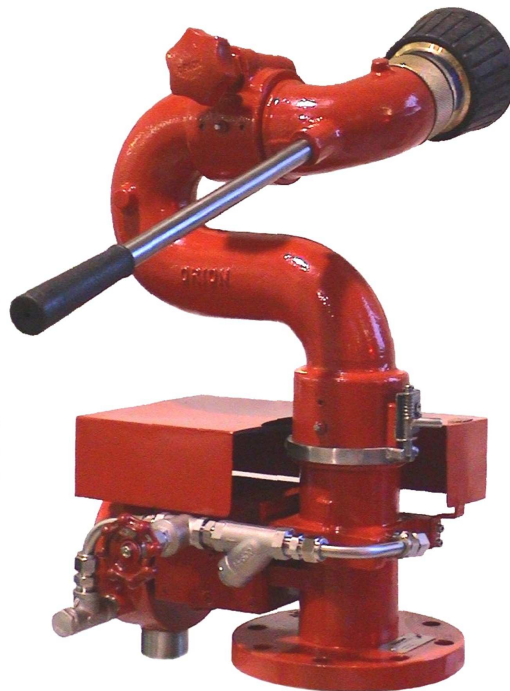


# Monitors

## Warden Water Oscillating Monitor Model 8535

### Description

The Warden model 8535 is an 80mm water oscillating monitor designed specifically for offshore applications. It is based on our standard WARDEN water way. The Model 8535 has a friction swivel lock and a Pelton turbine oscillating unit.



All metal components which are exposed to water / foam solution are made from stainless steel, bronze or copper. The arc of movement is 120 degrees (maximum) and is fully adjustable. The movement speed is also adjustable. There are no aluminium parts in the unit.

The operating pressure range for these units is 500 kPa to 1,500 kPa. The maximum recommended flow is 4,500 lpm.

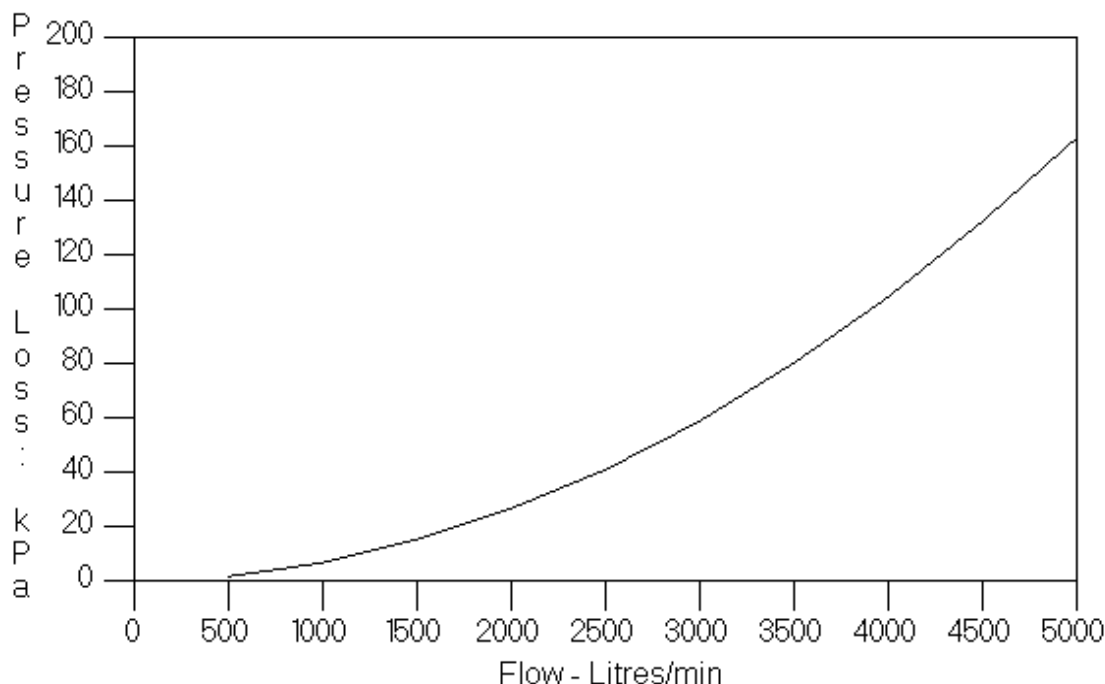
Waste water discharge is controlled and maybe directed away using a 50mm hose.

### Specifications

Height:	590mm
Width:	450mm
Depth:	250mm + handle & nozzle
Nozzle Height:	500mm

## Performance Data

### Friction Loss Curve



Operating Pressures:	400 kPa - 1,500 kPa
Hydrostatic Test Pressure:	2,500 kPa
Flow Range:	up to 4,500 lpm
Elevation Adjustment:	-60° to +70°
Horizontal Sweep:	Adjustable from 30° to 120° (auto) 360 degrees on manual
Oscillating Speed:	Adjustable, 8 cycles/minute max
Oscillating Unit Water Consumption:	36 litres per minute (approx.)
Inlet Flange:	3" ANSI #150 or 4" ANSI #150
Outlet Connection:	65mm BSP Male
Weight:	35 kg

## Materials of Construction

Component	Material
Monitor water way	Bronze (LG2, C83600)
Inlet flange	316SS (RF) or Bronze (LG2, C83600) (FF)
Turbine impeller	Bronze
Nozzle	Bronze (LG2, C83600)
Turbine water supply	Stainless steel 316
Valves	Stainless steel 316
Gearbox	Bronze & stainless steel
Cover	Stainless steel

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## Operation

In normal operation the monitor is operated automatically with no operator present. For this mode of operation the monitor is set up with the nozzle aimed and locked in the desired position (elevation) and the monitor limits are set to the desired sweep range. The nozzle has a fixed elevation setting and spray pattern.

To manually operate the monitor, move the "AUTO/MANUAL" latch to the up position. The monitor will stop sweeping (if in operation) and may be manually moved. The elevation adjustment for the monitor is made by undoing the vertical swivel lock knob and using the handle provided (optional) to adjust the elevation setting. The monitor may be re-locked in a new position or continuously moved. If fitted with an adjustable nozzle the spray pattern may be adjusted also.

In order for the monitor to comply with the requirements of NFPA 409 (Aircraft Hangars) the Auto/Manual latch may be locked in the Auto position using a padlock.

The monitor oscillation unit may be tested without discharging water through the monitor by closing the gate valve and connecting a water supply to the test port.