



# Water Powered Oscillating Mechanism

Chemguard Water Powered Oscillating Mechanism is designed to be placed between a flanged/valved outlet and an existing or new owner supplied monitor. The monitor will then automatically discharge over a specific area upon system operation. It is suitable for use in high-risk areas such as tank farm facilities, offshore, refineries, chemical plants, process areas and loading racks.

## **SPECIFICATIONS**

A water drive wheel driving a double reduction gearbox drives the oscillating mechanism. To operate the water drive wheel, a small quantity of water-foam solution is diverted from the mechanism inlet. The unit requires no external wiring or hydraulic control for operation. The water drive wheel design is unique in that the flow of water-foam solution does not require a filtering process. This makes the oscillating mechanism more reliable and less likely to fail.

Each unit is suitable for use with any monitor adapted to fit a 4" flange. Each monitor can then be fitted with either an air-aspirating foam nozzle or a non air-aspirating type.

## **FEATURES**

- The body of the oscillating unit is manufactured of brass. The water drive wheel is bronze with a bronze supply gate valve.
- Unique water drive wheel design
- Arc of oscillation adjustable via 6 set points
- Speed adjustable for 0-30°/sec. (24 degrees/sec @100 psi)(7 Bar)
- Minimum operating pressure 40 psi (2.8 Bar)
- Maximum operating pressure 200 psi (14 Bar)

- Flow of water-foam solution through water drive wheel:
  - At 50 psi (3.5 Bar) 5 gpm (19 lpm)
  - At 100 psi (7 Bar) 8 gpm (30 lpm)
- Double reduction oil bath gearbox
- Grease fittings and two rows of stainless steel ball bearings at all rotation joints on unit
- All brass and stainless steel construction
- Unit equipped with a garden hose test connection. This allows functional check of the oscillating mechanism without system flow.
- The mechanism can be set to oscillate over a range of 0-120 degrees

**CHEMGuard**  
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[www.chemguard.com](http://www.chemguard.com)

**ORDERING INFORMATION**

Part Number	Shipping Wt. (Approx.)
CWPOUBF	75 LBS. (34 KG)
EF10401	85 LBS. (39 KG)

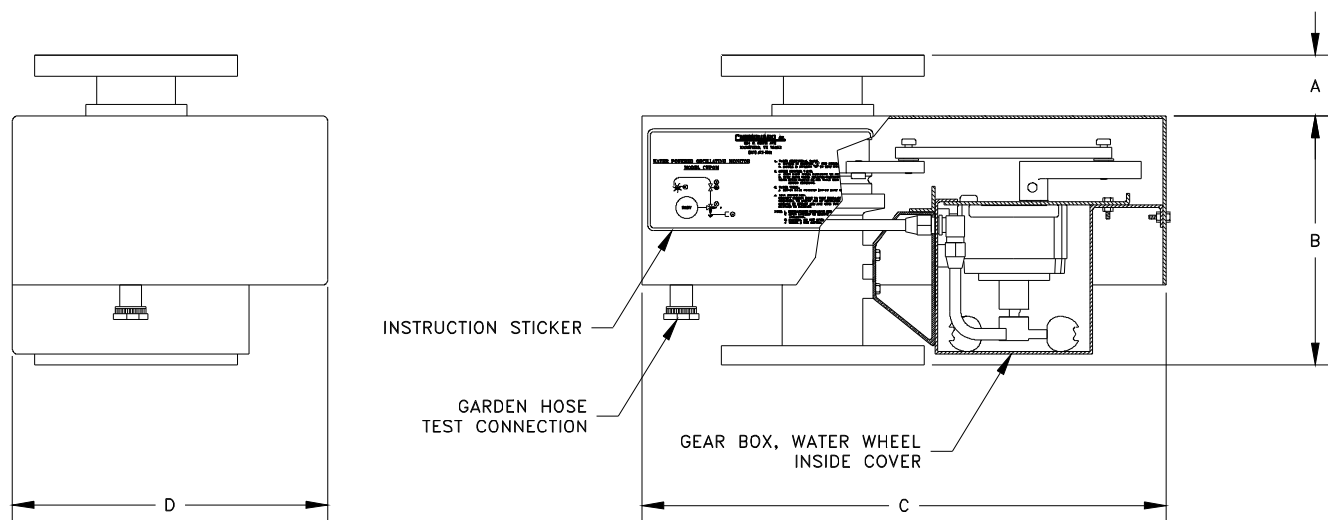
**Note:** Monitors and nozzles sold separately.

**Dimensional/Flow Data**

Part No:	Inlet (mm)	Discharge (mm)	Waterway (mm)	Max. Flow, gpm (lpm)	A(cm)	B(cm)	C(cm)	D(cm)
CWPOUBF	4"(100)	4"(100)	3"(76)	1250(4740)	3"(8)	11"(28)	23"(58)	14"(36)
EF10401	4"(100)	4"(100)	4"(100)	2000(7570)	3"(8)	11"(28)	23"(58)	14"(36)

Note:

1. Monitor inlets are ANSI Class 150 Flat Face flanges.
2. Monitor discharges are ANSI Class 150 Flat Face flanges.
3. Maximum operating pressure is 200 psi.
4. Dimensions are approximate and subject to change.



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