

FLAMEOUT DESIGN & FABRICATION LLC

Broadside Series Water-Powered Oscillating Fire Monitors



Broadside Series – Fixed Position. Full Coverage.
Houston, Texas
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Product Overview

The FLAMEOUT Broadside Series (FO-OM1250-BS and FO-OM2000-BS) are water-powered oscillating firewater monitors designed for fixed industrial fire protection systems. These monitors automatically distribute water or foam across hazard zones without electrical, hydraulic, or external control systems. Final monitor orientation is not permanently fixed at installation, as the oscillation arc can be repositioned at any time in the field.

Historical Origin and Development

The Broadside Series originates from early industrial oscillation concepts developed for tower-based fire protection and gas handling systems in the early 1990s. These early systems required wide-area coverage from fixed elevation points.

The modern implementation of this design was engineered in 1991–1992 for cryogenic LNG applications, specifically for Sonatrach LNG facilities. The requirement was to provide reliable, wide-area oscillating firewater coverage in a cryogenic LNG environment, where electrical and hydraulic drive systems presented reliability risks due to temperature extremes, icing conditions, and system dependency.

This resulted in the development of a fully water-powered oscillating monitor capable of operating in cryogenic and high-risk industrial environments. The Broadside Series represents the continued evolution of this original design.



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Defining Capability – 360° Field Adjustment Under Full Flow

The Broadside Series allows full 360° repositioning of the oscillation arc directly in the field. This adjustment:

- Does not require unbolting
- Does not require disassembly
- Does not require deactivation or shutdown of the firewater system
- Is designed to be performed under full flow conditions

Adjustment is accomplished by loosening and resetting the traversing control mechanism, allowing precise positioning without tools or mechanical repositioning of the base.

This enables real-time hazard targeting and coverage verification during operation.

Key Features

- 360° field adjustment during live operation
- Water-powered oscillation – no external power required
- 316 stainless steel construction
- Adjustable oscillation arc up to 160°
- Lock-on-target positioning control
- Manual override capability
- Automatic drain valve
- Oil bath gearbox
- Grease lubrication points

Part Number Configuration

FO-OM1250-BS – Broadside Series 1250 GPM Oscillating Fire Monitor

FO-OM2000-BS – Broadside Series 2000 GPM Oscillating Fire Monitor

FO-OM2000-BS-ET – Broadside Series 2000 GPM Elevated Tower Configuration

The Broadside Series represents over three decades of field-proven oscillating monitor design, combining mechanical simplicity, operational reliability, and real-time adjustability not achievable with conventional firewater monitor systems.



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