



**VERDERAIR PURE**

Accessories

# VERDERAIR® PURE

## Accessories

To achieve even more and broader possibilities with your Verderair Pure pump, Verder offers an extended line of accessories for the Verderair Pure double diaphragm pumps.

### Stroke Sensor (option SS)

To measure the number of strokes a pump is making, you can use the option SS (stroke sensor).

An inductive proximity switch is mounted in the centre part of the pump. This switch is generating a pulse with every stroke of the diaphragms. The switch can be connected to a controller (article number 6850001). This controller can show you the number of strokes the pump has made or can stop the pump after a preset number of strokes. The switches used are having Atex classification Ex II 2G EEx ia IIC T6.

### Remote Operated pump (option RE)

If you want to control the stroke frequency of your pump by using a solenoid valve, you can use option RE on the Verderair Pure pumps. The pumps with this option are having 2 air connections in direct contact with the air side of each diaphragm. The pumps are not having an air valve neither an air muffler. As the complete volume of air to operate your pump has to pass through the solenoid valve, we recommend to use a solenoid valve with the same size of air connections as the air connections of your pump.

### Manual draining (option DM)

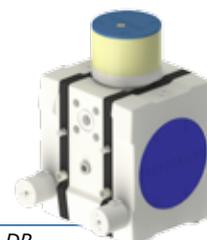
Because the valve balls or the conical valves are working as non return valves, liquid will be kept in the pump when the pump is stopped. To be able to evacuate the remaining liquid on top of the valves you can use the manual draining system on a Verderair Pure. Both side housings are equipped with a bypass system and a manual operated valve.



Options BS + DM

### Pneumatically draining (option DP)

Instead of using the manual draining system (option DM), pumps with option code DP are equipped with side housing with bypass system and pneumatically operated valves. By using a 4/2 electro-pneumatically valve, the draining system can be activated by an electrical signal.



Options BS + DP

### Barrier system (code BS)

Verderair Pure pumps with a barrier system are equipped with double liquid chambers and double diaphragms at each side. In the double liquid chambers, between the double diaphragms, a neutral liquid is placed. In each double chamber this neutral liquid is monitored by a conductive sensor (article number 6580004) and a capacitive sensor (article number 6580003). When a diaphragm fails, one of the sensors will detect this and will generate a signal. The sensors can be connected to a controller (article number 6580001)



Option BS

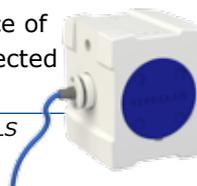




### Leak detection (code LS)

The diaphragms can be monitored by the assembly of a capacity sensor (article number 6580003) in the muffler of the pump. When a diaphragm fails, the liquid will enter the air side of the pump and will be blown into the muffler. The sensor will detect the presence of the liquid and generate a signal. The sensor can be connected to a controller (article number 6580001)

Option LS



### Important note

*This way of diaphragm monitoring cannot prevent liquid being pushed out of the pump via the muffler. To prevent this, the barrier system (option BS) needs to be used.*

### Prepared for pulsation dampener (code PD)

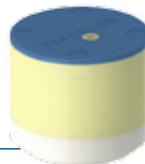
Every AODD pump will have a pulsating flow. To reduce the pulsations a dampener can be used. Verderair Pure is having a complete range of dampeners which can be used with pumps. (For more details see separate info on the VA Pure Dampeners). To be able to mount a VA Pure dampener on the pump, the center block needs to be turned 180° to have the extra center connection on top of the pump. When you are using the option code PD, the pump will be delivered with center connection upwards.

Option PD



### Pulse dampener

The Verderair Pure dampeners are active dampeners and achieve the best possible dampening effect to create an almost flat flow. They are available in the same sizes and materials as the Verderair Pure pump range.



*Note: Some of the above options can be combined in one pump. For those different possible combinations, a specific 2-digit code is used. Please check the coding options. If the combination of your choice is not mentioned, please contact your Verderair Pure specialist (can be found on [www.verderair.com](http://www.verderair.com)).*

### Possible options

- |                                       |                            |
|---------------------------------------|----------------------------|
| <b>AP</b> ANSI prepared               | <b>PL</b> PD + LS          |
| <b>BS</b> Barrier system with sensors | <b>RE</b> Remote           |
| <b>DM</b> Draining manual             | <b>SL</b> SS + LS          |
| <b>DP</b> Draining pneumatical        | <b>SS</b> Stroke sensor    |
| <b>LD</b> LS + MD                     | <b>VS</b> Vertical suction |
| <b>LS</b> Leak detection, sensor only | <b>PS</b> PD + SS          |
| <b>MD</b> DM + PD                     | <b>DB</b> DM + BS          |
| <b>PD</b> Prepared for dampener       |                            |

Example: VA-P25EE EE TF TO TN **LS**



**Any questions?** You may still have questions and/or comments after reading this brochure. For more information, please visit our website [www.verderair.com](http://www.verderair.com) or contact your local supplier.