



## FJM-WTO Oscillating Monitors

### Fog/Jet Monitor Oscillating FJM-WTO

#### General Description

A range of manually operated fog/jet, water and foam monitors with exceptional flow characteristics that optimise throw range. This gives exceptional delivery of water or foam as a jet or as a spray pattern. The FJM 80 WTO, 100 WTO and 150 WTO units are self-oscillating with internal water-driven turbines. Unique design and stainless steel construction add to the relatively low weight of this unit.

#### Application Description

FJM WTO units are designed for fixed mounting, enabling effective application of the wide flow range 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.

#### Product Features

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

#### Connections

- Foam/water inlet: flanged according to DIN PN 16, or ANSI 150 lbs

#### Optional Components

- Built-in inductor optional on all models ('S' Version)
- Optional suction hose and valve



#### Listings and Approvals

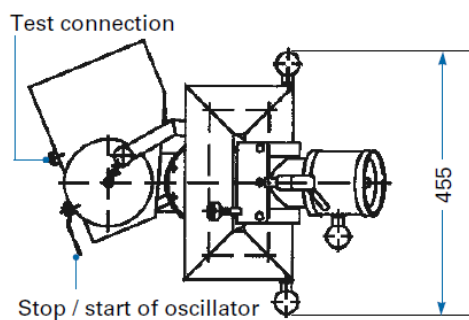
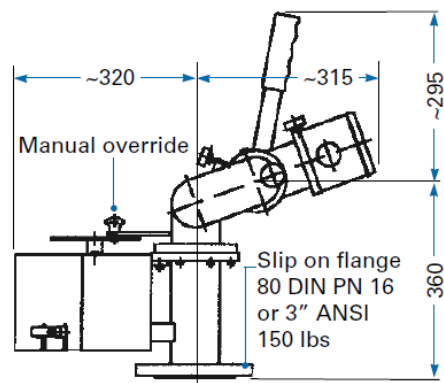
- Det Norske Veritas DNV
- Bureau Veritas (BV)
- Factory Mutual (FM); FJM-80 WTO
- Tanusitvany (Hungary)
- KFSD (Kuwait); FJM-80 WTO
- Russian Maritime Register of Shipping (RMRS)



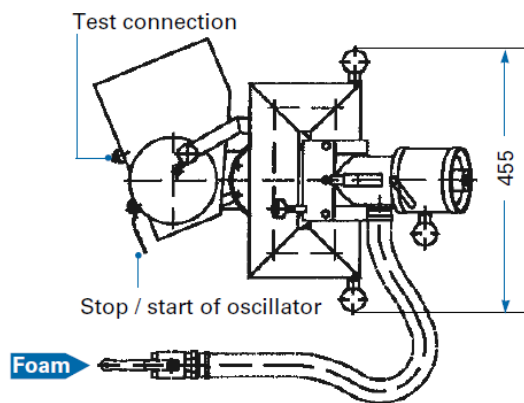
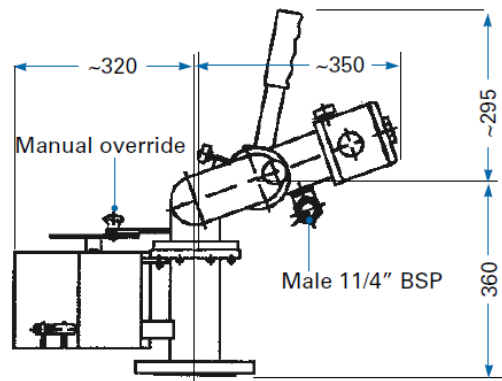
#### Order Information - Please Specify

1. Part number
2. Type
3. Flange type
4. Capacity: flow and pressure (optional)
6. Foam induction (S-version)

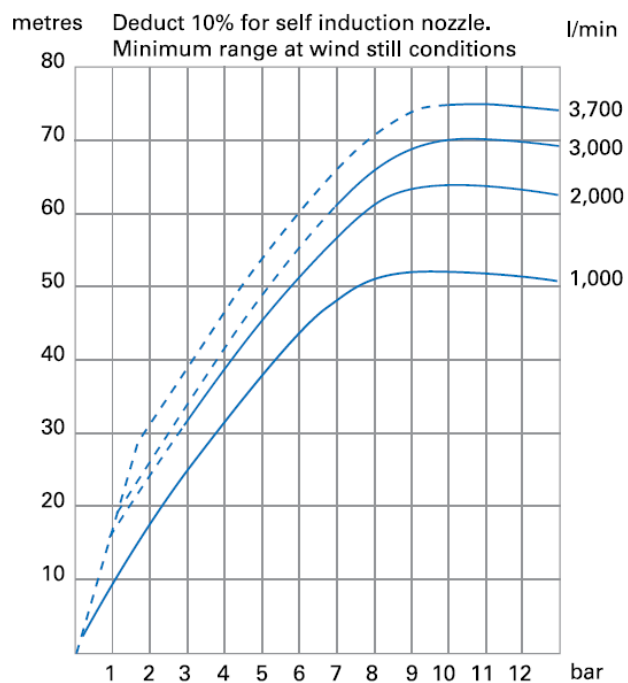
## FJM-80 WTO



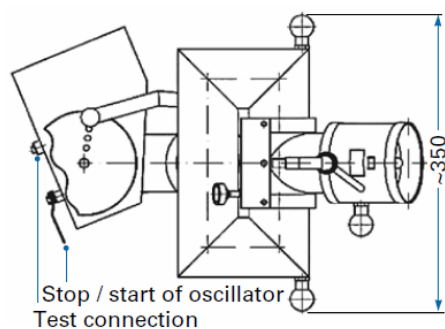
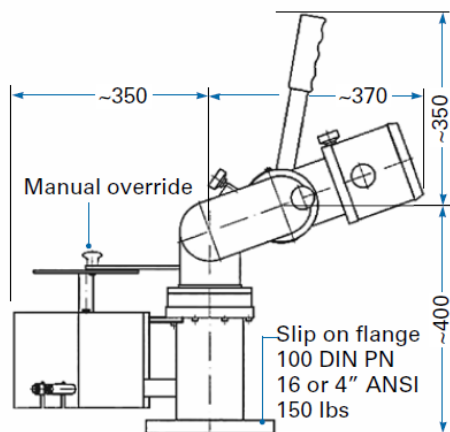
## FJM-80 WTO S



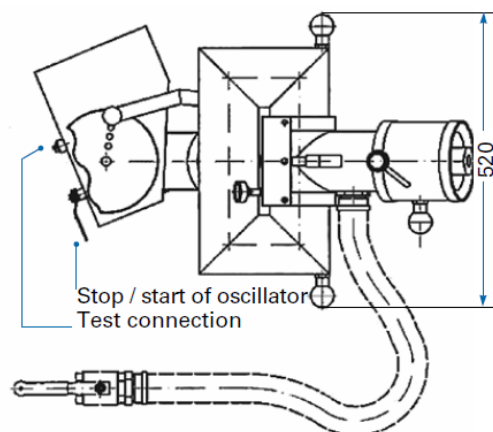
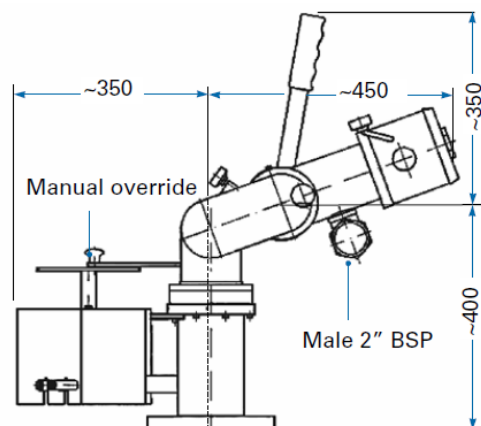
## FJM-80 Monitor - Range of Jet



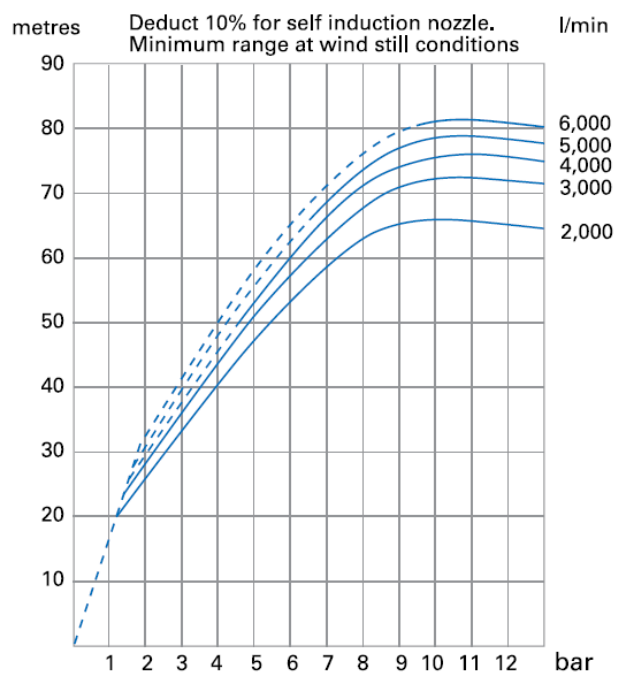
## FJM-100 WTO



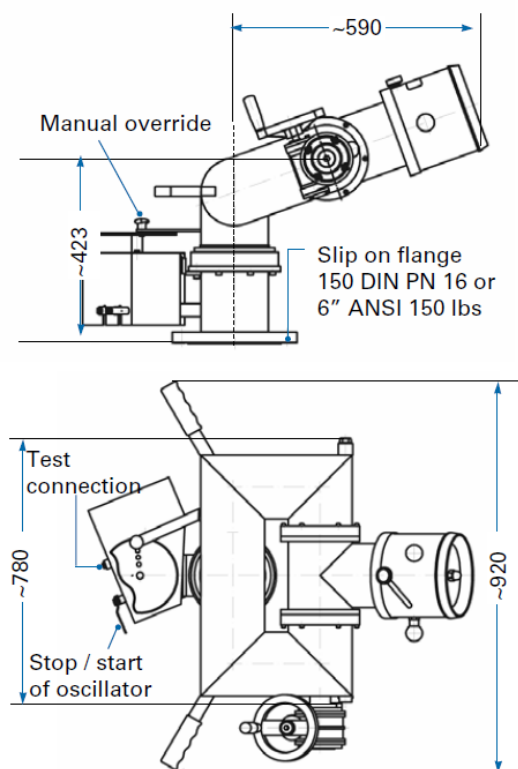
## FJM-100 WTO S



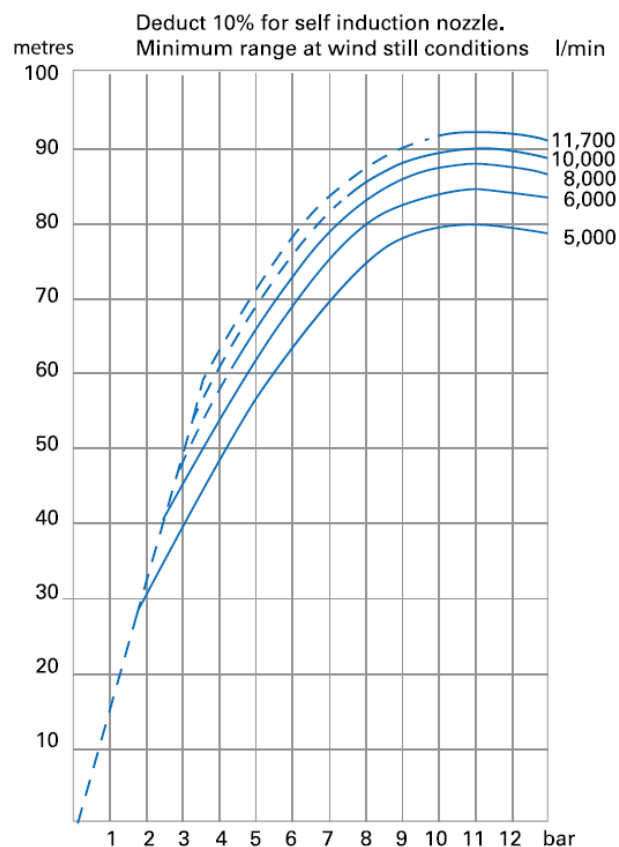
## FJM-100 Monitor - Range of Jet



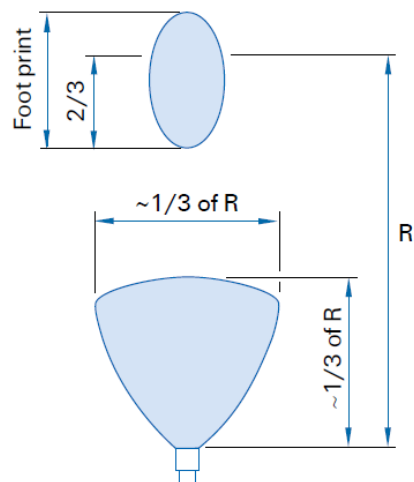
## FJM-150 WTO



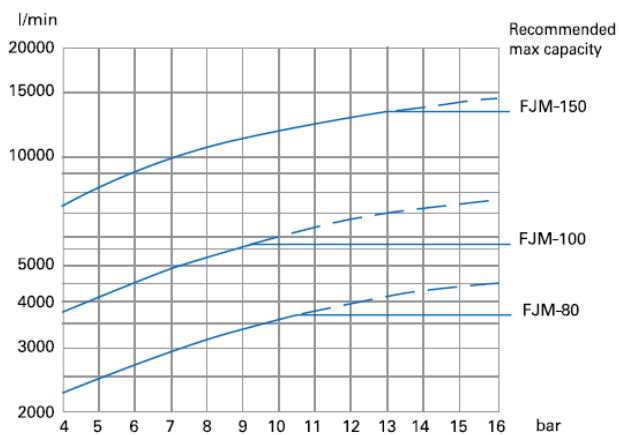
## FJM-150 Monitor - Range of Jet



## FJM Monitors - Average Fog Pattern (in still air)



## FJM Monitors - Capacity Ranges



## Performance Data

| FJM - WTO Standard       | 80                                 | 100                                 | 150                                 |
|--------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| ■ Water capacity         | max 3,700 l/min<br>min 500 l/min   | max 6,000 l/min<br>min 1000 l/min   | max 11,700 l/min<br>min 3000 l/min  |
| ■ Design pressure        | 4-16 bar<br>optimum 10-12 bar      | 4-16 bar<br>optimum 10-12 bar       | 4-16 bar<br>optimum 10-12 bar       |
| ■ Rotation - oscillation |                                    |                                     |                                     |
| ■ Rotation - manual      | 360°                               | 360°                                | 360°                                |
| ■ Elevation - manual     | -60° / +90°                        | -60° / +90°                         | -60° / +90°                         |
| ■ Weight                 | 25 kg                              | 32 kg                               | 67 kg                               |
| ■ Connection: water      | 80 DIN PN 16 or<br>3" ANSI 150 lbs | 100 DIN PN 16 or<br>4" ANSI 150 lbs | 150 DIN PN 16 or<br>6" ANSI 150 lbs |
| ■ Material: body         | Stainless steel                    | Stainless steel                     | Stainless steel                     |
| ■ Material: Flange       | Galvanised steel                   | Galvanised steel                    | Galvanised steel                    |
| ■ Material: nozzle       | Bronze                             | Bronze                              | Bronze                              |

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

## Ordering Information

| Part No.    | Description                                   |
|-------------|-----------------------------------------------|
| ■ 161508716 | FJM-80 WTO DIN                                |
| ■ 161508819 | FJM-80 DIN ANSI                               |
| ■ 161508737 | FJM-80 S WTO DIN,<br>excl. suction hose       |
| ■ 161508840 | FJM-80 S WTO ANSI,<br>excl. suction hose      |
| ■ 161008618 | FJM-80 suction hose 1 1/4" 3m                 |
| ■ 161510811 | FJM-100 WTO DIN/ANSI                          |
| ■ 161510761 | FJM-100 S WTO DIN/ANSI,<br>excl. suction hose |
| ■ 161010606 | FJM-100 suction hose 2" 3m                    |
| ■ 161515719 | FJM-150 WTO DIN/ANSI/JIS                      |
| ■ 161015608 | FJM-150 suction hose 2" 3m                    |

FlameSkill Ltd  
 1 Morton Peto Estate  
 Great Yarmouth  
 Norfolk  
 NR31 0LT  
 Tel: 01493 440464  
 Email: [admin@flameskill.co.uk](mailto:admin@flameskill.co.uk)  
 Web: [www.flameskill.co.uk](http://www.flameskill.co.uk)