



FEDERATION INTERNATIONALE
DE L'AUTOMOBILE



Homologation
N°:

EX 285/005334

Certificat d'homologation pour les systèmes d'extinction plombés dans les voitures de course

Homologation certificate for motor sport fire extinguisher systems

1. GENERALITIES / GENERAL

- 101 Constructeur
Manufacturer Fire Extinguisher Valve Company
- 102 Adresse
Address Unit 11, Arunside Industrial Estate
Fort Road, Littlehampton
West Sussex BN17 7QU
- 103 Nom du système
System name Fire Extinguisher Valve Company
- 104 Dénomination commerciale
Commercial name Enviro 3
- 105 Véhicules pouvant être équipés de ce système (Le cas échéant, indiquez si ce système est valide pour tous les groupes)
Vehicule for which the system may be used (indicate if the system is valid for all groups):
Designed for all groups
- 106 Photo du système complet
Photo of the complete system



2. DESCRIPTION DU SYSTEME / SYSTEM DESCRIPTION

- 201 Agent extincteur
Extinguishant FE 36
- 202 Capacité totale du système
Complete Capacity of the system 2 Kg
- 203 Norme à partir de laquelle a été approuvé l'agent d'extincteur
Standard from which the extinguishant has been approved UL Standard 711
- 204 Couleur de l'étiquette indiquant le type d'extincteur utilisé
Colour of the label showing the type of extinguishant used White letters/black background
- 205 Pression d'utilisation
Fill pressure 7 Bar
- 206 Pression minimale
Min Pressure 3.6 Bar
- 207 Si le système est normalement non pressurisé, définir le type de pressurisation
If system is normally unpressurised define type of pressurisation:

- 208 Taille de la bonbonne Diamètre Hauteur
Size of the bottle 220 Diameter mm Height 160 mm
- 209 Poids de la bonbonne
Weight of the bottle 1.4 kg (including valve and bladder)
- 210 Système de déclenchement
Activation system
- | | | |
|--|---|---|
| Manuel / Manual
<input checked="" type="checkbox"/> | Electrique / Electric
<input type="checkbox"/> | Automatique / Automatic
<input type="checkbox"/> |
|--|---|---|
- Cocher la mention utile
Tick off as applicable*
- 211 Gamme de température d'utilisation
Operating temperature range -15 to +60°C
- 212 Nombre d'ajutage minimum dans le compartiment moteur
Minimum number of nozzles in the engine compartment : 2

2. DESCRIPTION DU SYSTEME / SYSTEM DESCRIPTION

- 213 Photo d'une bonbonne montrant l'étiquette indiquant l'agent d'extincteur utilisé
Photo of one bottle showing the label of the extinguishant used



- 214 Photo d'un ajutage
Photo of a nozzle




3 ENGAGEMENT DU FABRICANT / MANUFACTURER'S RECOGNITION

Je déclare que le système décrit ci-dessus:

- est conform à la norme FIA sur les systèmes d'extinction plombés dans les voitures de courses
- a passé, sous ma supervision, avec succès l'ensembles des tests décrit dans la norme FIA

I declare that the system described above:

- is in conformity with the FIA standard for motor sport fire extinguisher systems
- has passed, under my supervision, all the tests described in the standard.

Date	Nom et signature Name and signature	Visa d'approbation Endorsement stamp
2 ND FEBRUARY 99.	DEREK JONES 	

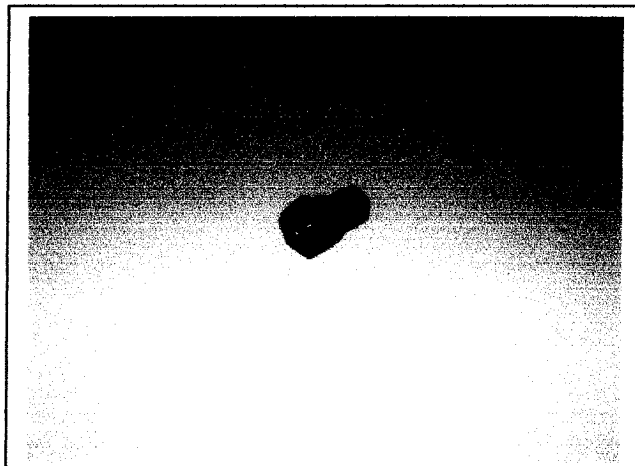
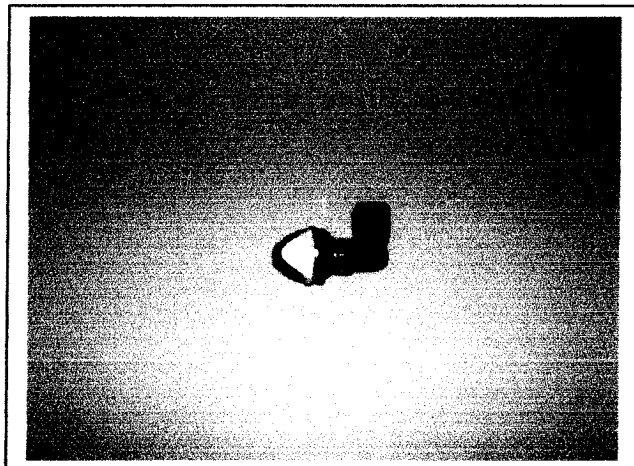
ANNEXES / APPENDICES

- Rapport de test / Test report
- Instruction d'installation / Installation instructions
- Instruction de maintenance / Maintenance instructions

EXTENSION TO FIA EXTINGUISHER HOMOLOGATION

NO: EX.004.99/EX.007.99

Manufacturer: Fire Extinguisher Valve Company (FEV)	Reason for Extension: Alternative discharge nozzles
Applicable Systems:	All of subject homologations
1.	2.
Part Description: Nozzle, Gas, Tri-Jet	Part Description: Nozzle, Gas, X Pattern
FEV Part Number: FE-NOZ-TRI	FEV Part Number: FE-NOZ-X




SIGNED:
For and on behalf of Fire Extinguisher Valve Company (FEV).

[Handwritten Signature]

DG Jones
DATE: 6th January 2004

SIGNED:
For and on behalf of the Motor Sports Association.


 MOTOR SPORTS ASSOCIATION
 UNITED KINGDOM
[Handwritten Signature]
 MSA TECHNICAL EXECUTIVE
 DATE: 12, 1, 04



Phone: +44 (0) 1353 724200
Fax: +44 (0) 1353 724213

Safety Devices Limited
30 Regal Drive
Soham
Cambridgeshire
CB7 5BE
England

Mechanical Plumbed - In Fire Extinguisher System Installation Instructions:

This system uses ENVIRO 3. All Fire Extinguisher systems should be serviced every 2 years.

Kit Contents:

- 1 x Charged cylinder complete with firing head assembly. **DO NOT ATTEMPT TO REMOVE OR OTHERWISE TAMPER WITH THE FIRING HEAD ASSEMBLY.**
- 1 x Laser profiled cradle for cylinder.
- 1 x set mist spray nozzles.
- 2 x T handle firing pull cables.
- 1 x Dekabon tube.
- 1 x Set of Tee pieces
- 1 x pack tube clips.
- 1 x *Safety Devices* 'E' sticker.

Installation Instructions:

1. **Bolt** the cylinder support cradle to the vehicle structure **securely**.
2. Mount the firing pull handles to enable operation **in accordance with current regulations**, one inside the vehicle within easy reach of the driver (and co-driver where applicable) and one on an outside panel, adjacent to the electrical cut-out switch. The pull handle bushes will need a 13mm diameter mounting hole. Apply the 'E' decal adjacent to the external firing handle.

Ensure that the cables are not kinked or fouled on panels or wiring. Smooth, gentle curves should be used when routing the cables. ***DO NOT USE SMALL RADIUS BENDS ON THE CABLES OR THEIR OUTER SHEATHS.***

3. Connect both cables to the firing handle on the fire extinguisher cylinder, one to each nipple.

To Arm The System: Remove the safety clip in the firing handle. The system will now discharge if any of the handles, including that on the cylinder, are pulled. Replace the safety clip when the extinguisher system is not likely to be used. ***The clip should always be removed during competition!***

4. **Plumbing:** The Dekabon tube push fits into the various fittings. Note that the supply from the fire extinguisher should **enter** through the **centre** branch of the 'T' piece and exit through the end branches. ***For three nozzle systems***, run a single main supply to the engine compartment, then use the supplied 'T' piece to split the flow to two spray nozzles. The nozzles should be sited to enable maximum coverage of both sides of the engine but particularly electrical and fuel supplies. The additional 'T' piece and nozzle supply the cockpit outlet. Try to keep the lengths of the tubes to each nozzle as equal as possible. Ensure that the tubes are fully pushed home and locked into the fitting - it should not pull out when correctly fitted. Tubes may be released by depressing the entry ring on the fitting, then pulling out the tube whilst keeping the ring depressed. Ensure that all tube runs are securely clipped and sighted to avoid accidental damage.

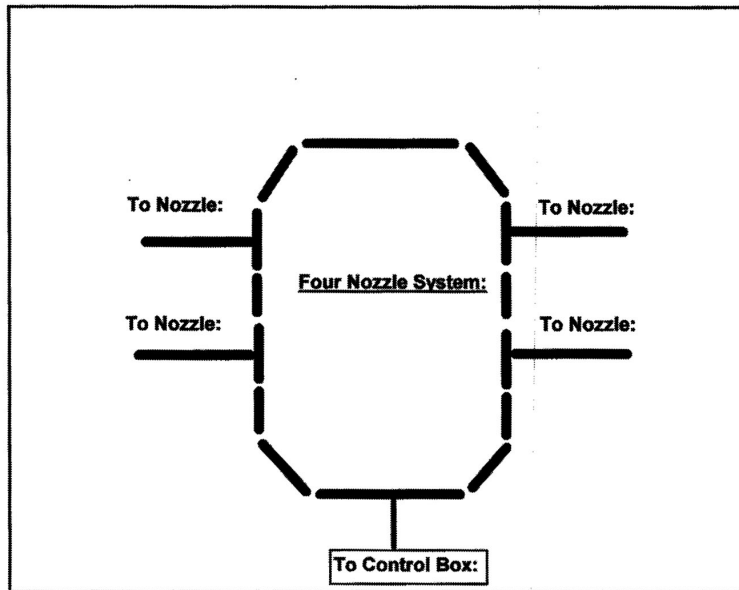
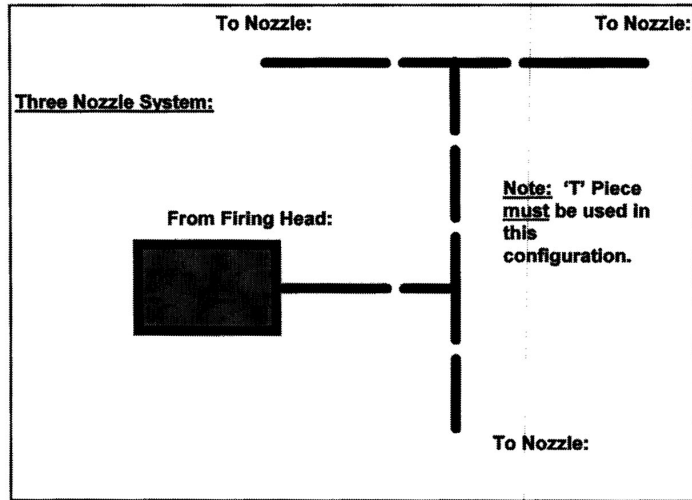
This is a safety item! Check Your Installation Carefully! If In Doubt - Ask!



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Plumbing Schematics:



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Fire Extinguisher Maintenance.

The Extinguishers should be serviced every 2 years, either by the manufacturer or his agent as follows:

Bottles should be examined for signs of corrosion, abrasion and paint finish. Should the service engineer decide that the bottle has been subject to corrosion or exhibits abrasions that may affect performance, the bottle should be discarded.

The bottle should be pressure tested to at least one and a half times its working pressure. Extinguishers with poor paint finish should be refurbished. The interior of the bottle must also be inspected for signs of damage or corrosion.

All seals should be replaced.

The operating head should be cleaned and tested. If found to be faulty it should be either repaired or replaced.

Nozzles should be checked for damage/possible blockage. They should be tested to ensure that they are in good working order.

Extinguishers contents should be replaced.

Service records including the bottle label should be updated, indicating the date on which the service was undertaken, the work carried out and the date on which the next service is due.

It is recommended that an approval label from the ASN of the Country concerned be fitted at the point of manufacture or service in order to help competitors to select approved products and the scrutineers to identify them.