. So, you spend less on motors initially and less on electricity to operate the pumps once they are installed. How much less? Typically our pump may require up to 30% less power than other positive displacement pump types in handling fluids from 1 to 108,000 cSt.



Symmetrical bearing support and rugged construction assures reliable performance.

Our pumps are available with grease lubricated ball or roller bearings and mechanical shaft seals. This unique design isolates the pumped product from the bearings, maintains seal face alignment and maximizes seal flushing for cooling. The result is optimum seal and bearing life.

Specifications

Maximum specifications chart

Model	Flow Rate GPM (l/min)	Pump Speed RPM	Viscosity SSU (cP)	Differential Pressure psi (bar)	Working Pressure psi (bar)	Temperature °F (°C)
RVP20	88 (333)	780	20,000 (4,250)	125 (8.6)	200 (13.8)	300 (149)
RVP25	159 (602)	780	20,000 (4,250)	125 (8.6)	200 (13.8)	300 (149)
RVP30	271 (1,026)	640	20,000 (4,250)	125 (8.6)	200 (13.8)	300 (149)

Performance data

Model	RVP20		RVP25		RVP30	
RPM	520	640	520	640	520	640
GPM (l/min)	58 (220)	72 (273)	98 (371)	120 (454)	211(799)	263 (995)
HP (Kw)	2.5 (1.9)	3.0 (2.2)	3.8 (2.8)	5.0 (3.7)	7.8 (5.8)	9.5 (7.1)

Maximum specifications chart

Model	Viscosity (SSU)				
	100	1,000	5,000	10,000	20,000
RVP 20	780	640	520	420	275
RVP 25	780	640	520	420	275
RVP 30	640	520	420	350	275

Materials

Part	Standard Material	Available options
Case	Cast iron ASTM A48	
Head	Cast iron ASTM A48	
Flanges	Cast iron ASTM A48	
Rotor	Ductile iron ASTM A536	
Bearing cap	Steel	Bearing cover/spacer with hydraulic motor adapter (cast aluminum) and coupling (steel)
Bearings	Ball (single row), grease lubricated to 300°F (149°C) max.	
Vanes	Full size with 316 stainless steel wear plate to 240°F (115°C) 20,000 SSU (4,250 cP) max.	
Bypass valve	Cast iron ASTM A48 with nickel added	
Bypass/AOV cap	Cast iron ASTM A48	
Bypass valve cover	Cast iron ASTM A48	
Bypass valve spring	Plated steel	
Seal seat	Cast iron	Stainless steel and Ni-Resist
Seal metal parts	Steel	
Shaft	High strength steel	
O-rings	Buna-N to 240°F (115°C)	Viton to 300°F (149°C)
Gaskets	Composite to 500°F (260°C)	
Vane drivers	Case hardened steel	

Typical Pump/meter package.

EPS is able to produce metering and pumping skids on customer request. This configuration makes the installation easier and faster, optimizing available space. It's also available a special transformation kit that permit to create a 4-wheeled version.

MAIN FEATURES:

Two revolving and two fixed tyred wheels

- Handle
- Motor-pump
- Pump/meter hose
- Meter
- Meter support



Atex Approved  II 2 GD T4

European Pump Services Ltd
Newpound
Wisborough Green
Billingshurst
West Sussex RH14 0QJ

Tel: 01403 701177
Fax: 01403 701170
Mob: 07860 472555
Email: contact@europeanpumps.co.uk
Web: www.europeanpumps.co.uk

