

DATA SHEET

DETECT & DISCHARGE SYSTEM WITH FK5112 CLEANT AGENT

 PART NO :
IH604-DA -*

DP-5.8/MT-682

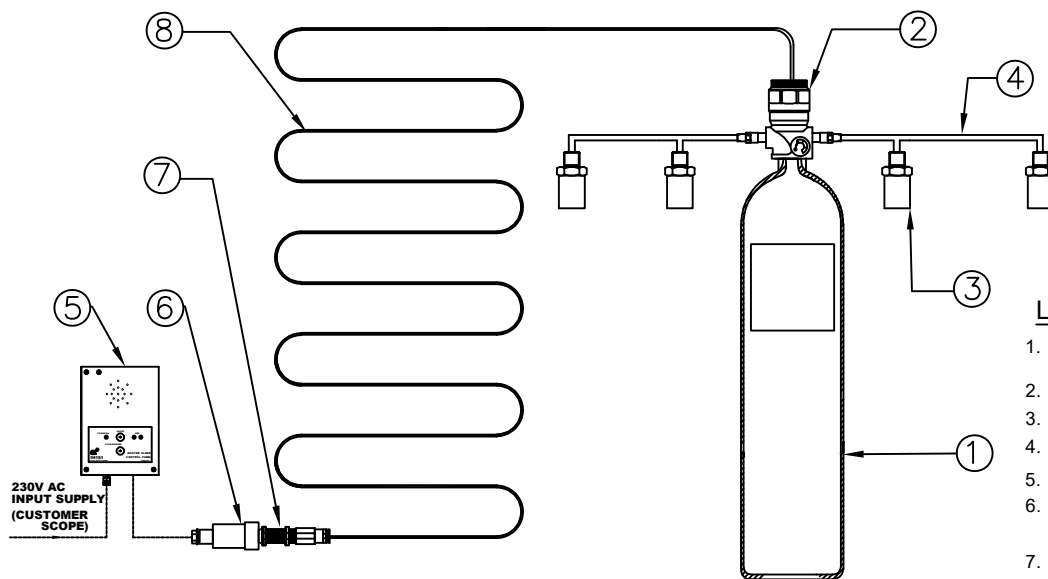
DATE :NOV 2022

REVISION : 00

SCALE : N.T.S

SHEET : 1 OF 2

APPD. BY :D.B.S



LIST OF COMPONENTS

1. HIGH PRESSURE SEAMLESS ALUMINIUM CYLINDER
2. INDIRECT DISCHARGE VALVE - SINGLE
3. DISCHARGE NOZZLE MACHINERY TYPE
4. 3/8" SS DISCHARGE TUBE
5. MASTER ALARM CONTROL UNIT
6. PRESSURE SWITCH (or) PRESSURE GAUGE SWITCH
7. END LINE ADAPTOR
8. DETECTION TUBE

DESCRIPTION:

- 1.This system consists of ISI marked high pressure seamless aluminium cylinder filled with required quantity of FK5112 clean agent.
- 2.The cylinder valve is made of forged brass with special anti-corrosive electro plating. Cylinder valve consists of 1 detection tube port, 2 discharge ports and pressure gauge port.
- 3.The detection tube is constructed using special polymer. This detection tube ruptures & releases magent when temperature reaches 100-120°C.
- 4.The discharge tubing is made of stainless steel with suitable adaptors. Nozzle are made of aluminium.
- 5.Agent is discharged using IH011 series machinery nozzle.
- 6.The detection tube is terminated with dummy plug or end line of adaptor as per system requirement.
- 7.The detection tube pressure can be monitored using pressure gauge with or pressure switch as per system requirement.
- 8.Master alarm control unit provides audio and visual indication when the system is operated.

INSTALLATION

1. Cylinder kit is securely fixed near risk area.
2. Detection tube is laid inside the the risk area (area to be protected).
3. Where critical systems are protected, multiple runs of detection tube can be implemented inside the risk area .Tube shall be properly clamped using suitable clamps.
4. Fix the end of detection tube to the end of line adaptor.
5. Fix the front end of detection tube to the cylinder valve outlet.
6. Fix the filling adaptor to the end line adaptor.
7. Firmly clamp SS discharge tube and nozzle arrangement inside the risk area. Suitable support to be provided to prevent hanging of discharge tube.
8. Pressurise the tube with N2 at 18-20 bar using dedicated N2 fill cylinder fitted with flow regulator.
9. After filling N2, remove filling adaptor & replace with pressure switch.
10. Fix master alarm control unit near the risk area & give 230 Vac input for its operation.
11. Connect pressure switch to master alarm control unit as per wiring instructions.
12. Slowly open the valve lever to charge the system.
13. System is ready for operation.

* DENOTES THE QUANTITY OF FK5112 AGNT

IMPORTANT:

AGNI CONTROLS RESERVES THE RIGHT TO CHANGE OR MODIFY WITHOUT PREVIOUS NOTICE ANY DATA OR SPECIFICATION DUE TO CHANGES OR MODIFICATION IN ORDER TO IMPROVE THE PRODUCTS / SYSTEM PRESENTED.


**AGNI CONTROLS
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OPERATION:

When the temperature reaches 100–120°C the detection tube ruptures & opens the cylinder valve discharge port. Gas is discharged to the risk area through tubing and nozzle arrangement. As soon as the detection tube ruptured the pressure switch contact are changed from NO to NC. Master alarm control is ON and provide alarm for nearby personnel to take necessary action.

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