MANUAL MONITOR

Model MV-100IU

Handwheel operated manual monitor

LISTED
EX26766



PRODUCT DESCRIPTION

The monitors model MV-100IU can be used with either water or any type of foam solutions. They are simple and reliable design.

The vertical and horizontal rotation is through corrosion resistant bronze to swiveling joint with two row of stainless steel ball bearing and grease fittings at all rotation joints on monitor.

The monitor has large flow capability and can be manually operated by a single fire fighter. Is designed to prevent the jet reaction forces in the horizontal and vertical position.

Both vertical and horizontal movements are controlled by handle and can be easily adjustable in the two planes by manually operated wheels. Positive locking of the vertical travel is provided with limit switch.

Computer designed guide vanes cast into the body reduce turbulence and spin in the water stream lowering pressure loss and improving jet reach. Flow rate is dependent on nozzle choice.

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TECHNICAL DATA

Model	MV-100IU
Inlet connection	Flange 4” DN100 ANSI B 16.5 # 150 R.F. (Optional : 6” DN150)
Nominal size	4” DN100
Discharge connection	Thread male 4” BSP
Maximum flow	4740 lpm (1252 gpm)
Maximum Operating Pressure	12 bar (175 psi)
Factory hydrostatic test pressure	35 bar (500 psi)
Elevation	90 Deg. above horizontal & 65 Deg. below horizontal by hand wheel
Rotation	360 Deg. continuous by hand wheel
Material of construction	Stainless Steel
Weight (Approx.)	76,5 kg
Finish	Red RAL 3000

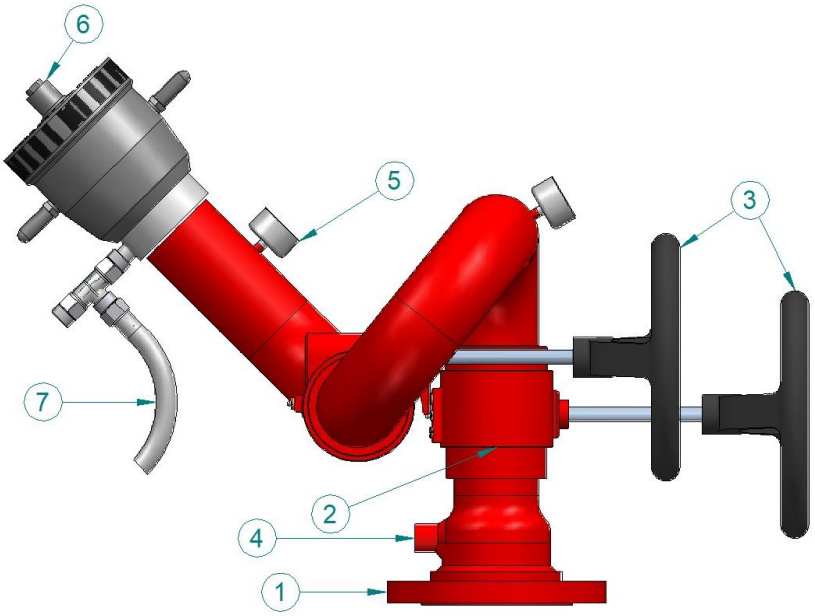
UL listed with foam monitor nozzles LMLA-100IU (for models from 1 to 7)

MONITOR NOZZLES AVAILABLE (UL LISTED)

NOZZLE MODEL	NOZZLE SET	MONITOR INLET PRESSURE	SOLUTION DISCHARGE FLOW RATE
LMAF-100I-500	Fixed	100 psi (7 bar)	500 gpm (1900 lpm)
LMAF-100I-750	Fixed	100 psi (7 bar)	750 gpm (2800 lpm)
LMAF-100I-1000	Fixed	100 psi (7 bar)	1000 gpm (3800 lpm)
LMAS-100I-500-750	500 gpm	100 psi (7 bar)	500 gpm (1900 lpm)
LMAS-100I-500-750	750 gpm	100 psi (7 bar)	750 gpm (2800 lpm)
LMAS-100I-750-1000	750 gpm	100 psi (7 bar)	750 gpm (2800 lpm)
LMAS-100I-750-1000	1000 gpm	100 psi (7 bar)	1000 gpm (3800 lpm)
LMAS-100I-500-1000	500 gpm	100 psi (7 bar)	500 gpm (1900 lpm)
LMAS-100I-500-1000	1000 gpm	100 psi (7 bar)	1000 gpm (3800 lpm)
LMAS-100I-500-750-1000	500 gpm	100 psi (7 bar)	500 gpm (1900 lpm)
LMAS-100I-500-750-1000	750 gpm	100 psi (7 bar)	750 gpm (2800 lpm)
LMAS-100I-500-750-1000	1000 gpm	100 psi (7 bar)	1000 gpm (3800 lpm)

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COMPONENTS



POSITION	DESCRIPTION	MATERIAL
1	Base flange	Stainless steel
2	Swievel joint, vertical & horizontal rotation	Stainless steel
3	Hand wheel	Stainless steel
4	Drain valve	Stainless steel
5	Pressure gauge	From 0 to 16 bar (optional)
6	Nozzle	Stainless steel
7	Pick up tube	PVC

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TESTING AND MAINTENANCE

The nozzle must be installed, inspected and tested by a qualified and trained person. It is recommended to carry out physical inspection of the system regularly, at least once in a year or in accordance to standards of the organization having local jurisdiction. If any abnormal conditions observed such as poor discharge, excessive wear, water leak, corrossion effect, damage etc., then nozzle must be taken out of service and repaired by qualified technician.

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 reassembling 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 jet as well as under fog pattern.

Under normal condition water must be flown through the nozzle periodically and dirt from 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, flush with fresh water.

CAUTION

A trained personnel for fire fighting, with appropriate guidance and 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 under 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.

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ORDERING INFORMATION

MATERIAL	CODE
STAINLESS STEEL	MV-100IU

AVAILABLE NOZZLES			
FIXED WATER FLOW		VARIABLE WATER FLOW	
WATER FLOW	CODE	WATER FLOW	CODE
LMAF-100I-500	LMAF-100I-500	1890 – 2835 lpm	LMAS-100I-500-750
LMAF-100I-750	LMAF-100I-750	2835 – 3780 lpm	LMAS-100I-750-1000
LMAF-100I-1000	LMAF-100I-1000	1890 – 3780 lpm	LMAS-100I-500-1000
		1890 – 2835 – 3780 lpm	LMAS-100I-500-750-1000

Specify:

Model	
Quantity	
Water inlet connection	

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  - Extended Coverage
  - Storage
  - Dry
  - Accessories
- System Valves
  - Wet
  - Dry
  - Preaction Equipment
  - Accessories
- Spray System Open Nozzles
  - High Velocity Nozzles
  - Medium Velocity Nozzles
  - Window Nozzles
  - Hydroshield Nozzles
  - Mushroom Type Nozzles
- Foam equipment
  - Tanks
  - Proportioners
  - Foam Discharge Equipment
  - Foam Concentrates
- Deluge equipment for Water Spray and Foam
  - Clapper Deluge Valves
  - Diaphragm Deluge Valves
- Monitors
  - Manual Monitors
  - Remote Monitors
  - Monitor Nozzles
  - Towers and Trolleys
- Valves
  - Butterfly Valves
  - Gate Valves
  - Check Valves
  - Pressure Control Valves
  - Test and Drain
  - Hose, Hydrant and Fire Connection Valves
  - Fire Department Connections.

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.
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