

Certificate of Product Approval

Certificate Number: 273Bf-s

Issue: 01

Kidde-Fenwal, Inc.

400 Main Street
Ashland
Massachusetts 01721
USA



is certified by BRE Global Ltd. and is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirement(s) of the standards as detailed below:

Products

Kidde Fire Systems Natura™ Inert Gas Systems Fixed Fire Fighting Components
(refer to attached appendix for details)

Standards

273Bf, 273Bl, 273Bn, 273Bp & 273Br to an LPCB schedule of requirements
273Bg & 273Bh to EN12094-4
273Bi to EN12094-10 and an LPCB schedule of requirements
273Bj to EN 12094-8:2006
273Bk & 273Bm to EN12094-13
273Bs to EN12094-5
273Bq to prEN12094-7

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RE Brown

Signed for BRE Global Ltd.

Robert Brown
Verifier

3 July 2020
Date of Issue

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Kidde Fire Systems Natura™ Inert Gas Systems, FIXED FIRE FIGHTING COMPONENTS

1. This range of equipment is suitable for storage temperatures -20°C to +50°C and is approved for use with: Argonite® (IG-55), Nitrogen (IG-100), Argon (IG-01) and IG-541
2. This range of equipment is approved for use in conjunction with Kidde Fire Systems Design manual reference: 06-237598-001 (Revision AA dated July 2019)
3. Container pressure is specified at 200 bar and 300 bar @ 15°C.

Kidde Fire Systems Natura™ Inert Gas Systems Containers

Product Name	Description	Container pressure, bar	LPCB Ref. No.
38-428021-XXX (3)	80.0 litre cylinder	200 (1) (2)	273Bf/01
38-428031-XXX (3)	80.0 litre cylinder	300 (1) (2)	273Bf/02
38-421431-XXX (3)	140.0 litre cylinder	300 (1) (2)	273Bf/03

Notes:

- (1) Cylinder is designed and manufactured in accordance with European Directive 2010/35/EU (TPED) and/or UN (USA) through compliance with ISO 9809-2, ADR and/or DOT
- (2) A range of wall brackets, clamping bars, spacers and clamping bolts for secure container installation are available
- (3) Where XXX can be: "055" = Argonite® (IG-55), "100" = Nitrogen (IG-100), "001" = Argon (IG-01) or "541" = IG-541.

Kidde Fire Systems Natura™ Inert Gas Systems Container Valves

Product Name	Description	LPCB Ref. No.
38-400000-001	Natura™ Inert Gas Valve (400 Series) (1) 200/300 bar	273Bg/01

Notes:

- (1) Nominal outlet pressure 55 bar

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Kidde Fire Systems Natura™ Inert Gas Systems Release Assemblies

Product Name	Description	LPCB Ref. No.
38-400001-001	Release Unit (400 Series)-200 bar, manual/electric, N.O. Gauge – 160 bar switch (1)	273Bh/01
38-400001-002	Release Unit (400 Series)-200 bar, manual/electric, N.C. Gauge – 160 bar switch (1)	273Bh/02
38-400001-003	Release Unit (400 Series)-300 bar, manual/electric, N.O. Gauge – 240 bar switch (1)	273Bh/03
38-400001-004	Release Unit (400 Series)-300 bar, manual/electric, N.C. Gauge – 240 bar switch (1)	273Bh/04

Notes:

- (1) Gauge switch type; Normally Closed (N.C.) or Normally Open (N.O.) under pressure at and above the Switchpoint

Kidde Fire Systems Natura™ Inert Gas Systems Pressure Monitoring Devices

Product Name	Description	LPCB Ref. No.
38-400005-001	Pressure Gauge Unit, Gauge Switch N.O.≥ 160 bar (1)	273Bi/01
38-400005-002	Pressure Gauge Unit, Gauge Switch N.C.≥ 160 bar (1)	273Bi/02
38-400005-003	Pressure Gauge Unit, Gauge Switch N.O.≥ 240 bar (1)	273Bi/03
38-400005-004	Pressure Gauge Unit, Gauge Switch N.C.≥ 240 bar (1)	273Bi/04
01-7221-0300	Manifold Pressure Gauge	273Bi/05
03-5713-0000	Discharge Pressure Switch	273Bi/06

Notes:

- (1) Gauge switch type; Normally Closed (N.C.) or Normally Open (N.O.) under pressure at and above the Switchpoint

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Kidde Fire Systems Natura™ Inert Gas Systems Discharge and Pilot Connectors

Product Name	Description	LPCB Ref. No.
38-401ABX-XXX (1)	Pilot Hose, ¼" Quick Connect (2)	273Bj/01
38-400ABX-XXX (3)	Discharge Hose ¾"	273Bj/02
01-3273-1000	¼" Straight x 90° for Selector Valve actuation	273Bj/03

Notes:

- (1) A or B at either end or both ends of the hose is defined as:
- = Straight coupling, zinc plated mild steel
 - = 45°, set 0°, zinc plated mild steel
 - = 90°, set 0°, zinc plated mild steel
- X-XXX = length of Hose in mm (300-3000)
- (2) Approved for use with Festo couplings
- (3) A or B at either end or both ends of the hose is defined as:
- = Straight coupling, zinc plated mild steel
 - = 45°, set 180°, zinc plated mild steel
 - = 90°, set 180°, zinc plated mild steel
- X-XXX = length of Hose in mm (300-3000)

Kidde Fire Systems Natura™ Inert Gas Systems Pilot Line Equipment

Product Name	Description	Nominal bore, mm	Working pressure, bar	LPCB Ref. No.
38-400002-003	Pilot Line Non-Return Valve	2	10	273Bk/01

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Kidde Fire Systems Natura™ Inert Gas Systems Manifolds

Product Name	Description	No. cylinders	Working pressure, bar	LPCB Ref. No.
38-351000-004 to 38-351000-008	Single Row, Kidde IGS – 400 Series Discharge Manifold (80L cylinders)	2 to 6	70	273Bf/01
38-351000-009 to 38-351000-011	Double Row, Kidde IGS – 400 Series Discharge Manifold (80L cylinders)	4 to 8	70	273Bf/02
38-351140-004 to 38-351140-008	Single Row, Kidde IGS – 400 Series Discharge Manifold (140L cylinders)	2 to 6	70	273Bf/03
38-351140-009 to 38-351140-011	Single Row, Kidde IGS – 400 Series Discharge Manifold (140L cylinders)	4 to 8	70	273Bf/04

Kidde Fire Systems Natura™ Inert Gas Systems Manifold Check Valve

Product Name	Description	Nominal bore, mm	Working pressure, bar	LPCB Ref. No.
38-400002-002	Manifold Check Valve	14	300	273Bm/01

Kidde Fire Systems Natura™ Inert Gas Systems Pressure Relief Devices

Product Name	Description	Working pressure, bar	LPCB Ref. No.
38-400006-002	Manifold Pressure Relief Device	70	273Bn/01

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Kidde Fire Systems Natura™ Inert Gas Systems Multi-area Manifold Accessories

Product Name	Description	LPCB Ref. No.
01-3508-0002	Pilot Manifold (2 Divertor Valves)	273Bp/01
01-3508-0003	Pilot Manifold (3 Divertor Valves)	273Bp/02
01-3508-0004	Pilot Manifold (4 Divertor Valves)	273Bp/03
01-3508-0005	Pilot Manifold (5 Divertor Valves)	273Bp/04

Note:

Outlet pressure 8 bar

Kidde Fire Systems Natura™ Inert Gas Systems Nozzles

Product Name	Description	Orifice Size (mm)	LPCB Ref. No.
38-4A7100-XXX (1)(2)	½" Nozzle assembly - 360° Holes	3 – 10	273Bq/01
38-4A7200-XXX (1)(2)	¾" Nozzle assembly - 360° Holes	7 – 13.5	273Bq/02
38-4A7300-XXX (1)(2)	1" Nozzle assembly - 360° Holes	10 – 17	273Bq/03
38-4A7400-XXX (1)(2)	1½" Nozzle assembly - 360° Holes	14 – 26	273Bq/04
38-4A7500-XXX (1)(2)	½" Nozzle assembly - 180° Holes	3 – 10	273Bq/05
38-4A7600-XXX (1)(2)	¾" Nozzle assembly - 180° Holes	7 – 13.5	273Bq/06
38-4A7700-XXX (1)(2)	1" Nozzle assembly - 180° Holes	10 – 17	273Bq/07
38-4A7800-XXX (1)(2)	1½" Nozzle assembly - 180° Holes	14 - 26	273Bq/08

Notes:

- (1) Where XXX is Orifice size, e.g. 070 = 7mm, 075 = 7.5mm, 115 = 11.5mm, etc
- (2) Where A can be 1 for BSP and 0 for NPT connections

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Kidde Fire Systems Inert Gas System (400, 469 & C60 Series) Nozzle Sound Reduction Devices

Product Name	Description	Orifice Size (mm)	LPCB Ref. No.
01-3470-0015	½" Nozzle Silencer (1)	3 – 10 (2)	273Br/01
01-3470-0020	¾" Nozzle Silencer (1)	7 – 13.5 (2)	273Br/02
01-3470-0025	1" Nozzle Silencer (1)	10 – 17 (2)	273Br/03
01-3470-1015	½" FSN 112 Nozzle Silencer (1)	3 – 10 (2)	273Br/04

Notes:

- (1) BSP thread
- (2) For use in connection with Kidde IGS – 400, 469 & C60 Series 360° Nozzle Assemblies

Kidde Fire Systems Natura™ Inert Gas Systems Selector Valves

Product Name	Description	Working pressure, bar	LPCB Ref. No.
22-37140-025	1" Selector Valve	140	273Bs/01
22-37140-040	1 ½" Selector Valve	140	273Bs/02
22-37140-050	2" Selector Valve	140	273Bs/03
22-37140-080	3" Selector Valve	140	273Bs/04
22-37140-100	4" Selector Valve	140	273Bs/05

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