

Maintenance and servicing of sera dosing pumps



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- Target group:** Operating personnel and service technicians who use, start up, install and service **sera** dosing pumps. Personnel responsible for the commissioning, maintenance and servicing.

- Learning objectives:**
 - Mechanical and hydraulic fundamentals which are used for dosing pumps
 - Professional use of a dosing pump
 - Maintenance and service work according to the operating instructions

- Practical exercises:**
 - **Pump valves**
 - Disassembly of the pump suction valve and pressure valve; assessment and detection of damage patterns
 - Assembly of pump suction valves and pressure valves
 - **Pump body**
 - Disassembly and reassembly
 - Special characteristics of the integrated diaphragm overflow valve
 - **Replacement of the diaphragm**
 - Drive diaphragm with and without pressure plate
 - Multi-layer diaphragm
 - Intermediate diaphragm in case of old double diaphragm pumps
 - **Diaphragm rupture signalling**
 - diaphragm rupture electrode with electrode relay
 - pressure switch / pressure gauge for multilayer diaphragm pumps
 - **Built-in pump**
 - Disassembly and reassembly (Single diaphragm pumps/ Multi-layer diaphragm pumps/ Piston diaphragm pumps)
 - **Stroke mechanism**
 - Oil change
 - **Stroke length adjustment**
 - Assembly and manual stroke length adjustment
 - **Damage diagnostics**
 - On the basis of defective components
 - **Commissioning and test run**
 - Diaphragm pump
 - Piston diaphragm pump with adjustment of the hydraulic valve
 - **Diaphragm overflow valves and diaphragm pressure retention valves**
 - Replacement of the diaphragm
 - Determine the set pressure on the test bench
 - **Diaphragm pulsation damper**
 - Replacement of the diaphragm
 - Filling the gas initial tension
 - **Discussion of the problems experienced by the participants**

- Duration:** 09.00 am to 3.00 pm

- Seminar documents:** Seminar documents, food/beverages, CD with **sera** product range, certificate of attendance

- Dates*:** on request

- Minimum number of participants:** 5 (dates for groups upon agreement)

- Participation fee:** 210,- €

Note: Please bring safety shoes with this workshop!

* The dates have been fixed so that they can be easily combined with our other trainings without additional arrival and departure.

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