



NOZZLES/MONITORS

WATER POWERED OSCILLATING MONITOR

DESCRIPTION

The Buckeye Water Powered Oscillating Monitor is designed to automatically discharge foam/water solution over a specific design area upon system activation. It is suitable for use in high risk areas such as tank farm facilities, aircraft hangars and since the unit has a low profile, it can be used for heliport protection.

The oscillating mechanism is driven by a turbine wheel connected to a double reduction gearbox. To operate the turbine wheel, a small quantity of foam/water solution is diverted from the monitor inlet. The monitor requires no external wiring or hydraulic control for operation. The turbine wheel design is unique in that the flow of foam/water solution used, does not require an inlet filter. This makes the oscillating mechanism highly reliable and less likely to fail.

The monitor is suitable for use with either an air-aspirating foam nozzle or a non air-aspirating type with flows up to 1250 gpm. (4732 lpm) at 100 psi (7 bar.)

The angle of elevation and arc of oscillation are field adjustable and can be set and locked in position. The monitor can be set to oscillate over a range of 0°- 120° and the oscillation arc can be set anywhere within this field of operation. Elevation range of the unit is between +80° and -40°.

SPECIFICATION

The monitor shall be completely self-contained requiring no outside electrical connections or hydraulic controls to ensure correct operation. The oscillating mechanism shall be driven by a turbine wheel and the foam/water solution causing operation of the oscillating mechanism shall not require filtering. The monitor and body of the oscillating unit shall be manufactured of carbon steel with a fuse coat finish. Stainless steel monitors are available options. The turbine wheel is gunmetal with bronze gears and bronze turbine wheel supply gate valve.

FEATURES

- U.L. listed.
- Unique water turbine Wheel design.
- Arc of oscillation adjustable in 1° increments.
- Speed of oscillation adjustable from 0 - 10 cycles per minute.
- Manual override capability with full 360° rotation.
- Minimum operating pressure 40 psi (2.7 Bar.)
- Maximum operating pressure 270 psi (18 Bar.)
- Monitor water way diameter 3" (75 mm.)
- Monitor inlet 4" (100 mm) 150 LB F.F. carbon steel flange with 2 1/2" MNHT outlet.
- Flow of water/foam solution through turbine wheel at 50 psi (3.5 Bar) 5 gpm (19 lpm) 100 psi (7 Bar) 10 gpm (38 lpm.)
- Double reduction gearbox has an oil bath.
- Grease fittings and two rows of stainless steel ball bearings at all rotation joints on monitor.
- Heavy duty nickel/bronze swivels.
- Monitor has one handle for manual control.
- Unit equipped with a garden hose test connection. This allows functional check of the oscillation mechanism without system flow.

ORDERING INFORMATION

BF-WPOM

Oscillating monitor
(Does not include nozzle)

Shipping weight

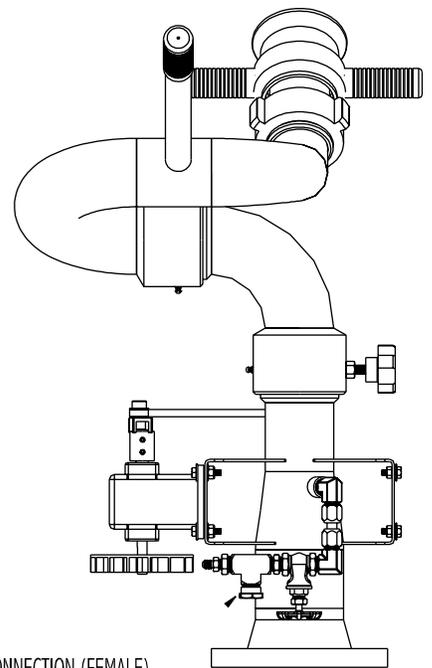
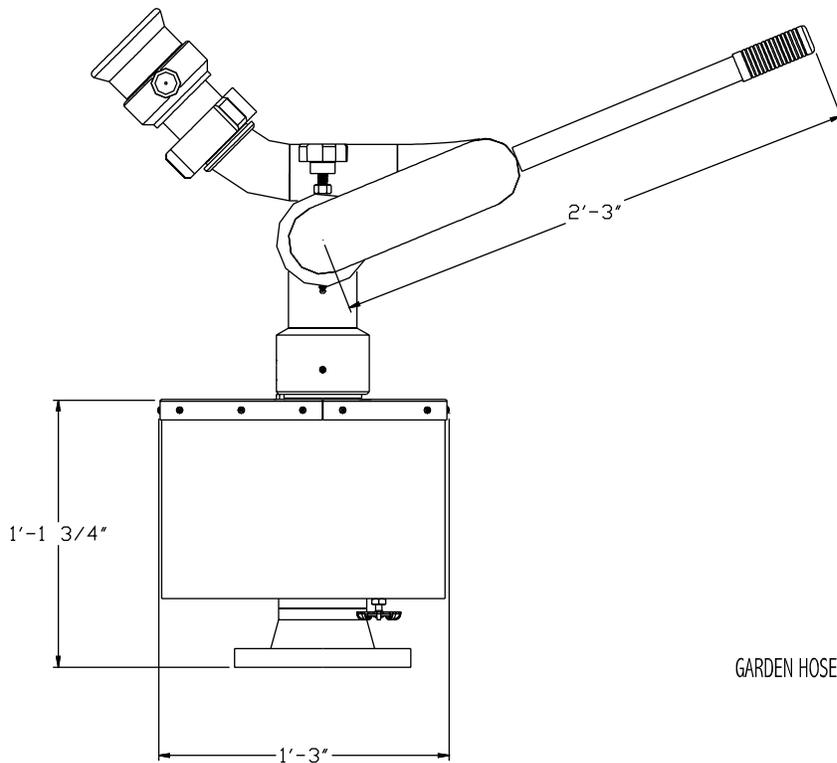
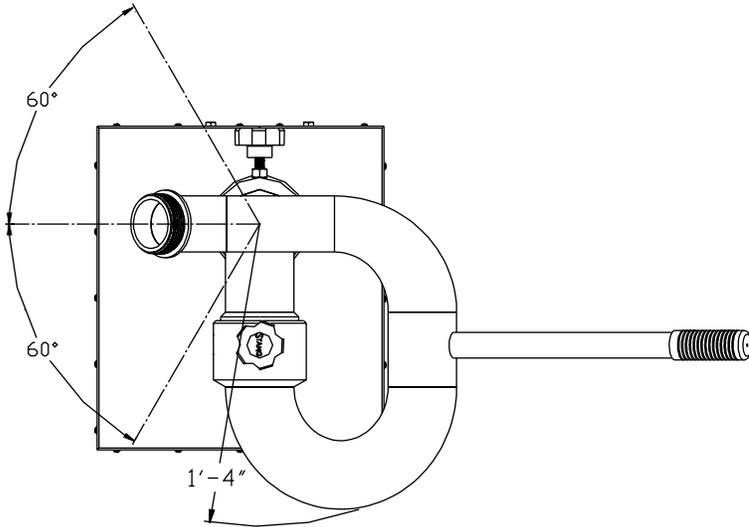
155lbs.





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OSCILLATING MONITOR



GARDEN HOSE CONNECTION (FEMALE)

