

# Defao<sup>®</sup> SERIES...

## DATA SHEET

### DEFAO SERIES.. DETECT AND EXTINGUISH CO2 SYSTEM ASSEMBLY

PART NO : IH601-DA-CO2

DP-5.8/MT-681

DATE: NOV 2022

REVISION : 01

SCALE : N.T.S

SHEET : 1 OF 1

APPD. BY : D.B.S

**DESCRIPTION:**

Defao series.. Detect & Extinguish CO2 system consists of CO2 cylinder, High pressure Indirect discharge valve, Fire Detection Tube, SS tube, Nozzles & Pressure switch.

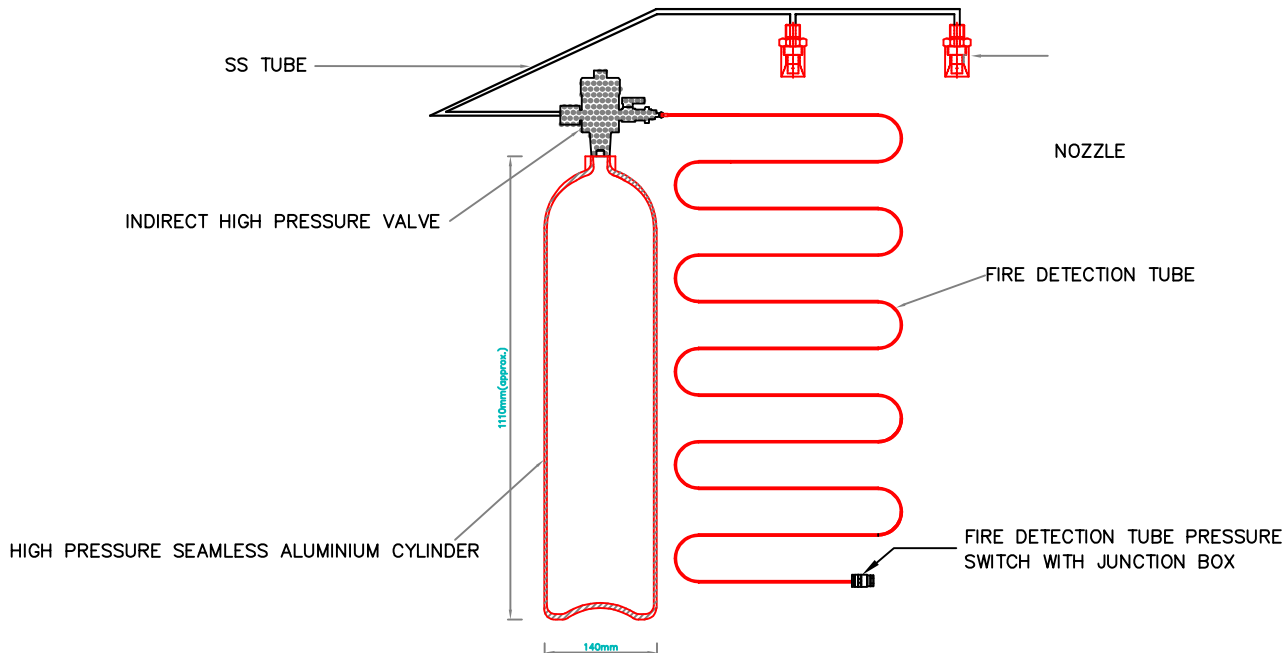
**OPERATION:**

The cylinder is fitted with Indirect High Pressure Valve and filled with CO2 gas. The valve is connected with Fire Detection tube and discharge SS tube. Fire Detection tube is laid in the protected area as per requirement to detect the fire and it is externally pressurised with N2 gas. Fire Detection tube will operate between 100 - 120 deg C. Pressure switch is fitted in the detection tube to monitor its actuation.

In case of fire in the protected area, Fire Detection Tube will burst, CO2 gas will be discharged through SS Tubes and nozzles.

**APPLICATION:**

To Protect any enclosure area like Electrical Cabin, Cable Duct, Switchgears, CNC Machineries, and Storage Area.



SL. NO	PART NO.	MODEL NO.	DESCRIPTION:	MODEL NO.												
1	IH601/DA-CO2	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">AA</td> <td style="padding: 2px;">BB</td> <td style="padding: 2px;">CC</td> </tr> <tr> <td style="padding: 2px;">DD</td> <td style="padding: 2px;">EE</td> <td style="padding: 2px;">FF</td> </tr> </table>	AA	BB	CC	DD	EE	FF	DEFAO SERIES... FIRE DETECTION TUBE AND EXTINGUISHING SYSTEM BASIC KIT ASSEMBLY	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">AA</td> <td style="padding: 2px;">BB</td> <td style="padding: 2px;">CC</td> <td style="padding: 2px;">DD</td> <td style="padding: 2px;">EE</td> <td style="padding: 2px;">FF</td> </tr> </table>	AA	BB	CC	DD	EE	FF
AA	BB	CC														
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AA	BB	CC	DD	EE	FF											
1-1	BIH048*	CO2 cylinder * capacity (*based on gas quantity in kg.)	1-10 BIH620 Fire detection tube red .	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">1.</td> <td style="padding: 2px;">09</td> <td style="padding: 2px;">9 kg CO2 gas</td> </tr> <tr> <td style="padding: 2px;">2.</td> <td style="padding: 2px;">22</td> <td style="padding: 2px;">22 kg CO2 gas</td> </tr> <tr> <td style="padding: 2px;">3.</td> <td style="padding: 2px;">33</td> <td style="padding: 2px;">33 kg CO2 gas</td> </tr> <tr> <td style="padding: 2px;">4.</td> <td style="padding: 2px;">45</td> <td style="padding: 2px;">45 kg CO2 gas</td> </tr> </table>	1.	09	9 kg CO2 gas	2.	22	22 kg CO2 gas	3.	33	33 kg CO2 gas	4.	45	45 kg CO2 gas
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2.	22	22 kg CO2 gas														
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4.	45	45 kg CO2 gas														
1-2	BIH632	Indirect CO2 valve.	1-11 BIH621 Fire detection tube black .	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">1.</td> <td style="padding: 2px;">1A</td> <td style="padding: 2px;">One Area</td> </tr> <tr> <td style="padding: 2px;">2.</td> <td style="padding: 2px;">2A</td> <td style="padding: 2px;">Two Area</td> </tr> <tr> <td style="padding: 2px;">3.</td> <td style="padding: 2px;">3A</td> <td style="padding: 2px;">Three Area</td> </tr> <tr> <td style="padding: 2px;">4.</td> <td style="padding: 2px;">4A</td> <td style="padding: 2px;">Four Area</td> </tr> </table>	1.	1A	One Area	2.	2A	Two Area	3.	3A	Three Area	4.	4A	Four Area
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1-3	BIH135	CO2 gas in kg.	1-12 IH011 CO2 nozzle .	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">1.</td> <td style="padding: 2px;">MP</td> <td style="padding: 2px;">Additional discharge actuation by manual pneumatic</td> </tr> </table>	1.	MP	Additional discharge actuation by manual pneumatic									
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1-4	BIH632	Solenoid actuator, 24DC suitable for fire detection tube	1-13 BIH663/500 6mm high pressure SS braided discharge hose .	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">1.</td> <td style="padding: 2px;">EP</td> <td style="padding: 2px;">Additional discharge actuation by using detector/ manual gas discharge station through electro pneumatic operation</td> </tr> </table>	1.	EP	Additional discharge actuation by using detector/ manual gas discharge station through electro pneumatic operation									
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1-5	BIH689	manual release unit.	1-14 BIH690 SS 304 tube 10mm OD & fittings .	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">1.</td> <td style="padding: 2px;">DR</td> <td style="padding: 2px;">Fire detection tube red for smooth and</td> </tr> <tr> <td style="padding: 2px;">2.</td> <td style="padding: 2px;">DB</td> <td style="padding: 2px;">non rough area.</td> </tr> </table>	1.	DR	Fire detection tube red for smooth and	2.	DB	non rough area.						
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1-6	BIH625/1	Pressure switch with junction box suitable to monitor discharge tube.	1-15 BIH649 T-fitting for standard connections. Tubing 6x4 .	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">1.</td> <td style="padding: 2px;">GSPT</td> <td style="padding: 2px;">Pressure gauge with switch to monitor detection tube.</td> </tr> <tr> <td style="padding: 2px;">2.</td> <td style="padding: 2px;">PSPT</td> <td style="padding: 2px;">Pressure switch to monitor detection tube.</td> </tr> <tr> <td style="padding: 2px;">3.</td> <td style="padding: 2px;">D-PSPT</td> <td style="padding: 2px;">Dual Pressure switch to give remote alarm &amp; trip.</td> </tr> </table>	1.	GSPT	Pressure gauge with switch to monitor detection tube.	2.	PSPT	Pressure switch to monitor detection tube.	3.	D-PSPT	Dual Pressure switch to give remote alarm & trip.			
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1-7	BIH624	Pressure switch with junction box suitable to monitor detection tube.	1-16 BIH660 Straight fittings for fire detection tube joining .													
1-8	BIH638	Direction valve with inbuilt NRV .	1-17 IH151 Master alarm control panel .													
1-9	IH213	Pneumatic horn .	1-18 BIH640 Filling adaptor.													
			1-19 IH389 Non sensing tube.													
			1-20 BIH620-01 SS Spiral tube.													

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.



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