MANUAL MONITOR

Model MV-100BF

Handwheel operated manual monitor



PRODUCT DESCRIPTION

The monitors model MV-100BF 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. It 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.

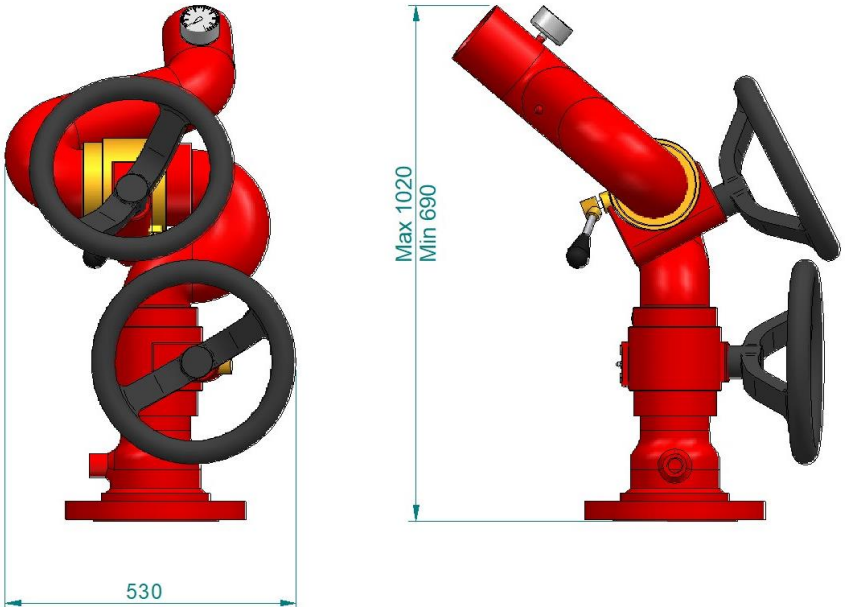
Computer designed guide vanes cast into the body reduce turbulence and spin in the water stream lowering pressure loss and improving jet reach. Flow rate is dependent on nozzle choice.

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TECHNICAL DATA

Model	MV-100BF
Inlet connection	Flange 4” DN100 ANSI B 16.24 # 150 F.F. (Optional : 6” DN150)
Nominal size	4” DN100
Discharge connection	Thread male 4” BSP
Maximum flow	7580 lpm (2000 gpm)
Maximum Operating Pressure	12 bar (175 psi)
Factory hydrostatic test pressure	28 bar (406 psi)
Elevation	90 Deg. above horizontal & 65 Deg. below horizontal by hand wheel
Rotation	360 Deg. continuous by hand wheel
Material of construction	Bronze
Weight (Approx.)	93 kg
Finish	Red RAL 3001

DIMENSIONS



Dimensions are approximate and subject to change.

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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, corrosion 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.

ORDERING INFORMATION

MATERIAL	CODE
BRONZE	MV-100BF

Specify:

Model	
Quantity	
Water inlet connection	

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  - 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.
This documentation is not contractual. AG Fire Sprinkler reserves the right to any kind of change without notice.

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