

Dear Sir or Madam

The functionality of the FIVA, ELFI, ELVA and PEVA valves is to control, among others, the timing of the fuel injection on the electronically controlled ME-type engines.

Proper functionality of the proportional valve relies on clean hydraulic oil. This is ensured by a 6-micron automatic backflushing filter. However, the proportional valve may malfunction if unsuspected large particles enter the hydraulic system, e.g. following a maintenance job. A safety screen filter will protect the proportional valve against the large particles and, thereby, minimise the risk of an untimed injection. An untimed injection could, for example, lead to a cylinder cover lift and, in a worst case scenario, pose a potential threat to the engine and persons around the engine.

The safety screen filter is a 100- μ m filter developed for electronically controlled ME-type engines. It is standard on newbuilding engines and is now also available as retrofit.

The filter is positioned in the multi-way valve units just before the inlet to the proportional valve, see Fig. 1. It ensures continuous operation of the multi-way valves by protecting the proportional valve from contaminants in the hydraulic oil. The filter is placed either in the valve housing or in the bottom piece. If it is placed in the housing, a new multi-way valve is required. If it is placed in the bottom piece, only this part needs to be replaced, and it can be done by the crew.

Inspection of the filter is required every 6,000 running hours. It is done easily as disassembling of the unit is not needed.


The safety screen filter is available as a retrofit. For further questions or to order the safety screen filter as retrofit, please write to: retrofit2S@man-es.com.

Spare parts for safety screen filters already installed can be ordered by writing to: primeserv-cph@man-es.com

Yours faithfully



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Action code: AT FIRST OPPORTUNITY

Safety screen filter

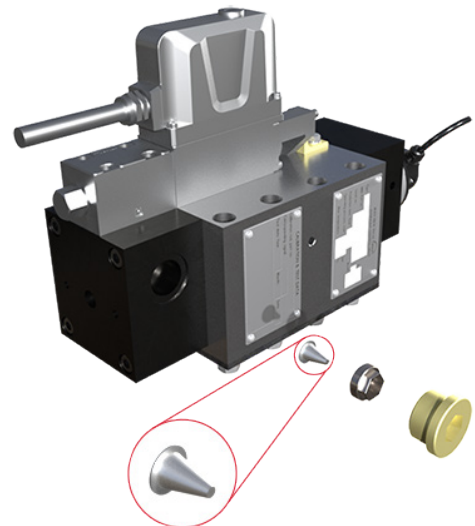
SL2021-709/MET
January 2021

Concerns

Owners and operators of MAN B&W two-stroke marine diesel engines. Type: ME/ME-C, ME-B, ME-GI/GIE and ME-LGIM/LGIP

Summary

Permanent flange-mounted safety screen filter with a mesh clearance of 100 μ m has been implemented on the FIVA, ELFI, ELVA and PEVA valves. It is standard on newbuilding engines and is available as retrofit.



MAN FIVA with the bottom piece and safety screen filter