

(replaces datasheets 1011/119; 120)

General description

A range of manually operated fog/jet, water/foam monitors with exceptional flow characteristics, optimising throw range with delivery of water or foam in jet form or as a spray pattern. The FJM 80 WTO, 100 WTO and 150 WTO units are self-oscillating by internal water-driven turbines and have a low relative weight due to the unique design and use of stainless steel in the construction of each unit.

Application description

FJM WTO units are intended for fixed mounting, enabling effective application of the wide flow range and optimised jet range and spray patterns. The loose flange allows for easy mounting and adjustment for oscillating area sweep.

'S' models

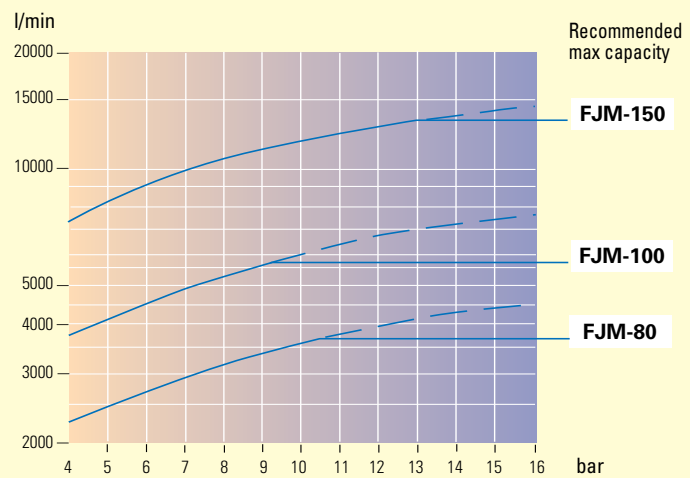
The 'S' model comes complete with built in foam induction. For data on 'S' models, please refer to Datasheet 1011/171.

Product features

- Wide flow range
- Adjustable flow
- Compact balanced design
- Low weight
- Easily manoeuvrable due to low friction bearings
- Long throw length
- Adjustable stream pattern
- Corrosion resistant construction of stainless steel and bronze
- Manual override
- Slip on inlet connection flange for direction adjustment



FJM Monitors - Capacity Ranges



Technical Data

FJM-WTO Standard	80	100	150
Water capacity at 10 bar	3,700 l/min	6,000 l/min	11,700 l/min
Design pressure	16 bar	16 bar	16 bar
Rotation - oscillation	30, 50, 70, 100°	30, 50, 70, 100°	30, 50, 70, 100°
Rotation - manual	360°	360°	360°
Elevation - manual	-60° / +90°	-60° / +90°	-60° / +90°
Weight	25 kgs	32 kgs	67 kgs
Connection: Water	80 DIN PN 16 or 3" ANSI 150 lbs	100 DIN PN 16 or 4" ANSI 150 lbs	150 DIN PN 16 or 6" ANSI 150 lbs
Material:			
Body	Stainless steel		
Flange	Galvanised steel		
Nozzle	Bronze		

$$\text{Reaction force (N)} = 0.233 \times Q \text{ (l/min)} \times \sqrt{p \text{ (bar)}}$$



Fog/Jet Monitor - Oscillating FJM-WTO

(replaces datasheets 1011/119; 120)

Connections

- Foam/water inlet: flanged according to DIN PN16 or ANSI 150 lbs

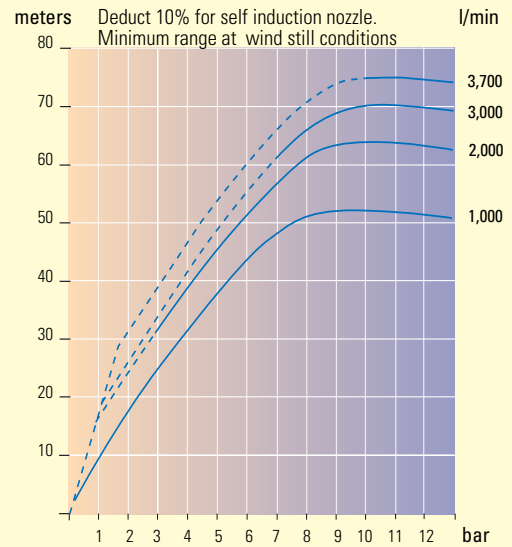
Optional Components

- Built-in inductor for all models ("S" version)
- Suction hose and valve

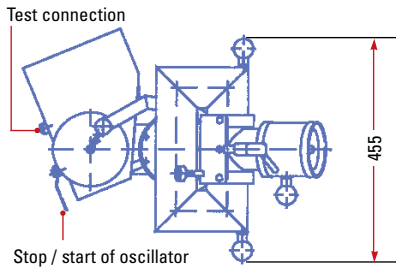
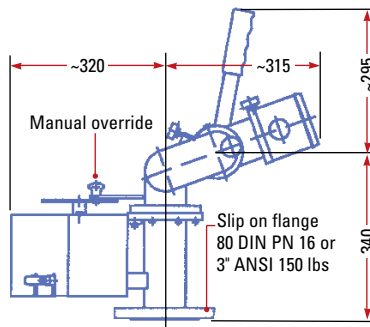
Listings or approvals

- Det Norske Veritas (DNV)
- Factory Mutual (FM); FJM-80 WTO
- Bureau Veritas (BV)
- China National Test Centre Approval (TFRI)
- Russian Maritime Register of Shipping (RMRS); FJM-80 WTO; FJM-100 WTO
- Russian Academy

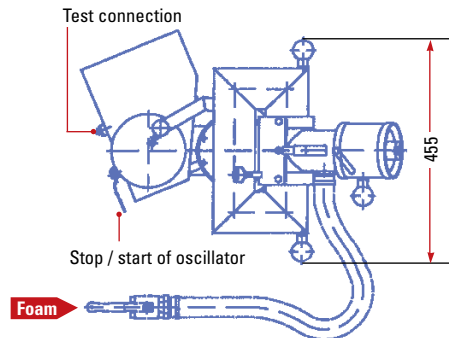
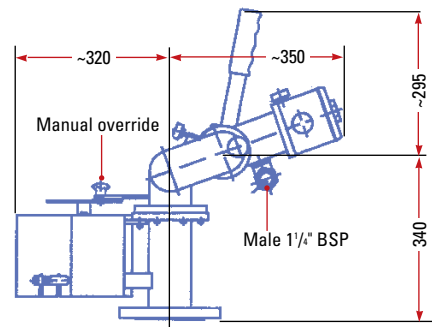
FJM-80 Monitor - Range of Jet



FJM-80 WTO



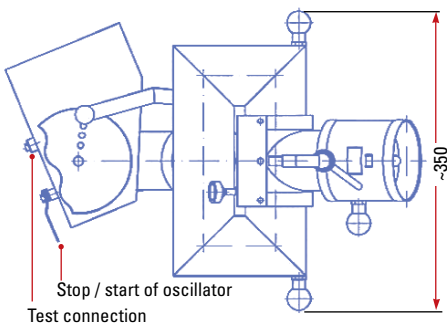
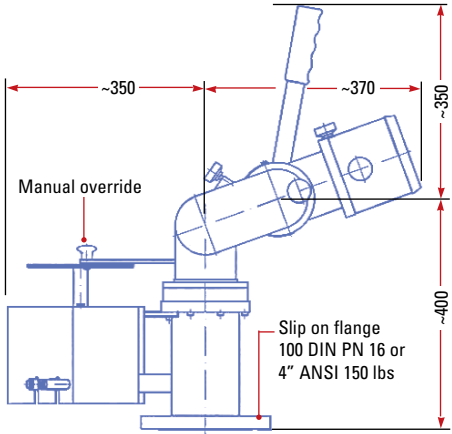
FJM-80 WTO S



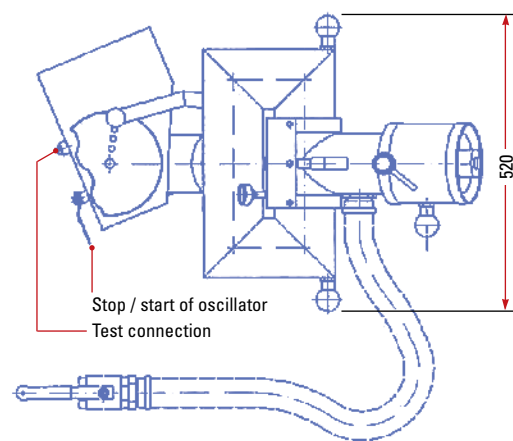
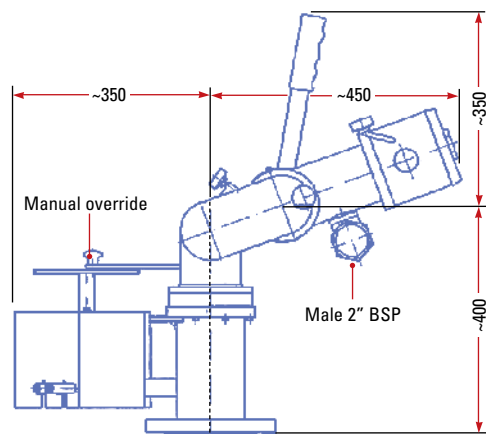
Fog/Jet Monitor - Oscillating FJM-WTO

(replaces datasheets 1011/119; 120)

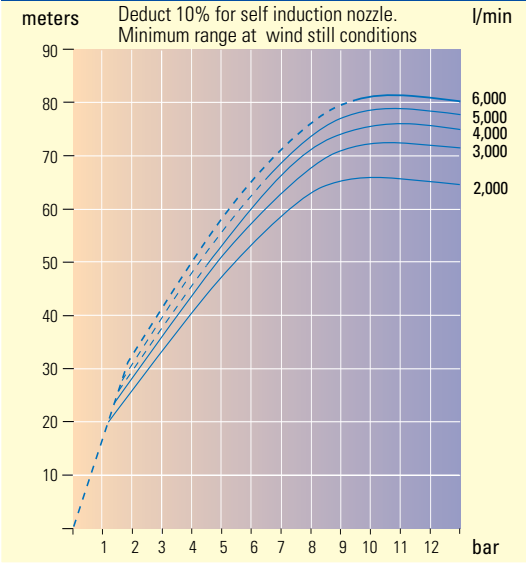
FJM-100 WTO



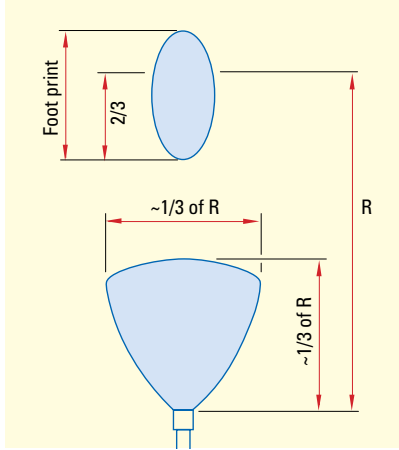
FJM-100 WTO S



FJM-100 Monitor - Range of Jet



FJM Monitors - Average Fog Pattern (in still air)



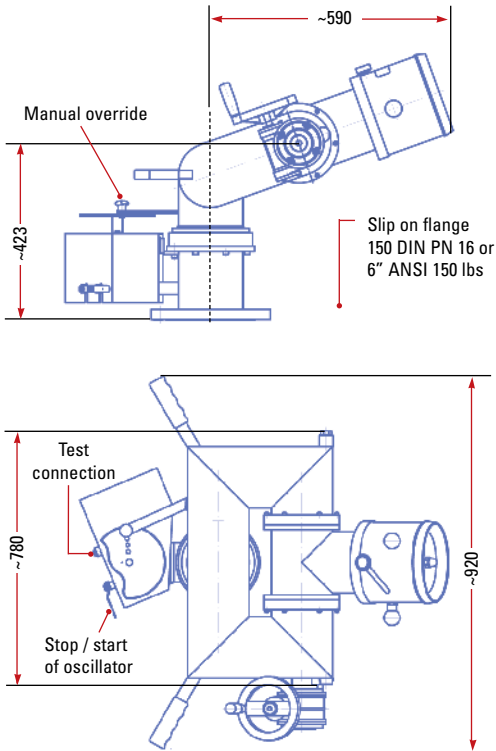
Fog/Jet Monitor - Oscillating FJM-WTO

Datasheet 1011/172

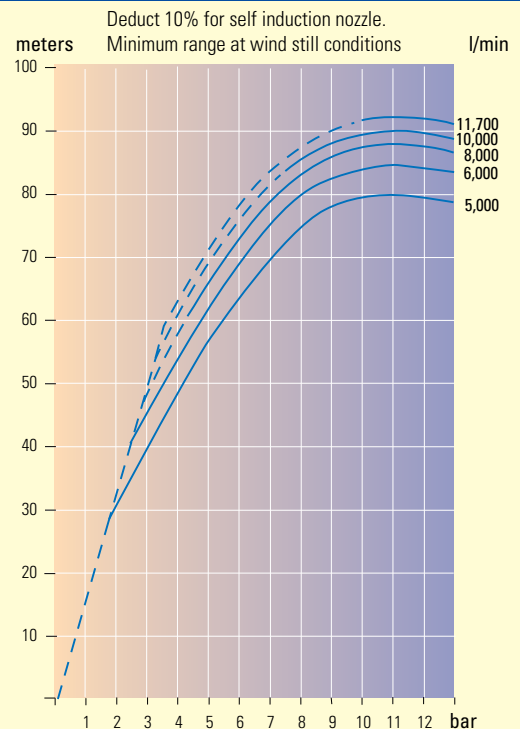
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FJM-150 WTO



FJM-150 Monitor - Range of Jet



Order information

Description	Part No.
FJM-80 WTO DIN	161508716
FJM-80 WTO ANSI	161508819
FJM-80 S WTO DIN, excl suction hose	161508737
FJM-80 S WTO ANSI, excl suction hose	161508840
FJM-80 Suction Hose 1 1/4" 3 mtr	161008618
FJM-100 WTO DIN/ANSI	161510811
FJM-100 S WTO DIN/ANSI, excl suction hose	161510761
FJM-100 Suction Hose 2" 3 mtr	161010606
FJM-150 WTO DIN/ ANSI/JIS	161515719
FJM-150 Suction Hose 2" 3 mtr	161015608



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