



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 2458	10-Nov-2010	Number 9	Issue date 1-May-2019	30-Apr-2020

Page 1 of 2

Product designation

LPG Inert®, IG-55 200/300 bar, fixed gaseous fire extinguishing system

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

Agent/distributor

LPG Fire Australia
8/30 Mudgeeraba Road, WORONGARY, QLD, AUSTRALIA, 4213

Registrant

Johnson Controls
Burlingham House, Hewett Road, Gapton Hall Industrial Estate, GREAT YARMOUTH, NORFOLK,
UNITED KINGDOM, NR31 0NN

Producer

Tyco Fire Protection Products
Burlingham House, Hewett Road, Gapton Hall Industrial Estate, GREAT YARMOUTH, NORFOLK, UNITED
KINGDOM, NR31 0NN

Conformance criteria and evaluation

The LPG Inert®, IG-55 200/300 bar, fixed gaseous fire extinguishing system has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS ISO 14520.1-2009, 'Gaseous fire-extinguishing systems - Physical properties and system design - General requirements (ISO 14520-1:2006, MOD)'.
2. Australian Standard AS ISO 14520.14-2009, 'Gaseous fire-extinguishing systems - Physical properties and system design - IG-55 extinguishant (ISO 14520-14:2005, MOD)'.
3. Technical rule VdS 2344en : 2005-12, 'Procedure for testing, approval and evaluation for conformity of equipment, components and systems for fire protection and security technologies'.
4. Loss Prevention Standard LPS 1230:2001, 'Requirements for Fire Testing of Fixed Gaseous Fire Extinguishing systems, 2001'.

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.

(Limitations/conditions of conformance continue)

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

Issued by

David Whittaker
Executive Officer – ActivFire Scheme



Schedule to Certificate of Conformity

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- i. The LPG Inert®, IG-55 200/300 bar, fixed gaseous fire extinguishing system shall be designed, installed, operated, and maintained, in accordance with the LPG system's "Installation, Maintenance and User Manual for FM-200 Fire Extinguishing Systems", Revision 0 of September 2010 (LPG Part No. MU/IG/04/IN).

Producer's description

The LPG Inert®, IG-55 200/300 bar, fixed gaseous fire extinguishing system is an automatic system using IG-55 extinguishant agent. IG-55 is a colourless, odourless, electrically non-conductive gas with a density approximately the same as that of air. IG-55 agent is effective in the protection of electrical hazards, such as computer room. It is non corrosive and may be used at normal temperatures with such materials as nickel, steel, stainless steel, copper, brass, bronze and plastics.

It is an inert gas mixture consisting nominally of 50 % argon and 50 % nitrogen with the following mixture specification:

- a. Argon: range of (50 ± 5) %.
- b. Nitrogen: range of (50 ± 5) %.

This system extinguishes fires by a reduction of the oxygen concentration in the atmosphere of the hazard enclosure. The IG-55 200/300 Bar Fire Extinguishing System operates at nominal pressures of 200 bar and 300 bar at 15°C. Containers for LPG IG-55 system are not superpressurized.

The LPG Inert®, IG-55 200/300 bar, fixed gaseous fire extinguishing system uses either 80 litre or 140 litre cylinders in multiple installation.

The NOAEL level for IG-55 is 43 % by volume and LOAEL level is 52 % by volume.

Technical specification

The following details are a representative extract of the technical specification for the LPG Inert®, IG-55 200/300 bar, fixed gaseous fire extinguishing system and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Description	Reference
High pressure solenoid valve	FT 017
PTFE hose	FT 040
3 l pilot cylinder	FT 052
High pressure hand lever release	FT 051
Check valve ¾"	FT 055
Pressure switch w/locking device	FT 047
High pressure pneumatic cone release	FT 058
Decompression screw R ¼"	FT 070
Depressurization valve R ¼"	FT 075
4S-H discharge hose	FT 110
LPG-128-90 valve for 3'0 L. pilot cylinder	FT 132
Standard nozzle 180°	FT 135
Standard nozzle 360°	FT 136
Restrictor	FT 138
LPG 128-65 valve	FT 125
LPG 128-60 valve	FT 149
LPG 128-80 valve	FT 148
LPG 128-85 valve	FT 147
LPG 200/300 bar IG-55 Fire Extinguishing System Manual for Installation, Maintenance and Use of LPG Inert Gas Fire Extinguishing Systems, Revision 0 of September 2010	MU/IG/04/IN

Recognised body references

Recognised body.:	Criteria	Reference
Loss Prevention Certification Board (LPCB)	LPS 1230:2001	Cert. num.: 446b
Verband der Schadenverhütung (VdS)	Procedure Guidelines VdS 2344en : 2005-12	Approval num.: G 305012