

LPG iFlow® IG-541 FIRE SUPPRESSION SYSTEMS

- iFlow® Technology
- Natural gas present in the atmosphere
- Design in compliance with AS ISO 14520.14
- Suitable for occupied areas
- Electrically non-conductive
- No residue to clean up after the discharge
- More economical and less storage space
- Zero Ozone Depletion Potential
- No greenhouse effect
- No decomposition products
- 80 and 140lts cylinders @300bar

IG-541 is a mixture of 52% Nitrogen 40% Argon and 8% Carbon Dioxide. Nitrogen and Argon are inert gases present in the atmosphere. Inert gases are non-conductive, colourless, odourless and non corrosive.

iFlow® Technology introduces three new patented elements:

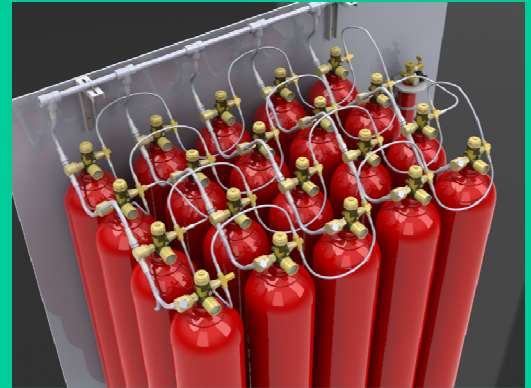
- **iFlow® valve:** Regulated discharge valve which eliminates the peak pressure point to achieve a more balanced flow during the discharge phase.
- **iFlow® check valve:** A horizontal check valve which allows cylinder discharge hoses to be interconnected, reducing manifold size and length whilst also preventing gas from flowing back into cylinders upon discharge.
- **Matrix Design Concept:** An innovative and flexible approach to cylinder bank design. The Matrix design permits up to four rows of cylinders to be connected to a single manifold.

The LPG group offers the most advanced technology for fire suppression in more than 80 countries, and is a market leader in the UK, Spain, Russia, Turkey, France, UAE, India, Singapore and Australia.



www.lpgfire.com.au

**WHAT COULD BE
GREENER THAN
TAKING AIR,
FILTERING IT,
BOTTLING IT, AND
THEN
RELEASING IT INTO
A ROOM?**



**iFlow® Technology
with LPG Inert ®
ensures a 100% safe
and environmentally
friendly system**





Typical System Applications:

- Data halls
- Server rooms
- Comms rooms
- UPS rooms
- Records stores
- Archives
- Flammable liquids stores
- Engine rooms
- Cable ducts
- Mission critical areas
- Telecommunication areas
- Control rooms
- Art galleries and museums
- Pharmaceutical facilities



Why use LPG iFlow® IG541?

- Environmentally friendly
- Excellent extinguishing hold time
- Flexible design
- Economic refill costs
- Lower pressure piping
- Valve safety features
- Reduced pressure relief vent area
- Choice of 80L and 140L cylinders

LPG FIRE AUSTRALIA

1/13 Rothcote Court Burleigh
QLD 4220 AUSTRALIA

Phone: +61 7 5522 1953 Fax: + 61 7 5593 8906

Email: info@lpgfire.com.au Web:www.lpgfire.com.au

Physical Properties

Chemical name:

Nitrogen/Argon/Carbon Dioxide

Chemical formula:

N₂/Ar/CO₂

Compliance with AS ISO 14520

IG-541

Molecular weight:

34.00

Boiling point at 1.013 bar:

-196°C

Maximum filling pressure:

200/300 bar

Design concentration for heptane:

41.2%

Flooding factor for heptane at 20°C:

0.531 m³/m³

Design concentration for surface fires class A (AS):

39.9%

Flooding factor for surface fires class A (AS):

0.501 m³/m³

Design concentration for class A higher fires (AS):

39.9%

Flooding factor for class A higher fires (AS):

0.501 m³/m³

NOAEL:

43%

LOAEL:

52%

Maximum concentration in 5' exposure:

43%

Ozone depletion potential

0

Greenhouse effect potential

0

HEADQUARTERS

Mestre Joan Corrales, 107–109 08950 Esplugues de Llobregat
- BARCELONA

Tel.: +34 93 480 29 25 Fax: +34 93 473 74 92

Email: lpg@lpg.es - www.lpg.es

LPG FRANCE

Tel.: +33 1 34482030 - Email: commercial@lpg-france.fr

LPG PORTUGAL

Tel.: +351 21 9751322/3 - Email: lpg.portugal@mail.telepac.pt

LPG FIRE Ltd

Tel.: +44 1280 821229 - Email: tnichols@lpg.es

LPG TURKIYE

Tel.: +90 216 561 37 75 - Email: lpg@lpgtr.com

LPG AMERICA LATINA

Tel.: +598 2 6227840 - Email: lpg.uruguay@conectate.com.uy

LPG RUSSIA

Tel.: +7495 6439958/ +34 670 33 96 51 - Email: acardoso@mail.ru

LPG MIDDLE EAST

Tel.: +966 2 6637017 / +966 2 6637053 - Email: lpg@lpgme.com