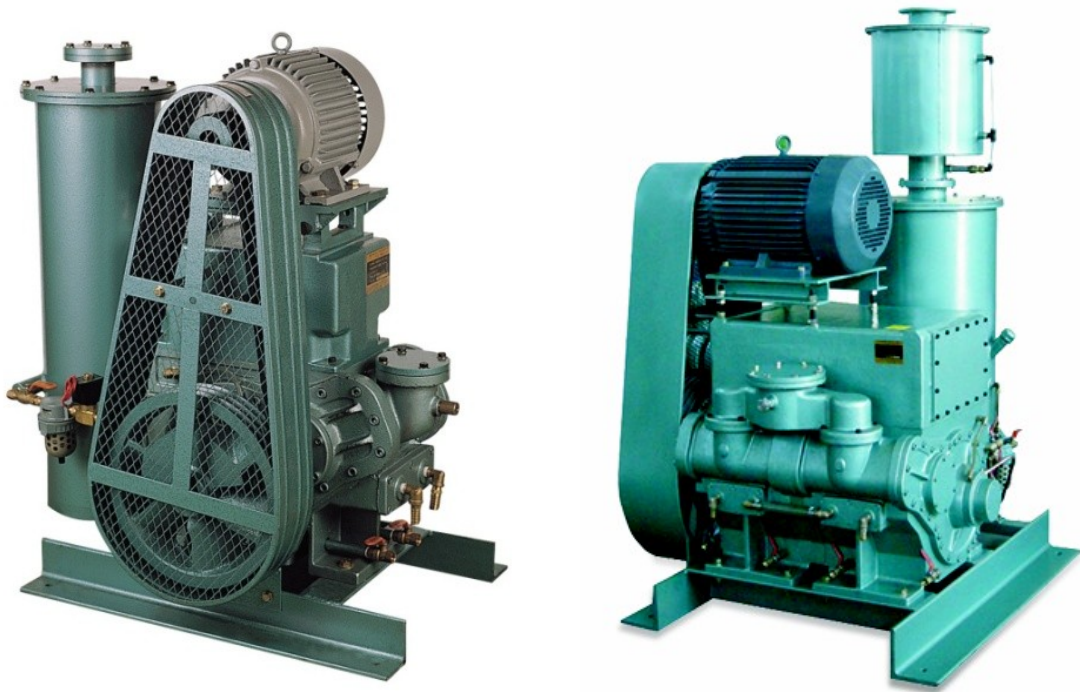



Vacuum Pumps America Inc.

VPA-RP Rotary Piston Vacuum Pumps

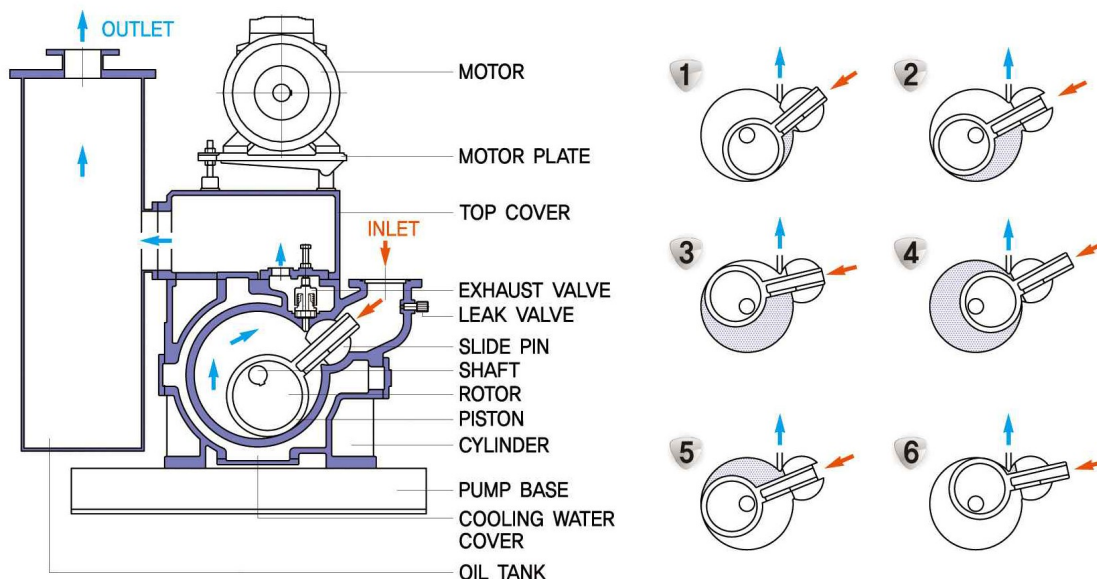


Features of VPA-RP Rotary Piston Vacuum Pumps:

- Supreme quality product by using high quality materials and excellent design.
- Excellent ultimate vacuum and pumping speed.
- Considerably vibration free and extremely quiet.
- Easy maintenance and oil change with low cost of ownership without using any special tools.
- Competitive and affordable prices.
- Dedicated design makes complete overhaul and easy repair for all VPA-RP90, VPA-RP150, VPA-RP270, VPA-RP450 and VPA-RP900.
- Lower rotational pump speed means higher pump life.
- VPA-RP Rotary Piston Vacuum Pumps are available with 3 phase motors at 380V, 208V, 230V, 460V, 575V, 50/60Hz with CSA and CE approvals compatible with EISA and IE2 standards.
- ATEX motors are available for all VPA-RP Rotary Piston Vacuum Pumps upon request 
- PFPE prepared pumps are available upon request for Oxygen and aggressive gas pumping.

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Design and Principles of Operation VPA-RP Rotary Piston Vacuum Pumps



Specifications for VPA-RP Rotary Piston Vacuum Pumps

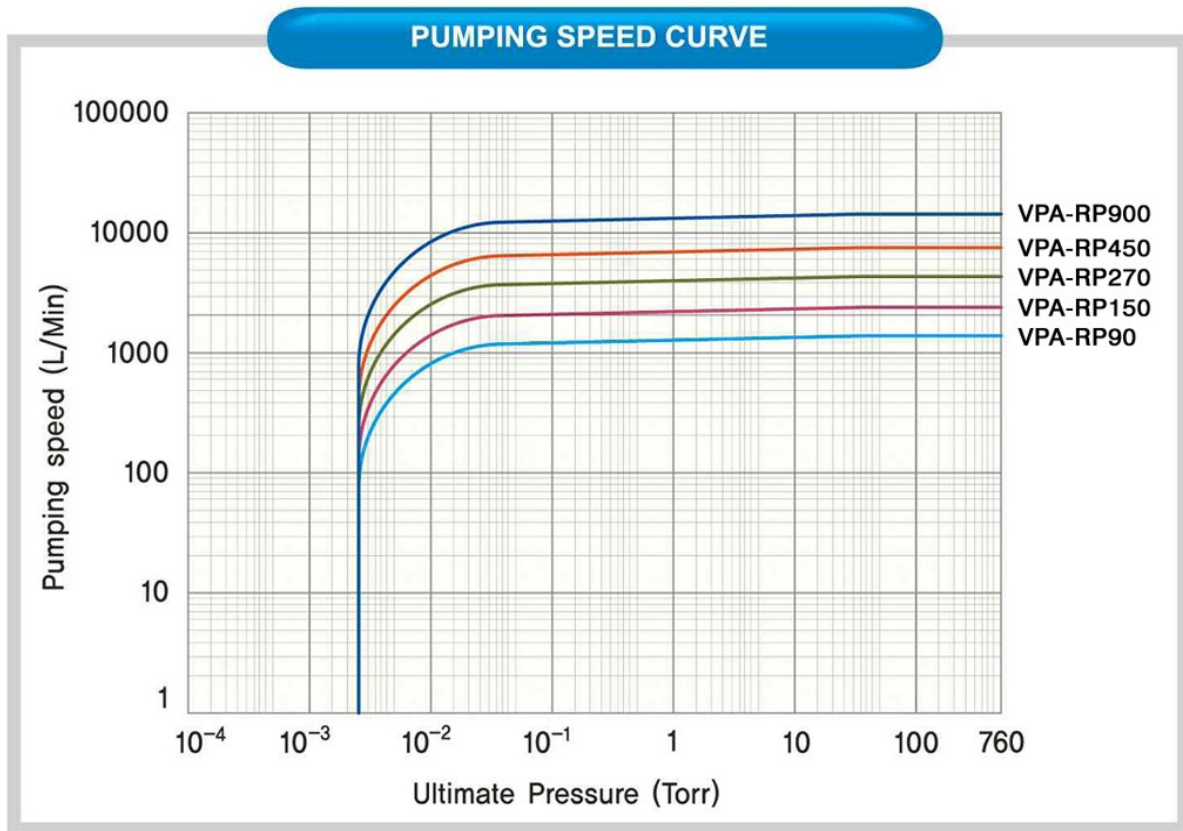
Model	Pumping Speed L/min m ³ /h (CFM) 60Hz	Ultimate Pressure Torr	Power kW (HP) 60Hz	Pump Rotational Speed (min ⁻¹) 60Hz	Port Size Quick Clamp Inlet/Outlet		Oil Capacity (L) Cooling water (L/min)	Weight with Motor (kg)
VPA-RP90	1500 90 (53.25)	5 x10 ⁻³	2.2	400	KF50 or ANSI 2"	KF50 or ANSI 2"	12 4 to 5	297
VPA-RP150	2500 150 (88.75)	5x10 ⁻³	3.7	440	KF50 ISO-63 ANSI 3"	KF50 ISO-63 ANSI 3"	20 5 to 6	380
VPA-RP270	4500 270 (180)	5x10 ⁻³	7.5	420	KF50 ISO-K63 ANSI 3"	KF50 ISO-K63 ANSI 3"	25 7 to 8	518
VPA-RP450	7500 450 (266)	5x10 ⁻³	11	380	ISO-K100 or ANSI 4"	ISO-K100 or ANSI 4"	50 10 to 12	849
VPA-RP900	15000 900 (532)	5x10 ⁻³	22	370	ISO-K160 or ANSI 6"	ISO-K160 or ANSI 6"	55 13 to 16	1245

Different types of motors are available for VPA-RP Rotary Piston Vacuum Pumps as follows:

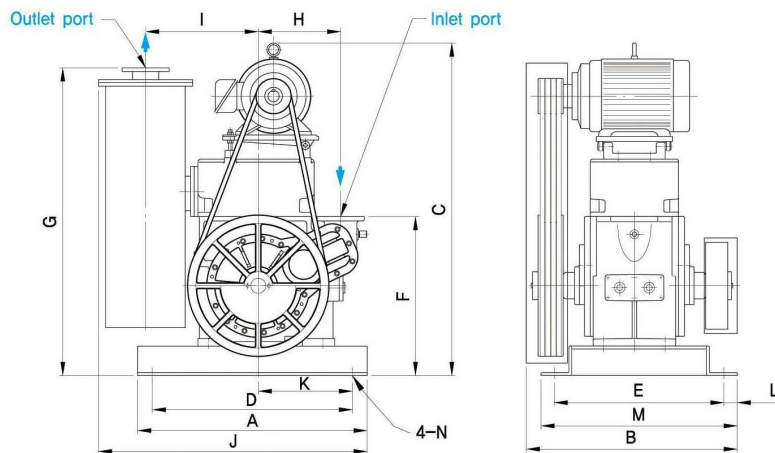
- Conventional
- ATEX
- Energy efficient
- Explosion proof

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Pumping Speed Curves for VPA-RP Rotary Piston Vacuum Pumps



Dimensional Drawings of VPA-RP Rotary Piston Vacuum Pumps








Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
VPA-RP90	700	545	963	625	440	422	875	265	332	782	303	35	510	Ø13
VPA-RP150	740	694	969	665	575	420	873	270	361	846	328	38	650	Ø16
VPA-RP270	780	717	1114	680	545	515	1020	280	383	888	330	45	635	Ø20
VPA-RP450	1000	844	1353	870	635	640	1280	363	480	1120	400	63	760	Ø20
VPA-RP900	1305	1237	1453	1175	970	814	1340	388	629	1474	425	75	1120	Ø20






All dimensions are in mm and subjected to change without notice to modify the quality of products.

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Applications of VPA-RP Double Stage Rotary Piston Vacuum Pumps

Autoclaves
Automotive
Backing pump for High Vacuum Pumps
Brazing
Casting
Central vacuum Systems
Chemical Distillation 
Chemical Laboratories 
Chemical Processing 
Chemical Vapour Deposition
Cluster Tool Load locks
Coating and Sputtering
Cryopump Roughing
Cryopump Regeneration
Debinderization
Diffusion Pump backing
Diffusion Pump Holding
Degassers 
Degassing 

Drying 
Drying Chambers 
Electron Microscopes
Evacuating of Refrigeration Systems
Evacuation of Process Chambers 
Forming
Freeze Dryers 
Heat Treatment
Impregnating 
Investment Casting
Laboratory Experimentation
Leak Detection
Light Bulb Manufacturing
Liquid Gas Storage
Lyophilizers 
Metallurgy
Metals Processing
Packaging

Oil and Gas Industry 
Oil Degassers
PET Processing
Pharmaceutical processes 
Physics Laboratories
Potting
Research & Development
Roll Coating
Roughing of Vacuum Vessels
Roots Pump Backing
Silicon Crystal Growing
Sintering
Solar Cell Lamination
Transformer Drying 
Vacuum Degassing 
Vacuum Furnaces
Vacuum Heat Treating
Vacuum Melting
Vacuum Metalizing
Vacuum Ovens
Vacuum Packaging
Vacuum Pressure Impregnation 

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Vacuum Pump Oils VPA-HO Vacuum Pump Fluids

Introduction

VPA-HO Fluids are advanced lubricants specifically designed for use in mechanically operated vacuum pump. VPA-HO Fluids are blended with semi-synthetic HT Severely Hydro-Cracked base oils and a patented additive system to provide extremely low vapor pressures for maximum pump efficiency. The anti-oxidant system delivers extended lubricant life, under conditions of high pump load and elevated operating temperatures.

Features and Benefits

- Exceptional synthetic-like resistance to high temperature fluid breakdown.
- Extends the interval between fluid changes.
- Minimizes deposits in vacuum pump systems.
- Increases pump reliability and reduce maintenance costs.
- Ash-less formulation uses non-toxic base oils.
- Creates a clean, low vapor and odor-free work place.
- Fluid has a High Viscosity Index.
- Strong lubricant film present over a wide range of temperatures.
- Improves energy efficiency.
- Superior protection against corrosion.
- Protects pumps from the corrosive effects of air, moisture and standard laboratory solvents.
- Food industry approved.
- Acceptable as a lubricant in and around food processing areas where there is no possibility of food contact.
- NSF H2 Approved.

VPA-HO Vacuum Pump Oils are always in stock in different containers: Gallon and 55 Gallon Drum.

Applications

VPA-HO Fluids are recommended for lubricating and cooling Rotary Piston and Rotary Vane Vacuum Pumps handling air. They are particularly suited to pumps running at high operating temperatures 100°C – 130°C (212°F – 266°F).

VPA-HO fluids are compatible with standard seal and hose materials except natural rubber, ethylene-propylene rubber (EPDM) and latex. Mixing of vacuum pump fluids will reduce the performance of Fluids. However, VPA-HO Fluids are compatible with mineral oils, Polyalphaolefins (PAOs) and some semi-synthetic based lubricants. VPA-HO Fluids are incompatible with Polyglycol based products. VPA-HO Fluids are also recommended for use in vacuum pumps handling inert gases such as nitrogen, hydrogen, carbon dioxide, carbon monoxide, argon, neon and helium.

VPA-HO Fluids are NOT recommended for pumps handling strong oxidizing vapors from materials such as fuming nitric acid, Sulphuric acid, hydrogen Sulphide and glacial acetic acid.

Typical Performance Data

PROPERTY	TEST METHOD	VPA-HO FLUIDS		
		VPA-HO 15	VPA-HO 19	VPA-HO 20
Density, kg/L@15°C	D4052	0.861	0.865	0.868
Viscosity cSt @ 40°C (SUS @ 100°F) cSt @ 100°C (SUS @ 210°F)	D445	38 (195) 6.2 (46.8)	55 (284) 7.6 (51.7)	103 (537) 11.4 (66.4)
Viscosity Index	D2270	108	101	97
Vapor Pressure, mm Hg @ 25°C	-	6 x 10 ⁻⁷	5 x 10 ⁻⁸	5 X 10 ⁻⁸
Flash Point, °C (°F)	D92	220 (428)	225 (437)	260 (500)
Pour Point, °C (°F)	D97	-18 (0)	-15 (5)	-12 (10)
Corrosion Protection: Rust A - Distilled Water Rust B - Synthetic Sea Water	ASTM 665 ASTM 665	Pass Pass	Pass Pass	Pass Pass
Rotary Pressure Vessel Oxidation Test, minutes	D2272	1,000	1,000	1,000
Color	-	Clear Liquid	Clear Liquid	Clear Liquid

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