

DeLaval vacuum regulator VSD



VSD – Variable Speed Drive

Ever wanted to hold a conversation in the milking parlour without having to compete against the noise of the vacuum pump? Tired of watching money and energy drain out through your vacuum system?

If so, our new DeLaval vacuum regulator VSD could be the solution. By controlling the vacuum level from your pump, it not only dramatically reduces noise level, but can also cut your energy costs by up to 70%.

DeLaval vacuum regulator VSD complies with all CE, UL and CSA requirements. It has also undergone thorough testing by independent test institutes.



For a quieter milking environment



Gentler on you, your cows and your equipment

DeLaval vacuum regulator VSD utilizes advanced technology to create a more gentle parlour environment. You will appreciate the lowered noise levels, and so will your cows. More accurate vacuum control can also mean improved udder health and milking quality. This regulator can also extend the life of your vacuum pump and motor by quickly and smoothly responding to fluctuations. The result is reduced wear and tear and less maintenance.

So quiet, you can hear problems before they happen

DeLaval vacuum regulator VSD lowers the noise level in your parlour dramatically. A lot of dairy farmers think this is even more important than the energy savings available. What it does is reduce the overall speed of your vacuum pump, matching the pump output to the exact needs of your milking system. This reduces noise to a level where you can hear any problems that may occur (e.g a vacuum leak) before they start costing you money.

No electrical interference

Some variable speed drives on today's market interfere with electrical equipment such as herd management systems and cow identification. DeLaval vacuum regulator VSD, on the other hand, has a built-in RFI/EMI filter to ensure that radio and electromagnetic emissions never disrupt your milking system.

Energy savings of up to 70%

Studies show that by maintaining a constant vacuum level, and only producing the necessary amount of airflow (i.e. just what DeLaval vacuum regulator VSD does), energy cost savings up to 70% can be made. Your initial investment in can therefore be paid off in record time. In fact, we had one happy customer call to say that he estimated his return on investment to be less than one year. To calculate your return on investment, just fill in the table on the back page. We think you will be pleasantly surprised.

The smoothest way to run a vacuum pump

The way of the future

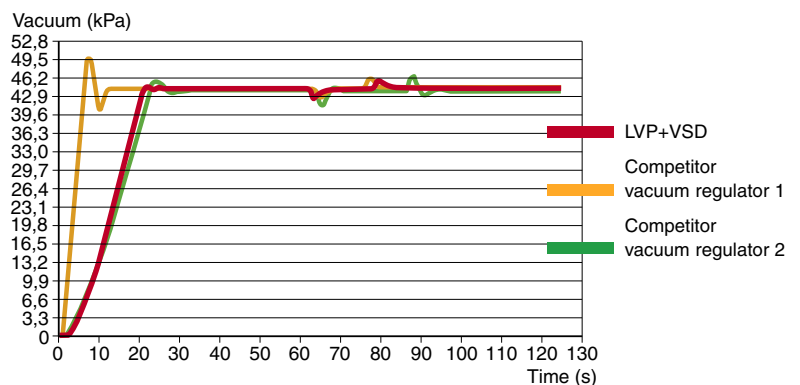
For more than a century we have been helping dairy farmers the world over to enhance their milking routine. DeLaval vacuum regulator VSD continues this tradition. You will find it easy to install – pre-wired and pre-programmed – and easy to use. Just set the vacuum level and press start. Plus, it is so powerful that you can run up to three drive units and vacuum pumps from one sensor. We are proud to offer you DeLaval vacuum regulator VSD.



Standard features

- Pre-programmed for milking: just set the vacuum level and start.
- Manual switch allows easy testing during installation and milk plant troubleshooting.
- Automatic restart in the event of line power/drive disturbances.
- Easy to install: the stainless steel sensor comes pre-wired, allowing for optimal vacuum measurement near the receiver.
- Modular design, with one sensor that can run up to three vacuum pumps.
- Models for vacuum pumps from 5.5 kW (7.5 Hp) to 22 kW (30 Hp).
- DeLaval vacuum regulator VSD offers optimal results together with DeLaval vacuum pump LVP.

Many factors (liner slip, unit fall off, etc) can affect the vacuum level in your parlour. This is where DeLaval vacuum regulator VSD comes in. Easy to install and easy to use, it attaches to your vacuum pump and automatically monitors your system, quickly responding to any changes in airflow by varying the speed of the pump. The result? Unprecedented control and the steadiest, most accurate vacuum level. In fact, used in conjunction with DeLaval vacuum pump LVP, it is the smoothest-running variable speed drive on today's market.



Vacuum response of 11 kW LVP 4500 with 45.6 kPa vacuum: startup and 1700 l/min disturbance.

Data

Calculate the return on investment

With VSD price information from your local DeLaval representative, you can fill in the figures below.

Vacuum pump motor (kW)		_____
Number of vacuum pumps	x	_____
Running hours per day	x	_____
Electricity cost per kW	x	_____
Electricity cost per day	=	_____
Savings factor*	x	(0.4 or 0.6)
Saved electricity cost per day	=	_____
	x	365
Saved electricity cost per year	=	_____ **
VSD investment		_____
Saved electricity cost per year	÷	_____ **
Time for return on investment (years)	=	_____

Key

* Savings factor based on reduction of motor speed. Use 0.4 for systems dimensioned according to ISO standards, and 0.6 for systems dimensioned according to ASAE standards.

** Use the same figure.

“VSD has made a real difference in the barn, for the cows and the hands. For one thing, there’s a lot less noise. And there’s big savings on the electricity bill. Plus, I’ve definitely noticed that the somatic cell count has dropped, and the vacuum level is real steady. Then there’s maintenance. VSD is almost maintenance free, and that saves us a lot of trouble. I’m real satisfied with the VSD from DeLaval. It’s going real well.”

Frans Osinga, Dublin, Texas, USA

