Operation & maintenance

Vacuum spray tube degassing

Type Servitec 35-95

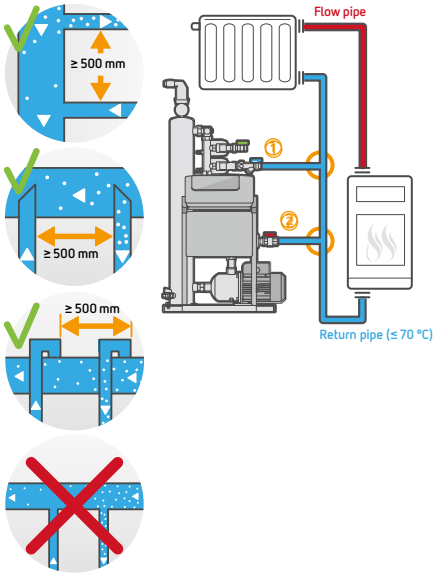
reflex experts No.
M80

Basics
Function
Operation & Maintenance

Check preconditions for commissioning*

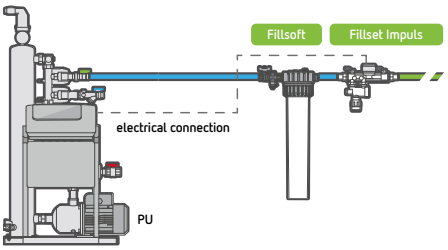
1 Hydraulic connection — System ↔ Servitec

- Preferably integrate the Servitec in the return pipe of the system.
- Carry out pipe connections as shown in the graphic to avoid dirt ingress.
- In the direction of flow, first connect the pipe (blue-coloured ball valve) ① with gas-rich water and then the pipe (red-coloured ball valve) ② with degassed water. Always maintain a distance ≥ 500 mm.
- Check: Plant system filled and properly vented.



2 Hydraulic connection — water make-up ↔ Servitec

- When making up water from the potable water system, a system separator type BA must be installed between the plant and potable water system.
  Example: Reflex Fillset Impuls
- Water make-up line with water treatment (e.g. Fillsoft type) — Ensure capacity monitoring
  - **Option 1:** Contact water meter for capacity monitoring via the Reflex Control Unit, see graphic on the right
    water make-up parameters see M81: **Initial commissioning**
  - **Option 2:** Fillguard / Fillmeter for capacity monitoring, see M30
  - **Option 3:** Keep a system logbook in accordance with e.g. VDI 2035 Part 1.
    Record the water meter count manually
- Optional: Water make-up from a mains separator tank.
  Tank must be installed ≥ 1,000 mm above the pump.
- **Important:** If it is unclear whether water treatment is necessary, see regional regular or legislation

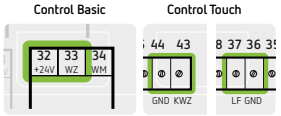


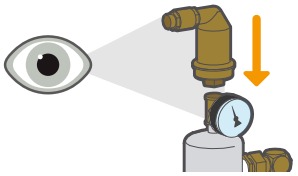
3 Visual check — Servitec

- Electrical connection is made correctly. Optional components (Fillset Impulse (KWZ)) are correctly connected in the control unit → Functional test after commissioning
- **Note:**
  Magcontrol: Operation with diaphragm pressure expansion vessel
  Levelcontrol: Operation with pressurisation station
  When using Levelcontrol, check electrical connection, see M81 + F21
- Quick air vent (here: Reflex Exvoid T) with back suction protection is mounted on the vacuum spray tube.
- Tightness test: Fill Servitec with system water
  - Open the red and blue ball valves.
  - Filling process until the vacuum gauge indicates system pressure.
- System and screw connections are tight — tighten accordingly in the event of leaks.
- **Note:** The Servitec is ready for initial commissioning as soon as the steps listed above have been checked and guaranteed.

SERVITEC
Signal input

WZ = (Contact) water meter
KWZ = Contact water meter
LF = Conductivity sensor





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Basics
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Initial commissioning*

4 Startup of the facility

Display	Function / Parameter	Operating
1. Equipment type	Servitec	
2. Language	Selection of menu language	
3. Please read manual before starting the facility!	(Important note)	
4. Select system	Servitec XX (35 / 60 / 75 / 95)	
5. Magcontrol <> Levelcontrol	Select function mode; see also F21	
Only for Magcontrol:		
5a. Safety valve actuation pressure in bar	Setting p_{SV} 2.5 ... 10 bar	
5b. Minimum operating pressure in bar	Setting $p_0 \geq p_{st}$+0.2 bar; see also B10	
6. Time	Format: hh:mm:ss	
7. Date	Format: dd.mm.yy	
8. Exit start routine?		

Control Basic
- Confirm menu items with Ok
- Select parameters and values with ▲ ▼
- Exit routine with selection **Yes** and Ok

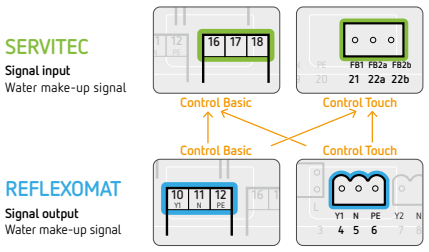
Control Touch
- Select parameters by clicking on the selection ⦿ or values with ▲ ▼ and confirm and save with OK
- Exit start routine with OK

Optional: Activate Fillsoft water treatment

If a Fillsoft water treatment system is present, it must be activated after the start routine in the water make-up (replenish) customer menu!

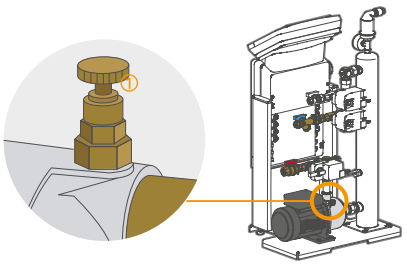
Display	Function / Parameter	Operating
1. Customer menu: Replenish		**Control Basic** ■ Confirm menu items with Ok ■ Adjust with ▲ ▼
2. With water meter	Yes / No (menu expands)	
3. Water preparation	NONE / SOFTENING / DESALTING	
4. Hardness reduction	Set according to the $°dH_{actual} - °dH_{target}$ Example: **Input:** 15° dH_{actual} – **target:** 0° dH_{target} = 15° dH	**Control Touch** ■ Select parameters by clicking on the selection ⦿ or values with ▲ ▼ and confirm and save with OK
5. Capacity soft water	**Softening:** Set 6,000 (Fillsoft I) / 12,000 (Fillsoft II) **Desalting:** Set 3,000 (Fillsoft Zero I) / 6,000 (Fillsoft Zero II)	Read the value: **Control Basic:** Customer menu water make-up quantity and remaining soft water capacity **Control Touch:** Water make-up quantity and remaining soft water capacity can be read off the display

- **Note Operating mode Levelcontrol** (see M80):
  The electrical connection between the Servitec and the pressurisation station (e.g. Reflexomat) has been made correctly.
- **Tips & tricks:**
  The correct function of the water make-up can be tested in manual operating mode. For this, simply start the water make-up in **manual mode** on the control unit of the pressurisation station.
  Control Basic: Activate **WV**
  Control Touch: Activate **WV**



5 Vent the pump

- To vent the pump, the Servitec must be completely filled with water, see M80 point 3.
- Open the vent screw ① on the pump and close it again if water flows out.
- Start and stop the pump briefly with the venting screw closed in manual mode using the **SE** system degassing function (Control Basic) or using the **Circulate** button (Control Touch) — open the venting screw and vent the air.
- Repeat this procedure until bubble-free water comes out immediately.



Commissioning is complete

- The system can now be set to automatic mode. A 24 hours continuous degassing cycle starts (factory setting). After continuous degassing, the Servitec automatically switches to interval degassing.

* Only guide for the installation and operating manual

aftersales@reflex.de ■ www.reflex-winkelmann.com/en