

Natura™ Inert Gas Fire Suppression System

Effective: May 2026
K-38-2000 Rev AG

Flexible. Efficient. Sustainable.

The Kidde Fire Systems Natura™ Inert Gas System (Natura IGS) is an environmentally safe, competitive, and cost-effective fire extinguishing system for protecting assets in commercial, light, and heavy industry. With global approvals and a selection of agents and hardware profiles, Natura IGS can be the natural choice for inert gas fire suppression systems.

Environmentally safe

- Uses naturally occurring gases.
- Zero Global Warming Potential (GWP)
- Zero Ozone Depletion Potential (ODP)

Wide range of applications - broad opportunity

- Data Centers
- Hospitals & Medical Facilities
- Libraries and Archives
- Museums & Cultural Heritage Buildings
- Petroleum, Oil & Gas Facilities
- Pharmaceutical Manufacturing
- Telecommunication Facilities and more

Choice of agents and hardware profile - suits regional requirements and filling capabilities

- Fire Classification
 - US - NFPA, UL/FM
 - Class A (Ordinary Combustible Materials)
 - Class B (Flammable Liquids)
 - Class C (Electrical Hazards Energized)
 - Class D (Combustible Metals)
 - EU – LPCB Redbook & ISO
 - Class A (Ordinary Combustible Materials)
 - Class A Higher (Electrically Energized Equipment)
 - Class B (Flammable Liquids or liquifiable solids)
 - Class C (Flammable Gas)
 - Class D (Combustible Metals)
- System pressures suitable for regional capabilities
 - 200 bar
 - 300 bar
- Cylinder sizes to suit floor space
 - 80 Liter
 - 140 Liter
- Nozzles types add design & installation flexibility
 - 180° (Pendant or upright style)
 - 360° (Pendant or upright style)
 - 360° Acoustic (Pendant or upright style)

Designed for quick and easy installation

- Pre-fabricated manifolds
- Quick connect actuation tube fittings
- Daisy chained pressure supervision via plug-in interconnections

Wide operating temperature

- Range of -4° to 130°F (-20° to 54°C) allows from hot to cold application environments



Superior valve design - enables lower cost installation

- In most cases, schedule 40 pipe now suitable vs. higher cost Sch 80 or 160 for unregulated systems.
- Regulated flow reduces pressure vent size and cost.

Specify and ship worldwide with confidence globally certified by:

- Transportation
 - TPED and/or UN/DOT
- Performance
 - Loss Prevention Certification Board, LPCB
 - UL Listed
 - FM Approved
- Materials
 - Construction Products Regulation, CPR
 - Nationally Recognized Test Labs (NRTL) in process

Design Flexibility

Global approvals including UL, ULc, FM and LPCB, allow for selection of the design concentrations based on approval type. In countries where LPCB is accepted, a competitive price can be offered.

Inert Gases

Natura IGS offers four inert gases for use in the fire suppression system. These gases are:

- IG-01: Pure Argon
- IG-55: Gaseous Mixture of 50% Nitrogen and 50% Argon
- IG-100: Pure Nitrogen
- IG-541: Fixed fire extinguishing systems that use inert, gaseous mixture of 52% Nitrogen, 40% Argon, and 8% Carbon Dioxide

Hazard Protection

The Natura IGS can be designed to cover a single hazard or multiple hazards from a common cylinder bank. KiddeFenwal (KF) recommend wherever possible to have a fully connected reserve bank of cylinders to ensure your assets remain fully protected, even after a discharge of the main bank.

Multi Zone System

Multi zone systems can protect multiple hazards with one bank of cylinders. Multi zone systems require the use of one 2-way pneumatically operated selector valves for each zone protected. The following depicts an example of a multi-zone Natura IGS setup which protects 3 separate hazard zones.

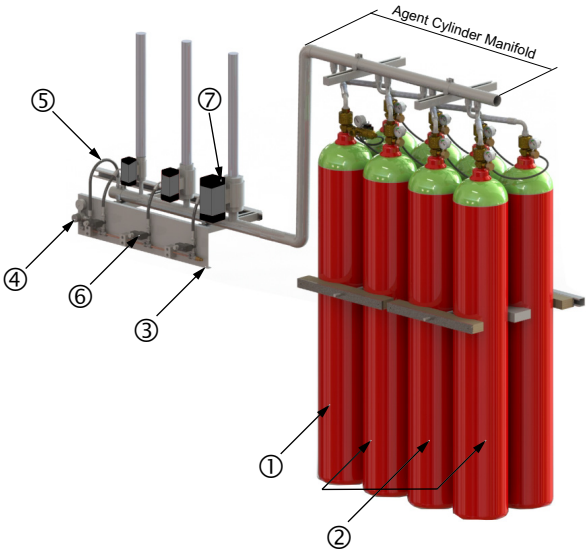


Figure 1. Multi-Hazard System Example

Table 1: Multi-Hazard System Example Component List

Item	Description
1	Primary Agent Storage Cylinder and Valve Assembly
2	Secondary Agent Storage Cylinder and Valve Assemblies
3	Back-Plate Manifold
4	Back-Plate Manifold Pressure Regulator
5	Back-Plate Manifold Hose
6	Back-Plate Manifold Solenoid
7	Selector Valve

Systems with Concentrations Higher than the LOAEL

When the system is designed with concentration higher than the LOAEL (Lowest Observable Adverse Effect Level) which is 52% agent concentration, the following safety items shall be included in the system:

- Pneumatic Time Delay
- Pneumatic Siren
- Lockout Valve
- Special Signage

A typical system using the above mentioned components is shown below:

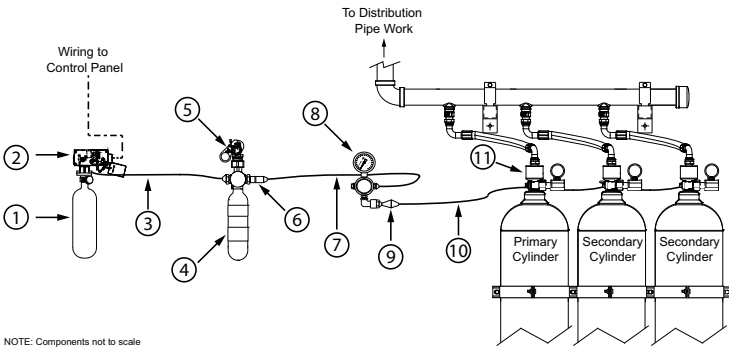


Figure 2. System with Discharge Delay

Table 2: Discharge Delay System Components

Item	Description
1	108 cu. in. Nitrogen Pilot Cylinder
2	Electric Control Head Kit with Control Head Monitor
3	30 in. Actuation Hose
4	Nitrogen Discharge Delay Kit
5	Lever Operated Control Head
6	3/4 in. NPS to BSP Adapter
7	Back-Plate Manifold Hose
8	Pressure Regulator
9	BSP to Festo Adapter
10	Pilot Line Actuation Hose
11	1st Cylinder with Secondary Gauge

Component Description

Cylinder and Valve Assemblies

The Natura IGS uses seamless steel cylinders compliant with ISO 9809-2 and certified to TPED and/or UN/DOT. System activation and gas discharge is controlled via a pressure operated, mass flow regulated, and pressure controlling valve. The valve is equipped with a safety burst disc in compliance with DOT and TPED requirements and has connection ports for the release unit or secondary gauge assembly, pilot line actuation hoses, and an agent discharge port.

Cylinders are available in 80 or 140 liters at either 200 or 300 bar pressure. All pressures are determined at a filling temperature of 59°F (15°C).

Cylinder shells are painted red with green shoulder for easy identification and include agency markings where applicable.

When shipped, cylinder-valve assemblies include an anti-recoil cap and a Safety Transport cap as a safety feature designed to prevent uncontrolled, accidental discharge. The outlet cap can be used to perform the system discharge test without discharging agent from the Natura IGS cylinder.

Release Unit

Release units connect to the gauge port of the primary cylinder and activate the Cylinder-Valve to release agent into the system piping. Release units can either be electric operated or a combination manual & electric setup.

Release units have an integral pressure gauge that can be ordered with contacts that are normally open or normally closed under pressure, dependent on jurisdictional requirements.

Release units that include manual operation have a tamper proof seal on the operation pin.

Solenoid Specifications

- Operating Voltage: 24 VDC
- Current Draw: 0.75 Amps

To comply with NFPA 2001 requirements, the solenoid in the Release unit assembly is fixed with an anti-tamper nut, which cannot be removed. However, the Release unit assembly can be detached from the port. For code compliance, such detachment should cause a supervisory signal at the extinguishing control panel.

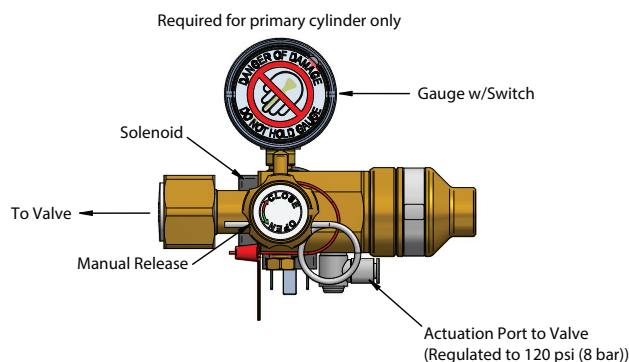


Figure 4. Release Unit

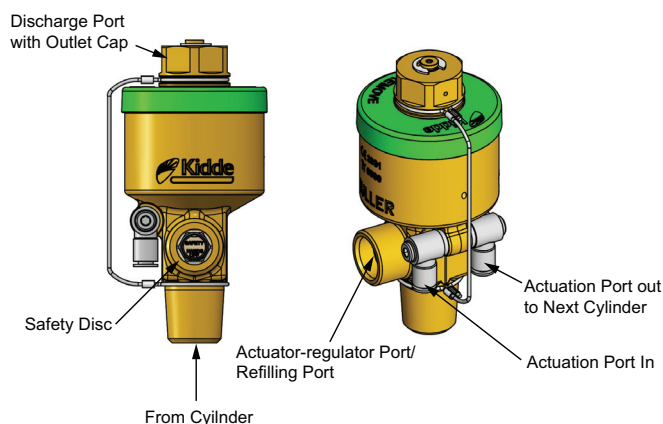


Figure 3. Valve Components

The Natura IGS valve assembly has a 3/4 in. (20mm) discharge port with BSP male threads.

Secondary Cylinder Gauge Assembly

Installing a Secondary Cylinder Gauge assemblies on a secondary cylinder enables monitoring the pressure of the secondary cylinders in the system. The Secondary Cylinder Gauges assemblies are connected to the Cylinder-Valve gauge port and can have contacts that are either normally open or normally closed under pressure. One gauge is required for each secondary cylinder.



Figure 5. Secondary Cylinder Gauge

Actuation Hoses

1/4 in. (6 mm) diameter Actuation hoses are used to provide pressure to the valve to actuate the system. The Actuation hoses are also used in multi-cylinder systems to convey pilot pressure at 116 psig (8 bar) from the prior cylinder-valve to the next cylinder-valve. The hoses include quick connect couplings which allows ease of installation and maintenance.

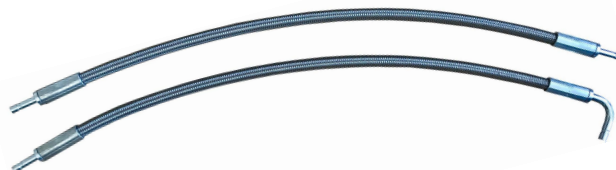


Figure 6. Actuation Hose

Discharge Hoses

3/4 in. (20 mm) diameter Discharge hoses route the agent from the cylinder-valve assemblies to the system piping. Hoses connect to the discharge outlet of the agent cylinder-valve and terminate at the system piping or discharge manifold.

Hoses with 90° to 90° couplings are typically used in conjunction with manifolds to allow for easy adjustments.



Figure 7. Discharge Hoses

Manifold Check Valve

Manifold Check Valve are required to be installed where the discharge hose connects with a manifold in order to prevent backflow to the cylinder-valve. Manifold check valves have 3/4 in. (20 mm) BSP male threads at both ends and are marked with the direction of agent flow.

The pre-built Natura IGS manifolds are shipped with Manifold Check Valves pre-installed, one per stub.

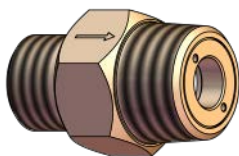


Figure 8. Manifold Check Valve

Note: If procuring a manifold elsewhere, only approved Natura IGS Manifold Check valves may be used. Ensure each discharge connection uses a manifold check valves.

Manifolds

2 in. (50 mm) diameter Manifolds of varying lengths in single or double row configuration are available for the Natura IGS. The Manifolds are available for 80 and 140 Liter cylinders.

Manifolds includes a 3/4 in. Manifold Check valve at each inlet port. Manifolds can be coupled together using a 2 in. BSP Manifold Coupling and capped off using a 2 in. BSP Manifold End-cap.



Figure 9. Single Row Manifold



Figure 10. Double Row Manifold

Selector Valves (Stop Valve)

Selector valves route agent from a central cylinder bank to the specific hazard where fire has been detected. Selector valve actuators operate pneumatically using agent pressure routed from the manifold via a pressure regulator on the back-plate manifold and the respective back-plate solenoid valve.

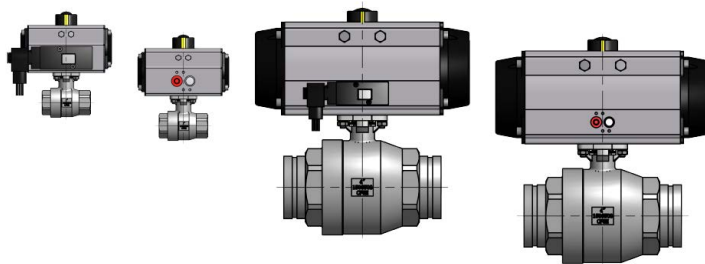


Figure 11. Selector Valve

Selector valves are 2-way ball valves with full bore. Selector valves of 1 in., 1 1/2 in., and 2 in. size have BSP threaded inlet and outlet ports for connection to the distribution piping. 3 in. and 4 in. Selector valves use DIN 2638 flanges for this connection.

The solenoids are mounted on a back-plate with tamper proof screws and cannot be removed.

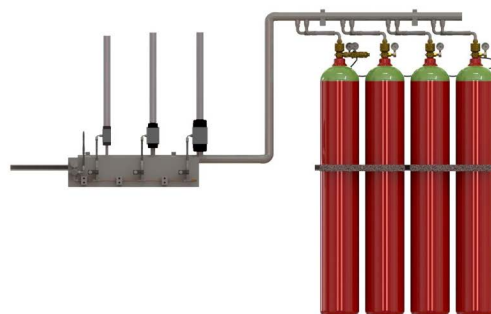


Figure 12. Selector Valve Setup

Lockout Valve

A lockout valve is a manually operated valve installed between the agent manifold and the discharge pipe network leading to the protected area. Lockout valves can be locked in the closed position to prevent agent from going into the protected area.

Lockout valves can be installed at the end of the manifold or, if a common manifold protects multiple hazards, downstream of each selector valve. Lockout valves include a limit switch. The limit switch must be wired to the control panel to indicate a trouble if the valve is closed.

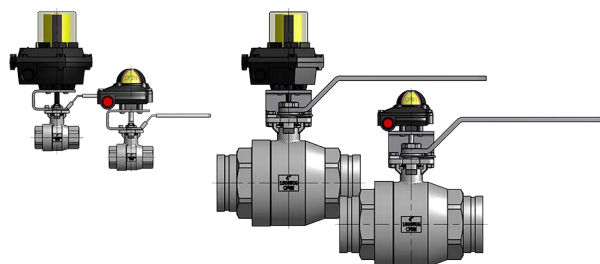


Figure 13. Lockout Valve

Agent Discharge Nozzles

The Natura IGS offers regular nozzles with 360° and 180° discharge patterns which can be mounted in either upright or pendant style. An acoustic 360° nozzle is also available for select Natura IGS agents. The number and size of the orifice on each nozzle is custom calculated using the Flow Calculation Software Suite version 4.0 and higher.



Figure 14. Nozzles

Cylinder Racking

The racking system for the Natura IGS is modular and can be adjusted to fit multiple cylinders in various row combinations.

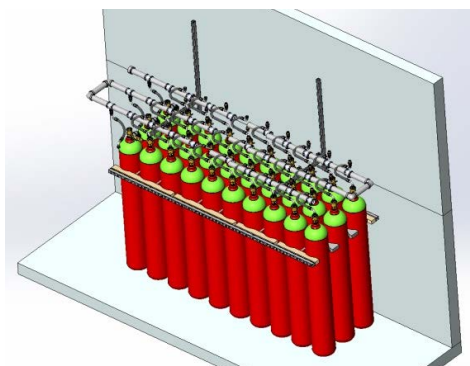


Figure 15. 80L Cylinder Racking Example

Quick Connect Cables

Quick Connect cables provide an expedient method of wiring the pressure gauges of the Release Unit and Secondary Cylinder Gauge Assemblies. The open contacts of the supervisory pressure switch are connected in parallel through Quick Connect cables in a daisy chain form.



Figure 16. Quick Connect Cables

Accessories

Bleeder Valve

A Bleeder Valve should be installed on a Pilot Line in the unused actuation hose connection in the last cylinder of a cylinder bank. The end-of-line leak/vent valve prevents a possible gradual pressure build-up in the pilot line should the solenoid release unit develop a leak, thus preventing an unintended system discharge. The bleed valve includes a Quick Connect fitting for ease of installation and maintenance.



Figure 17. Bleeder Valve

Manifold Safety Device

The manifold safety device consists of a safety disc housed in a threaded body. The safety disc is designed to burst at a pressure of 90-100 Bar. Manifold safety devices have an NPT fitting on the side that connects to the manifold and a BSPT threading on the side that would connect to the venting pipe if applicable.

The Manifold Safety Device should be used on manifolds with selector valves and lockout valves where the design of the system creates a closed section of piping. The safety outlet is installed in the piping upstream of the valve(s) to prevent over pressurization in the event of entrapment of Agent in the closed pipe segment. The outlet on the safety device may also be piped to vent directly to atmosphere or to vent to the pipe network downstream of any selector valve.

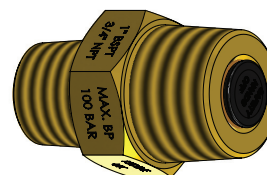


Figure 18. Manifold Safety Device

Pressure Switch:

The pressure operated switch uses the pressure of the discharging agent for activation should be connected to the distribution piping. The agent actuates a pressure operated stem which toggles the electrical switch. Each switch can also be operated manually by pulling up on the stem. These switches are used to annunciate alarms, to shut down ventilation and/or other electrical equipment and to turn on electrical automatic dampers or other electrical equipment. Each pressure switch must be manually reset, by pushing down on the stem to return the switch to the set position. The minimum operating pressure required is 50 PSI. The toggle on the pressure switch can be set to either N.O. to close or N.C. to open contact transfer upon operation.

Pressure Operated Trip:

The pressure operated trip, is connected to the distribution piping and utilizes agent pressure for actuation. The agent pressure displaces a spring-loaded piston to disengage a holding ring from the stem connected to the piston.



Figure 19. Pressure Operated Trip

Main & Reserve Systems

The Natura IGS supports a 'Reserve' bank of cylinders, equal in quantity and size to the main bank. A reserve system can minimize downtime prevent service interruption in case of a discharge. A reserve system is also recommended when using selector valves and when downtime cannot be tolerated should a discharge occur.

The system with main and reserve cylinders are connected to Suppression Control Panel through a Main/Reserve Transfer Switch.

Main & Reserve Transfer Switch:

The main & reserve transfer switch, is installed on systems having main and reserve cylinders. Placing the switch in either the "main" or "reserve" position provides uninterrupted fire protection capability during system maintenance or in the event of a system discharge.



Figure 20. Main and Reserve Transfer Switch

Control Panel

For systems covering a single zone, use the Kidde Fire Systems AEGIS™-PHX control unit.

Multi zone systems using selector valves require an addressable control panels such as the Kidde Fire Systems ARIES-SLX or ARIES-MLX control unit.

Note: The release units of the Natura system must be listed with the suppression control panel.

Flow Calculation Software Version 4.0

Using the parameters listed below the Flow Software calculates pressure drops, pipe sizes, orifice sizes and vent area requirements:

- Inert agent selection
- System Pressure 200 Bar/300 Bar
- Cylinder size 80L and 140L
- Discharge time 60 Sec./120 Sec.
- Nozzle Selection 180°/360°
- Single Zone/Multi Zone Systems through 2 Way Selector valves

Parts List

Our extinguishing systems are designed in compliance with NFPA 2001 (latest edition), UL 2127, and FM 5600. To maintain the UL Listing, FM Approval, etc., certain system components must be purchased from KF. Certain more 'common' components can be purchased from third party sources so long as they meet the specifications listed in the corresponding KF suppression system DIOM manual and any associated addenda. For example, system piping from the end of the manifold to the discharge nozzles must be purchased from a 3rd part supplier and must conform to all specifications mentioned in the DIOM Manual and the Fire Suppression Systems Association (FSSA) Piping Design Handbook. The discharge nozzles must be supplied by KF. The manifold can be purchased as a complete component from KF. Alternatively, the manifold check valves must be sourced from KF, but the rest of the piping in the manifold can be supplied by a 3rd party so long as it meets the aforementioned conditions. If a Manifold Safety Device is required, this too must be source from KF. The table below indicates any component that can be sourced from a 3rd party supplier. Failure to heed this warning may result in incorrect agent distribution leading to injury, death, or property damage, in addition to invalidating compliance approvals.



Description	Part Number
Natura IGS Factory Filled Cylinder Valve Assemblies	
Natura IGS 80L Cylinder with Natura IGS Agent to 200 bar	38-428021-XXX*
Natura IGS 80L Cylinder with Natura IGS Agent to 300 bar	38-428031-XXX*
Natura IGS 140L Cylinder with Natura IGS Agent to 200 bar	38-421421-XXX*
Natura IGS 140L Cylinder with Natura IGS Agent to 300 bar	38-421431-XXX*
*: -XXX corresponds to the Agent's IG number. For example an 80L 200 Bar cylinder filled with argon is: 38-428021-001	
Release Unit and Secondary Cylinder Gauge	
Release Unit 400 Series - 200 bar, Manual / Electric, N.O. Gauge	38-400001-001
Release Unit 400 Series - 300 bar, Manual / Electric, N.O. Gauge	38-400001-003
Secondary Cylinder Gauge Assembly - 200 bar, N.O.	38-400005-001
Secondary Cylinder Gauge Assembly - 300 bar, N.O.	38-400005-003
Quick Connect Cables	
L Plug x 2 Cable, Dual Core 0.013 x 11.8 in. (0.34 x 300mm) x Quick Connects (Male & Female)	38-400005-100
Gauge Signal Line - Quick Connect Terminal Plug (MALE)	38-400005-101
Gauge Signal Line - Quick Connect (MALE) Connector with 3m Fly lead (Dual Core Cable)	38-400005-102
Quick Connect (Male) x Dual Core 0.013 x 39.4 in. (0.34 x 1000mm) Fly-Lead	38-400005-103
Quick Connect (Female) x Dual Core 0.013 x 39.4 in. (0.34 x 1000mm) Fly-Lead	38-400005-105
Discharge Accessories	
Manifold Check Valve 3/4 in., BSP	38-400002-002
19.68 in. Actuation Hose with Quick Connect Fitting, Straight to Straight	38-401110-500
23.62 in. Actuation Hose with Quick Connect Fitting, Straight to Straight	38-401110-600
23.62 in. Actuation Hose with Quick Connect Fitting, Straight to 90°	38-401130-600
27.56 in. Actuation Hose with Quick Connect Fitting, Straight to 90°	38-401130-700
Discharge Hose 3/4 in. Dia., 16.1 in. (410 mm) Length, 90° to 90°	38-400330-410
Discharge Hose 3/4 in. Dia., 20.1 in. (510 mm) Length, 90° to 90° Coupling	38-400330-510
Pilot Line Bleed Valve (for last cylinder)	38-400007-001
Pressure Switch, 3 Pole Double Throw	81-486536-000
Pressure Switch, 3 Pole Single Throw (Ex. Proof)	81-981332-000
Pressure Trip	81-874290-000
Main-to-Reserve Transfer Switch	85-802398-001
360° Discharge NPT Nozzles for IG-100, IG-55, and IG-541	
Nozzle Assembly, 1/2 in. NPT, 360°	38-427100-XXX
Nozzle Assembly, 3/4 in. NPT, 360°	38-427200-XXX
Nozzle Assembly, 1 in. NPT, 360°	38-427300-XXX
Nozzle Assembly, 1-1/2 in. NPT, 360°	38-427400-XXX
360° Discharge NPT Nozzles for IG-01	
Nozzle Assembly, 1/2 in. NPT, 360°	38-407100-XXX
Nozzle Assembly, 3/4 in. NPT, 360°	38-407200-XXX
Nozzle Assembly, 1 in. NPT, 360°	38-407300-XXX
Nozzle Assembly, 1-1/2 in. NPT, 360°	38-407400-XXX
180° Discharge NPT Nozzles	
Nozzle Assembly, 1/2 in. NPT, 360°	38-407500-XXX
Nozzle Assembly, 3/4 in. NPT, 360°	38-407600-XXX
Nozzle Assembly, 1 in. NPT, 360°	38-407700-XXX
Nozzle Assembly, 1-1/2 in. NPT, 360°	38-407800-XXX
Acoustic 360° Discharge NPT Nozzles for IG-100, IG-55, and IG-541	
Nozzle Assembly, 1/2 in. NPT, 360°	38-447075-XXX
Nozzle Assembly, 3/4 in. NPT, 360°	38-447150-XXX

Description	Part Number
NPT Selector Valves	
2-Way Selector Valve, 1" NPT, (Use X Area Solenoids)	85-100025-100
2-Way Selector Valve, 1 1/2" NPT, (Use X Area Solenoids)	85-150025-150
2-Way Selector Valve, 2" NPT, (Use X Area Solenoids)	85-200025-200
2-Way Selector Valve, 3" Grooved, (Use X Area Solenoids)	85-300025-300
2-Way Selector Valve, 4" Grooved, Use X Area Solenoids)	85-400025-400
2-Way Selector Valve, 1" NPT, with NEMA 7 Solenoid	85-100724-100
2-Way Selector Valve, 1 1/2" NPT, with NEMA 7 Solenoid	85-150724-150
2-Way Selector Valve, 2" NPT, with NEMA 7 Solenoid	85-200724-200
2-Way Selector Valve, 3" Grooved, with NEMA 7 Solenoid	85-300724-300
2-Way Selector Valve, 4" Grooved, with NEMA 7 Solenoid	85-400724-400
Back-Plate Manifold - 2 Area, Selector Valve Control, 8 bar	01-3508-0002
Back-Plate Manifold - 3 Area, Selector Valve Control, 8 bar	01-3508-0003
Back-Plate Manifold - 4 Area, Selector Valve Control, 8 bar	01-3508-0004
Back-Plate Manifold - 5 Area, Selector Valve Control, 8 bar	01-3508-0005
Back-Plate Manifold Hose	01-3273-1200
1" BSPT (M) to NPT (F) Adapter (2 required per valve, entry/exit)	01-3711-3000
1 1/2" BSPT (M) to NPT (F) Adapter (2 required per valve, entry/exit)	01-3711-4000
2" BSPT (M) to NPT (F) Adapter (2 required per valve, entry/exit)	01-3711-5000
Nipple 1/4" BSPP 60° x 1/8" BSPT M/M, Hose Adapter for 1", 1 1/2" and 2" Selector Valves	15-8662-0042
Nipple 1/4" BSPP 60° x 1/4" BSPT M/M, Hose Adapter for 3" and 4" Selector Valves	15-8662-0041
Pressure Regulator - 300 bar to 8 bar	01-6017-0000
Pressure Regulator Bracket	06-237897-001
Lockout Valves	
Lockout Valve, 1" NPT, NEMA 4 Rated Switch	85-100210-101
Lockout Valve, 1 1/2" NPT, NEMA 4 Rated Switch	85-150210-151
Lockout Valve, 2" NPT, NEMA 4 Rated Switch	85-200210-201
Lockout Valve, 3" Grooved, NEMA 4 Rated Switch	85-300210-301
Lockout Valve, 4" Grooved, NEMA 4 Rated Switch	85-400210-401
Lockout Valve 1" NPT, NEMA 7 Rated Switch	85-100120-101
Lockout Valve 1 1/2" NPT, NEMA 7 Rated Switch	85-150120-151
Lockout Valve 2" NPT, NEMA 7 Rated Switch	85-200120-201
Lockout Valve, 3" Grooved, NEMA 7 Rated Switch	85-300120-301
Lockout Valve, 4" Grooved, NEMA 7 Rated Switch	85-400120-401
Discharge Delay, Siren, and Associated Accessories	
108 cu. in. Nitrogen Pilot Cylinder	85-877940-001
1040 cu. in. Nitrogen Pilot Cylinder	85-101040-001
Supervisory Pressure Switch for Siren Drivers and N2 Pilot Cylinder	85-111540-001
Supervisory Pressure Switch for Siren Drivers and N2 Pilot Cylinder, ATEX Approved	85-111540-100
30 Second Nitrogen Discharge Delay Kit	38-401140-030
60 Second Nitrogen Discharge Delay Kit	38-401140-060
Siren, Nitrogen Pressure Operated	90-981574-001
Male Connector, 5/16 in. Flare x 1/8 in. NPT ¹	WK-699205-010
Mounting Bracket, Nitrogen Pilot Cylinder 108 cu. in.	WK-877845-000
Actuation Hose, 30 in.	WK-264986-000
Cylinder Strap, Nitrogen Pilot Cylinder 1040 cu. in.	WK-270014-000
Discharge Head, Plain Nut	WK-872450-000
Flexible Hose, 3/4 in. Outlet	WK-251821-000
Electric Control Head, 24 VDC Kit with Control Head Monitor	85-890181-200
Lever Operated Control Head	WK-870652-000
Lever/Pressure Operated Control Head	82-878751-000

Description	Part Number
Manifold Equipment	
80 Liter BSP Manifold, with manifold check valves for each stub ²	38-351000-0XX
140 Liter BSP Manifold, with manifold check valves for each stub ²	38-351140-0XX
2 in. BSP Manifold Coupling ¹	38-400020-100
2 in. BSP Manifold End Cap ¹	38-400020-101
2 in. Adapter, BSPT (F) to NPT (F) ¹	38-351000-001
Blanking cap 3/4" BSP for Manifold check valve (Required during maintenance)	38-400020-102
Bracket for 80L Cylinder manifold 1 Row 200mm	01-8160-0200
Manifold Equipment (continued)	
Bracket for 80L Cylinder Manifold 2 Rows 520 mm	01-8160-0520
Bracket for 80L Cylinder Manifold 3 Rows 830 mm	01-8160-0830
Bracket for 140L Cylinder Manifold 1 Row 250mm	01-8160-0250
Bracket for 140L Cylinder Manifold 2 Row 600mm	01-8160-0600
Bracket for 140L Cylinder Manifold 3 Row 1000mm	01-8160-0600
2 in. Pipe Clamp ø58.7 - ø63.5 mm ¹	01-8143-0000
Cylinder Racking Kits	
Unistrut® Cylinder Wall Bracket - 400mm -1850mm	01-812X-1000
Unistrut Cylinder Wall Bracket - 440mm	01-8121-1400
Clamping Bar 1 x 2 for 80L Cylinder (Front)	03-8266-0000
Clamping Bar 1 x 3 for 80L Cylinder (Front)	03-8267-0000
Clamping Bar 1 x 2 for 140L Cylinder (Front)	03-8366-0000
Clamping Bar 1 x 3 for 140L Cylinder (Front)	03-8367-0000
Wooden Spacer 1 x 2 for 80L Cylinder (Rear)	03-8162-0000
Wooden Spacer 1 x 3 for 80L Cylinder (Rear)	03-8163-0000
Wooden Spacer 1 x 2 for 140L Cylinder (Rear)	03-8462-0000
Wooden Spacer 1 x 3 for 140L Cylinder (Rear)	03-8463-0000
Wooden Spacer 2 x 2 for 80L Cylinder (Center)	03-8164-0000
Wooden Spacer 2 x 3 for 80L Cylinder (Center)	03-8165-0000
Wooden Spacer 2 x 2 for 140L Cylinder (Center)	03-8464-0000
Wooden Spacer 2 x 3 for 140L Cylinder (Center)	03-8465-0000
Single Clamp for 80L Cylinder, Galvanized Steel	01-8131-0000
Single Clamp for 140L Cylinder, Galvanized Steel	01-8131-1000
Clamping Bolt, 2 Row, 80L - 715mm Long	01-8337-0200
Clamping Bolt, 3 Row, 80L - 1030mm Long	01-8337-0300
Clamping Bolt, 2 Row, 140L - 895mm Long	01-8437-0200
Clamping Bolt, 3 Row, 140L - 1300mm Long	01-8437-0300
Endcover, White PVC 34 X 40 mm ¹	01-8131-0002
Distance Pipe 3/4 in. + Washers for 80L Cylinder	03-8331-0000
Distance Pipe 3/4 in. + Washers 140L Cylinder	03-8331-0140
Signage	
Caution Label - Entrance ¹	85-909300-001
Caution Label - Exit ¹	85-909300-002
Caution Sign - Vent Keep Clear ¹	01-2172-0200
Nameplate, "Main" ¹	WK-310330-000
Nameplate, "Reserve" ¹	WK-310340-000

Description	Part Number
Flow Calculation Software	
Flow Software Version 4.0 License Renewal for 3-years for full suite including Natura™ Inert Gas System)	06-118361-900
Flow Software Version 4.0 HASP Key to access full suite including Natura™ Inert Gas System)	06-118361-009
1: These components can be purchased from KF or from a 3rd party supplier so long as they meet all requirements spelled out in the corresponding DIOM manual and any associated addenda. 2: Manifolds can be purchased complete from KF. Alternatively, the piping can be sourced from a 3rd party supplier, but the manifold check valves and safety device (if applicable) must be purchased from KF.	

Non-Catalog Items

The following items may be purchased from 3rd party suppliers so long as they meet all requirements spelled out in the corresponding DIOM manual and any associated addenda:

- System Piping (other than parts mentioned above)
- Fittings (other than parts mentioned above)
- Wiring (other than parts mentioned above)
- Conduits (other than parts mentioned above)
- Certain electrical boxes (other than parts mentioned above)

EXPORT INFORMATION (USA)

Jurisdiction: EAR

Classification: EAR99

This document contains technical data subject to the EAR.

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