

VP SERIES PUMPS

Vacuum Conveying Pumps



Compact

Portable

Innovative

A new standard in vacuum conveying pumps functionality and design. VP Series Pumps offer the convenience of three products in one compact portable unit.

VP Series Pumps: Flexible Options for Your Shop Floor

The portable vacuum pump system that allows you the flexibility you need on a daily basis. VP Series Pumps can be used to satisfy both temporary and permanent conveying needs.



Vacuum Sequence Valves

Can be installed with vacuum receiver or inside the VP Pump cabinet.



Multiple Pump Sizes

From long to short distances, as well as high to low throughput rate - VP Series meets the needs of your conveying system.



Station Controller Options

Single, four and nine station controller options for vacuum receivers to meet your application requirements.



Material Filtering

Multiple filter options range from clean, non-dusty materials to the dustiest of regrind materials.



Open or Closed Loop

VP Series can be configured to operate in both open or closed loop conveying systems.



Remote Proportion Valves

Can be added easily to introduce up to two materials into your process.

VP SERIES PUMPS

Portable and compact with flexibility to meet future needs.

The VP Series sets itself apart from the competition with an ultra-compact design that is easy move, operate and maintain.

For maximum flexibility, the VP Series is available as a single receiver pump or as many as nine receivers. To meet short, medium and long conveying distances, models are available with 1.0 to 11.5 HP (0.75 to 8.5 kW) capability.

VP pumps are designed to convey a variety of materials from clean pellets to dusty regrind.

In addition, VP Series Pumps can be configured to work within any new or existing material handling equipment. Pump is prewired for future expansion with the Quick Connect Distribution.

Reliable and versatile pump technology to meet the needs of today's complex processes.

- 1. Space Saving** – Reduced footprint when compared to traditional pump and filter assemblies.
- 2. Innovative** – Combines three traditionally separate products (pump, filter and control) into one unit.
- 3. Ease of Use** – Simple control navigation as well as no tools maintenance. Easy access to the filter with no tools needed.



Tech Tip: Access the filter on the back of the machine for cleaning with no tools by removing wing-nuts.



VPR Series
Vacuum Pump
Shown with optional
9 station controller.

Applications

This series of shredders can be used in any application that needs predictable shredder and granulation quality. Typical applications include, but are not limited to, the following:

- Injection molding
- Blow molding
- Extrusion
- Thermoforming

VPS VACUUM PUMPS

Compact and Flexible.

The VPS Vacuum Pump is one of the most compact and most flexible vacuum pumps in the industry.

With an enclosure that includes the vacuum pump, a filter and a conveying control, the VPS Vacuum Pump offers anyone the ability to have a portable system that can do the work of multiple self-contained loaders. By simply running one vacuum line and a few wires, you can have the vacuum pump up and running in no time.



VPS Vacuum Pump



With the integrated quick connection distribution block, wiring the vacuum receivers and sequence valves is as easy as plug and play.



Each VPS Vacuum Pump comes standard with compressed air filter cleaning, ensuring that the filter is as clean as possible and that your conveying system remains as efficient as the day it was first installed.

Designed for: The VPS Vacuum Pump is designed for users who have a need to convey small to medium throughput rates at shorter distances to multiple locations. The VPS Vacuum Pump is an excellent pump for conveying materials to a machine mounted blender or even a nearby floor mounted blender and then to your process machine.

VPL VACUUM PUMPS

Intelligent, Built-In Valve Design.

The VPL Vacuum Pump offers the ability to go to a larger pump and achieve higher rates at longer distances.

The main advantage of the VPL Vacuum Pump is the vacuum sequence valves are now located in the cabinet of the vacuum pump. This results in fewer wires required to operate the vacuum receivers.

The VPL Vacuum Pump is also an excellent option for conveying materials to a machine mounted or floor-mounted blender and then to your process machines. VPL Vacuum Pumps are available with a wider variety of pump options to help you reach higher rates of throughput.

Each VPL Vacuum Pump comes standard with compressed air filter cleaning, ensuring that the filter is as clean as possible and that your conveying system remains as efficient as the day it was first installed.



VPL Vacuum Pump



VPL Vacuum Pumps connect easily to a Sterling BD Series Blender.

Designed for: The VPL Vacuum Pump is ideal for small to medium conveying rates. Because of the wider variety of pump options, the VPL Vacuum Pump, as compared to the VPS Vacuum Pump, is built for longer distances and higher throughput rates to meet today's production needs and future expansion.

VPR VACUUM PUMPS

Powerful Capability.

The VPR Vacuum Pump is the most robust model in the VP Series, offering the ability to go to a larger pump (11.5 HP) to achieve higher throughput rates over longer distances.

The VPR Vacuum Pump moves the vacuum sequence valves from inside the vacuum pump cabinet (as in the VPL Vacuum Pump) and relocates the sequence valves closer to the vacuum receivers as part of the vacuum line.

In addition, the vacuum sequence valve can be wired to an Sterling supplied vacuum receiver and then a common cable can be run to the vacuum pump, making installation easy and fast so you are up and running in no time.



VPR Vacuum Pump



With the integrated quick connection distribution block, wiring the vacuum receivers and sequence valves is as easy as plug and play.



Each VPR Vacuum Pump comes standard with compressed air filter cleaning, ensuring that the filter is as clean as possible and that your conveying system remains as efficient as the day it was first installed.

Designed for: The VPR Vacuum Pump is ideal for conveying a wide range of materials, including: clean pellets, dusty regrind, and hard-to-flow materials. The VPR Vacuum Pump can operate up to 9 receivers. Because of the range of pump options and the Quick Connection Distribution Block this is the most versatile pump to meet your processing needs.

VP SERIES VACUUM PUMPS

Specifications

VPS Vacuum Pumps

Model	HP, kW	Vacuum Line inches (mm)	Material Line inches (mm)	Control Voltage	Dimensions in Inches (CM)			Throughput (lb/hr) @ 60 Hz		Shipping Wt. Lbs (Kg)
					Height	Width	Depth	@ 50 eq. ft	@ 200 eq. ft	
VPS1-0.85	1.0 (0.85)	1.5 (38)	1.5 (38)	24 VDC	32 (825)	13 (330)	42 (1068)	700	300	290 (130)
VPS1-1.5	2.0 (1.5)	1.5 (38)	1.5 (38)	24 VDC	32 (825)	13 (330)	42 (1068)	1300	500	300 (135)

VPL Vacuum Pumps

Model	HP, kW	Vacuum Line inches (mm)	Material Line inches (mm)	Control Voltage	Dimensions in Inches (CM)			Throughput (lb/hr) @ 60 Hz		Shipping Wt. Lbs (Kg)
					Height	Width	Depth	@ 50 eq. ft	@ 200 eq. ft	
VPL1-0.85	1.0 (0.75)	1.5 (38)	1.5 (38)	24 VDC	54 (138)	20 (51)	54 (138)	450	200	410 (186)
VPL1-1.5	2.0 (1.5)	1.5 (38)	1.5 (38)	24 VDC	54 (138)	20 (51)	54 (138)	1000	400	420 (191)
VPL1-2.6	3.5 (2.6)	2.0 (51)	2.0 (51)	24 VDC	54 (138)	20 (51)	54 (138)	1300	800	430 (195)
VPL2-2.6	3.5 (2.6)	2.0 (51)	2.0 (51)	24 VDC	54 (138)	20 (51)	54 (138)	2400	1000	450 (205)
VPL2-3.5	5.0 (3.7)	2.0 (51)	2.0 (51)	24 VDC	54 (138)	20 (51)	54 (138)	3000	1600	465 (211)

VPR Vacuum Pumps

Model	HP, kW	Vacuum Line inches (mm)	Material Line inches (mm)	Control Voltage	Dimensions in Inches (CM)			Throughput (lb/hr) @ 60 Hz		Shipping Wt. Lbs (Kg)
					Height	Width	Depth	@ 50 eq. ft	@ 200 eq. ft	
VPR1-0.85	1.0 (0.85)	1.5 (38)	1.5 (38)	24 VDC	54 (138)	20 (51)	54 (138)	650	300	410 (186)
VPR1-1.5	2.0 (1.5)	1.5 (38)	1.5 (38)	24 VDC	54 (138)	20 (51)	54 (138)	1400	600	420 (191)
VPR1-2.6	3.5 (2.6)	2.0 (51)	2.0 (51)	24 VDC	54 (138)	20 (51)	54 (138)	1300	800	430 (195)
VPR2-2.6	3.5 (2.6)	2.0 (51)	2.0 (51)	24 VDC	54 (138)	20 (51)	54 (138)	2400	1000	450 (205)
VPR2-3.7	5.0 (3.7)	2.0 (51)	2.0 (51)	24 VDC	54 (138)	20 (51)	54 (138)	3000	1600	465 (211)
VPR2-4.6	6.0 (4.6)	2.5 (64)	2.5 (64)	24 VDC	54 (138)	20 (51)	54 (138)	4400	3000	530 (240)
VPR2-6.3	8.5 (6.3)	2.5 (64)	2.5 (64)	24 VDC	54 (138)	20 (51)	54 (138)	5000	3000	540 (245)
VPR2-8.5	11.5 (8.5)	2.5 (64)	2.5 (64)	24 VDC	54 (138)	20 (51)	54 (138)	7000	5500	545 (247)

* Note: Rates shown are based on free flowing, clean virgin pellets at 35 lb/cu ft conveying in a multiple receiver system. Consult factory for actual rates.

* Note: Rates are shown for 60 HZ motors, for 50Hz systems, derate by 17%

* Note: There are many models and many possible combinations available. Please consult your sales representative for additional options. Weights and dimensions may vary.

Optional Features.

Multiple station conveying controls
Control multiple units from a single convenient location.

Increased pump sizes
For applications that require additional power, VP Series pumps can be specified to a higher HP/kW rating.

50/60 Hz operation
Integrate perfectly into your existing electrical framework with a 50 or 60 Hz specification.

Teflon® coated filter
Durable Teflon® coated filters ensure maximum filtration performance.

Get More From Your Production Floor.

Sterling supports your manufacturing needs across multiple industries with a full line of auxiliary equipment to help you drive efficiency and performance in your operation. Our technical support team is ready to evaluate your operation and ensure the right solution for all of your equipment needs.

