

Machines

Machine	TASKI Foam Generator 100-120V
Subassembly	Tank

Magnetic valve with new coil and external rectifier

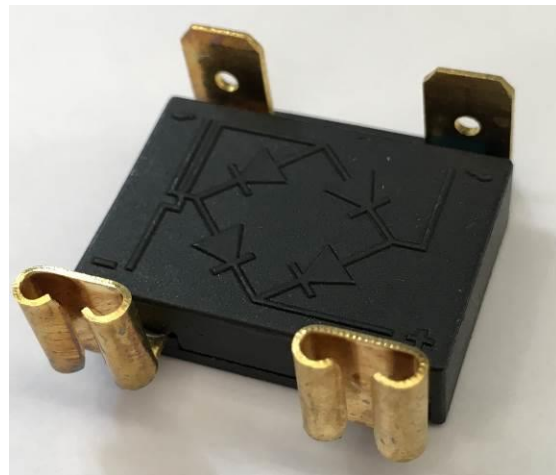
Although intensive internal checks and tests of the magnetic valve are done, it still shows a high failure ratio. A project to reduce the failures has been launched. The main focus has been set on the coil and the rectifier.

Coil:

A supplier who is able to deliver a coil of the needed quality has been found. In addition has the insulation class of the coil been increased from class F (155°C) to class H (180°C).



New Coil, higher value



External rectifier

Rectifier:

Until now was the rectifier moulded onto the coil on the magnetic valve. Internal analyses of the returned defective valves have shown that the common-mode failure can be found in the connection between coil and rectifier. An in-depth analysis of an external testing laboratory has confirmed our findings.

As not all the current/old valves are failing during our extended internal test. We assume that the issues have been related to an uncertainty in the manufacturing process in combination with the heat of the coil, which is generated during operation. Those two factors are heavily influencing the lifetime of the coil-rectifier connection.

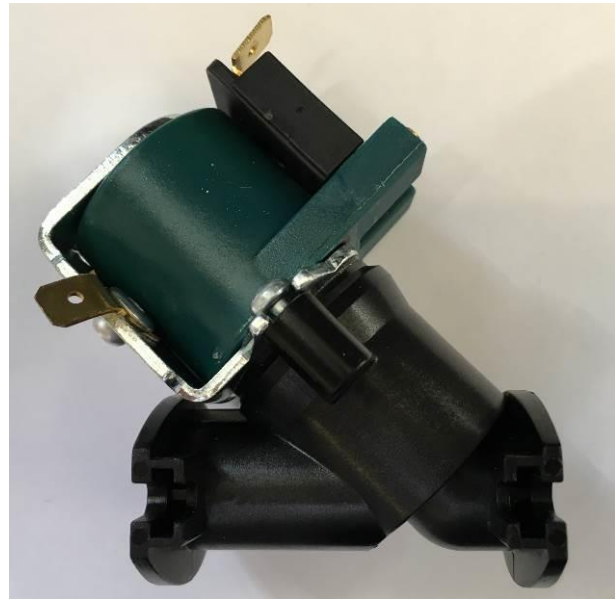
Based on the analysis and the experiences has the rectifier been separated from the coil on the new valve generation.

The new generation of the magnetic valve went through extensive internal and external testing procedures. They have successfully passed a long-term test of 512 hours (30min On / 30min Off) without failure.

In connection with the separation of the rectifier the cover to protect the connections had to be modified. The old cover will not fit onto the new valves.



New magnetic valve foam generator



New magnetic valve swift 35 / rotated by 90°

Description	Material number	Remarks
Magnetic valve set 100-120V 50-60Hz	4127951 (17609-35)	Existing spare part number

Service Information

- | | |
|--|---|
| ☐ Check parts on stock | ☐ Return defective parts to Münchwilen |
| ☐ Proactive exchange recommended | ☒ NO proactive exchange recommended |
| ☒ Modification is backwards compatible | ☐ Modification is NOT backwards compatible |
| ☐ Update/modify machines in the field | ☐ Entitled to warranty |
| ☐ Dispose/recycle defective parts | ☒ Parts are available ex stock Münchwilen |
| ☒ Others | |

If a new magnetic valve will be built into a TASKI swift 35 the coil needs to be rotated by 90° so that the connections will become accessible.

Production

TASKI Foam Generator

as of machine number 45259