

Assembly Instructions M8153-EN

Spare part Sonic transducer (O/ID T27817)

Purpose

Replacement of Sonic transducer (BB 1, BB 2)

Precondition



WARNING!

Danger for unauthorized persons!

Conversion work may only be carried out by specialist staff who have been trained accordingly.

Therefore:

- Keep unauthorized persons away from the work area.



NOTE!

Knowledge of the Instruction Manual is a precondition for carrying out conversion work on the unit.

Procedure



DANGER!

Danger to life caused by electric current!

Touching conductive parts causes a direct danger to life.

Therefore:

- For all work on the electrical system, for maintenance, cleaning or repair work, disconnect from the mains or disconnect all phases of the external power supply and secure them against being switched on again. Check unit is isolated from power supply.



WARNING!

Danger of crushing due to rolling away or tipping

With an uneven floor or when the castors are not locked, there is a danger that the unit tips over or rolls away causing crushing.

Therefore:

- Only install the unit on an even floor.
- Ensure that the castors are locked.

1. Proceed as follows in order to cool down the unit and empty the mould (mould evacuation)
 - Display menu page **Functions**.
 - Select the function **Cooling** and activate with the **OK** key.
 - Select the function **Mould evacuation** and activate with the **OK** key.

→ The activated function is indicated with the **✓** symbol.
2. Main switch off, remove the plug from the mains and empty the unit.
3. Remove the cover from the unit (see Instruction Manual Chapter Maintenance).



WARNING!

Bolted assemblies, combinations of stainless steel / stainless steel or steel / stainless steel can seize up. This results in difficulties in dismantling.

Therefore:

- Use a suitable lubricant.

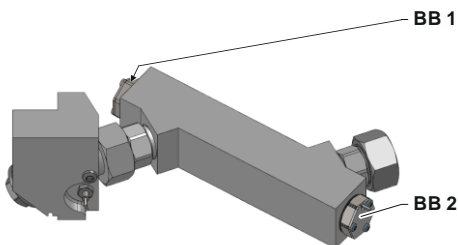



Fig. 1: Working section 200/230 °C

4. Proceed as follows in order to replace the sound transducer (BB 1, BB 2):
 - Unplug cable to sound transducer on flow measuring board DFM-53 (A 9) socket X 540 or X 541.
 - Detach sound transducer (BB 1, BB 2).
 - Transfer the cable labelling of the old sound transducer to the new sound transducer.
 - Mount new sound transducer (BB 1, BB 2) with torque 80 Nm.
 - Plug in cable to sound transducer on flow measuring board DFM-53 (A 9) socket X 540 or X 541.
5. Reconnect mains plug and switch on main switch.
6. Press the **⏻** key to switch on the unit and check it for leaks.

Service ▶ Calibrating ▶ Flow rate		
Tolerance pump condition		30%
Flow rate internal offset		0.0 L/min
Flow rate internal ascent corr.		0.0 %
Flow rate internal filter		10 s
Flow rate calibration DFM-53		ON
1 Main line	40.0 °C	Normal operation
Flow rate	18.6 bar	

Fig. 2: Calibrating the flow rate DFM-53

7. Flow rate calibration

- Operate unit in regular mode at 40 °C for at least 10 minutes.
 - Set **Pressure relief with unit OFF** parameter in **Setting \ Miscellaneous** to "OFF".
 - Switch off unit using  button and wait at least 10 seconds.
 - Set **Flow rate calibration DFM-53** parameter in **Service / Calibrating / Flow rate** internally to "ON".
- The flow rate is calibrated automatically.
- Set **Pressure relief for unit OFF** parameter in **Setting \ Miscellaneous** to "ON".

8. Check flow rate calibration:

- After calibration, run the unit for at least 5 minutes at 40 °C in normal mode.
- Close shut-off valve between feed and return lines.
- Flow rate switches to 0 l/min and alarm indication 'Flow rate zero' is given.



NOTE!

The alarm message 'Flow rate zero' is delayed in time.

- If this is not the case, repeat the flow rate calibration.




ATTENTION!

Risk of incorrect calibration!

False calibrations can lead to faults with the unit.

Therefore:

- Check the calibrations.

- 9. Switch the unit off by press the  key.

- 10. Main switch off.

- 11. Close the unit correctly again.

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Parts list

Pos	Description	O/ID	Pcs
01	Sonic transducer water up to 230 °C, 1,45 m	T27814	1
02	Assembly instruction German	M8153-DE	1
03	Assembly instruction English	M8153-EN	1
04	Assembly instruction French	M8153-FR	1