



Water Powered Oscillating Monitors

Chemguard Water Powered Oscillating Monitors are designed to automatically discharge over a specific design area upon system activation. These are suitable for use in high risk areas such as tank farm facilities, aircraft hangars, offshore, refineries, chemical plants, and heliports.

SPECIFICATIONS

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

The vertical angle of elevation and horizontal arc of oscillation is 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 the 360° field of operation. Elevation range of the unit is between +80° and -40°.

FEATURES

- The monitor and body of the oscillating unit are manufactured of brass. The water drive wheel is bronze with bronze supply gate valve.
- CWPOM is UL Listed with CMNB350, CMNB500 and CMNB750 monitor nozzles only
- Capable of flowing foam or water
- Unique water drive wheel design
- Arc of oscillation adjustable via 6 set points
- Speed of oscillation adjustable from 0°-30°/sec. (24° /sec. @ 100 psi)

- Manual override capabilities in both horizontal and vertical degree fields
- 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 monitor
- All brass and stainless steel construction
- Monitor has one tiller bar control for manual control
- Unit equipped with a garden hose test connection. This allows functional check of the oscillation mechanism without system flow.

ORDERING INFORMATION

Part No:	Approx. Shipping Weight
CWPOM	120 LBS. (54 KG)
EF10155	150 LBS. (68 KG)

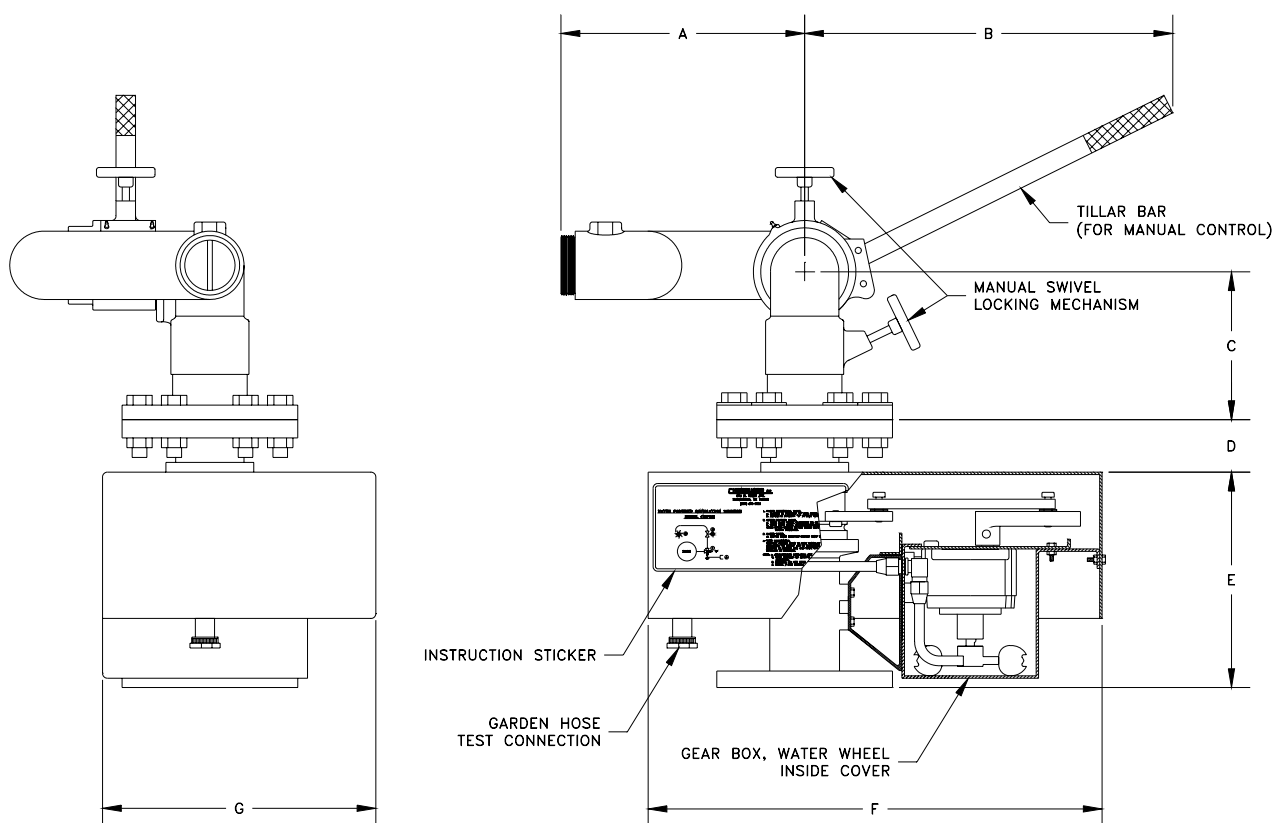
Note: Monitor nozzles sold separately.

Dimensional/Flow Data

Part No.	Inlet	Discharge	Waterway (mm)	Max. Flow GPM(lpm)	A (cm)	B (cm)	C (cm)	D (cm)	E (cm)	F (cm)	G (cm)
CWPOM	4"	2-1/2"	3" (76)	1250 (4740)	13" (33)	17" (43)	8" (20)	3" (8)	11" (28)	23" (58)	14" (36)
EF10155	4"	3-1/2"	4" (100)	2000 (7570)	14.5" (37)	18.8" (48)	8" (20)	3" (8)	11" (28)	23" (58)	14" (36)

Note:

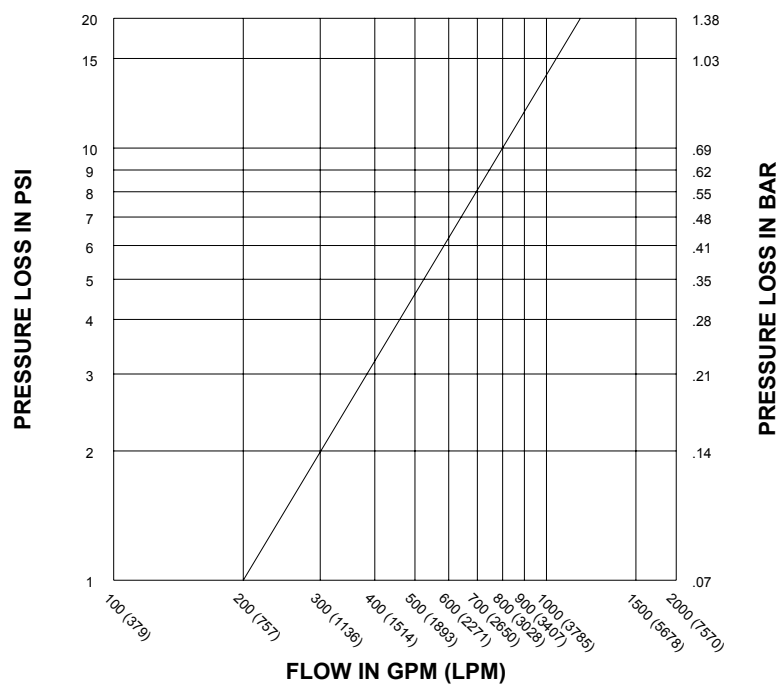
1. Monitor inlets are ANSI Class 150 Flat Face flanges.
2. Monitor discharges are Male NST threads.
3. Flow Ratings are at 100 psi. Maximum operating pressure is 200 psi.
4. Dimensions are approximate and subject to change.



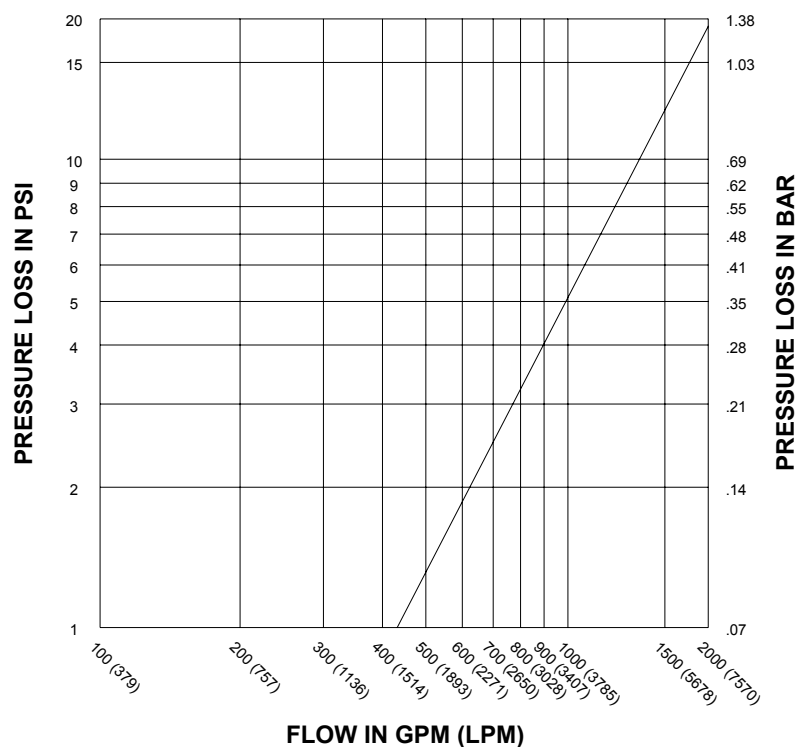
WATER POWERED OSCILLATING MONITOR

CHEMGUARD
 204 S. 6th Ave • Mansfield, Tx 76063 • (817) 473-9964 • FAX (817) 473-0606
www.chemguard.com

CM-1250 SERIES AND CWPOM MONITOR PRESSURE LOSS VS. FLOW CHART



CM-2000 SERIES AND EF10155 MONITOR PRESSURE LOSS VS. FLOW CHART



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Water Powered Oscillating Monitor Range Data

Chemguard Water-Powered Oscillating Monitor Range Data - Reach in Feet (Height in Feet**)							
Monitor Model Number	Monitor Elevation Angle	Monitor Inlet Pressure - PSI (Bar)					
		50 - (3.45)		100 - (6.9)		150 - (10.3)	
		Fixed	Oscillating	Fixed	Oscillating	Fixed	Oscillating
CWPOM-350	5	60 (8)	55 (8)	110 (10)	100 (9)	135 (12)	120 (10)
	15	90 (15)	80 (14)	135 (20)	125 (18)	170 (23)	150 (21)
	30*	100 (25)	90 (23)	145 (32)	135 (30)	175 (39)	155 (35)
CWPOM-500	5	65 (9)	60 (9)	115 (10)	105 (9)	150 (13)	135 (11)
	15	95 (16)	85 (15)	155 (23)	145 (21)	185 (25)	165 (23)
	30*	105 (26)	95 (24)	165 (36)	150 (33)	200 (44)	180 (40)
CWPOM-750	5	70 (10)	65 (10)	120 (11)	105 (11)	160 (14)	140 (13)
	15	98 (16)	88 (16)	155 (23)	146 (21)	185 (25)	168 (23)
	30*	115 (28)	98 (25)	170 (36)	150 (33)	210 (45)	183 (42)
CWPOM-1000	5	70 (10)	65 (10)	125 (11)	107 (11)	165 (14)	145 (13)
	15	95 (16)	85 (16)	155 (24)	136 (22)	190 (25)	170 (23)
	30*	120 (27)	100 (25)	200 (38)	170 (35)	225 (46)	190 (43)
CWPOM-1200	5	75 (11)	70 (11)	130 (11)	115 (11)	168 (14)	145 (13)
	15	100 (16)	90 (16)	165 (25)	150 (24)	195 (25)	170 (24)
	30*	130 (28)	110 (27)	225 (38)	195 (35)	230 (46)	195 (44)
CWPOM-2000	5	85 (12)	80 (11)	140 (12)	125 (12)	180 (15)	160 (14)
	15	115 (18)	105 (16)	180 (26)	165 (25)	210 (27)	190 (26)
	30*	150 (32)	130 (28)	260 (43)	220 (40)	275 (50)	240 (48)

* Maximum discharge range is achieved at approximately 30-35 degrees elevation

** Some ranges based on extrapolation of existing data and observations

NOTE: Maximum height of discharge stream is usually found at approximately 65% of maximum discharge range from nozzle, not at maximum discharge range.

Water Powered Oscillating Monitor Range Data In Meters

Chemguard Water-Powered Oscillating Monitor Range Data - Reach in Meters (Height in Meters**)							
Monitor Model Number	Monitor Elevation Angle	Monitor Inlet Pressure - PSI (Bar)					
		50 - (3.45)		100 - (6.9)		150 - (10.3)	
		Fixed	Oscillating	Fixed	Oscillating	Fixed	Oscillating
CWPOM-350	5°	18(2.4)	17(2.4)	34(3)	31(3)	41(4)	37(3)
	15°	27(5)	24(4)	41(6)	38(6)	52(7)	46(6)
	30°*	30(8)	27(7)	44(10)	41(9)	53(2)	47(11)
CWPOM-500	5°	20(3)	18(3)	35(3)	32(3)	46(4)	41(3)
	15°	29(5)	26(5)	47(7)	44(6)	56(8)	50(7)
	30°*	32(8)	29(7)	50(11)	46(10)	61(13)	55(12)
CWPOM-750	5°	21(3)	20(3)	37(3)	32(3)	49(4)	43(4)
	15°	30(5)	27(5)	47(7)	45(6)	57(8)	51(7)
	30°*	35(9)	30(8)	52(11)	46(10)	64(14)	56(13)
EF10155-1000	5°	21(3)	20(3)	38(3)	33(3)	50(4)	44(4)
	15°	29(5)	26(5)	47(7)	41(7)	58(8)	52(7)
	30°*	37(8)	31(8)	61(12)	52(11)	69(14)	58(13)
EF10155-1200	5°	23(3)	21(3)	40(3)	35(3)	51(4)	44(4)
	15°	31(5)	27(5)	50(8)	46(7)	59(8)	52(7)
	30°*	40(9)	34(8)	69(12)	59(11)	70(14)	59(13)
EF10155-2000	5°	26(4)	24(3)	43(4)	38(4)	55(5)	49(4)
	15°	35(6)	32(5)	55(8)	50(8)	64(8)	58(8)
	30°*	46(10)	40(9)	79(13)	67(12)	84(15)	73(15)

* Maximum discharge range is achieved at approximately 30-35 degrees elevation.

** Some ranges based on extrapolation of existing data and observations.

NOTE: Maximum height of discharge stream is usually found at approximately 65% of maximum discharge range from nozzle, not at maximum discharge range.