MANUAL MONITOR

Model MP080I-M065 & MP080I-M080
Tiller operated manual monitor



PRODUCT DESCRIPTION

The monitor model MP080I-M065 & MP080I-M080 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.

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. The design ensures to prevent jet reaction forces from effecting the horizontal and vertical position of the monitor.

The monitor has the ability for 360 deg. constant horizontal rotation and angle of elevation +90 deg. above horizontal and -45 deg. below horizontal. Both vertical and horizontal movements are controlled by handle and can be easily adjustable in the two planes by handle with twist lock.

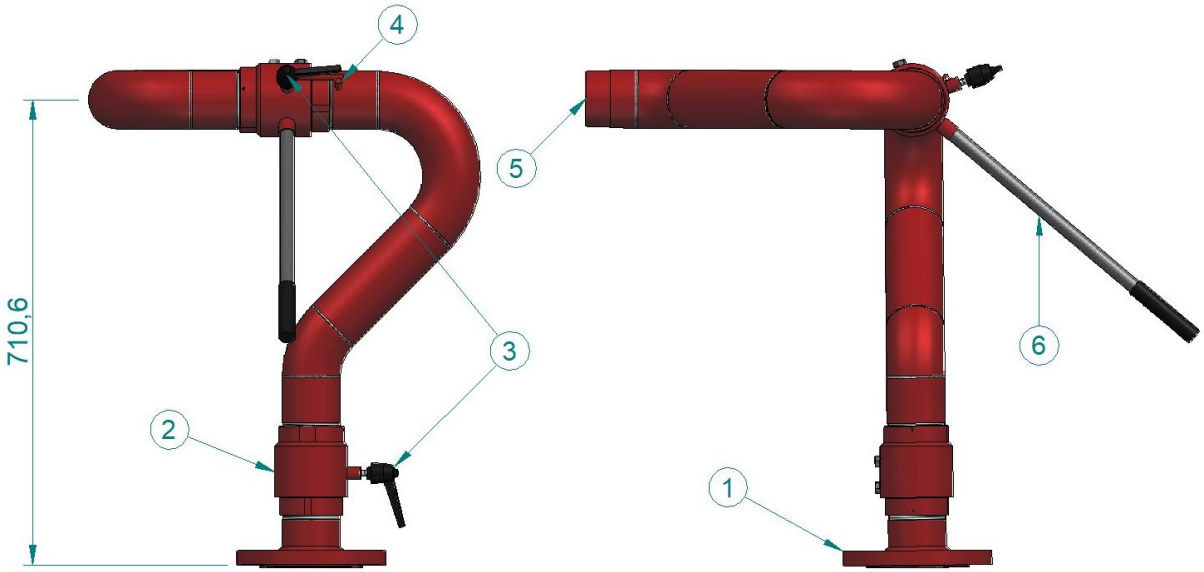
The design reduces turbulence and spin in the water stream lowering pressure loss and improving jet reach. Flow rate is dependent on nozzle choice.

TECHNICAL DATA

Models	MP080I-M065 MP080I-M080
Inlet connection	Flange 3” & 4”compatible with ANSI B16.5 150 Lb & DIN
Waterway	3” DN80
Discharge connection	Thread male 2 ½” BSP Thread male 3” BSP
Maximum flow	MP080I-M065 with nozzle LMFV-065 = 2270 lpm (600 gpm) MP080I-M080 with nozzle LMFV-080 = 3030 lpm (800 gpm)
Maximum service pressure	12 bar (175 psi)
Factory hydrostatic test pressure	35 bar (500 psi)
Elevation	90 Deg. above horizontal & 45 Deg. below horizontal by handle
Rotation	360 Deg. continuous by handle
Material of construction	MP-080I: Stainless Steel
Weight (Approx.)	MP-080I: 32,5 Kg
Finish	Red RAL 3000

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DIMENSIONS



Nº	DESCRIPTION	MATERIAL		QUANTITY
		MP080I-M065	MP080I-M080	
1	3” & 4” Universal Flange (DIN & ANSI)	Cast Steel	Cast Steel	1
2	Greaser 1/8” GAS	Stainless Steel AISI 316	Stainless Steel AISI 316	2
3	Elevation and rotation locking hand grip	Technopolymer	Technopolymer	2
4	Mechanical end of stroke	Stainless Steel AISI 316	Stainless Steel AISI 316	3
5	Threaded outlet connection Φ2 ½” GAS	Stainless Steel AISI 316	Stainless Steel AISI 316	1
6	Elevation manoeuvre lever	Stainless Steel AISI 316	Stainless Steel AISI 316	1

PRESSURE DROP

DELIVERY lpm (gpm)	1500 (390)	2500 (660)	4000 (1060)
PRESSURE DROP at 8 bar bar (psi)	0,52 (7,5)	1,1 (16)	1,9 (27,5)

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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 to be flushed with fresh water.

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	THREAD MALE
STAINLESS STEEL	MP080I-M065	2 ½ " BSP
STAINLESS STEEL	MP080I-M080	3" BSP

Specify:

Model:	
Outlet:	
Quantity:	
Water inlet connection:	

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