

## PROINERT® DISCHARGE NOZZLES

### DESCRIPTION

The function of the discharge nozzle in a fire extinguishing system, is to distribute the agent in a uniform, predetermined pattern and concentration.

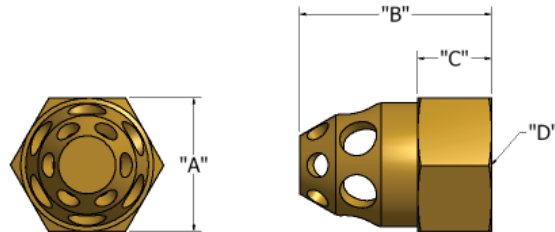
Fike ProInert discharge nozzles are machined from brass to prevent corrosion. The nozzles are designed to comply with ISO 14520 EN 15004, EN 12094-7 and NFPA 2001 requirements for agent discharge when installed within the design limitations of Fike ProInert Design Manual and the Fike Engineered ProInert Flow Calculation Program.

Engineered 360° ProInert Discharge Nozzles are available in four sizes: 15, 20, 25, and 40mm. Each nozzle has an internal orifice plate to control agent flow. The orifice plate hole diameters are determined by the Fike Engineered ProInert Flow Calculation Program.



Fike Discharge Nozzle

ProInert Engineered Nozzles	
IG71-010-XXX	15mm, 360° Nozzle
IG71-011-XXX	20mm, 360° Nozzle
IG71-012-XXX	25mm, 360° Nozzle
IG71-013-XXX	40mm, 360° Nozzle



360° Nozzles Data Table				
Nozzle Size (mm)	A (mm)	B (mm)	C (mm)	D (ISO7-1)
15mm	25	45	16	Rc½
20mm	32	58	20	Rc¾
25mm	45	62	22	Rc1
40mm	54	78	26	Rc1½

**NOTE:** Each nozzle will be permanently marked with the part number, nozzle orifice and other information per EN12094-7.

### APPROVAL



Certification  
Number 654a

### Nozzle Orifice Plates

Each Engineered Discharge Nozzle comes with a brass Orifice Plate. The Orifice Plate controls the flow of the agent through the nozzle. The hole diameter of the orifice plate is determined by the Fike Engineered ProInert Flow Calculation Program.

### Nozzle Ordering Format for Engineered Discharge Nozzles

When placing an order for a ProInert Discharge Nozzle, you **MUST** specify the orifice plate hole diameter code in addition to the basic part number for the nozzle needed.

IG 7 1 - X X X - X X X  
                   A                  B

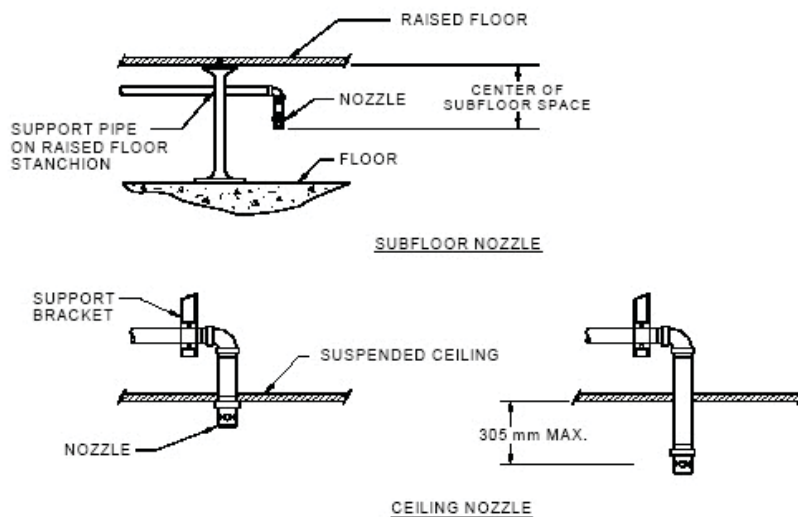
A = Basic Nozzle part number (e.g., IG71-012-XXX, etc.)

B = Orifice Plate Hole Diameter Code (obtained from Engineered Flow Calculation Program)

### INSTALLATION

Prior to installation, always verify the nozzle part number (stamped on the nozzle) matches the nozzle identification number listed on the system installation plans. All nozzle locations should be within 0.3m of their intended locations on the system plans.

**CAUTION:** The piping should be blown clear to remove chips, mill scale, or metal shavings before the nozzles are installed.

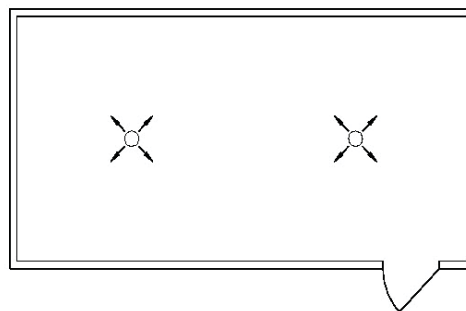


Nozzle Mounting Details

Supports must be close to the nozzle and where drops are significant horizontal bracing must be provided.

### 360° Nozzles

360° Nozzles should be located in a symmetrical, or near symmetrical, pattern within the protected area. 360° Nozzles should be located near the area centerline – discharging toward the perimeter and/or other nozzles. 360° Nozzles are the only nozzles that are available for the Fike ProInert system.



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 Form No. C.2.30.01-2 December, 2011 Specifications are subject to change without notice.