MONITOR NOZZLES

Model LMLV
3 position monitor nozzle
LMLV-100IF / LMLV-100BF

FM APPROVED



PRODUCT DESCRIPTION

The monitor nozzles models LMLV-100IF & LMLV-100BF can be used with either water or any type of foam solutions. They are simple and reliable design. They provide excellent nozzle range and easy of operation.

This solidly constructed industrial nozzle offers superior stream quality and reach. Nozzle discharge pattern is controlled by adjusting the stream pattern sleeve on the nozzle body Suitable for use with water or foam solution.

Manufactured in bronze or stainless steel all with SS internal.

With the ability to deliver optimum performance with any foam concentrate.

Maximum reach on stream is achieved at approximately 30 degrees elevation. The jet stream can be affected by wind direction.

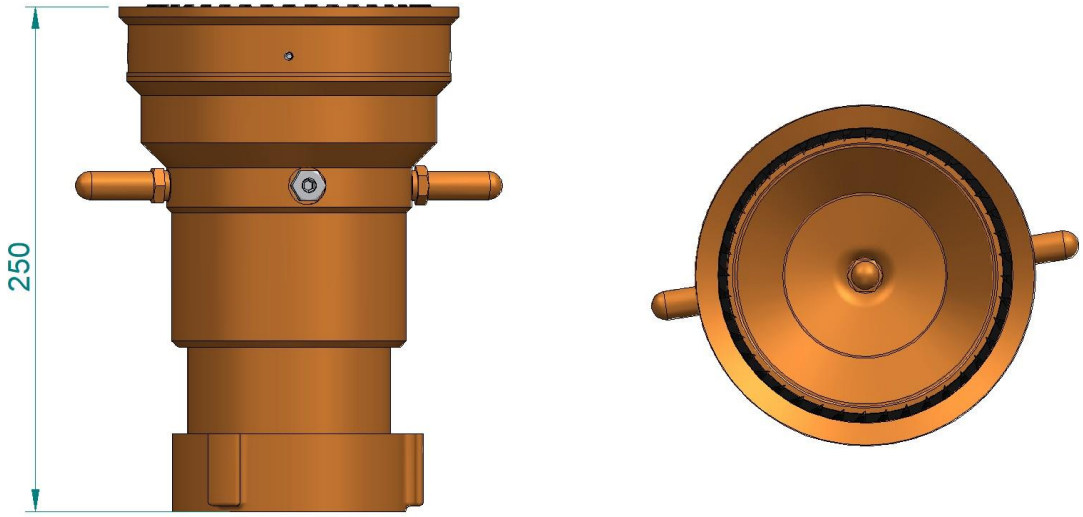
TECHNICAL DATA

Models	LMLV-100IF LMLV-100BF
Water inlet connection	Threaded female 4” BSP
Nozzle flow range	3032 to 7572 lpm (800 to 2000 gpm)
Maximum service pressure	12 bar (175 psi)
Jet and fog pattern	With Spinning teeth 120 degree angle
Material of construction	LMLV-100IF: Stainless Steel LMLV-100BF: Bronze
Weight (Approx.)	LMLV-100IF: 13,4 Kg LMLV-100BF: 12,2 Kg

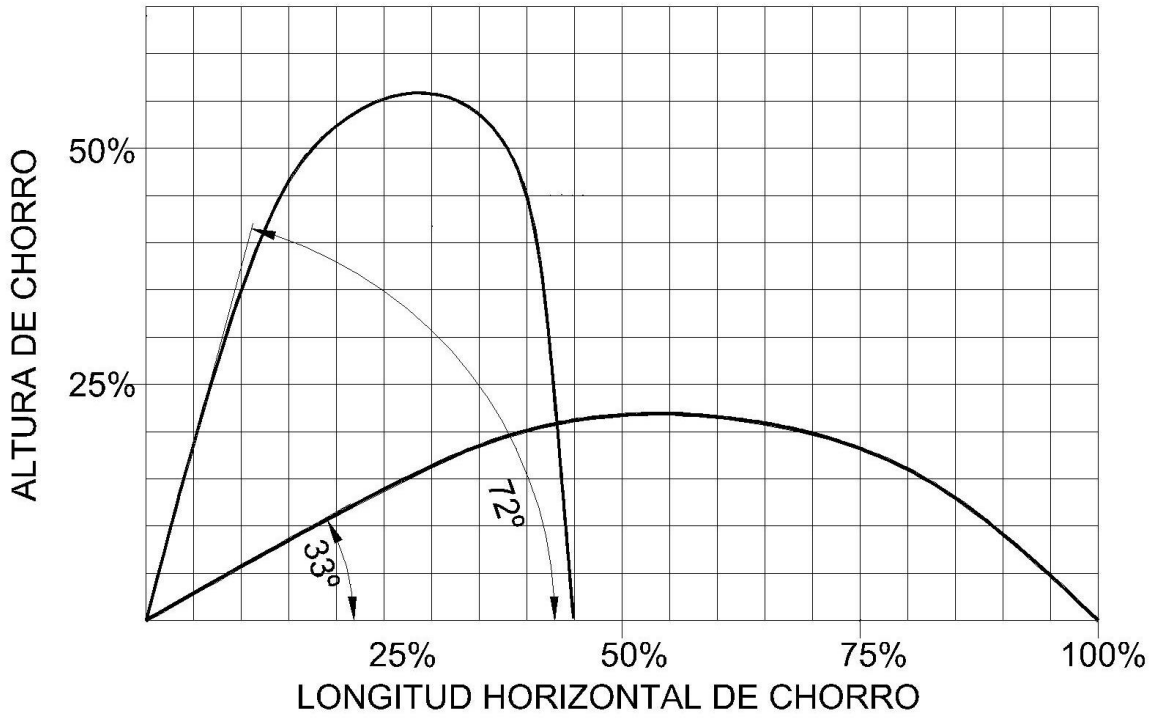
FM approved with bronze material.

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DIMENSIONS



FLOW TRAJECTORY



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PERFORMANCE DATA

MODEL	SET FLOW RATE lpm (gpm)	NOZZLE PRESSURE kg/cm.sq. (psi)	ACTUAL FLOW RATE lpm (gpm)	STRAIGHT STREAM FOAM RANGE meters (feet)
LMLV-100IF LMLV-100BF	3030 (800)	6 (85) 7,4 (105) 8,8 (125)	2712 (716) 3032 (801) 3321 (877)	66 (216) 70 (229) 72 (236)
	3785 (1000)	6 (85) 7,4 (105) 8,8 (125)	3387 (895) 3787 (1000) 4148 (1096)	75 (246) 77 (252) 84 (275)
	4165 (1100)	6 (85) 7,4 (105) 8,8 (125)	3727 (985) 4167 (1101) 4565 (1206)	77 (252) 80 (262) 82 (269)
	4730 (1250)	6 (85) 7,4 (105) 8,8 (125)	4232 (1118) 4732 (1250) 5183 (1370)	77 (252) 81 (265) 82 (269)
	* 5680 (1500)	6 (85) 7,4 (105) 8,8 (125)	5082 (1342) 5682 (1501) 6224 (1644)	78 (255) 82 (269) 83 (272)
	* 6625 (1750)	6 (85) 7,4 (105) 8,8 (125)	5927 (1566) 6627 (1751) 7259 (1918)	77 (252) 83 (272) 84 (275)
	* 7570 (2000)	6 (85) 7,4 (105) 8,8 (125)	6777 (1790) 7572 (2000) 8302 (2193)	79 (259) 84 (275) 85 (278)

Some ranges based on exterpolation of existing data and observations. Data are based at 33 deg. nozzle elevation.

The reach is reduced from to 10% when premixed water foam solution.

INSTALLATION, TESTING AND MAINTENANCE

First of all, after unpacking the nozzle check that it does not have any apparent damage. Do not install the nozzle if show something irregular.

The nozzle must be installed, inspected and tested by a qualified and trained person. It must be inspected regularly for possible damage or dirt around the moving parts. If any abnormal conditions are observed such as poor discharge, excessive wear, water leak, corrosion effect, damage etc., then nozzle must be taken out of service and repaired by a qualified technician or replaced.

The debris trapped in the nozzle may affect the nozzle performance. To remove trapped debris, the water flow must be stopped and thereafter carefully unscrew and remove the nozzle deflector. Clean the nozzle and reassemble. While re-assembling the nozzle or as a normal preventive maintenance, water proof lubricant must be used on seal and moving parts for smooth operation. The nozzle must be operated periodically under full flow straight stream and for fog pattern.

Under normal condition water must be flown through the nozzle periodically and dirt around exterior moving parts must be cleaned, allowing nozzle to operate properly.

The nozzle must be inspected prior to and after each use. Greasing the moving parts and ‘O’ ring is required periodically. Over a time the seals may need to be replaced.

The owner is responsible for maintenance of the nozzle in proper operating condition.

After use with foam, nozzle should be flushed with fresh water.

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CAUTION

A trained personnel for fire fighting, with appropriate guidance & training must use the product to reduce the risk or injury. The nozzle must be fixed to the monitor carefully. The mismatched or damaged threads may cause leakage or uncouple the nozzle during operation.

Application of water or foam on an electric appliance can cause serious injury by electrocution, as water is a conductor of electricity.

The water supply to the nozzle must be gradual. Sudden surge of water supply must be avoided. The monitor mounting must be supported properly to support the nozzle reaction force.

ORDERING INFORMATION

INLET SIZE	MATERIAL	
	BRONZE	STAINLESS STEEL
4” DN100	LMLV-100BF	LMLV-100BF

Specify:

Model	
Quantity	
Material	

The equipment presented in this bulletin is to be installed in accordance with the latest published Standard of the National Fire Protection Association, Factory Mutual Research Corporation, or other similar organizations and also with the provisions of governmental codes or ordinances whenever applicable.
This documentation is not contractual. AG Fire Sprinkler reserves the right to any kind of change without notice.

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