

Issue No: IB210902

Subject: PEFS nozzle guide

**Issue Date:** 22/09/2021

Chubb Fire and Security Pty Ltd offer three different pre-engineered foam spray systems for the protection of mobile and transportable equipment from fire.



- Uses a C6 chemistry firefighting foam (AFFF)
- Developed in response to the withdraw of C8 chemicals
- · Similar in design to our first PEFS system and uses the same nozzles

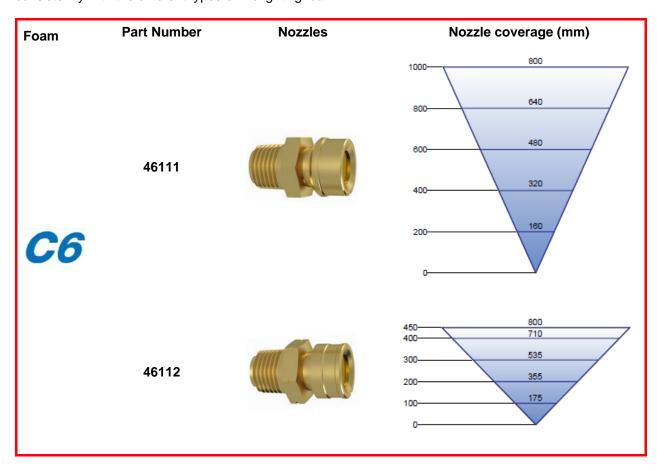


- Uses a fluorine free foam (F3) that is mixed before use
- Developed in response to the QLD foam policy which banned the use of C7> chemistry AFFF
- Uses a specially designed nozzle



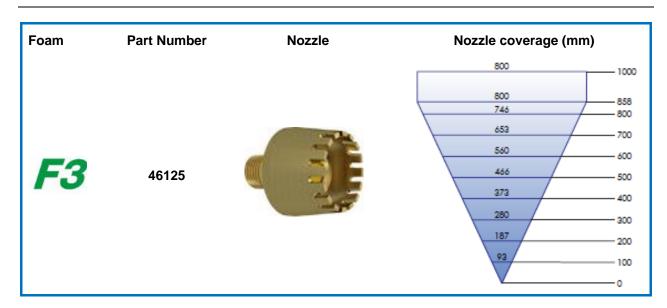
- Uses a "Newtonian" F3 that does not require mixing
- Similar in design to our first PEFS system
- Uses a specially designed nozzle

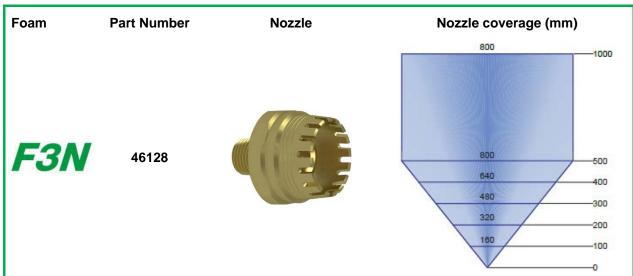
Each system uses discharge nozzle assemblies that have been designed and tested to work effectively, and consistently with the different types of firefighting foam.





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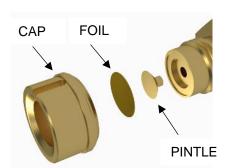




All nozzles are supplied with metallic foil seals that release upon system discharge at very low pressure.

The brass foil is very thin and could easily be damaged by such things as high pressure water jets used from steam cleaning equipment. The foils are internally supported by a pintle.

The design of the nozzle cap alleviates problems which can be experienced with plastic style caps which are prone to deterioration when exposed to flames, or high ambient temperatures.





PEFS F3 and F3N nozzle foils can be replaced in the field

The replacement caps have a different design to the caps that are supplied with the complete nozzle assemblies.

A replacement cap incorporates a new pintle and foil seal, secured by an additional insert which allows the replacement unit to be handled and fitted in the field.



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Replacement caps are supplied in packs of 10.

Each cap is fitted with a transport cap that must be removed before use.

The transport caps are supplied in different colours.

- Black for PEFS F3
- Green for PEFS F3N

PEFS F3N replacement caps are smaller in height than PEFS F3 caps.

The threads on all the nozzle bodies and caps are identical, but they are not interchangeable.

Only use the replacement cap that is specified in each system's design manual.





PEFS C6 nozzle foils and caps cannot be replaced in the field.

Nozzles in service are either replaced with new units or exchanged with ones that have already been refurbished.

For C6 nozzles, it is recommended that foils and pintles are replaced in a clean environment. More detailed instructions for replacing foils and caps are available on request.

Special removal tools are available for cap replacement

Part Number	Description
95005	Combination T-handle and 1/4' drive socket
95004	¼' drive socket



The C6 nozzle (46111) is also used as ingress protection for pneumatic actuation devices that are used in all 3 systems.







Important: No other nozzle types can be used in these devices. Replace the nozzle after use.



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#### **Nozzle parts**

Part Number	Description	
PEFS C6		
46111	C6 NOZZLE SURESPRAY BM17N	
46112	C6 NOZZLE SURESPRAY BM16W	
PEFS F3		
46125	F3 NOZZLE c/w CAP & SHRD	
46127	F3 REPLACEMENT FOIL CAP	
46503	F3 SHROUD	
94255	F3 WAVE WASHER	
PEFS F3N		
46128	F3N NOZZLE c/w CAP & SHRD	
46129	F3N REPLACEMENT FOIL CAP	
TOOLS		
95005	T HANDLE & 1/4" SOCKET TOOL TO SUIT	
95004	SOCKET TOOL 1/4 DRIVE SS TO SUIT SHROUD	