

bala-wa® SERIES...

Discharge Nozzles

*Suitable for CO₂ gas / Inert gas / Clean Agent FK-5112
Fire Suppression Systems*



INTRODUCTION

Nozzles are one of the main components in any fire Extinguishing/ Suppression system. Through nozzle extinguishing agent is released into the risk area for quick suppression of fire.

Any suppression system requires Nozzles with proper orifice code as per its application.

HOW NOZZLE PLAYS IMPORTANT ROLE IN GAS BASED FIRE SUPPRESSION / EXTINGUISHING SYSTEMS ?

The extinguishing agent will be discharged through nozzle. The nozzle should cover designed area and discharge required quantity of gas. Due to pressure difference in pipe network, the discharge quantity is not uniform unless calculated orifice is arrived and executed.

The correct size of orifice is very important parameter in discharging the required quantity for effective fire suppression in extinguishing mechanism. This is can be achieved only through the validated program for different gas system.

Nozzle type & requirement varies as per extinguishing agent.

CO₂ nozzle differs from others as it need horn to avoid freezing during discharge.

Similarly nozzles of chemical gas require calculated bigger size orifice to discharge entire agent in 10 sec.

PART NO: IH 012

CO₂ DISCHARGE NOZZLE WITH CONE HORN

This type of Nozzle with Aluminium cone is very widely used in CO₂ application.

IH012 Nozzles are designed in such a way that proper flow rate is achieved throughout the discharge period.

Our nozzles can be coupled with IH014 adaptor for direct welding in the pipe.

Nozzle orifice code can be designed, engineered & calculated using our gas suppression calculation software.



SPECIFICATION

01	MATERIAL	NOZZLE HORN - ALUMINIUM (POWDER COATED) NOZZLE - BRASS (NICKLE PLATED)
02	PROCESS CONNECTION	½"THREAD BSP AS STANDARD. OTHER THREAD ARRANGEMENT IS AVAILABLE ON REQUEST.
03	ORIFICE CODE	AS PER DESIGN REQUIREMENT

PART NO: IH 014

Gas discharge Nozzle adaptor suitable for Part No. IH 012.

The profile shape of adaptor will match with pipe dia to ensure fitment can be achieved with good engineering practice.



SPECIFICATION		
01	MATERIAL	MS (ZINC PLATED)
02	PROCESS CONNECTION	½" THREAD BSP AS STANDARD. OTHER THREAD ARRANGEMENT IS AVAILABLE ON REQUEST.

PART NO: IH 011 Series..

CO₂ Nozzle with cone horn suitable to fit in the machinery / small area.

These types of Nozzles are mainly designed for to be used in Machineries / Duct areas.

The nozzle releases the gas/agent into the area to be protected. IH011 Nozzles are designed in such a way that proper flow rate is achieved throughout the discharge period.

Nozzle orifice code can be designed, engineered & calculated using our gas suppression calculation software.



SPECIFICATION		
01	MATERIALS	ALUMINIUM, BRASS, SS304
02	THREAD SIZES	½" (M) THREAD BSP AS STANDARD. OTHER THREAD ARRANGEMENT IS AVAILABLE ON REQUEST.
03	ORIFICE CODE	AS PER DESIGN REQUIREMENT

PART NO: IH 475

¾" Inert Nozzle suitable for fixed installation Suitable for IG541 / IG100 Inert Gas Suppression System



SPECIFICATION		
01	MATERIALS	BRASS, SS304
02	THREAD SIZES	¾" BSP THREAD STANDARD. OTHER THREAD ARRANGEMENT IS AVAILABLE ON REQUEST.
03	ORIFICE CODE	AS PER DESIGN REQUIREMENT

PART NO : IH 918

Clean Agent Discharge Nozzle suitable for fixed installation clean agent fire Suppression System



SPECIFICATION		
01	MATERIALS	ALUMINIUM LM6
02	THREAD SIZES	¾" BSP THREAD AS STANDARD. OTHER THREAD ARRANGEMENT IS AVAILABLE ON REQUEST.
03	ORIFICE CODE	AS PER DESIGN REQUIREMENT

Other Range of Components :



IH007R NI
Online Monitor with LED
Indication Type



IH006R
Online Monitor
Mechanical Type



IH 324 /*
Wintergreen Odorizers
suitable for *Cylinder Bank Arrangement
(* No.of Cylinders)



IH018-R
Non-Return Valve
suitable for CO₂ Master Cylinder



IH019
Non-Return Valve
suitable for CO₂ Slave Cylinder



IH138
Manifold Safety Valve



BIH302
PILOT CYLINDERS
Suitable for CO₂ / Inert Gas
Suppression System to
Operate Slave Cylinder valves
/ one No. Directional valve
pneumatic actuator.



IH015*
* NB CO₂ Directional valve
with pneumatic actuator
& Limit Switch
(* - 20/25/32/40/50NB)



IH237*
* NB Manual Lock-out Valves
with supervisory Limit Switch
(* - 20/25/32/40/50NB)

Other Range of Systems :

- ☑ balawa series... CO₂ Fire Suppression System & Components.
- ☑ fladet series... Special Application Flame / Ember/ Spark/Probe type heat Detectors
- ☑ balawa series... IG541 / IG55 Inert Gas Fire Suppression system & components
- ☑ balawa series... Fk5112 Clean Agent Gas Fire Suppression system & components
- ☑ Defao series.. Detect & Extinguish System
- ☑ balawa series... Textile Fire Protection & Diversion System
- ☑ balawa-mist series.. High / Low Pressure Water Mist System

fladet®
SERIES...
THE GLOBAL INDIAN BRAND

Flame / Ember / Spark /
Probe Type Heat Detectors



balawa®
SERIES...

Fire Suppression Systems



balawa-mist®
SERIES...

IH950 Engineered High pressure
Water mist fire suppression system

