SELF OSCILLATING MONITOR

Model MP-080B-AO

Water powered self oscillating monitor



PRODUCT DESCRIPTION

The monitor model MP-080B-AO can be used with either water or any type of foam solutions. They are simple and reliable design. Provides excellent nozzle range and easy of operation.

All bronze parts are hot dip galvanized and red RAL 3000 epoxy painted for excellent resistance to normally destructive environments and minimizes maintenance.

Vertical and horizontal rotation is controlled by handle with twist lock wheel. A water drive wheel connected to a double reduction gearbox drive and oscillating mechanism. To operate the drive wheel, a small quantity of flow is diverted from the monitor inlet. The monitor requires no external wiring or hydraulic control for operation.

The monitor has large flow capability and it is self-oscillating. It can be used in high risk areas such as tank farm facilities, aircraft hangars, refineries, chemical plants, and heliports.

The vertical angle of elevation and horizontal arc of oscillation is field adjustable and can be set and locked in position. The monitor can be set to oscillate over a range of 25°-120°, at intervals of 15º-20º, and the oscillation arc can be set anywhere within the 360° field of operation.

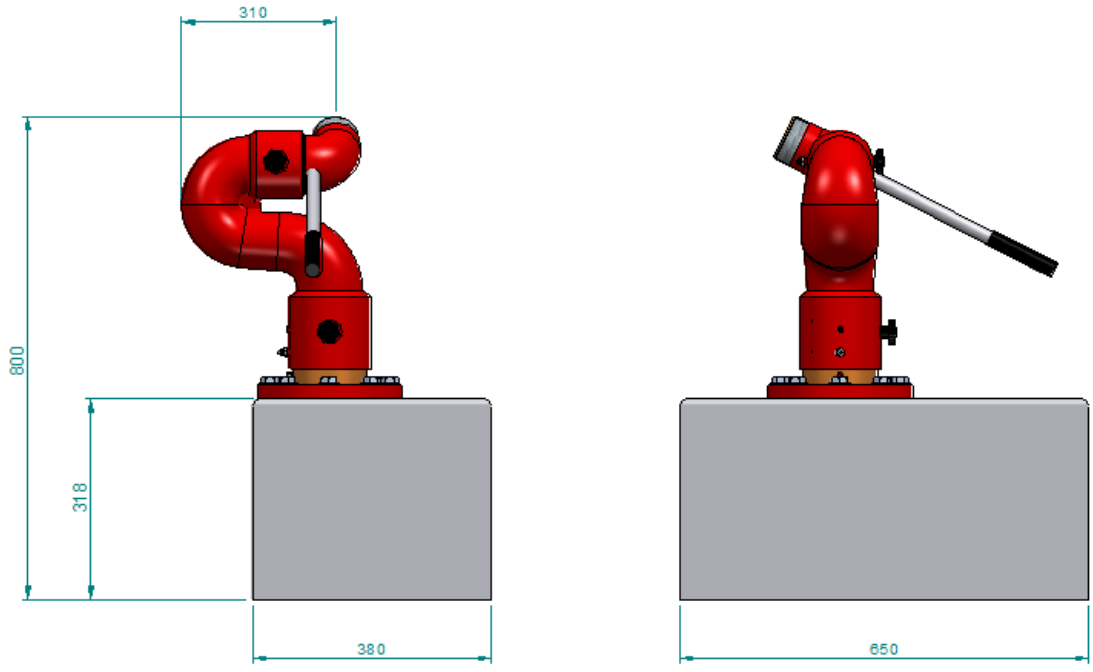
To check of the oscillating mechanism without system flow, the monitor is equipped with a hose test connection.

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TECHNICAL DATA

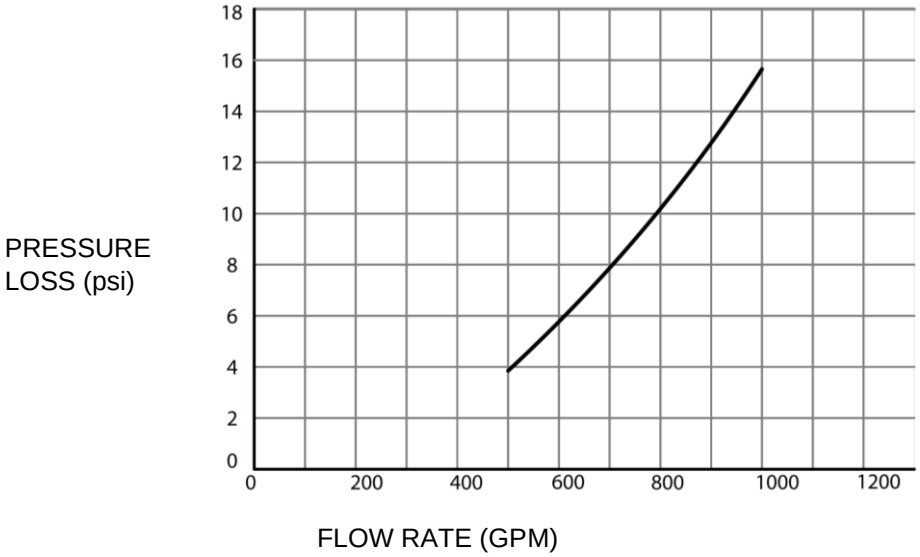
Model	MP-080B-AO
Inlet connection	Flange 4” DN100 ANSI B16.5 150 Lb F.F.
Waterway	3” DN80
Test connection	Thread female ½” BSP
Discharge connection	Thread male 3” BSP (Optional: Threaded male 2 ½” NST (NH))
Maximum flow	With nozzle model LMLV-080BU: 500 gpm (1900 lpm) - 750 gpm (2840lpm) - 1000 gpm (3785 lpm) With nozzle model LMLA-080BU: 500 gpm (1900 lpm) - 750 gpm (2840lpm) (self-inducting)
Service pressure	3,5 bar (50 psi) - 12,5 bar (180 psi)
Factory hydrostatic test pressure	26 bar (377 psi)
Elevation	80 Deg. Above horizontal & 40 Deg. Below horizontal
Rotation	120 Deg. With six set points
Oscillation speed	Adjustable up to 30º/seg at 7 bar (100 psi)
Material of construction	Bronze & stainless steel
Weight (Approx.)	66 Kg
Finish	Red RAL 3000

DIMENSIONS



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FRICTION LOSS THROUGH MONITOR



INSTALLATION, TESTING AND MAINTENANCE

The monitor 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 monitor must be taken out of service and repaired by qualified technician or replaced.

Before assembly of the monitor to the supply piping, thoroughly flush the piping with water to avoid sand, residue, welding slag or other debris hindering the proper functioning of the monitor.

After few initial successful tests, an authorized person must be trained to perform the inspection and testing of the monitor.

The monitor should be ready for use. To achieve this condition, scheduled inspection and maintenance operation should be performed and it must be recorded in the maintenance register book indicating the requirement or recommendation. The recommended maintenance, procedure must be followed as given in the manual and also as per the local authority having jurisdiction.

It is recommended to carry out weekly physical inspection of the monitor. The inspection should verify that no damage has taken place to any component and the monitor is ready for use.

Carry out functional test every month for the flow, regular rotation in horizontal and vertical plane for the entire operating range to observe any leakage.

Periodic proper greasing through grease nipple provided on bearing, worm wheel and worm shaft must be ensured. Use water resistant low friction synthetic grease. Lubrication is required for smooth operation.

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

After use with foam, monitor must 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.

The piping must be able to with stand the horizontal reaction force. Serious injury to personnel and equipment can result from improper installation.

When installing monitor it is very essential that flange bolts be tightened uniformly to prevent cocking of the monitor relative to the flange or valve.

Before flowing water from monitor, check that all personnel are out of stream path and stream direction will not cause avoidable property damage.

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	MP-080B-AO

Specify:

Model	
Quantity	
Flow	
Water inlet connection	
Nozzle model	

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