

Service Bulletin

Priority RED

No 18 rev 1 2014-11-19

Operation of MAG flow meter affected by piping arrangement to WhiteBox®.

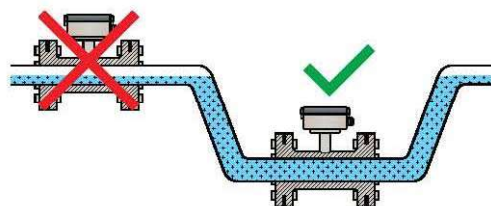
System:

WhiteBox® system models from serial number 51000 and systems where the MAG 5000 flow meter have been retrofitted.

Background:

Following reports of flow meter issues in various White Box installations, Marinfloc has identified that some WhiteBox® Systems have been installed with a piping arrangement that may significantly affect the operation of the MAG 5000 flow meter. This type of flow meter cannot measure correctly if an air pocket develops within the measuring pipe. Marinfloc is releasing this service bulletin for clarification and explanation of the problem and to provide guidance for corrective actions.

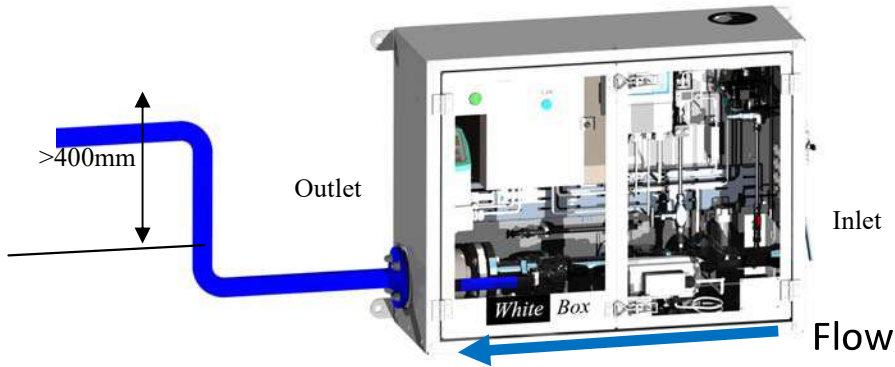
The MAG 5000 flow meter must be installed at a lower point in a pipe line in such way that it is completely filled with water at all times.



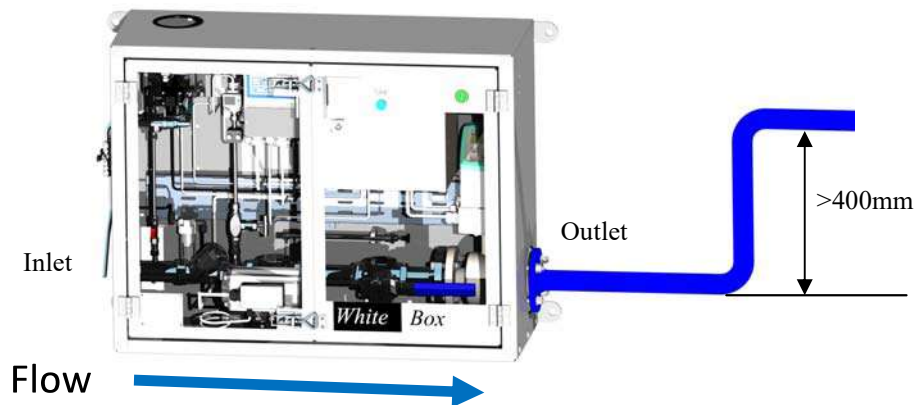
Corrective actions:

In order to ensure correct measurement by the flow meter, it is important that the WhiteBox® is installed so that no air pockets can develop inside the WhiteBox® piping. The configuration of the **inlet pipe does not affect** the flow meter, but **the outlet pipe** from the WhiteBox® must be configured as in the example below and must raise a minimum of 400 mm to ensure correct flow measurement. After this initial elevation the pipe can continue downward as convenient. If the WhiteBox® is already installed with a descending pipe, a gooseneck with a height of 400 mm needs to be installed to ensure correct flow measurement.

Correct installation of the outlet pipe from WhiteBox®



WhiteBox®
flow direction *right to left*



WhiteBox®
flow direction *left to right*

Don't hesitate to contact us if you have any questions or problems.

You can easily reach us by phone: +46 (0)304-606 300, fax +46-(0)304-100 51 or via e-mail to service@marinfloc.com.

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