



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
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Product designation

Bulbeck Stryker, Model BF5062, pre-engineered LOP foam fire system

(Refer to the Schedule/enclosures for further specified details)

Agent/distributor

BFI Fire Pty Ltd
108A Munibung Rd, BOOLAROO, NSW, AUSTRALIA, 2284

Registrant

BFI Fire Pty Ltd
108A Munibung Rd, BOOLAROO, NSW, AUSTRALIA, 2284

Producer

BFI Fire Pty Ltd
108A Munibung Rd, BOOLAROO, NSW, AUSTRALIA, 2284

Conformance criteria and evaluation

The Bulbeck Stryker, Model BF5062, pre-engineered LOP foam fire system has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 5062-2006, 'Fire protection for mobile and transportable equipment'.

Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are derived from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Specified limitations/conditions, determined from the evaluation for conformity, include the following.

- i. System operating temperature range is 0°C to 70°C.
- ii. 0 to 100% relative humidity.
- iii. Environment – non corrosive for standard component materials.
- iv. Slope or gradient – important for alignment of cylinders. Cylinders should not be within 15° of horizontal or siphon tubes may not access the design quantity of agent.
- v. Cylinders shall be pressurized to 1,350kPa at 21°C.

This certification is issued within the scope of CSIRO Verification Services – Rules governing ActivFire Scheme and is valid only for the product(s) as submitted for evaluation and verification of conformity, subject to the following conditions.

- Reference to details, limitations and requirements, where documented as a schedule/enclosure with this certificate.
- The Registrant is responsible for their attestation of conformity and ensuring that on-going production complies with the conformance criteria defined in this certificate.
- This certificate will not be valid if any changes or modifications are made to the product which have not been notified and validated by CSIRO Verification Services.
- This certificate is subject to periodical re-validation upon verification that all requirements, as determined by the conformity assessment body, continue to be satisfactorily met by the Registrant.
- This certificate may only be reproduced in its published form, without modification and inclusive of all schedules/enclosures.
- Any changes, errors or omissions, must be submitted in writing and if necessary or requested, substantiated with relevant evidence.
- Any representations, such as advertising or other marketing related activities or articles shall reflect the correct contents of this certificate and conform with all relevant trade practices and consumer protection legislation and regulations.
- Any terms or conditions of use as applicable to content and documentation as published or accessed through web sites administered by the CSIRO Verification Services.

Issued by

David Whittaker
Executive Officer – ActivFire Scheme



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Producer's description

The Bulbeck Stryker, Model BF5062, pre-engineered LOP foam fire system is a Loss of Pressure (LOP) system with fixed nozzle installation for protection of "off road" vehicles. Manufactured in Australia, this system is designed specifically to cope with the harsh operating conditions experienced by mobile and transportable equipment.

The Bulbeck Stryker, Model BF5062, pre-engineered LOP foam fire system consists of pressurized cylinders containing foam solution, actuation devices to initiate discharge and a discharge network containing nozzles to direct the foam spray on the hazard.

The Bulbeck Stryker, Model BF5062, pre-engineered LOP foam fire system provides fire suppression capabilities through the combination of foam discharged in the form of a finely atomized spray. Strategically positioned nozzles direct the high velocity foam spray and provide "three dimensional" fire fighting properties, allowing the system to suppress pressure fires such as might occur from a ruptured fuel or hydraulic line. The small droplets of foam are extremely efficient at absorbing large amounts of heat and turn to steam which further enhances the three dimensional fire fighting properties of the system. Once discharged, the foam is also effective in suppressing spill or pool fires which may result from the collection or leakage of fuel. The resulting foam blanket provides post fire securement.

The Bulbeck Stryker, Model BF5062, pre-engineered LOP foam fire systems are suitable for use to combat Class A and Class B fires when storage cylinders are maintained in a temperature range of 2°C to 60°C. The extinguishing agent, AFFF or F3 (Fluorine Free Foam), is delivered from the agent container through a hydraulic hose / stainless steel tube network and fixed-orifice spray nozzles onto the fire-prone surfaces / areas. The spray nozzles are located and aimed such that they provide direct droplet impingement and full coverage of selected fire hazards in the risk area protected.

Technical specification

The following details are a representative extract of the technical specification for the Bulbeck Stryker, Model BF5062, pre-engineered LOP foam fire system and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Schedule of components (extinguishing concentrate)

The following is a schedule of validated components (extinguishing concentrate) of the certified/listed equipment.

Trade brand	SDS Product Name	Type	Supplied/Installed as	Part number / SDS
Seaguard	Seaguard Master Foam 6%	Aqueous Film-Forming Foam (AFFF)	concentrate/solution	BFS-0143
StrykerGreen	Stryker Green F-Free Foam	Fluorine Free Foam (F3)	concentrate/solution	BFS-0113-G

Schedule of components and/or assemblies (mechanical)

The following is a schedule of validated components and/or assemblies (mechanical) of the certified/listed equipment.

Description	Part number
23 litre cylinder	BFS-0001
30 litre cylinder	BFS-0002
45 litre cylinder	BFS-0003
65 litre cylinder	BFS-0004
106 litre cylinder	BFS-0005
Heavy duty cylinder support 23L	BFS-0006
Standard cylinder support 23L	BFS-0006-A
Heavy duty cylinder support 30L	BFS-0007
Standard cylinder support 30L	BFS-0007-A
Heavy duty cylinder support 45L	BFS-0008
Standard cylinder support 45/65L	BFS-0008-A
Heavy duty cylinder support 65L	BFS-0009
Heavy duty cylinder support 106L	BFS-0010
Standard cylinder support 106L	BFS-0010-A
Valve assembly	BFS-0011
Rupture disc assembly	BFS-0012
Plastic caps for rupture disc	BFS-0012-A
Fill plug	BFS-0012-B
Pressure gauge	BFS-0013-A

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Description	Part number
23L flex syphon tube	BFS-0014
30L flex syphon tube	BFS-0015
45L flex syphon tube	BFS-0016
65L flex syphon tube	BFS-0017
106L flex syphon tube	BFS-0018
Mount combination mobile M10440	BFS-0019-A
Mount combination mobile M10740	BFS-0019-B
Nipple 1.1/16JIC x ¾ BSPT	BFS-0020
Nipple 1.1/16JIC x ¾ BSPT brass	BFS-0020-B
¾" Discharge Hose	BFS-0021
Hose tail-1 piece 1.1/16 JIC F x 3/	BFS-0022-C
Hose tail-1.1/16 JIC F x ¾ ID HOS	BFS-0022-R
Hose tail-2 piece 1.1/16 JIC F x ¾	BFS-0022-S
Hose tail-1 piece 1.1/16 JIC F 45 x	BFS-0023-C
Hose tail-2 piece 1.1/16 JIC F 45 x 3	BFS-0023-S
Hose tail-1 piece 1.1/16 JIC F 90 x 3	BFS-0024-C
Hose tail-2 piece 1.1/16 JIC F 90 x 3/	BFS-0024-S
Tee ¾ x ¾ x 1.1/16 JIC M	BFS-0025
Tee ¾ x ¾ x 1.1/16 JIC M brass	BFS-0025-B
Bulkhead 1.1/16 JIC M/M	BFS-0026
Bulkhead 1.1/16 JIC M/M brass	BFS-0026-B
Nylon hose protection sleeve -28 mm	BFS-0027
½ discharge hose	BFS-0028
Hose tail – 1 piece ¾ JIC F x ½ HO	BFS-0029-C
Hose tail – field attach ¾ JIC F x	BFS-0029-R
Hose tail – 2 piece ¾ JIC F x ½ HO	BFS-0029-S
Nylon hose protection sleeve -19 mm	BFS-0030
Hose tail – 1 piece ¾ JIC F 45 x ½	BFS-0031-C
Hose tail – 2 piece ¾ JIC F 45 x ½	BFS-0031-S
Hose tail – 1 piece ¾ JIC F 90 x ½	BFS-0032-C
Hose tail – 2 piece ¾ JIC F 90 x ½	BFS-0032-S
Tee ¾ JIC M	BFS-0033
Bulkhead ¾ JIC M/M	BFS-0034
Bulkhead ¾ JIC M/M Brass	BFS-0034-B
BR ¾ BM 17 foil nozzle	BFS-0035
BR ¾ BM 8 foil nozzle	BFS-0036
BR ¾ BM 16W foil nozzle	BFS-0037
Tee ¾ JIC M x BSPT F	BFS-0038
¾ BSPT M/F 45 deg	BFS-0039
¾ BSPT M/F 45 deg brass	BFS-0039-B
¾ BSPT M/F 90 deg	BFS-0040
¾ JIC F CAP	BFS-0041
Tee ¾ JIC M x 3/8 BSPT M	BFS-0042
Tee ¾ JIC M x 3/8 BSPT M brass	BFS-0042-B
Tee 3/8 BSPT F	BFS-0043
Tee 3/8 BSPT F brass	BFS-0043-B
3/8 BSPT M/F 90 deg	BFS-0044
Electronic pressure switch	BFS-0044-A
Socket M12/4pinned/angled	BFS-0044-B
3/8 x ¾ BSPT M/F reducer	BFS-0045
3/8 x ¾ BSPT M/F reducer brass	BFS-0045-B
3/8 BSPT x ¾ JIC 90 deg	BFS-0046
3/8 BSPT x ¾ JIC 90 deg brass	BFS-0046-B
Socket 3/8 x ¾ BSPT	BFS-0047
3/8 x ¾ BSPT M/F reducer	BFS-0048
3/8 x ¾ BSPT M/F reducer brass	BFS-0049

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¼ x 1/8 red bush	BFS-0049-B
Tee 3/8 BSPT F	BFS-0050
3/8 BSPT M/F 90 deg	BFS-0051
3/8 BSPT M/F 45 deg	BFS-0052
½ OD S/S tube	BFS-0053
¾ JIC Flare nut S/S	BFS-0054
JIC Flare nut sleeve s/s	BFS-0055
Nipple 1.1/16 JIC	BFS-0056
Nipple 1.1/16 JIC brass	BFS-0056-B
Nipple ¾ JIC	BFS-0057
Nipple ¾ JIC brass	BFS-0057-B
Socket ¼ BSPT	BFS-0058
Hose tail-1 piece 1.1/16 JIC M x ¾	BFS-0059-C
Hose tail-2 piece 1.1/16 JIC M x ¾	BFS-0059-S
Hose tail-1 piece ¾ JIC M x ½ HO	BFS-0060-C
Hose tail-2 piece ¾ JIC M x ½ HO	BFS-0060-S
1.1/16 JIC M/F 90 deg	BFS-0061
¾ JIC M/F 90 deg	BFS-0062
1.1/16 JIC M/F 45 deg	BFS-0063
¾ JIC M/F 45 deg	BFS-0064
¾ BSPT-3/4 JIC nipple brass	BFS-0065
1/8 BSPT brass plug	BFS-0065-B
¾ BSPT brass plug	BFS-0066
Nipple ¼ BSPT	BFS-0067
Nipple ¼ BSPT brass	BFS-0068
¾ BSPT M/M 90 deg	BFS-0068-B
¾ BSPT M/M 90 deg brass	BFS-0069
¾ BSPT M/M 45 deg	BFS-0069-B
¾ BSPT M/F ext	BFS-0070
¾ BSPT M/F ext brass	BFS-0071
Tee ¼ BSPT F	BFS-0071-B
Bulkhead Tee 1.1/16 JIC M	BFS-0072
Bulkhead Tee ¾ JIC M	BFS-0073
1.1/16 x ¾ JIC F/M reducer	BFS-0074
Bulkhead ¾ JIC M 90 deg	BFS-0075
Bulkhead 1.1/16 JIC M 90 deg	BFS-0076
Comp.nut/union 6 mm tube-1/4 BSPT M	BFS-0077
6 mm SPIGOT	BFS-0079
Comp.nut/cap 6 mm tube-1/4 BSPT M	BFS-0079-A
Manual actuator	BFS-0080
Nipple ¼ BSPT M brass	BFS-0081
¾ BSPT M/F 90 deg brass	BFS-0082
Bulkhead ¾ BSPT F brass	BFS-0083
¾ BSPT 90 deg brass	BFS-0084
¾ BSP extr tee	BFS-0085
¾ BSPT F 45 deg brass	BFS-0085-B
¾ 45 deg fem elbow	BFS-0086
Tee ¼ BSPT F brass	BFS-0087
Socket ¼ BSPT brass	BFS-0088
Spring guard suit 6 mm	BFS-0089
6 port manifold block ¼ BSPT	BFS-0090
8 port manifold block ¼ BSPT	BFS-0091
Foam spray system main panel	BFS-0092-A
Remote mimic panel	BFS-0093-B
Battery back-up	BFS-0094-a
12V 7.2AH battery	BFS-0096

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Description	Part number
P-clip to suit discharge hose – ½"	BFS-00102
P-clip to suit discharge hose – ¾ "	BFS-00103
6 mm stainless clamp	BFS-0105
20 mm stainless clamp	BFS-0106
12.7 mm stainless clamp	BFS-0107
27 mm stainless clamp	BFS-0108
8 NB 316SS ball valve SCRD BSPT	BFS-0112
¼ x 1/8 adaptor	BFS-0117
Striker in case of fire etc	BFS-0120
S/s sign in case of fire etc	BFS-0121
Sticker warning equip fitted w/a-a	BFS-0122
S/s sign warning equip fitted w/a-	BFS-0123
Sticker foam extinguishing system	BFS-0124
S/s sign foam extinguishing system	BFS-0125
Sticker Bulbeck fire auto foam fire	BFS-0126
Sticker Bulbeck fire auto foam fire	BFS-0127
Sticker warning this machine fitted	BFS-0128
S/s sign warning this machine fitted	BFS-0129
Nozzle BR-1/4" BM-F17-30 degrees	BFS-0130
Nozzle BR-1/4" BM-F8W	BFS-0131
Schraeder valve 1/8" BSPT	BFS-0132
3/16 suppression hose (detection)	BFS-0133
Nozzle brass ¼ BM 8N-B	BFS-0134
Nozzle brass ¼ BM 17N-B	BFS-0135
Nozzle brass ¼ BM 16W-B	BFS-0136
Protect cap BR 14 mm c/w LANYARD & O	BFS-0137
7/16 JIC brass field attachable 2 PI	BFS-0138
3/8 x ¼ red elbow brass	BFS-0139
¼ x 1/8 flare elbow	BFS-0140
BULBECK, Model No. BF5062, System Design, Installation and Commissioning Manual, Ver. 1; April 20, 2009	BFS-0143
BULBECK, Model No. BF5062, System Owners Manual, Ver. 1; February 25, 2009	BFS-0144

Supplementary information

Schedule of relevant articles

The following schedule is an extract of articles significant and/or related as evidence of conformity.

Reference		Title / description	Date issued (or date validated)	Source
Ident. type	Ident.			
Report	XF3015/R1	Evaluation for Conformity of the StrykerGreen, Model BF5062, fire suppression system to the requirements of AS 5062:2016	22-Aug-2018	CSIRO, Fire Systems Laboratory, AU
Report No.	DES01-001/R1	BULBECK STRYKER, Pre Engineered LOP Foam Fire Suppression System (Model No. BF5062)	27-May-2010	CSIRO, Devices, Engineering and Systems, AU
Part Number	BFS-0144	STRYKER FIRE SUPPRESSION SYSTEM, Model No. BF5062, System Owners Manual	25-Feb-2009	Bulbeck Fire, MAYFIELD WEST, NSW, AU
Part Number	BFS-0143	STRYKER FIRE SUPPRESSION SYSTEM, Model No. BF5062, System Design, Installation & Commissioning Manual	20-Apr-2009	