

# 01D140 DIAPHRAGM PUMP

## PREVENTATIVE MAINTENANCE



### FOR 01D140 / 01D140E DIAPHRAGM PUMPS

#### MAINTENANCE SCHEDULE

- Prepare maintenance plan on the basis of the service life of the pump.
- Such a plan with maintenance intervals is particularly important to reach a small operation of the pump.



01D140 DIAPHRAGM PUMP



#### WARNING

**Before any intervention, it is imperative to follow the pressure relief procedure and safety instructions.**



#### WARNING - RISK OF INJURY

- Maintenance operations should only be carried out by qualified personnel.
- Wear personal protective equipment (PPE).



#### WARNING

**Hazard to persons due to trapped compressed air and pressurized medium.**

- Do not maintain or clean the pump, hoses or outlet valve while the system is pressurized.
- Depressurize the pneumatic part and the liquid part prior to working on the pump.
- Isolate the compressed air supply and wait until the residual pressure has dissipated via the compressed air outlet valve.
- Empty the pump before replacing components.



#### WARNING

**Hazard to person(s) due to fluids (media) squirting out.**

- Ensure that the material hoses and other components are able to withstand the hydraulic pressure generated by this pump.
- Check the pump regularly for damage or wear.
- Ensure that the pneumatic valve, the outlet area for the compressed air and the suction and pressure side for the medium are clean and functioning correctly.
- Depressurize the pump before dismantling. Under certain circumstances, a small amount of residual pressure can remain in the pressure chamber causing medium to squirt out.
- Please observe the safety data sheets of the previously conveyed chemicals when performing disassembly work on the pump.
- Depending on the operating conditions and the operating mode of the pump, fluid may escape from the silencer in the event of a diaphragm failure.  
The released product may accumulate inside the pump and be released into the environment during prolonged malfunction.  
Therefore, the necessary safety measures must be taken during operation, maintenance and repairs depending on the product.



#### WARNING

**Hazard to persons due to insufficient lighting.**

**Only carry out installation work on the pump in a sufficiently lighted & air-conditioned environment.**

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### FOR 04D140 DIAPHRAGM PUMPS



04D140 DIAPHRAGM PUMP

#### MAINTENANCE SCHEDULE

- Prepare maintenance plan on the basis of the service life of the pump.
- Such a plan with maintenance intervals is particularly important to reach a small operation of the pump.



#### WARNING

**Before any intervention, it is imperative to follow the pressure relief procedure and safety instructions.**



#### WARNING

**Personnel are in danger due to enclosed compressed air and pressurized medium!**

- Do not service or clean the pump, hoses and the outlet valve for the compressed air while the system is pressurized.
- Before performing tasks on the pump de-pressurize the pneumatic section and the fluid section.
- Shut off the compressed air supply and wait until the residual pressure is dissipated via the outlet valve for the compressed air.
- Empty the pump before replacing components.



#### WARNING

**Hazard for personnel due to spraying fluids (media)!**

- Ensure that the material hoses and other components can withstand the fluid pressure generated by this pump.
- Check the pump for damage or wear on a regular basis.
- Ensure that the pneumatic valve, the outlet area for the compressed air and the suction side and pressure side are clean and functioning effectively for the medium.
- Depressurize the pump before dismantling. Under some circumstances, a slight residual pressure may still be present in the pressure chamber causing the medium to eject.
- For dismantling tasks on the pump comply with the information in the safety data sheets of the previously pumped medium.
- Depending on the operating conditions and the mode of operation of the pump, medium can escape at the silencer in the event of a diaphragm rupture.

The released medium can accumulate inside the pump and be released into the environment during longer faulty operation.

Therefore, necessary safety measures are to be taken during operation, maintenance and repair depending on the medium.



#### WARNING

**Personnel are in danger due to improper installation!**

- Installation tasks must only be executed by trained personnel.
- Wear personal protective equipment (PPE).



#### WARNING

**Personnel are in danger due to inadequate lighting!**

- Only perform installation tasks on the pump in an adequately illuminated and air-conditioned environment.

The double diaphragm pump is resistant to wear except for high-pressure diaphragm. The quality of the compressed air supply, the characteristics of the pumped media (such as abrasiveness, viscosity, etc.) and the operating conditions can negatively influence the service life of the pump.

Consequently, we recommend regular inspection of the pump and the pump valve.

Nevertheless, should a fault occur, or if the delivery capacity decreases, you can perform the following tasks:

- Replace the high-pressure diaphragm
- Clean the liquid valves
- Replace the steels
- Clean and grease the pneumatic valve

