

USER GUIDE

# MVP MaxFlow Vacuum Pumps

MODELS:

- > MVP -7.5
- > MVP -10
- > MVP -15
- > MVP -20



In the space provided below you should record the model and serial number(s) of your equipment and the date the equipment was received.

In the event you would need aftermarket assistance our parts and service department uses this information, along with the manual number, to provide help for the specific equipment installed.

Please keep this instruction manual, any relevant addendums, engineering prints and parts lists together for accurate documentation of your equipment.

User Manual: <b>MVP-UG 24 July 2019</b>
Serial Number(s):
Model Numbers:

## NOTES

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DISCLAIMER: NOVATEC, Inc., shall not be liable for errors in this instruction manual. Information can change without notice. Novatec makes no warranty of any kind concerning the information contained herein, including, but not limited to the implied warranties of merchantability and fitness for a particular purpose.

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## 1.0 INTRODUCTION

Novatec's MVP Series Vacuum Pump is designed to pneumatically convey plastic pellets or powders in a vacuum conveying system. It does this by creating a vacuum to "pull" air through the piping system. The MVP series is unique because it creates vacuum via helical, positive displacement inter-meshing lobes. Plastic pellets or powders are introduced into the moving air stream in various ways, including through the use of probes, pick-up tubes, and rotary air locks. The MVP is used in conjunction with vacuum receiver station valves etc., to form the conveying system, which is controlled with either a master control or distributed control panels. Several vacuum power units may be designed into the system as required. Vacuum conveying systems typically distribute material from silos, surge bins, blenders, or drying hoppers to processing machinery.

## 2.0 WARNING

Always disconnect power before servicing. Only qualified technicians should service, maintain, or repair the MVP. Before using this equipment, read in detail the product bulletins and other information found in this manual. A safe installation is necessary before operating the equipment. The instructions should be understood and followed before installing or operating the equipment.

## 3.0 OPERATING LIMITATIONS

### 3.1 Elevation and Exhaust Temperature

Do not operate the vacuum pump at elevations higher than 2000 feet above sea level. Consult factory to review high elevation applications to determine if performance limitations apply. Decreased motor FLA limits may require alternate overload protection or alternate HP models to provide adequate vacuum power.

Blower exhaust temperature and motor cooling are a function of both vacuum level and elevation. Blower exhaust temperature must not exceed 330°F to avoid premature blower failure. A thermal "snap switch" is provided on the blower's exhaust plumbing. This switch is interconnected with the starter's control signal to stop the pump's operation in the event exhaust temperatures extend beyond the safe range. In the event the switch 'opens' the pump's control circuit due to high temperature, simple cool-down of the switch over time will restore operation.

High air inlet temperatures can also cause excess blower exhaust temperature, so closed loop systems, commonly used when conveying dehumidified materials, may require an inlet cooler, or reduced vacuum levels.

## 3.2 SEEK TIME

Excessive starting and stopping of the pump will reduce blower and motor life and void the warranty. Seek Time is a control parameter that allows your pump to operate for short periods in vacuum break mode (no vacuum loading) while the system control searches for new demands. Using the Seek Time feature, pump starts must be limited to 12 per hour to prevent premature failure. The minimum Seek Time for a pump is 180 seconds to prevent exceeding 12 starts per hour. Optimum Seek Time may be set dependent upon pump capacity, utilization, number of stations, capacity of each vacuum receiver, and individual station throughputs. See your control panel instruction manual for more information on Seek Time.

## 4.0 UNPACKING

Caution should be exercised to see that the equipment is not handled roughly. The crate must be removed carefully. Do not pry against the machine when removing the crate. The vacuum power unit is usually shipped completely assembled and requires no further attention prior to installation. Note any shipping damage on delivery receipt and report immediately to trucking company.

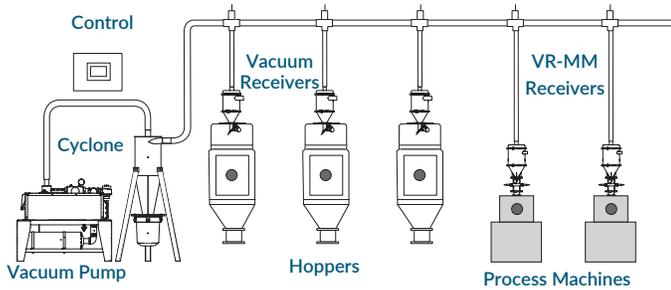
## 5.0 GENERAL INSPECTION

When the unit is unpacked, make a visual inspection looking for missing parts or damage that may have occurred during shipment. Report any missing parts to Novatec immediately. All electrical and mechanical connections should be checked for tightness, as vibration during transit may cause them to loosen.

**IMPORTANT:** Before placing the vacuum pump into service, be sure oil has been put in the pump blower, as oil may have been drained following factory quality control testing. See page 12 for lubrication guidelines.

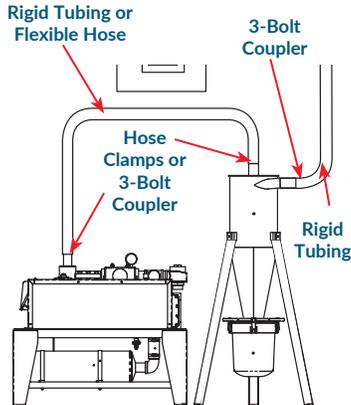
## 6.0 MECHANICAL INSTALLATION

Only qualified technicians familiar with local and national codes should install this equipment. Connect the vacuum lines as shown on the installation drawings. Connect the compressed air (80 - 120 psig) to air actuated valves as required.



Locate the pump where it can be interconnected with the vacuum system piping easily.

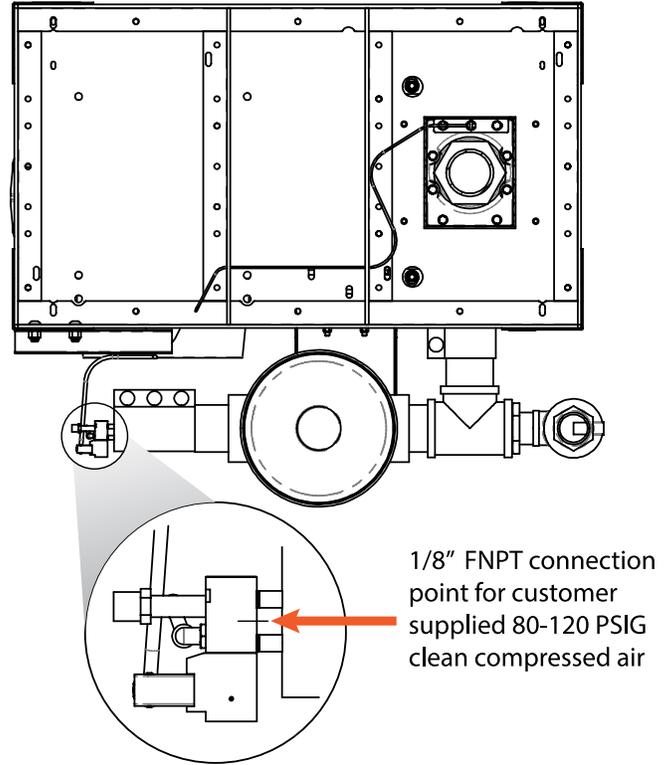
Accommodations should be made to allow full access of the pump for service, especially the belt guard, starter, filter, vacuum breaker valve, vacuum blower and vacuum relief valve. The vacuum gauge should be visible, but can be carefully rotated in its fitting as required. (Use a 9/16" wrench: DO NOT TURN BY HAND). The pump should be secured to the floor to prevent movement from vibration and isolating pads (not supplied) may be installed to minimize noise transfer to the floor, if desired.



The pump is commonly located near the vacuum conveying system's cyclone dust collector and is commonly connected directly to the cyclone lid with rigid tubing or flexible hose. It is convenient to service the dust collector and the pump filter at the same time.

## 6.1 Compressed Air Supply:

Clean compressed air should be supplied to the MVP pump's vacuum breaker valve solenoid, providing 80 to 120 psig. An air filter (not supplied) should be provided if the cleanliness of the air is questionable.

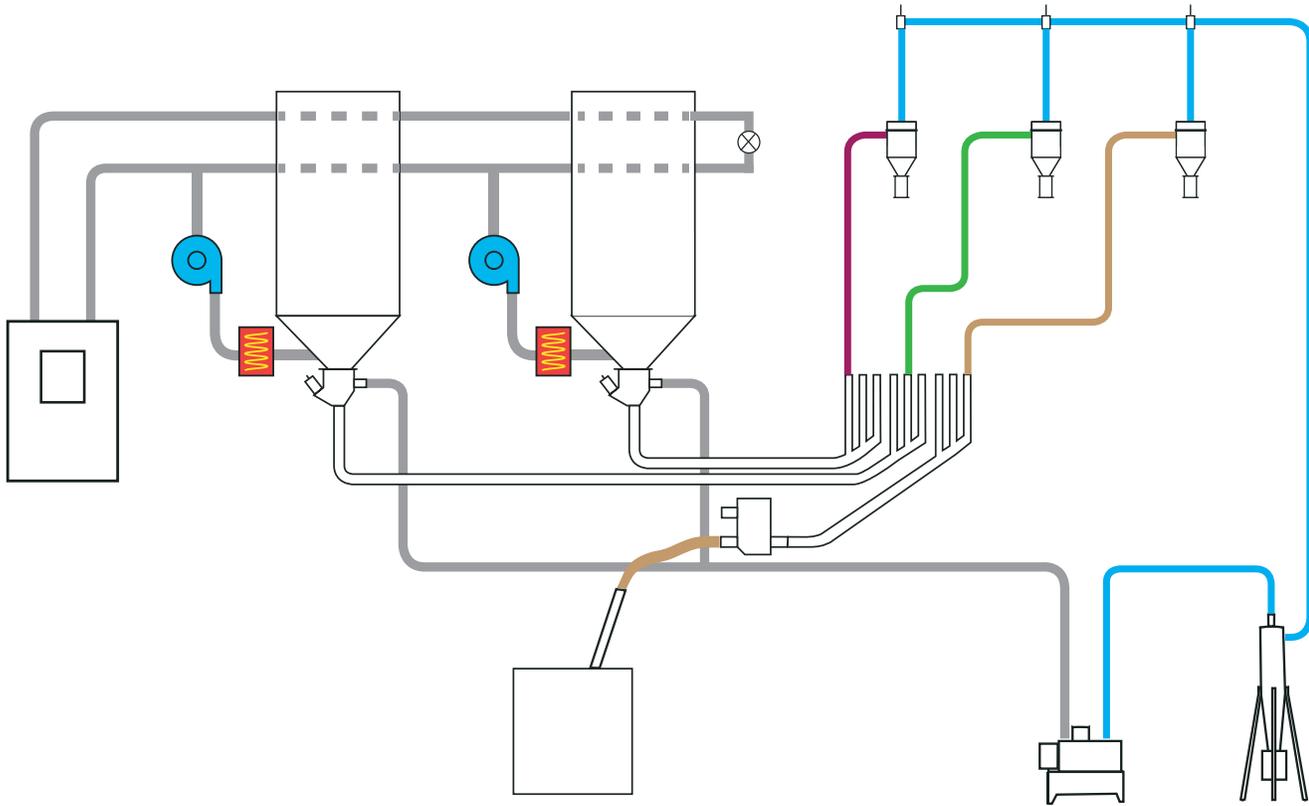


## 6.2 Regulator Warning

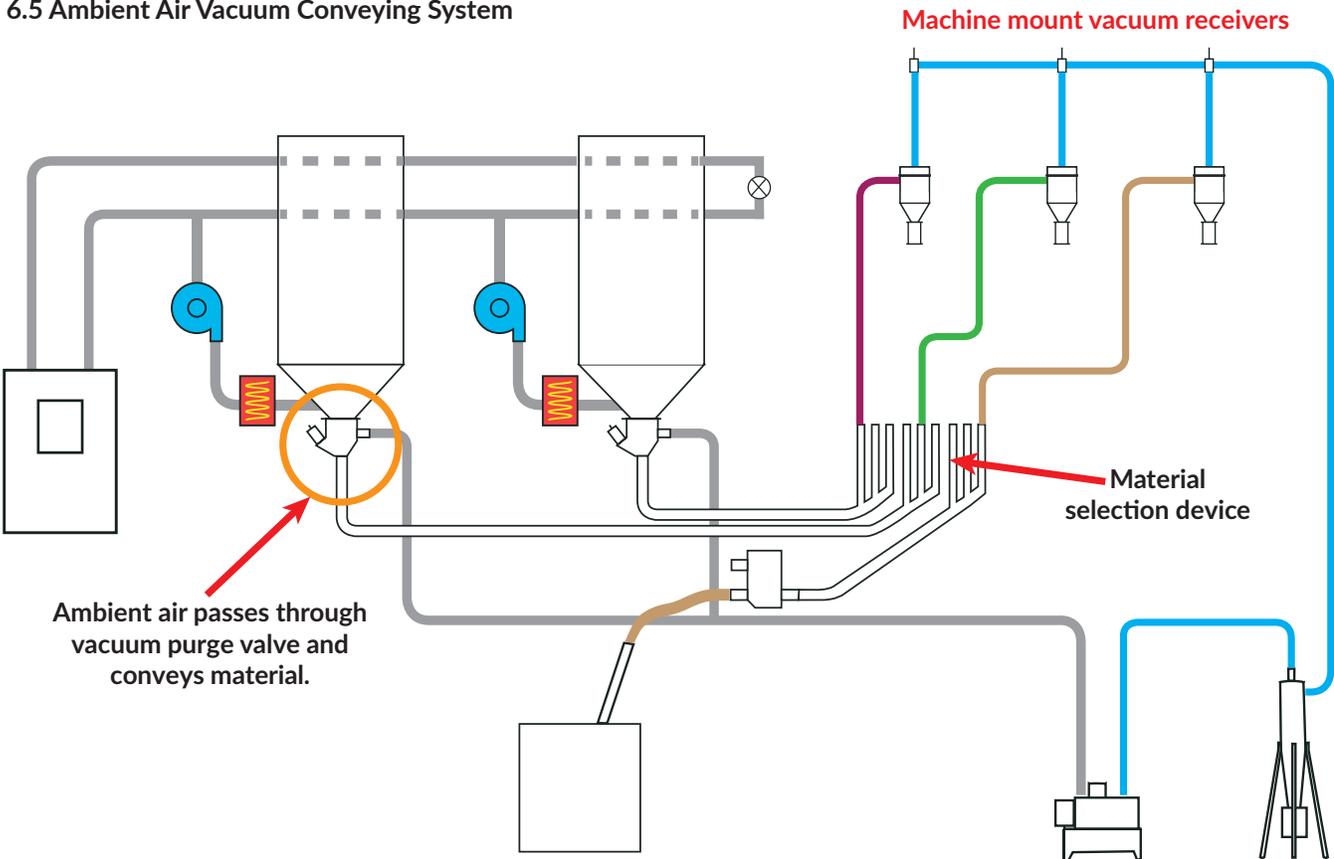


The compressed air regulator has been set at the factory to allow the vacuum breaker to relieve at the specified vacuum. **Tampering with the regulator will void the warranty.** Only qualified Novatec service personnel may adjust the relief point via regulator pressure.

### 6.4 Closed Loop Dry Air Vacuum System



### 6.5 Ambient Air Vacuum Conveying System



## 7.0 ELECTRICAL INSTALLATION

**NOTE:** Please refer to the electrical drawings supplied with this package. Connect the proper power supply (check nameplate) through a main line disconnect switch (not supplied) to terminal connections L1, L2, L3 and ground into the MVP control cabinet that contains the motor starter. This is the only power connection required since the motor is pre-wired at the factory. See schematics with this package. See FLA specification table below.

Connect control wiring from the conveying system control panel to the same electrical enclosure as shown on the wiring schematic for the conveying system control panel. Verify the correct rotation of the motor with the directional labels on the pump assembly.

### 7.1 3-Phase Electrical Power

1. Verify nameplate information on the pump frame assembly.
2. Use the FLA/KVA chart below as a guide
3. A nominally rated 3 phase disconnect switch must be provided.
4. All connections must be provided in strict adherence to local and national codes by a qualified electrician.

### 7.2 FLA / KVA Listings

Full Load Amperage and KVA ratings of MVP series Vacuum pumps, by model and voltage:

Model - Hp	Voltage	FLA	KVA
MVP-7.5 7.5 Hp	208/3/60	21.3	7.8
	230/3/60	19.4	7.8
	400/3/50	11.4	7.8
	460/3/60	9.7	7.8
	575/3/60	7.8	7.8
MVP-10 10 Hp	208/3/60	29.5	10.7
	230/3/60	26.8	10.7
	400/3/50	15.6	10.7
	460/3/60	13.4	10.7
	575/3/60	10.7	10.7
MVP-15 15 Hp	208/3/60	43.3	15.7
	230/3/60	39.4	15.7
	400/3/50	22.8	15.7
	460/3/30	19.7	15.7
	575/3/60	15.8	15.7
MVP-20 20 Hp	230/3/60	48.0	19.1
	400/3/50	29.0	19.1
	460/3/60	24.0	19.1
	575/3/60	18.8	19.1

### 7.3 Wiring Vacuum Pumps To The Control

- CONTROL POWER (+24VDC or 115VAC Hot, Terminal "B") – Supplied by the associated conveying control panel. (See electrical schematic for details)
- CONTROL COMMON (0VDC or 115VAC Neutral, Terminal "A") – Supplied by the associated conveying control panel. (See electrical schematic for details)
- AUX CONTACT or Running Signal (Terminal "D") – The Aux Contact input wire for each pump is connected from the pump starter auxiliary contact. (Terminal block "D") The control power wire is connected from the power supplied at (Terminal "B")
- VACUUM PUMP MOTOR STARTER SIGNAL (Terminal "C") – The pump starter output wire for each pump is connected from the terminal block "C" to the pumps motor starter. The motor starter is also wired to the 0VDC common to complete the power circuit when the output is energized.
- VACUUM BREAKER VALVE SIGNAL (Terminal "E") – The vacuum breaker valve output wire for each pump is connected from the terminal block "E" to the pump's vacuum breaker valve solenoid. The solenoid valve is also wired to the 0VDC common to complete the power circuit when the output is energized.

### 7.4 Determining the Wire Needed

Add up the number of individual wires needed for a group of machines using the explanations given throughout Section 8, and install the same number of wire leads from the panel to that area.

### 7.5 Wire Lead Installation Methods

- Individual wires in conduit
- Decided multi-conductor shielded cable for each receiver in a cable tray
- Shared multi-conductor shielded cable for a group of receivers in a cable tray

## 8.0 STANDARD SPECIFICATIONS

(2000 ft. Elevation and below)

Model	Hp	CFM	Max Recommended Operation Vacuum	Line Size (OD)
MVP-7.5	7.5	125	12.5" Hg	2.0"
MVP-10	10	200	14" Hg	2.5"
MVP-15	15	295	14" Hg	3.0"
MVP-20	20	390	14" Hg	3.5"

Information shown is for standard MVP series Positive Displacement vacuum pumps. Pumps can be sized for 50Hz applications to maintain the same performance. Voltage/Hz must be specified at time of order to correct for this Application. Specifications will change when the pump is operated at elevations 2000 ft. or more above sea Level. (See section below).

**NOTE:** Refer to special job drawings for custom unit information if applicable. Verify nameplate information on motor before installing and operating. All information is subject to change without notice.

**CAUTION:** Always disconnect power before servicing. Only qualified technicians should service the equipment.

### 8.1 Operating At Higher Elevations

(2000 ft. Above Sea Level Or More)

Atmospheric pressure is lower at higher elevations and as a result, the compression of air by the pump requires more work for vacuum conveying. In these higher altitude applications the vacuum relief valve of MVP pumps must be adjusted to prevent the pump from damaging itself or the motor by attempting to compress air of reduced density to an unsafe level. Failure to adjust the pump will void the pump warranty.

When the end-use site is known, Novatec endeavors to pre-adjust the vacuum pump's performance at the factory to compensate for elevations above 2000 feet. Novatec then labels the vacuum relief valve accordingly. If your pump-use site is 2000 feet or more above sea level, with no indication of pre-adjustment on the pump assembly, please contact Novatec Engineering or the Novatec Service Department at the number on the front cover of this manual to obtain instructions on adjusting your MVP pump BEFORE operating.

## 9.0 OPERATION

MVP Series Vacuum Pumps operate in response to control signals from the central vacuum conveying system control. They start automatically in response to system demands to convey plastic pellets or powders to vacuum receivers.

The MVP is equipped with a pump protection filter to protect the blower from carryover dust and fines that can create blockages, adhere to the warm surfaces of the blower, increase operating heat, and create a buildup on the blower's lobes; all of which can result in premature blower failure. The filter must be kept clean and defect free to allow full vacuum air flow and protect against entrained dust.

In addition, operating the MVP at excess vacuum levels, in high elevations, or with heated inlet air can create elevated blower temperatures.

To guard against damage or failure from overheating, the MVP is equipped with an over-temperature snap switch that will sense elevated temperatures in the blower and open the MVP's vacuum breaker valve, allowing the MVP to run in a no load state. In this free-wheeling state, vacuum loading of material is halted, and a red light on top of the MVP's starter box is illuminated, indicating an overheated condition and the MVP's automatic response to protect itself from heat damage.



The MVP will continue in this mode until the elevated heat of the blower is reduced and the snap switch returns to its normal position, closing the vacuum breaker valve and allowing the vacuum system to operate normally. Note that during this temperature reduction mode, the conveying system connected to this pump is not operating, and material levels may run low, creating an alarm condition at the central control.

To prevent the MVP from becoming overheated, increase the seek time to allow the pump to free wheel longer as a part of its normal cycle (See Seek Time page 4 and the conveying control instructions for your system) and be sure that the MVP's pump protection filter is installed correctly in its housing, is in good condition (not bent, no holes or fractures) and is kept clean. A prematurely clogged MVP filter can be the result of poor central vacuum cyclone service. Be sure the collection canister at the bottom of the cyclone is emptied as needed, to prevent pass-through of dust and fines towards the vacuum pump.

## 10.0 Parts List

QTY	DESCRIPTION	MODEL			
		MVP-7.5	MVP-10	MVP-15	MVP-20
1	Blower	MVP-P406-HORZ		MVP-P408-HORZ	
1	Blower Assembly	asMVP-03	asMVP-05	asMVP-07	asMVP-09
1	Motor 208/230/460/3/60	01915	01916	01917	98-0868
1	Vacuum Gauge	5011			
1	Mechanical Relief Valve	vrv20-13.5	vrv20-15		
1	Silencer (Muffler)	50007		50134	
3	V-Belt	02773	12-0018	02773	
1	Vacuum Breaker Solenoid				
		24 VAC = 08237			
		24 VDC = 08238			
		115 VAC = 08236			
1	Vacuum Breaker Valve Ass'y.	VBV-7.5	VBV-10	VBV-10	VBV-20
1	Motor Starter	0243	0244	0245	14010
1	Filter Element	850/1		234P	
	<b>Lubrication Oil*</b> Available in quarts and 12 qt. cases	Gardner Denver AEON PD-XD Lubricating Oil. NOVATEC P/N VPDB-QT and VPDB-CASE			
*See lubrication chart on page 12 to determine stocking level for oil.					
<p><b>NOTE:</b> Parts shown are for standard MVP series vacuum pumps. Refer to special job drawings for custom unit information. Verify information on existing part before ordering and installing replacement. All information is subject to change without notice.</p>					

## 11.0 MAINTENANCE AND INSPECTION SCHEDULE

It is recommended that maintenance and inspection is done on a scheduled basis. Maintenance requirements will naturally vary widely for each installation and specific operating conditions. It is suggested that a complete inspection be performed with the necessary maintenance at the end of the first day, the first week, the first month and the first 3 months. These inspections will be indicative of how often future maintenance will be necessary.

### Every Week

Inspect the filter cartridge and clean or replace as required. Remove fines from the exterior of the cartridge with a vacuum. On models equipped with a foam rubber pre-filter sock over the cartridge, it can be removed and cleaned separately, but avoid excessive stretching that will keep the sock from fitting tightly over the cartridge when re-installed.

If compressed air cleaning is used, be sure to wear safety glasses or a face shield and blow from the inside of the cartridge outward, through the filter leaves, to remove collected fines and particles. Some outside cleaning may be required to dislodge particles from the filter crevices.

Remove carryover fines and particles collected in the clear polycarbonate filter chamber and wipe the inside of the housing with a clean rag to restore visibility.

The filter cleaning time interval should be shortened if experience indicates unusual dust loading. Check the system for air leaks and correct as required.

### Every Month

Inspect the vacuum breaker valve filter/silencer. Clean or replace as required.

### Every 6 Months

Disconnect power and check for loose electrical connections.

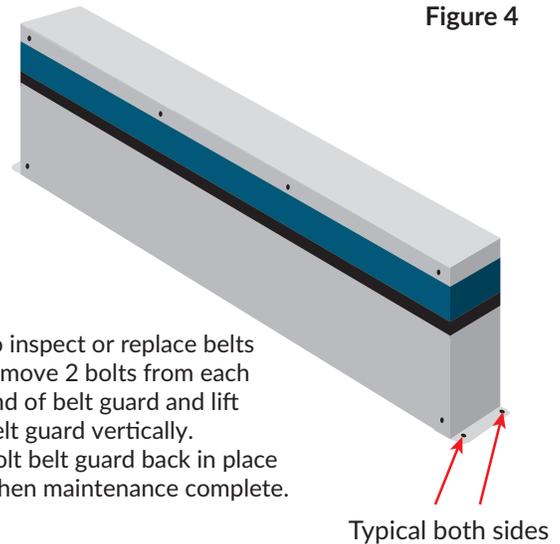
Tighten all bolts and nuts that may have loosened due to vibration. Check the V belts. Inspect, adjust or replace as detailed below.

## 11.1 Belt Adjustment and Replacement

### 11.1.1 Inspecting V Belts

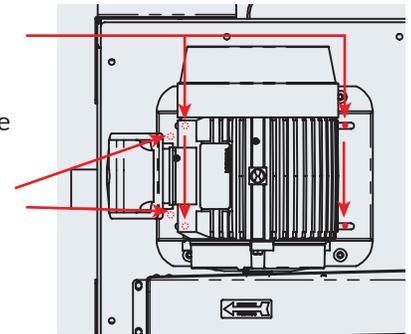
1. Remove the pump from service and disconnect electrical power.
2. To inspect V belts, remove the 2 bolts on ends of the belt guard (see figure 4). Carefully examine each belt for excessive stretch, looseness, frayed surfaces or exposed cord. Replace all belts if one or more belts are found to be excessively worn. Always replace belts as a set; never individually.

3. Inspect the belt tension (figure 5) using the specifications in the chart, below. Once belts are found in good condition and tensioned properly, replace the outside panel ensuring all 4 screws are fastened properly. Never operate the pump without the belt guard firmly installed.



To inspect or replace belts remove 2 bolts from each end of belt guard and lift belt guard vertically. Bolt belt guard back in place when maintenance complete.

- Slightly loosen 4 each hex nuts on the motor base just enough to allow the motor to slide on the base. Use 9/16" wrench for 7.5 and 10 Hp units. Use 3/4" wrench for 15 and 20 Hp units.



- Loosen 1 bolt on each side of the motor base allowing the motor to slide, tensioning the belts. Use 3/4" wrench for 7.5 and 10 Hp units. Use 15/16" wrench for 15 and 20 Hp units.

Figure 5

Pump Model	Existing Belt Re-tensioning Pressure (lb.)	New Belt Tensioning (lb.)	Belt Deflection at Pressure (in.)
MVP-7.5	3	4.5	0.32
MVP-10	3.5	5	0.33
MVP-15	4	6	0.33
MVP-20	4.5	7	0.34

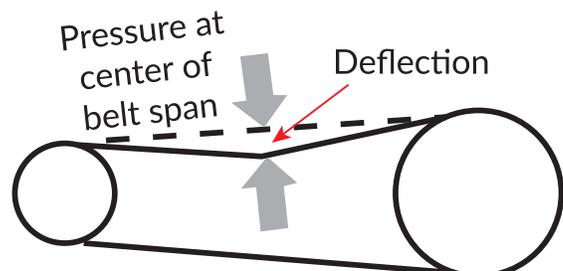


Figure 6

### 11.1.2 Replacing V Belts

If broken, stretched or excessively worn belts require replacement:

1. Remove the entire belt guard by removing the 4 bolts that connect the cover to the pump base (see figure 4, on the left), and lift the cover straight up.
2. Loosen the motor's mounting bolts and slide the motor base towards the pump, allowing the belts to loosen. Remove the belts (see figure 5).
3. Confirm use of the proper replacement belts (see parts list, page 9) and install them carefully onto each sheave pulley. All belts must be replaced as a set; never individually.
4. Re-tension the belts with the sliding motor base according to the chart (figure 6). Note that new belts require greater initial tension than belts that have been in operation. Double check the belt tension while tightening the motor base and assure the motor stays in alignment while re-tightening (see figure 7).
5. Re-attach the belt guard ensuring the four mounting bolts are tight and locking washers are in place. Confirm that no part of the belt guard comes in contact with rotating sheaves or belts.
6. Reinstall the outside panel of the guard. All 4 bolts must be installed for safety. Never operate the pump without the belt guard firmly installed.

### 11.2 Special Note: Sheave Re-installation

In the event a new blower is fitted to your MVP vacuum pump assembly, it is important to assure proper placement of the sheave on the pump's drive shaft. If not, misalignment and unacceptable "overhang" can occur, prematurely wearing the seals and bearings of the pump.

**Position of Sheave Pulley on MVP Pump Drive Shaft:**  
The distance between the blower face and the installed pulley face must not exceed 0.38".

### 11.3 Cleaning Air-Filter

For your convenience the MVP is equipped with a filter cartridge enclosed in a ClearVu cannister which allows you to know exactly when you need to clean or replace the filter element.



Release clamps to remove ClearVu cannister. Pull cannister straight down and empty any dust.



Pull filter straight down to clean or replace.

### 11.4 Removing Sound Curtains

If you have the optional sound curtain kit, panels can easily be removed for access to perform maintenance.



## 11.5 Blower Lubrication

Novatec MVP Series vacuum pumps use horizontally installed Gardner Denver positive displacement blowers.

Gardner Denver recommends and Novatec uses:

**Gardner Denver AEON PD-XD Lubrication or approved equivalent**

NOVATEC P/N VPDB-QT (1qt.)  
or P/N VPDB-CASE (12 qts.)



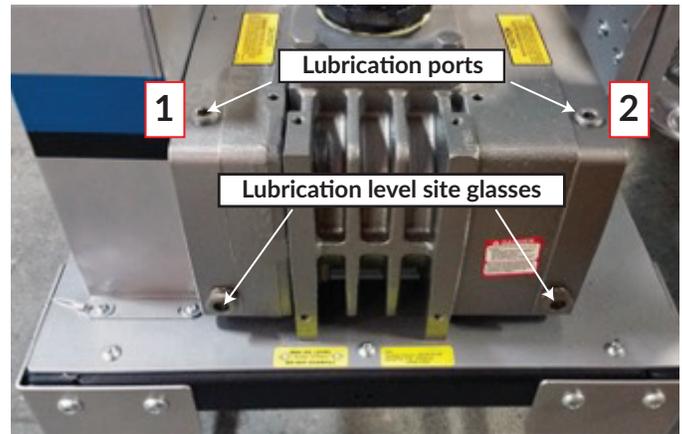
### Lubrication Guidelines

1. Novatec model MVP series vacuum pumps include splash lubricated bearings that require no grease, but both the gear and shaft sides of the pump unit contain oil sumps that must be maintained as part of your lubrication and oil replacement procedures.
2. The lubrication should be changed after initial 500 hours of operation and then after every 1500 hours.
3. The proper level should be in the middle of the sight gauge when the blower is not operating. **DO NOT OVERFILL OIL SUMPS** or damage to the blower may occur.
4. The oil level may naturally rise and/or fall in the gauge during operation, but the oil level should not fall below the middle of the site gauge when the blower is idle.
5. Routine "topping up" of oil levels is **NOT** advised. Each pump examination should include stopping the pump, allowing the oil level to stabilize and then checking the level in the sight glass windows before adding oil to the required level.

**CAUTION:**  
**DO NOT OVERFILL** the pump with lubricant!  
Severe damage can occur and warranty will be void.

### Novatec MVP Vacuum Pump Lubrication Capacities (all models):

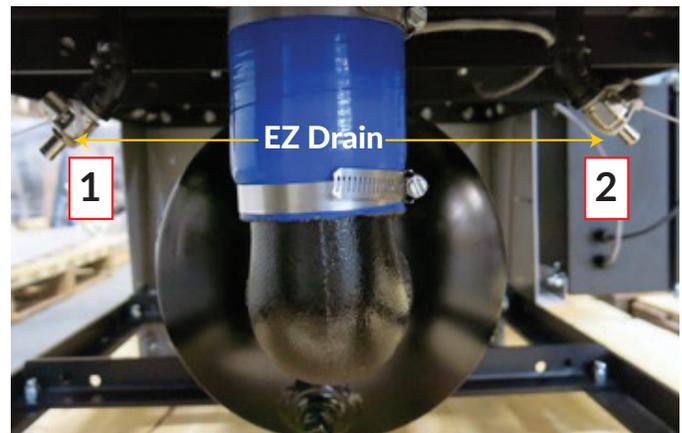
1. Shaft Side: 20 oz.
2. Gear Side: 32 oz.



Oil levels should not be above or below centers of site glasses; oil levels will fluctuate when running.

Lubrication fill ports are located on the top of the blower. Sight glasses are located on the side of the blower. Oil level should be maintained up to the middle of the sight glass when the pump is idle. Be sure to maintain oil levels on both sides. Do not operate a pump with an insufficient lubricant level. Do Not Overfill.

Place container under each drain. Lift black tab to open valves. Close valves when oil is drained.



E-Z Drain lubrication drain points are located under the blower and are easily accessible.

## 12.0 WARRANTY

### NOVATEC, INC. - EFFECTIVE DATE 1 APRIL 2019

NOVATEC, INC. offers COMPREHENSIVE PRODUCT WARRANTIES on all of our plastics auxiliary equipment. We warrant each NOVATEC manufactured product to be free from defects in materials and workmanship, under normal use and service for the periods listed under "Warranty Periods". The obligation of Novatec, under this warranty, is limited to repairing or furnishing, without charge, a similar part to replace any part which fails under normal use due to a material or workmanship defect, within its respective warranty period. It is the purchaser's responsibility to provide Novatec with immediate written notice of any such suspected defect. Warranted replacement parts are billed and shipped freight pre-paid. The purchaser must return the suspect defective part, freight prepaid and with identifying documentation to receive full credit for the part returned. Novatec shall not be held liable for damages or delay caused by defects. No allowance will be made for repairs or alterations without the written consent or approval of Novatec.

The provisions in equipment specifications are descriptive, unless expressly stated as warranties. The liability of Novatec to the purchaser, except as to title, arising out of the supplying of the said equipment, or

its use, whether based upon warranty, contract or negligence, shall not in any case exceed the cost of correcting defects in the equipment as herein provided. All such liability shall terminate upon the expiration of said warranty periods. Novatec shall not in any event be held liable for any special, indirect or consequential damages. Commodities not manufactured by Novatec are warranted and guaranteed to Novatec by the original manufacturer and then only to the extent that Novatec is able to enforce such warranty or guaranty. Novatec, Inc. has not authorized anyone to make any warranty or representation other than the warranty contained here. Non-payment of invoice beyond 90 days will invalidate the warranty. A renewed warranty can be purchased directly from Novatec.

Please note that we always strive to satisfy our customers in whatever manner is deemed most expedient to overcome any issues in connection with our equipment.

#### Warranty Periods:

Note: All warranty periods commence with the shipment of the equipment to the customer.

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#### 5-YEAR (Except 1-Year on Non-Novatec Buy-Out Items)

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##### Resin Drying to Include:

NovaWheel™ Dryers \*  
Dual Bed Dryers  
NovaDrier \*  
NDM-5 Membrane Dryer  
Gas-Fired Process Heaters  
Gas-Fired Regeneration Heaters  
Drying Hoppers  
Central Drying Hopper Assemblies  
Heater/Blower Units and Hot-Air Dryer  
Silo Dehumidifiers  
NovaVac Dryers \*  
Nitrodry Nitrogen Dryers  
DryTemp Plus

##### Central System Controls to Include:

FlexTouch™ Series Controls  
FlexXpand™ Series Controls  
OptiFlex™ Series Controls  
PLC Communications Modules  
Greenboard Communications Modules  
LOGO! Mini PLC  
MCS-600 Series Controls – (Distributed I/O)  
MCS-400 Series Controls  
CL Silo Manager

##### Moisture Measurement Equipment to Include:

MoistureMaster®

##### PET Resin Crystallizers

##### Resin Blending and Feeding to Include:

WSB Blenders, MaxiBatch & Feeders \*  
Gaylord Sweeper Systems

##### Downstream Extrusion Equipment to Include:

C and NC Bessemer Series Cutters  
NPS Bessemer Series Pullers  
NPC Mini Puller/Cutter  
All NS Series Servo Saws  
Rx SmartMed Extrusion Products  
All Cooling and Vacuum Tanks Manufactured by Novatec

##### Resin Conveying and Systems Components to Include:

GSL Series Vacuum Loaders  
GlassVu Loaders, Receivers and Hoppers  
VL/VLP Series Loaders  
VRH, VR, VR-FL, VRP & VRM Series Receivers  
Compressed Air Loaders  
AL-B Barrel Loader  
Cyclone Dust Collectors  
Conveying System Accessories  
Surge Bins  
Valves and Accessories  
Electronic Metal Separators  
Quick Select Manifolds  
Tilt Tables  
Filter Dust Collectors  
Drawer Magnets  
Velocity Control Valves

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#### 3-YEAR

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##### Resin Conveying System Components to Include:

\*\* VPDB Vacuum Positive Displacement Pumps  
\*\* SVP Vacuum Pumps  
\*\* MVP Vacuum Pumps  
\*\* Railcar Unloading Systems

**\*\*5-Year Extended Warranty** - When a MachineSense® data plan is activated for products with \*\*, Novatec automatically extends the warranty to 5 years. The data plan must be activated within 60 days after product shipment, and remain active through the warranty period to maintain extended warranty eligibility. The first 6-months of data plan usage is free from Novatec.

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#### 1-YEAR

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Infrared Dryers  
UltraVac Vacuum Pumps  
Vacuum Regenerative Blower Pumps  
Custom Equipment of any kind unless otherwise specified

**Exclusions:**

Routine maintenance/replacement parts are excluded from the warranty. These include, but are not limited to: hoses, desiccant, filters, filter elements, wiper seals, gaskets, dew point sensors, infrared lamps, motors, internal solenoids, fuses and motor brushes. Use with abrasive materials will void the warranty of any standard product. Wear resistant options may be available to extend usable service life with abrasive materials. Novatec reserves the right to limit the warranty if the customer installs replacement parts that do not meet the specifications of the original parts supplied by Novatec.

**\*Specific Exclusions:**

1. NovaDrier™ and NITROdry™ warranty is void if coalescing filters are not replaced on a 6-month or yearly basis (per instruction manual) and/or membrane has been exposed to ozone.
2. NovaVac Dryer -The ability of the canisters to hold vacuum will be compromised if the vacuum seal edge is damaged from mishandling. We do not warranty canisters damaged from improper handling. We do, however, warranty the seals.
3. LOAD CELLS on our WSB's are covered by Novatec standard warranty as long as they have not been damaged from improper handling.
4. Desiccant Wheel Warranty will be void if the wheel has been exposed to plasticizer, dust or other contaminants as a result of negligence on the part of the processor.
5. DryTemp+ - We assume no responsibility from equipment failures resulting from untreated or improperly treated water.

**This warranty shall not apply to equipment:**

1. Repaired or altered without written approval of NOVATEC unless such repair or alteration was, in our judgment, not responsible for the failure
2. Which has been subject to misuse, negligence, accident or incorrect wiring by others
3. Warranty is void if processing rates exceed manufacturer-recommended levels or if damage is caused by ineffective power isolation and/or power spikes/sags or incorrect installation.

**NOTE:** All conditions and content of this warranty are subject to changes without notice.



**Drying > Conveying > Blending > Downstream**



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