



Thinking solutions.

Function

# Degassing systems

Type Servitec (Vacuum spray tube degassing)

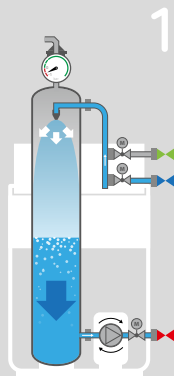
reflex+  
experts No.

## F20

### Vacuum generation (Draw vacuum)

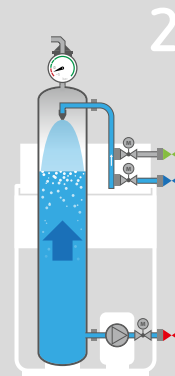
The pump switches on, the water level drops and a vacuum is created in the vacuum spray tube.

The system water (optionally make-up water) is finely sprayed into the generated vacuum, whereby the dissolved gases are released due to the negative pressure and the large contact surface.



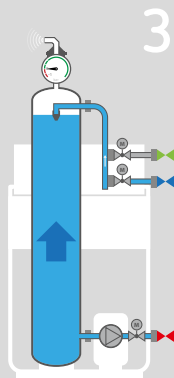
### Degassing

After the pump switches off automatically, system or make-up water is sprayed into the vacuum through the nozzle. The vacuum spray tube fills up.



### Ejection

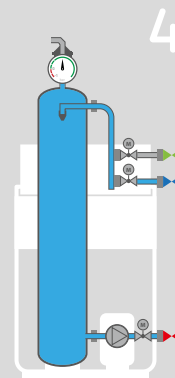
All gases vented and collected on the surface of the water column are now safely discharged via the automatic quick venting valve equipped with a back-suction safety device, due to the overpressure in the system.



### Stand still time

System pressure now prevails again in the completely filled vacuum spray tube.

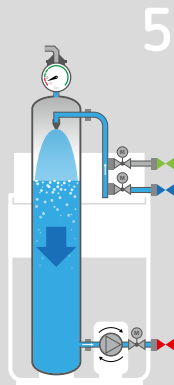
The system water in the vacuum spray tube is almost gas-free and is pumped into the system during the next degassing cycle. Here it can again be enriched with gases present in the system.



### Water make-up

When the make-up water request is active, the connection to the make-up water supply is opened by a motorised ball valve and the system supply is closed at the same time. Negative pressure generation (drawing vacuum) is then started again (see Fig. 1). The gas-rich make-up water is degassed.

The pump is switched off and the degassing and make-up act as shown in Figs. 3 and 4.



Films on the function of this and other products can be found at:

[www.reflex-winkelmann.com/en/services/documents-and-videos](http://www.reflex-winkelmann.com/en/services/documents-and-videos)



Basics

Function

Operation & Maintenance



Thinking solutions.

Function

# Water make-up systems

Function mode Magcontrol/ Levelcontrol

reflex+ experts No.

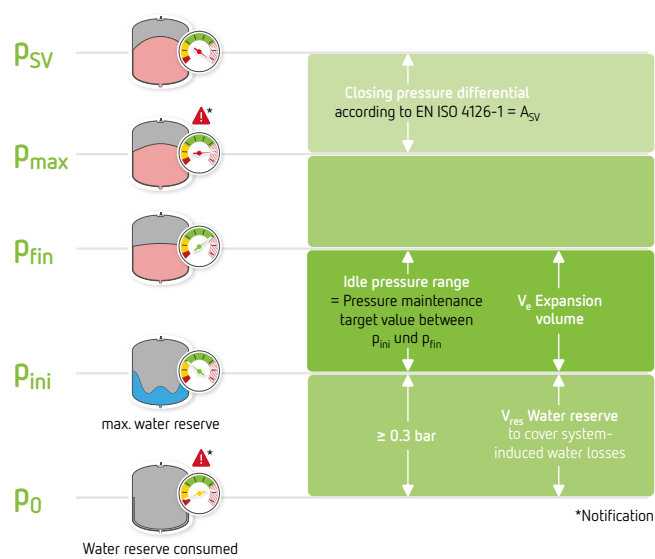
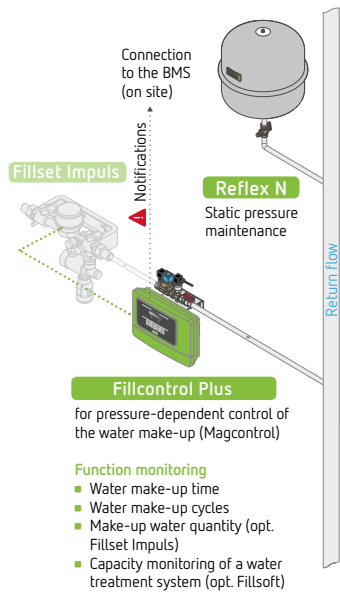
## F21

Basics

### Function mode Magcontrol

for systems with membrane expansion vessel and pressure-dependent automatic water make-up

Installation example



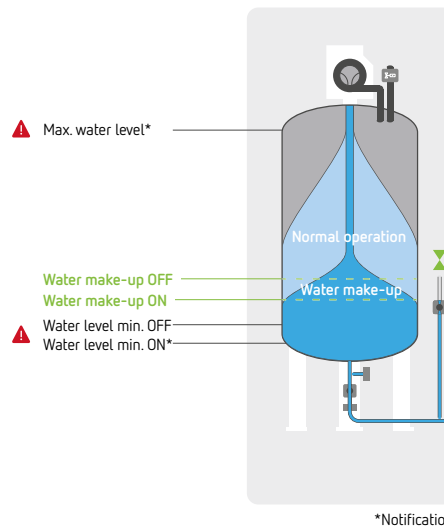
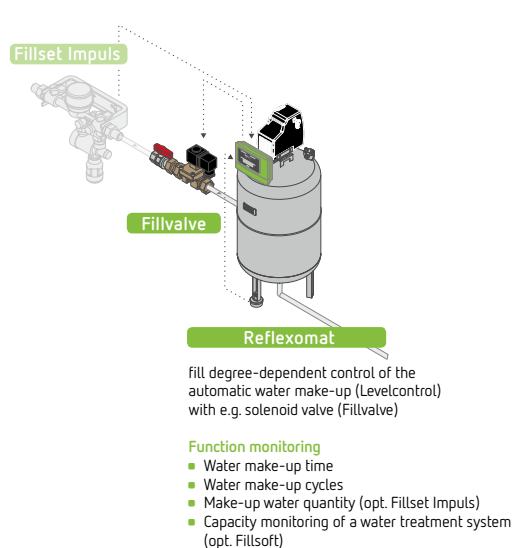
Pressure definitions → Expert card B10

Function

### Function mode Levelcontrol

for pump- or compressor-controlled pressurisation stations with fill degree-dependent water make-up

Installation example



Operation & Maintenance