

OM-80

WATER POWERED OSCILLATING MONITOR

NDD270

- Exceptional operational reliability
- Long life - Severe Exposure
- Low maintenance
- Compact and low profile



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. 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.

Experience has shown a 20+ year life span is achievable, even under harsh conditions. A sealed for life gearbox is provided with adjustable sweep angle between 45° and 120° in 15° intervals and an oscillating speed control. Sealed 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 film forming foams for fast flame attack on hydrocarbon flammable liquids and polar solvents 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 guarantee optimized foam quality and discharge characteristics with the National Foam range of foam concentrates. Maximum performance and discharges of up to 250 feet can be achieved depending on nozzle/cannon configuration(see separate nozzle/cannon data sheets).

National Foam 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.

Two optional test kit are available.

The dry test kit avoids passing any liquid onto the hazard area to allow for periodic oscillation testing of the monitor.

The wet 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)
 [58 psi (4 bar) to special order]

Test Pressure348 psi (24 bar)

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

Inlet Flange Connections:

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

Outlet Connection:

2", 2½" NH Male

Sweep 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
- Limited to -45° or -20° over gearbox in upright mode

Nominal Oscillating Frequency:

8 cycles/min @ 102 psi (7 bar)

Nominal Flow Rate Through

Water Motor: 10 gal/min @ 102 psi
 (30 litres/min @ 7 bar)

Approximate Weight:

(without nozzle) 165 lb (75 kg)

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

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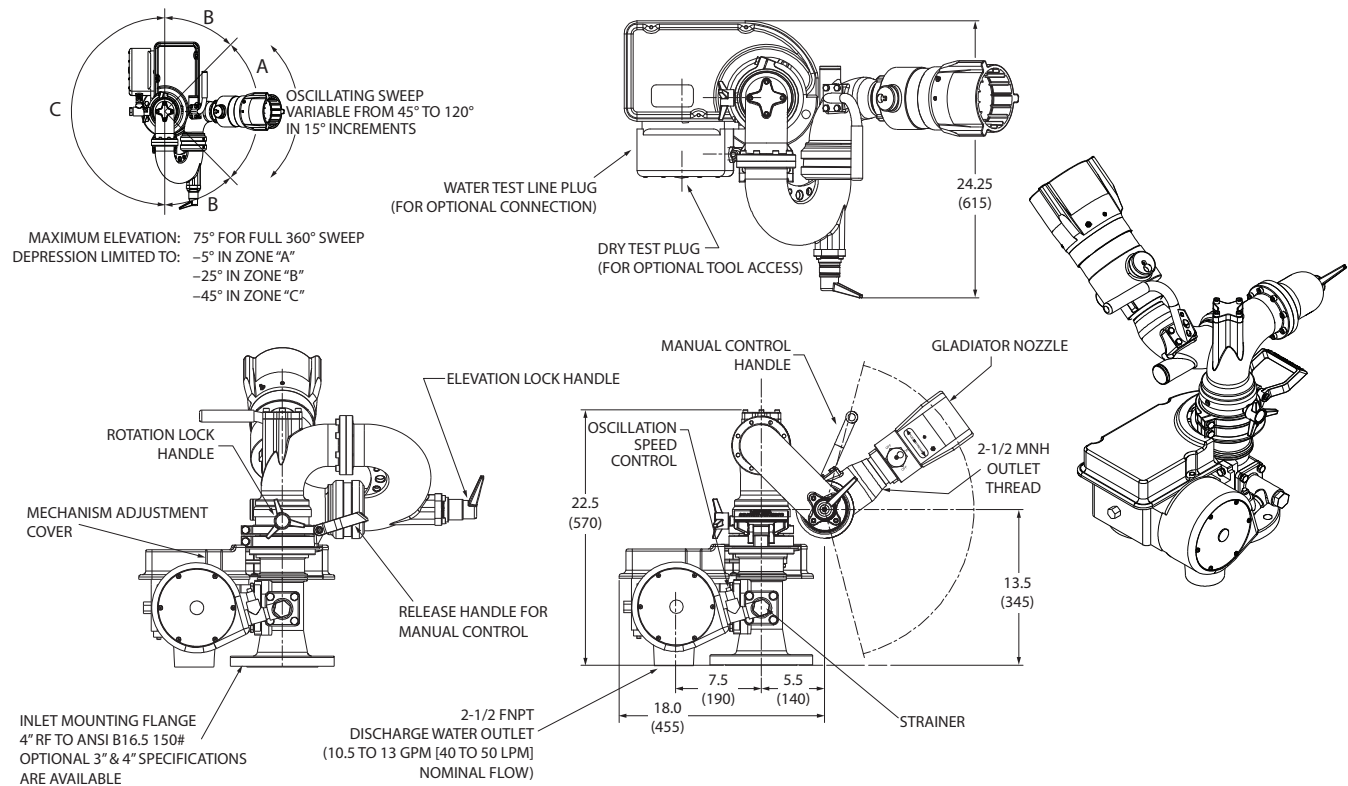
Materials of Construction:

- Monitor BodyAlum Bronze AB2 and Gunmetal LG2 to BS EN 1982
- Gearbox Cast SG iron to BS2789 with phosphor bronze worm wheels, hardened worm shaft and stainless steel input/output shaft
- Water Mtr Pelton Wheel Phosphor bronze to BS EN 1982

- Seals.....Nitrile synthetic rubber
- Finish:
Monitor.....Natural (Red to special order)
- Gearbox CoverPhenolic Heat resistant laminate
- Grab handleStainless steel 316
- Fasteners.....Stainless steel A2
- Optional Test Kits:
Dry test kit AES 25917
Wet test kit (25mm Storz) ..AE 25657

Approvals

- Lloyds Register Rules**(SOLAS)
- Marine & Coastguard Agency**(MCA)
- Note:** ** - OM80 fitted with Angus LTN900, LTN1800 or LTN2700 nozzles.



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 WP Osc. Monitor	600	(2271)	204	93.1	4.2	0.13