

# Manual Monitor/Nozzle High-Flow Series Model FJM-80

## Features

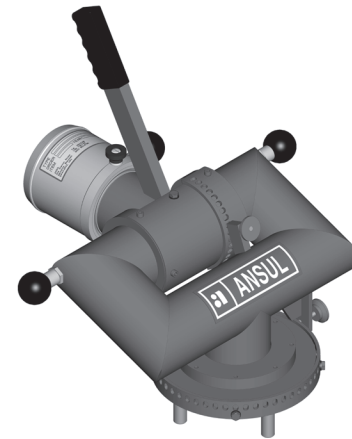
- Powerful unit with exceptional throw characteristics
- Compact and lightweight
- Welded stainless steel monitor construction which allows for use in corrosive environments and minimizes maintenance
- Patented stainless steel slide-bearing system to prevent unwanted movement or swings
- versatile nozzle patterns in a solid jet or fog spray pattern with water or foam

## Description

The FJM-80 series of monitors is designed to deliver approximately 1000 gpm (3785 Lpm); however, actual flow rate is dependent on nozzle setting and inlet pressure. This monitor is a dual waterway design. The balanced design reduces unwanted torque and swing, while the range of movement is easily operated with dual handles. The S version of the monitor/nozzle is self-educing. The WTO version of the monitor/nozzle is self-oscillating.

## Specifications

<b>Waterway:</b>	3 in. (80 mm) nominal		
<b>Sweep (rotation):</b>	Full 360°		
<b>Elevation (vertical movement):</b>	Monitor	Elevation	Depression
	FJM-80	+90°	-60°
	FJM-80 S	+90°	-45°
	FJM-80 WTO	+90°	-60°
<b>Nozzle:</b>	Integral with monitor		
<b>Nozzle Pattern:</b>	Manually adjustable straight to fog		
<b>Nozzle Flow:</b>	Adjustable by turning deflector and locking		
<b>Material:</b>	Monitor	316 L Stainless Steel	
	Nozzle	Bronze	
<b>Finish:</b>	Painted Red		
<b>Stability:</b>	Lock knobs for sweep and elevation (horizontal and vertical movements, respectively)		
<b>Mounting:</b>	3 in., 150 lb ANSI flange standard		
<b>Weight:</b>	FJM-80	31 lb (14 kg)	
	FJM-80 S	33 lb (15 kg)	
	FJM-80 WTO	55 lb (25 kg)	
<b>Maximum Pressure:</b>	232 psi (16 bar)		
<b>Range:</b>	Up to 230 ft (70 m)		



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## Application

- Refineries
- Chemical Plants
- Petrochemical Storage
- Marine Tankers/Barges
- Marine Loading Docks
- Loading Docks
- LNG/LPG Storage
- Paper Mills
- Lumber Yards
- Rail Cars
- Coal Storage
- Process Areas
- Fire Trucks/ARFF Vehicles
- Fire Boats
- Aerial Apparatus

## Nozzle K-Factors

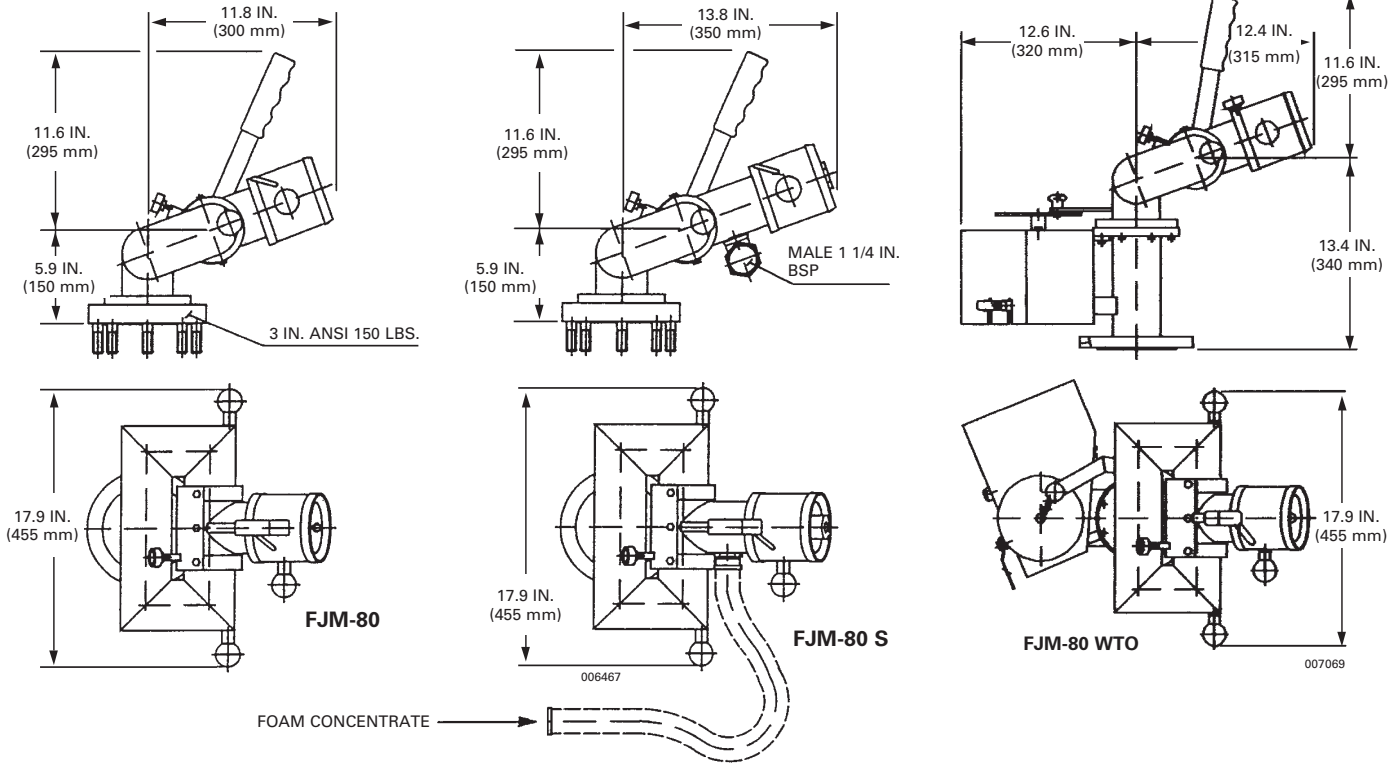
Turns	K-Factor	
	FJM-80 FJM-80 WTO	FJM-80 S
1.5	16	22.2
2	22.6	35.0
3	33.7	52.0
4	45.8	68.0
5	59.7	77.7
6.8	–	85.7
7	70.1	–
9	79.1	–

Q = K √P    Q = gpm    P = psi

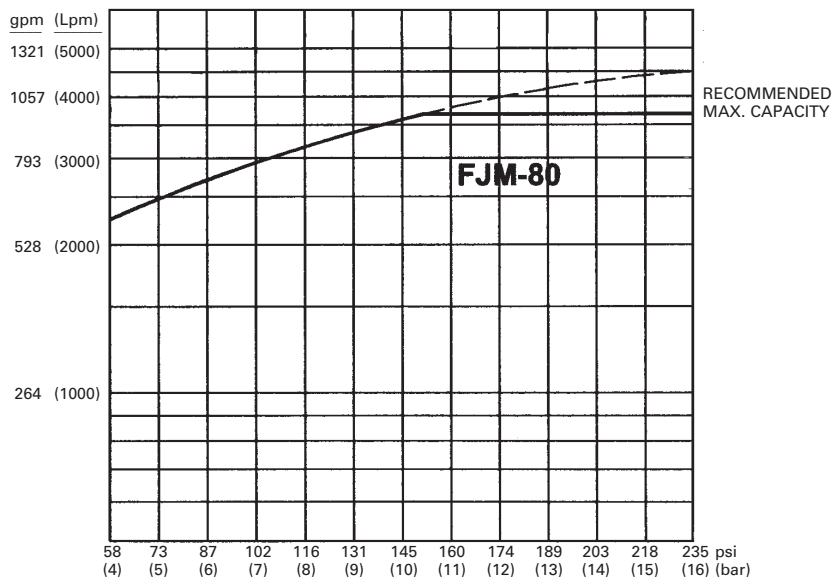
## Ordering Information

Part No.	Description
431100	FJM-80
431101	FJM-80 S with suction hose*
433233	FJM-80 WTO
433806	FJM-80S WTO*

\*Specify flow, inlet pressure, concentrate and % concentration



## Capacity Ranges for FJM-80 Monitors

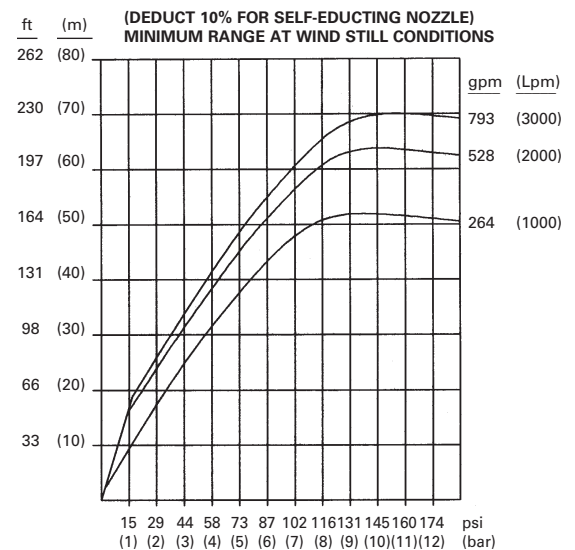


**Note:** The nozzle is an internal part of the monitor; therefore, performance criteria is based upon pressure at the flanged inlet connection.

**Note:** The converted metric values in this document are provided for dimensional reference only and do not reflect an actual measurement.

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## FJM-80 Monitor Range of Jet



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