

Kidde Fire Protection NATURA™ (400 Series) Inert Gas System Component Description Acoustic Nozzle Assemblies

FEATURES

- FM Approved and UL Listed for use with the select clean agents of the NATURA™ (400 Series) Inert Gas System
- REACH and RoHS compliant

DESCRIPTION

The NATURA™ (400 Series) Inert Gas System Acoustic Nozzles can be used with three of the Natura™ IGS system inert gas agents: IG-55, IG-100, IG-541.

The acoustic nozzle generates below 110 dB sound pressure level at 1 m (3.3 ft) up to 1.37 kg/second (3.03 lb/second).

Note:

- The 1 1/2 in. Nozzle(s) is CE marked.
- Maximum Coverage of Any Single Nozzle: 116.1 m² (1250 sq. ft.) at the minimum nozzle height of 0.3 m (1 ft.).
- Installation Height Single Level: MAX 4.88 m (16.0 ft.)
- Max. Nozzle Working Pressure: 60 bar.*
- Always verify nozzle and orifice size with flow calculation program.
- Never let working pressure exceed rating of pipe used.
- Temp Range(s):
FM Approved / UL Listed: -20° to 54°C (-4° to 130°F)*
*Unless superseded by local/national standards

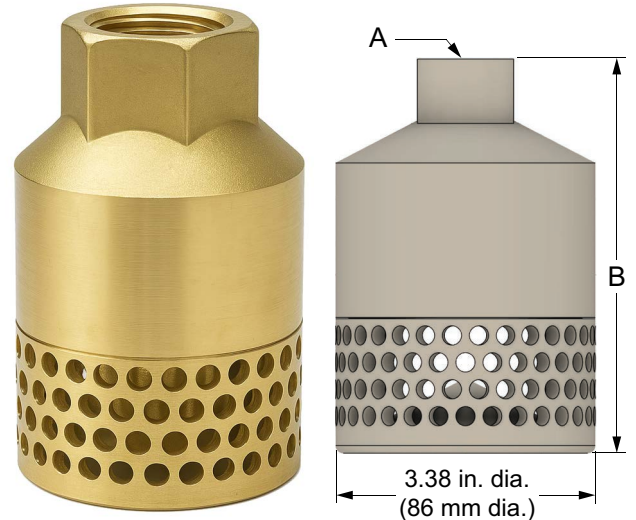


Figure 1. Acoustic Nozzle

Table 1. Sound Pressure Level (dB) (SI Units)

Flow (kg/s)	Distance						
	0.5 m	0.75 m	1 m	1.25 m	1.5 m	1.75 m	2 m
0.15	93.9	90.4	87.9	86.0	84.4	83.1	81.9
0.52	104.2	100.7	98.2	96.3	94.7	93.4	92.2
1.08	110.7	107.2	104.7	102.8	101.2	99.9	98.7
1.09	112.4	108.9	106.4	104.5	102.9	101.6	100.4
1.37	114.3	110.8	108.3	106.4	104.8	103.5	102.3

Table 2. Sound Pressure Level (dB) (U.S. Customary Units)

Flow (lb/s)	Distance					
	2 ft	3 ft	4 ft	5 ft	6 ft	7 ft
0.34	92.2	88.7	86.2	84.3	82.7	81.3
1.15	102.5	99.0	96.5	94.6	93.0	91.6
2.37	109.0	105.5	103.0	101.1	99.5	98.1
2.41	110.7	107.2	104.7	102.8	101.2	99.8
3.03	112/6	109.1	106.6	104.7	103.1	101.7

Table 3. Natura™ IGS Acoustic Nozzle

Part Number	Threading (A)	Length (B)
38-447075-XXX	3/4 in. NPT	130 mm (5.11 in.)
38-447150-XXX	1 1/2 in. NPT	135 mm (5.32 in.)
38-457075-XXX	3/4 in. BSP	130 mm (5.11 in.)
38-457150-XXX	1 1/2 in. BSP	135 mm (5.32 in.)

ORDERING INFORMATION FOR NOZZLES

Part Number	Description
38-447075-XXX	Acoustic Nozzle Assembly, 3/4" NPT, 360°
38-447150-XXX	Acoustic Nozzle Assembly, 1 1/2" NPT, 360°
38-457075-XXX	Acoustic Nozzle Assembly, 3/4" BSP, 360°
38-457150-XXX	Acoustic Nozzle Assembly, 1 1/2" BSP, 360°

Note: A selection of orifices are available for each nozzle size. Consult Kidde Fire Protection manual P/N: 06-237518-001 or addendum P/N: 06-237518-003 for details.

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