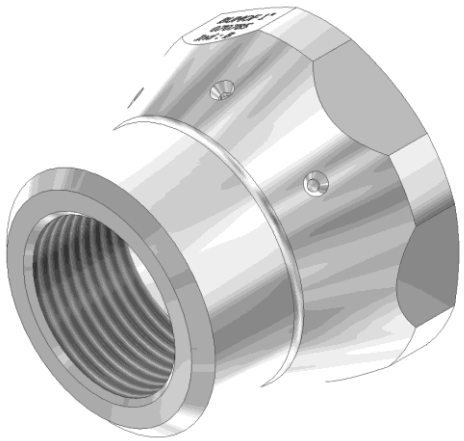
SIEMENS

Sinorix™

BUMOF 3/4", BUMOF 1", BUMOF 1" 1/4

IG-100, FK-5-1-12, HFC 227ea



Distribution nozzle

- Distribution of the extinguishing agent
- Room protection
- For use in modular automatic gas extinguishing systems
- For use in the discharge network of an automatic gas extinguishing system
- For replacement only

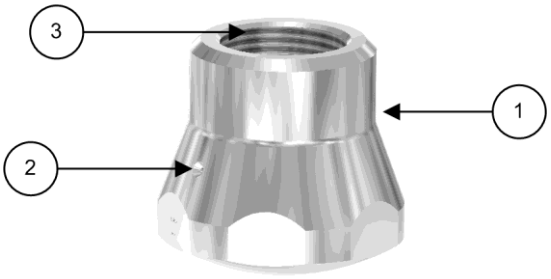
Use

This product is used in fixed Sinorix™ automatic extinguishing systems based on inert gases or halocarbon clean agents.

Functions

The nozzle distributes the extinguishant in the room where it is installed.

Type summary



Item	Description	Item	Description
1	Distribution head	3	Fitting with internal thread 3/4" to 1" 1/4
2	Distribution holes	-	-

Product information

Reference	Description	Product code
BUMOF 3/4"	Distribution nozzle 3/4"	FR2:LB708140008
BUMOF 1"	Distribution nozzle 1"	FR2:LB707850008
BUMOF 1" 1/4	Distribution nozzle 1" 1/4	FR2:LB708860008

Drilling

⚠ WARNING	
	Minimum number of distribution holes The distribution nozzle must be drilled with at least one hole to ensure potential leaks of extinguishant.

The distribution nozzle is drilled on request based on the calculation made using the VdS piping calculation software. The drilled holes are distributed in one row over the distribution head, and are positioned at 70° from the nozzle center.

The nozzle can be drilled as follows:

- 2 holes spaced 50° apart,
- 4 holes spaced 50° apart.

⚠ WARNING	
	Minimum drilling diameter The smallest authorized drilling diameter is 3 mm.

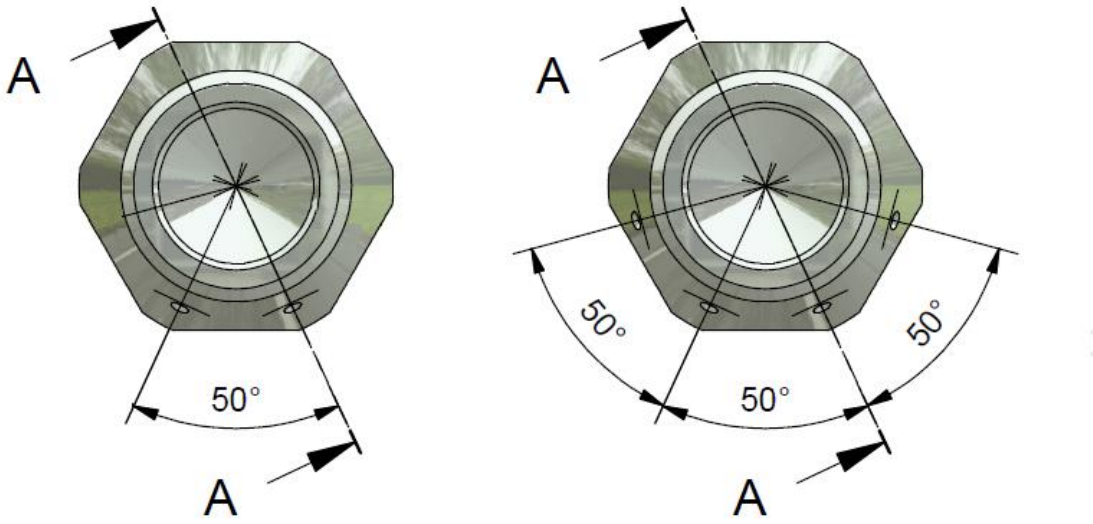


Fig. 1: 2 holes spaced 50° apart, 4 holes spaced 50° apart

Reference	Outer Ø (D)	Length (L)	Maximum drilling diameter 2 or 4 holes spaced 50° apart
BUMOF 3/4"	45	45	9.7
BUMOF 1"	55	55	11.7
BUMOF 1" 1/4	63	65	16

Ordering

When ordering nozzles, provide the following information:

Number of units, number of drillings x drilling angle / drilling diameter

Example:

40 pc 2x50° / 10.5 mm

20 pc 4x50° / 8.3 mm

All distribution nozzles are delivered drilled and stamped with the drilling diameter.

Product documentation

Type	Title	Document ref.
Mounting	Sinorix™ CDT IG-100-200 NXN FR Sinorix™ CDT IG-100-300 NXN FR	A6V12019059
Mounting	Sinorix™ SDT IG-100-200 NXN FR	A6V11387700
Installation, Commissioning, Maintenance	Sinorix™ CDT-V Fixed gas automatic extinguishing systems	A6V10780127
Installation, Commissioning, Maintenance	Sinorix™ fixed automatic extinguishing systems based on halocarbon clean agents	A6V10780132

Notes

Safety

This product may only be installed by Siemens-authorized specialized installers, with experience in the design, installation, and maintenance of automatic extinguishing systems. During installation, it must be ensured that:

- this product is installed in compliance with the accident prevention regulations and national regulations in force,
- this product is used as intended,
- any danger is avoided,
- Siemens requirements are met (assembly instructions, technical instructions, commissioning, and operating instructions),
- the operators have received and understood the information related to this product.

At commissioning, ensure compliance with the legislation in force, technical regulations, and safety instructions.

Failure to comply with Siemens' instructions may result in serious bodily injury or significant property damage, for which Siemens cannot be held liable.

Siemens reserves the right to make technical modifications and/or improvements at any time.

Mounting

Pre-mounting:

- Check that the nozzle drilling is appropriate for the zone to be protected.
- Ensure that piping network supports are positioned so that the thrust cannot move the nozzle when the extinguishing agent is released.

To mount the nozzle:

- Wind PTFE tape around the thread of the discharge piping in the tightening direction.
- Screw the nozzle on the piping thread.
- Tighten the nozzle using an open-ended wrench.

Check that there are no obstacles in the path of the nozzle jets: ensure that there is sufficient space around the nozzle to guarantee effective discharge of the extinguishant.

Check that the nozzle distribution holes are directed as defined when the installation was designed.

Maintenance

Storage

- Store in its original packaging, protected from shocks.

Inspection every six months

- Check that the product is in good condition.
- Check by hand that the product is tightened and rectify this if necessary.
- Check that the nozzle distribution holes are not obstructed.
- Check that the drilling is compliant with the installation drawings.
- Inert gas extinguishing systems: if the nozzle must be replaced, use a 2002- or 2003-type nozzle whenever possible. For more information, refer to the relevant product data sheets:
  - 2002: A6V13414334
  - 2003: A6V13507545

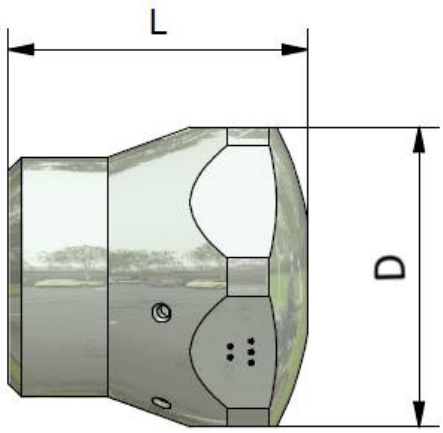
Technical data

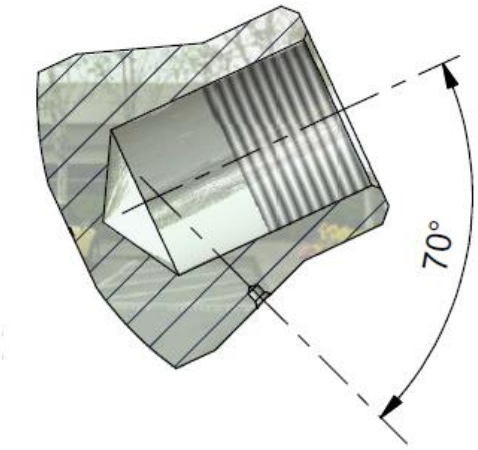
Technical data		
Maximum operating pressure	100 bar	
Fitting	BSPP ISO 7 (Rp) 3/4" to 1" 1/4 internal thread	
Maximum flow rate	Nitrogen	HFC 227ea and FK5-1-12
BUMOF 3/4"	35 kg/min	3.3 kg/s
BUMOF 1"	70 kg/min	5.6 kg/s
BUMOF 1" 1/4	105 kg/min	7.9 kg/s
Maximum distance to the protected risk	5 m	
Fluid carried	Nitrogen, HFC 227ea, FK5-1-12	
Coverage area	39 m²	
Material	Nickel-plated brass	
Temperature	-20 °C to +50 °C	
Weight		
BUMOF 3/4"	0.36 kg	
BUMOF 1"	0.56 kg	
BUMOF 1" 1/4	0.76 kg	

Marking	
	BUMOF xx Code Ind: Revision WW/YY (Week/Year)

Dimensions

Dimensions in mm





Reference	D	L
BUMOF 3/4"	45	45
BUMOF 1"	55	55
BUMOF 1" 1/4	63	65

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