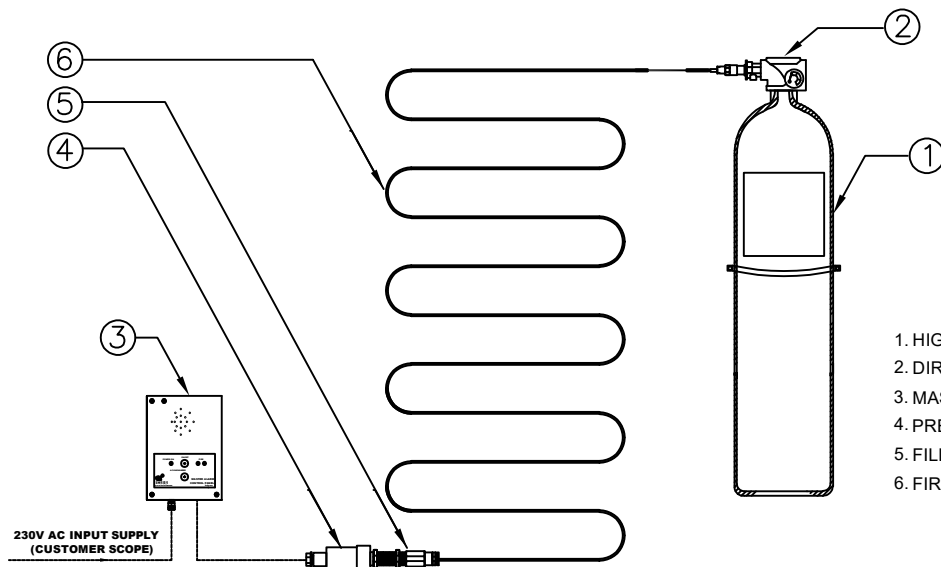


DATA SHEET	DEFAO DETECT & DISCHARGE CLEAN AGENT SYSTEM			PART NO : IH604-DD-*	
DP-5.8/MT-679	DATE : JAN 2023	REVISION : 01	SCALE : N.T.S	SHEET : 1 OF 2	APPD. BY : D.B.S



LIST OF COMPONENTS

1. HIGH PRESSURE SEAMLESS ALUMINIUM CYLINDER
2. DIRECT DISCHARGE VALVE
3. MASTER ALARM CONTROL UNIT
4. PRESSURE SWITCH
5. FILLING ADAPTOR
6. FIRE DETECTION TUBE

DESCRIPTION:

1. This Defao system consists of ISI marked high pressure seamless aluminium cylinder filled with required quantity of FK5112 clean agent.
2. The fire detection tubing is constructed with special polymer that ruptures & releases agent when temperature reaches 100–120°C.
3. The fire detection tube is pressurized with nitrogen using dedicated filling adaptor and maintained at 18–20 bar.
4. The end of fire detection tube is connected with a special end of line adaptor that can be connected with pressure gauges (or) filling adaptors (or) pressure switches.
5. The pressure inside the cylinder can be monitored using the cylinder valve which has an integrated pressure gauge. The pressure inside the fire detection tube is monitored using pressure gauge with electric contacts or pressure switches.
6. In case of fire, defao fire detection tube will burst and releases agent, there by reducing pressure in tube. This drop in pressure will initiate contact change in pressure switch. This change of pressure switch status will operate the alarm master control unit for alarm purpose. For more details, refer master alarm control unit data sheet (DP-5.8/MT-605)

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. Pressurise the tube with N2 at 18–20 bar using dedicated N2 fill cylinder fitted with flow regulator.
8. After filling N2, remove filling adaptor & replace with pressure switch.
9. Fix master alarm control unit near the risk area & give 230 Vac input for its operation.
10. Connect pressure switch to master alarm control unit as per wiring instructions.
11. Slowly open the valve lever to charge the system.
12. System is ready for operation.

* REPRESENTS QUANTITY OF FK5112 CLEAN AGENT AVAILABLE IN 1KG/2KG/3KG/OTHERS AVAILABLE UPON REQUEST.

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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DATA SHEET	DETECT & DISCHARGE SYSTEM WITH FK5112 CLEANT AGENT				PART NO : IH604-DD-*
DP-5.8/MT-679	DATE : JAN 2023	REVISION : 01	SCALE : N.T.S	SHEET : 2 OF 2	APPD. BY : D.B.S

OPERATION:

When fire originates inside the risk area, temperature rises rapidly. As temperature inside the risk area reaches 100 – 120 °C, the fire detection tube bursts forming nozzle type opening that discharges agent directly on the vicinity of the fire source.

General Notes:

1. Master alarm control unit can be an optional item. When alarm is required locally and potential free 'NO' contact is required for remote annunciation, this unit can be used.
2. Where master alarm control unit is not used, the system will still detect and extinguish fire and operate as a stand alone equipment.

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