MONSOON

ANGUS FIRE

MONITOR RANGE

Premium Range Of Fire Fighting Monitors & Nozzles

FM APPROVED

Angus Monsoon is a premium range of approved monitors and nozzles, designed and built for use in the harshest of environments, where demanding specifications combined with rugged materials of construction are paramount to provide longevity of service alongside powerful, uncompromising performance.

Water and foam fire monitor protection can be considered for use with all industrial fire hazards, however some applications should be considered more critical or extreme than others due to their location or the nature of the risk being protected.

The Angus Monsoon range is ideally suited for fire hazards present in:

- Fuel Storage Terminals, Refineries & Chemical Processing Plants
- Marine terminals & Loading Jetties
- FPSOs and FLNGs
- Offshore Platforms & Helicopter Landing Pads
- Aircraft Hangars
- LNG/LPG Terminals

The Angus Monsoon monitor range, along with selected nozzles, are FM approved – FM 1421 & FM 5511.

The entire range is approved to a working pressure of 16 bar. This is the highest operating pressure currently available for FM approved monitors.

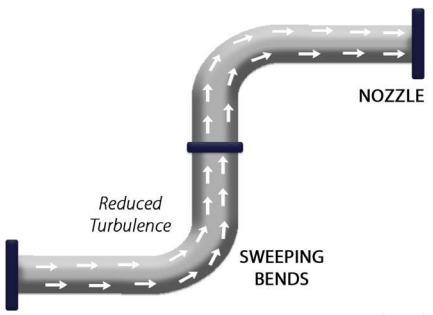
Bronze and NAB are the preferred materials for sea water useage, and for coastal or offshore installations. The Angus Monsoon Monitor range is available in Cast Bronze or Cast Nickel Aluminium Bronze:

Material	Composition	EN	ASTM
Bronze Gunmetal	Cu Sn5 Pb5 Zn5	EN 1982 CC491K	ASTM B62 C83600
Marine Bronze	Cu Sn7 Pb3 Zn2	EN 1982 CC492K	Similar to ASTM B61 C92200
Material	**Composition**	**EN**	**ASTM**
Nickel Aluminium Bronze	Cu Al9 Fe5 Ni5	EN 1982 CC333G	ASTM B148 C95800

Designed For Optimum Performance

The ergonomic design of the Angus Monsoon Monitor range allows movements on the vertical & horizontal planes by direct transference of force to the monitor joints, making movement very smooth. The joints are built into the monitor cast using a double channel system to contain the ball bearings.

The "S" shaped body is designed to balance reaction forces, reduce pressure loss and finally couple the monitor with multiple discharge outlet options such as water or foam cannons and jet / fog nozzles.

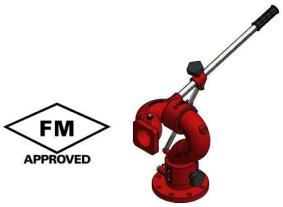


'S' shaped design reduces water stream turbulence

Monsoon Manual Monitors

Monsoon Hand Lever Monitor (AMM)

A hand lever operated, manual monitor with single water way body. Simple to operate, the AMM monitor is capable of flows up to 3,000 lpm (750 gpm) with inlet flanges of 3" or 4" UNI or ANSI. Refer to table on page 2 for material options.

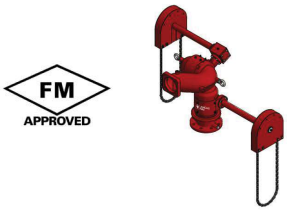


Monsoon Wheel Operated Monitor (AMW)

A geared hand wheel operated monitor with single water way body. Simple to operate, the AMW monitor is capable of flows up to 20,000 lpm (5,200 gpm), with inlet flanges of 3", 4", 6" or 8" UNI or ANSI. Refer to table on page 2 for material options.

Monsoon Chain Operated Monitor (AMC)

A chain operated monitor for elevated installations, with single water way body. Easy to operate, the AMC is capable of delivering flows up to 20,000 lpm (5,200 gpm) with inlet flanges of 3", 4", 6" or 8" UNI or ANSI. Refer to table on page 2 for material options.



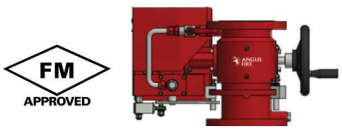
Monsoon Oscillating Monitors

Monsoon Oscillating Monitor (AMWO)

A self-oscillating monitor designed to automatically sweep on the horizontal plane, with a manual hand wheel override operation. Simple to operate, the AMWO monitor is capable of flows up to 20,000 lpm (5,200 gpm), with inlet flanges of 3", 4", 6" or 8" UNI or ANSI. Refer to table on page 2 for material options.

Monsoon Oscillating Unit Only (AMO)

A universal self-oscillating unit that can be installed at the base of manual monitors in order to gain an automatic horizontal oscillating movement. Powered by a Pelton turbine that transforms the energy of water pressure into a rotating movement. Refer to table on page 2 for material options.



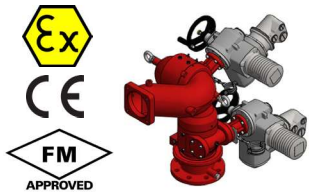
Monsoon Nozzle Options

Jet/Fog Nozzle (AMN)

A range of Jet to full Fog Nozzles with variable flow options. Flows can be selected from 1,300 up to 8,000 lpm across the range. The nozzle is easily adjusted from jet to fog spray pattern by rotating the two levers located on the nozzle body. At constant pressure the flow rate of the nozzle can be adjusted by rotating the regulator on the front. Refer to table on page 2 for material options.

Monsoon Remote Controlled Monitors

Monsoon Remote Control Monitor (AMRC)



A rugged electric remote controlled monitor with single water way body. The Monsoon AMRC is suitable for installation in hazardous areas classified ATEX zone 1 G and zone 21 D and can also be supplied in SIL 2 configuration, for integration in control systems where certified levels of safety and availability are requested. Capable of delivering flows of up to 20,000 lpm (5,200 gpm) with inlet flanges of 3", 4", 6" or 8" UNI or ANSI. Refer to table on page 2 for material options.

Monsoon Remote Control Nozzle (AMNC)

The Monsoon Remote Control Nozzle is an electric operated nozzle used as a flow pattern regulating device on firefighting monitors. It is capable of projecting flows of water from 1,300 lpm up to 8,000 lpm. The nozzle can be adjusted from jet to fog pattern via an electric actuator located on the external nozzle body. Refer to table on page 2 for material options.

AMRC Monitor and AMNC Nozzle movements are controlled by Electric Actuators ATEX II 2 G Ex d e IIC T4 with IP 67 rating. Optional Voltage, Phasing and Hertz cycles available.

Monsoon Remote Control Panels

Monsoon Local Control Panel

Local Push Button remote control and power unit to be used in Hazardous location with ATEX and IP 67 rating. Can be used to control multiple monitors and can be linked to a Podium unit in a safe location to provide multiple control locations.

Monsoon Podium Control Panel

Desk Top/Podium remote control and power unit for safe operation location with IP 55 rating. Can be used as the master control panel or as a slave panel. Typical Joy Stick and push button monitor control configurations.

Optional Voltage, phasing and Hertz cycles available for all control panel options.

Movement and Control Functions

- Horizontal/Vertical
- Right to Left
- Nozzle (Jet/Fog or Spreader)
- Main water Supply Valve (Optional)
- Foam Valve (optional)

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