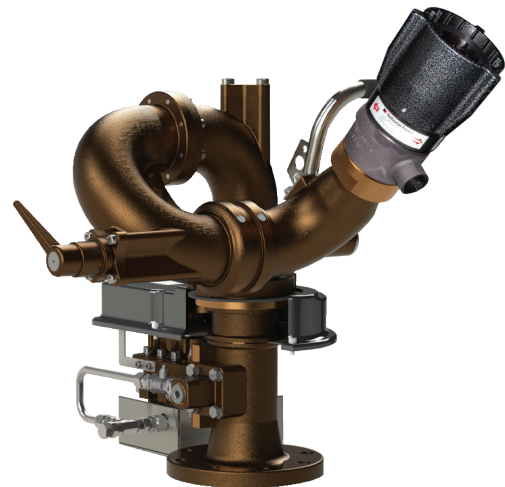


OM-80

WATER POWERED OSCILLATING MONITOR

NDD270

- Long life - Severe Exposure Materials
- Low Maintenance
- Compatible with All NH or BSP Nozzles
- 120° Automatic Oscillation Range; 360° Manual Rotation Range



Description

The National Foam OM-80 is a nominal 3 in. (80mm) waterway Oscillating Monitor, designed to provide optimized hydraulic efficiency and long throw performance when the National Foam Gladiator nozzles or PC Series aspirated nozzles are fitted (nozzles sold separately). The compact low profile configuration, makes this monitor particularly suitable for installation on towers, aircraft hangars, offshore platforms for helideck protection and other areas where space is limited.

The OM-80 is engineered to the highest standards to withstand severe environmental conditions and provide exceptional operational reliability, long life and extremely low maintenance.

A sealed for life gearbox is provided with adjustable sweep angle between 45° and 120° in 15° intervals and an oscillating speed control. Low friction joints ensure easy movement even at high operating pressures. A highly efficient pelton wheel water motor uses small quantities of fire main water to provide power for automatic oscillation. The OM-80 will therefore operate automatically, immediately after start up of the fire pump and requires no secondary (electric) power source. A quick release lever allows

automatic oscillation to be overridden and reengaged easily during operation. When fitted standard with the National Foam Gladiator nozzles the OM-80 is highly effective with water or un aspirated application of foam for fast attack on flammable liquid fires on helidecks, aircraft hangars, process areas, tanker loading bays or diked areas surrounding bulk storage tanks. The OM-80 can also be fitted National Foam aspirated PC Series nozzles which also guarantees optimized foam quality and discharge characteristics. Maximum performance and discharges of up to 250 feet can be achieved depending on nozzle/cannon configuration(see separate nozzle data sheets).

Sealed low friction joints provide easy elevation and horizontal movement even under high operating pressures. The quick and easy Clamp-Lok™ mechanism ensures the monitor is safely locked in position and can be left to operate unattended.

Optional test kit is available.

The test kit requires a separate temporary water test line to test the pelton wheel.

National Foam maintains a Quality Management System which complies with the requirements of ISO9001-2015.

Technical Data

Operating Pressure:

Max:232 psi (16 bar)
Min:73 psi (5 bar)

Test Pressure348 psi (24 bar)

Maximum Flow..... 1189 gpm (4,500 lpm)

Minimum Operating Temp.....-22° F (-30°C)

Inlet Flange Connections:

4" ANSI Class 150 RF (alternatives to special order)

Available Outlet Connections:

- 2", 2½" NH Male
- 2", 2½" BSP Male

Rotation Angle:

Automatic.....45°-120° in 15° intervals
Manual.....360° continuous

Nominal Elevation*:

Max +75° above horizontal (+85° in upright mode)

Nominal Depression*:

- Max -70° below horizontal
- Limited to -5° over gearbox in low profile mode

Nominal Oscillating Frequency:

8 cycles/min @ 102 psi (7 bar)

Nominal Flow Rate Through

Water Motor: 11 gal/min @ 102 psi
(40 litres/min @ 7 bar)

Approximate Weight:

(without nozzle)..... 170 lb (77 kg)

Note: * Low profile to upright mode adjustable on site.

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Materials of Construction -
(Monitor/Gearbox):

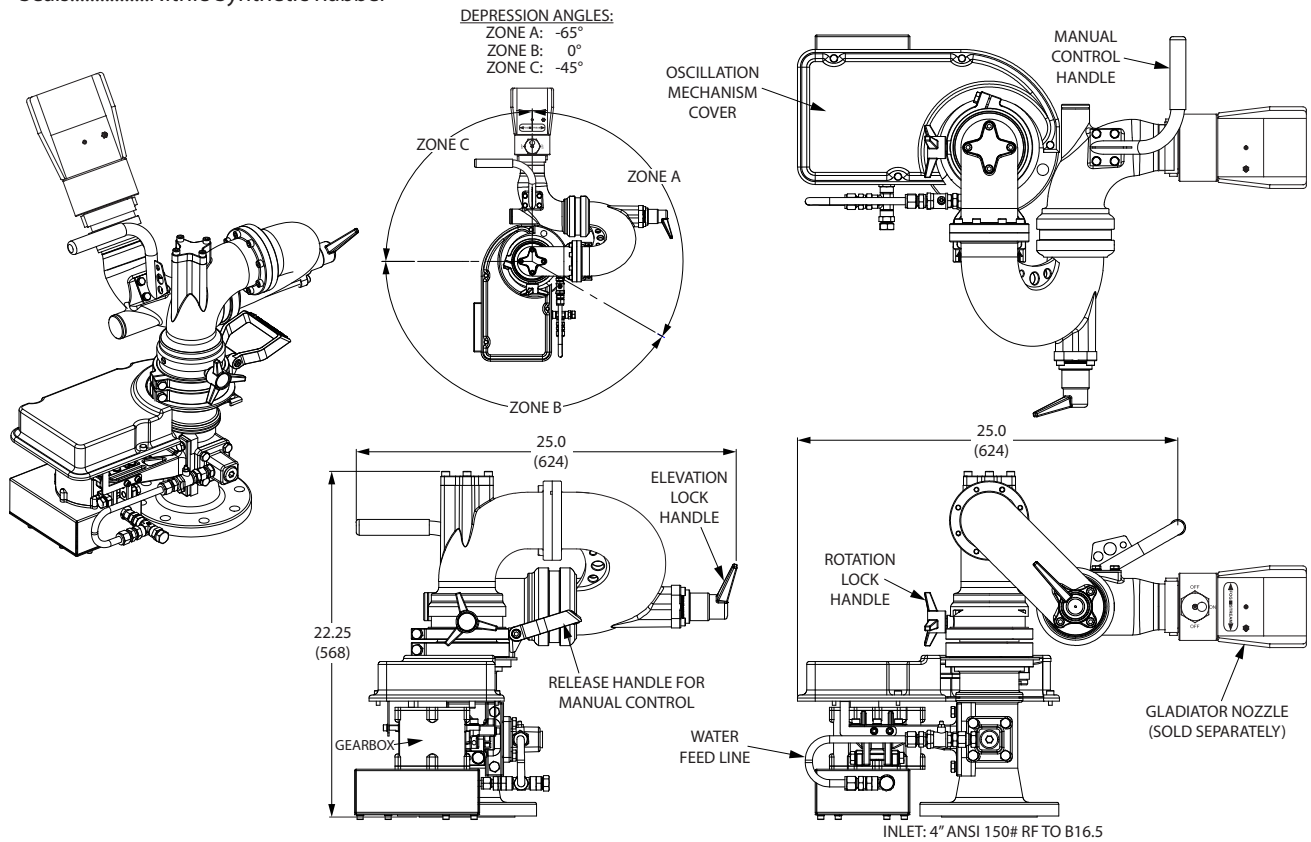
- Monitor BodyAlum Bronze AB2
and
Gunmetal LG2 to BS EN 1982
- GearboxC83600 Brass ASTM B62
- Grab handleStainless Steel 316
- FastenersStainless Steel A2
- SealsNitrile Synthetic Rubber

Finish:

- Monitor.....Natural
(Red to special order)
- Gearbox CoverPhenolic Heat
Resistant Laminate

Optional Test Kit:

- Wet Test Kit (25mm Storz)AE 25657



OM-80 MONITOR
(NOZZLE SHOWN SOLD SEPARATELY)

ORDERING INFORMATION

Part Number	Description	Flow @ 100 psi (6.9 bar)		Weight		Shipping	
		gpm	(kg)	lb	(kg)	Ft ³	(m ³)
1252-2110-6	OM-80 3 Brz. x 2.5 BSP WP Osc. Monitor	600	(2271)	204	93.1	4.2	0.13
1252-2110-9	OM-80 3 Brz. x 2.5 NH WP Osc. Monitor	600	(2271)	204	93.1	4.2	0.13