

Subject: PEFS F3 replacement nozzle caps – Wave washers

Product: PEFS F3

Parts: 46125 (BM11W Foil Nozzle c/w Cap and Shroud) & 46127 (Replacement F3 Foil Cap)

The PEFS F3 discharge nozzle is a brass BM11W foil rupture nozzle fitted with a brass air aspirating shroud for improved foam blanket generation. Two (2) wave washers are fitted to the assembly to restrict any shroud movement that might occur due to machining tolerances or vibration from the equipment that it is protecting. The nozzle incorporates a brass foil seal to prevent ingress of dirt and grease. Upon system discharge, the foil seal is designed to rupture allowing the nozzle to discharge foam solution.

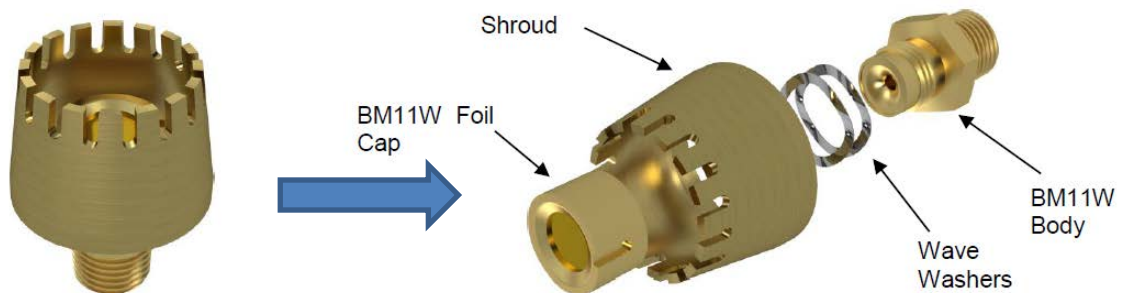


Figure 1 – Part # 46125

Feedback from the field would indicate that additional wave washers are required when fitting replacement F3 foil caps – Part # 46127.

Our internal investigation has shown that if additional wave washers are not fitted with the replacement caps, there is a risk that the shroud (See Figure 1) will become loose over a period time and could cause wear damage to the body of the nozzle.

The PEFS F3 nozzle cap is a spare part that incorporates a foil seal. The foil seal is secured by an additional insert (See Figure 2 – cap on the right) which allows the foil seal it to be handled and fitted in the field.



Figure 2 – Caps with foils removed

With the majority of nozzle caps that were tested, the width of the insert was preventing the cap from screwing down and securing the shroud. The additional wave washers are required to fill the gap (Figure 3). Additional vibration and shock testing has been carried out on nozzle assemblies and the results show that up to 5 washers can be used to secure a replacement cap.



Figure 3 – Washers to be packed



Figure 4 – Washers fitted

Wave washers are currently available as a spare part - #94255. As of September 2019, three (3) additional washers will be supplied for each replacement F3 cap – Part # 46127 (MOQ x 10).



Figure 5 – 30 x Washers per pack of 10 Caps

The recommended torque setting when fitting the F3 nozzle cap (Part # 46127) is **4-5Nm**

Action: When servicing PEFS F3 systems, do not fit replacement caps unless enough washers can be used to secure the shroud. If washers are not available, the whole assembly should be replaced with Part # 46125

Effective Date: Immediately

Issue Date: November 2019