FJM-WTO Oscillating Fog/Jet Monitor

Description

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

Application

- FJM-WTO monitors are designed for fixed mounting for the effective application of the wide flow range optimized jet range and spray patterns.
- The FJM-WTO monitor contains a loose flange to facilitate the mounting process and to enable adjustment for oscillating area sweep.

Features

- Wide flow range
- Adjustable flow
- Compact and balanced design
- Low weight
- Low friction bearings for easy manoeuvres
- Long throw length
- Adjustable stream pattern
- Stainless steel and bronze corrosion-resistant construction
- Manual override
- Slip-on inlet connection flange for direction adjustment
- ATEX compliant operation for zones 1 and 2

Connections

The foam/water inlet is flanged according to DIN PN 16 or ANSI 150 lb

Optional components

- Inbuilt inductor on all models (S version)
- Suction hose and valve

S models

The S model comes complete with inbuilt foam induction.

Listings and approvals

- Det Norske Veritas (DNV)
- Bureau Veritas (BV)
- KFSD (Kuwait – FJM-80 WTO)
- Russian Maritime Register of Shipping (RMRS)
- CNBOP (Poland) available upon request

Ordering information

When ordering, specify the following information:

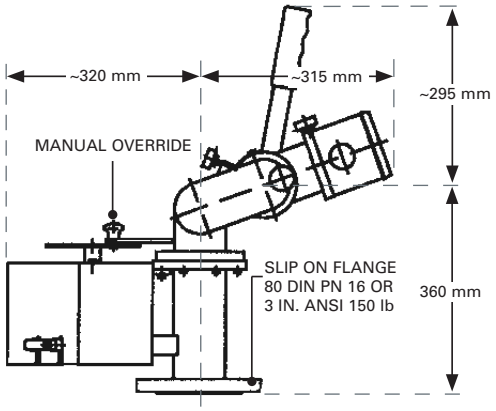
- Part number
- Type
- Flange type
- Capacity: flow and pressure (optional)
- Foam induction (S version)

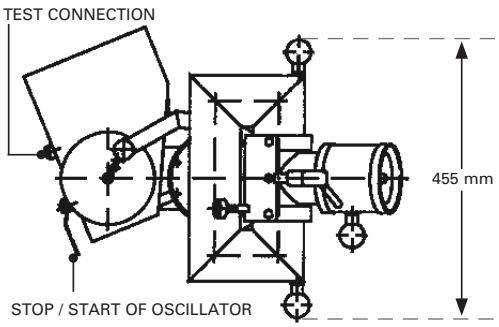
Table 1: Ordering information

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

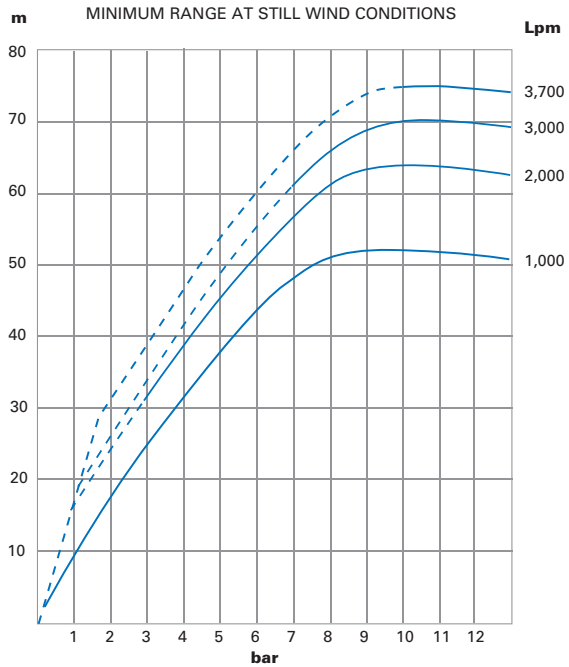
Tyco Park | Grimshaw Lane | Newton Heath | Manchester | M40 2WL | Tel: +44 (0) 161 259 4000 | www.skum.com
 | Form No. FDS-2016037-04

FJM-80 WTO dimensions





FJM-80 monitor range of jet

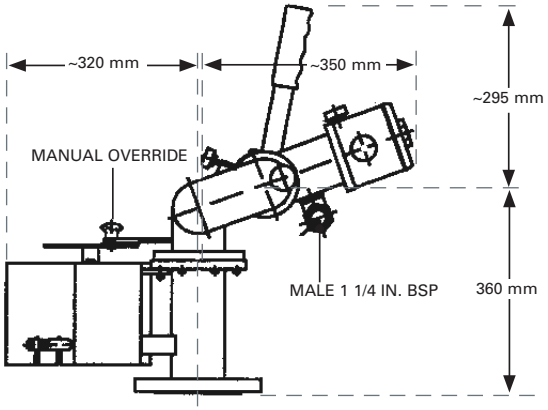


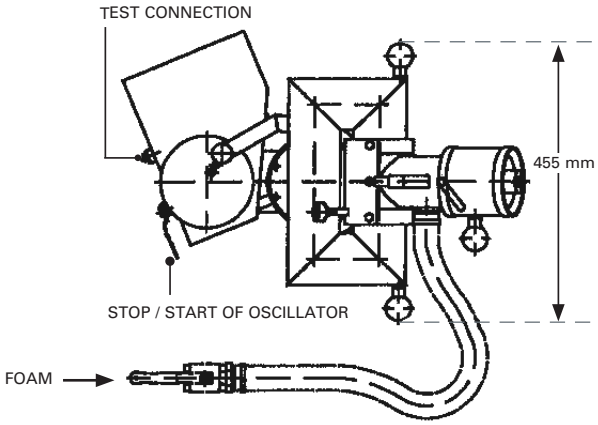
Notes: 1. Reaction force (N) = 0.233 x Q (Lpm) x √p (bar)

2. Deduct 10% for self-induction nozzles.

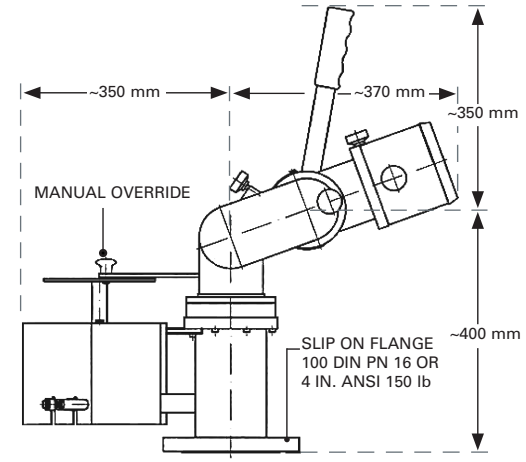
3. Achieving the values listed in the range of jet graph depends on the monitor's elevation angle. For further details, see the length-height relationship graph.

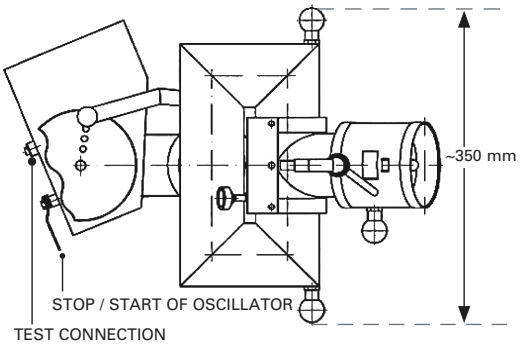
FJM-80 WTO S dimensions



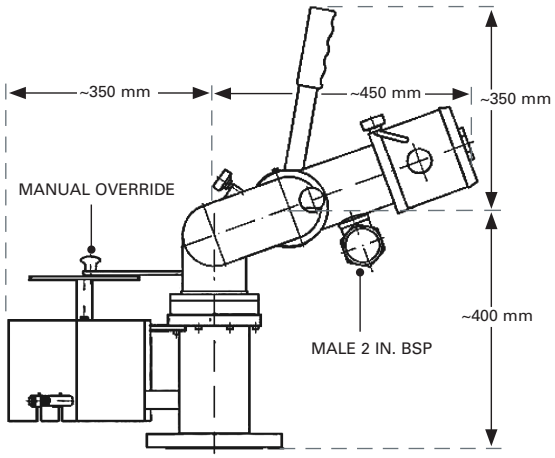


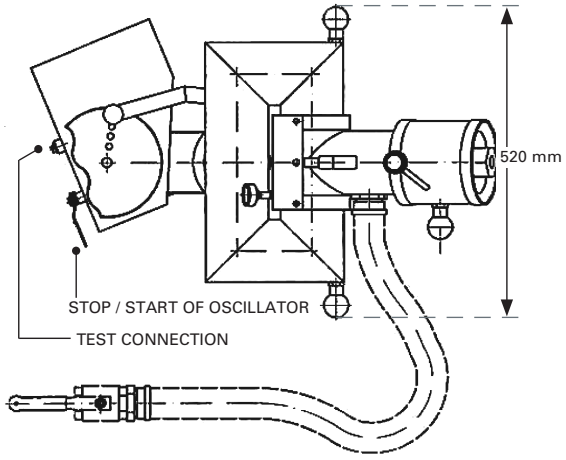
FJM-100 WTO dimensions



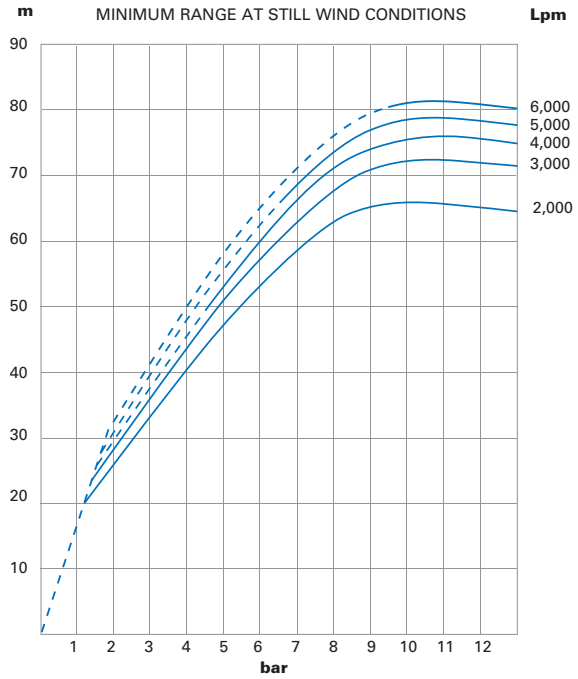


FJM-100 WTO S dimensions





FJM-100 monitor range of jet

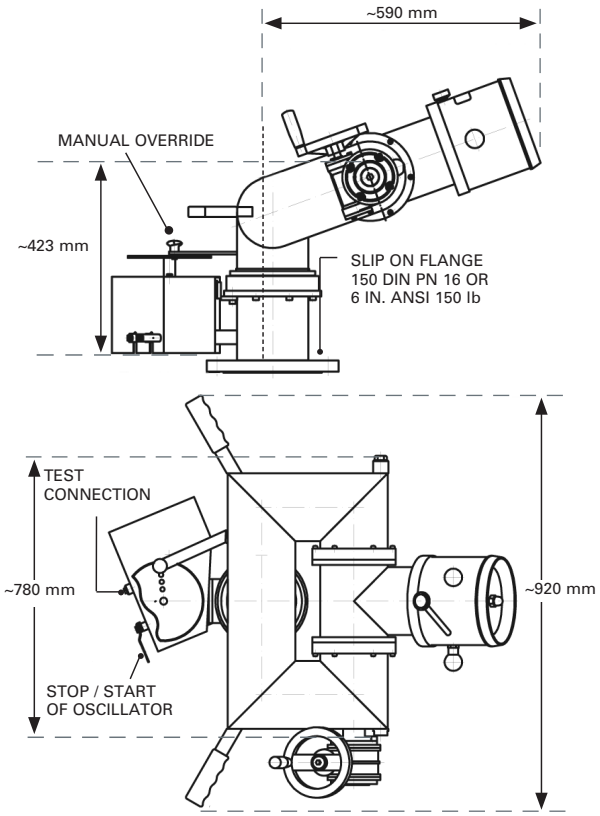


Notes: 1. Reaction force (N) = 0.233 x Q (Lpm) x √p (bar)

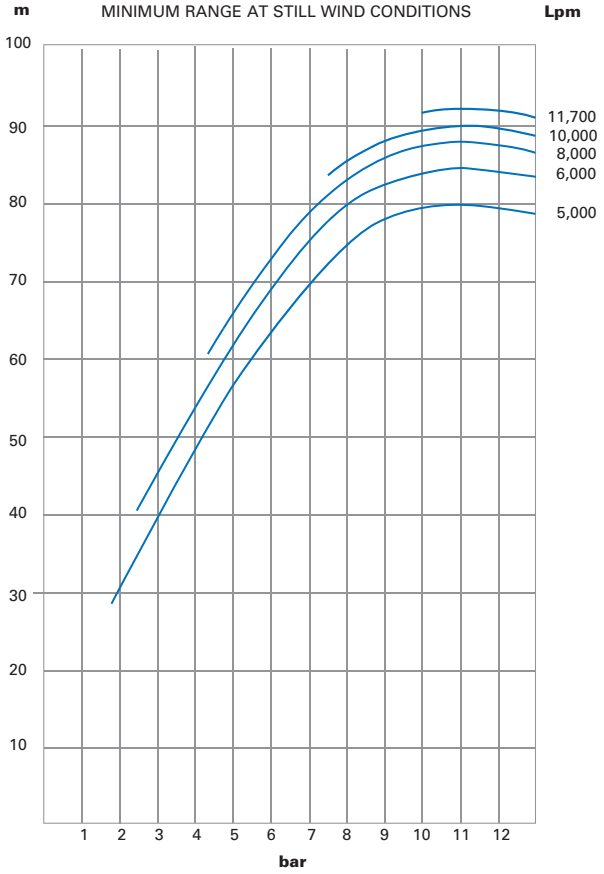
2. Deduct 10% for self-induction nozzles.

3. Achieving the values listed in the range of jet graph depends on the monitor's elevation angle. For further details, see the length-height relationship graph.

FJM-150 WTO dimensions



FJM-150 monitor range of jet

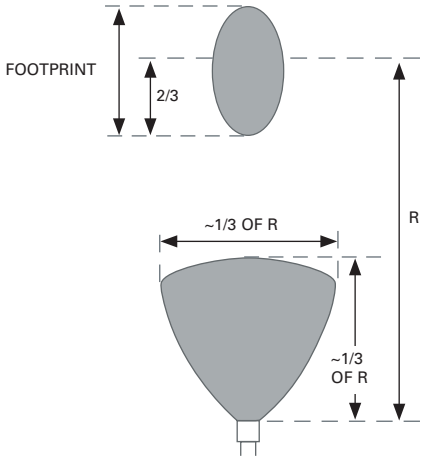


Notes: 1. Reaction force (N) = 0.233 x Q (Lpm) x √p (bar)

2. Deduct 10% for self-induction nozzles.

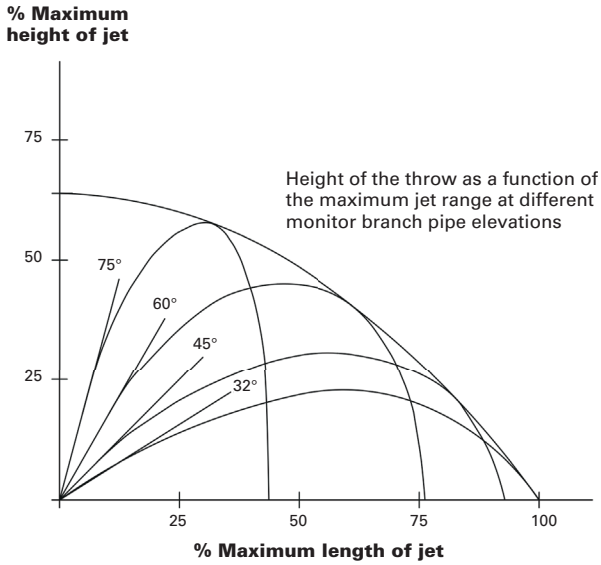
3. Achieving the values listed in the range of jet graph depends on the monitor's elevation angle. For further details, see the length-height relationship graph.

Average fog pattern in still air



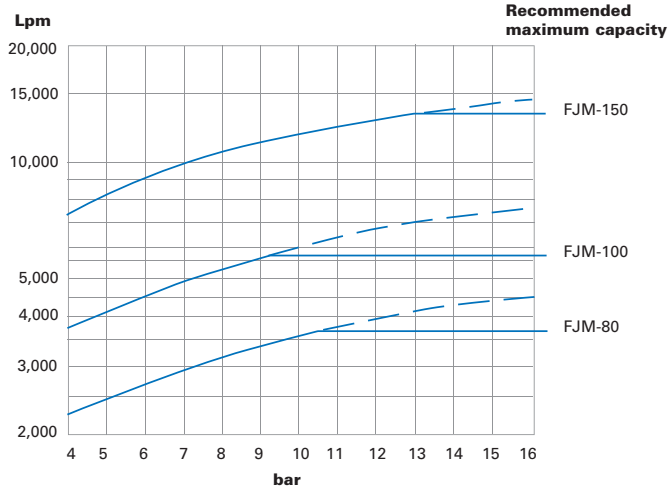
Note: R = Jet range

Length and height relationship



Note: Reaction force (N) = 0.233 x Q (Lpm) x √p (bar)

Capacity ranges



Performance data

Table 2: Performance data

FJM-WTO standard	FJM-80	FJM-100	FJM-150
Water capacity	Maximum 3,700 Lpm Minimum 500 Lpm	Maximum 6,000 Lpm Minimum 1,000 Lpm	Maximum 11,700 Lpm Minimum 3,000 Lpm
Design pressure	4 bar to 16 bar ATEX operation: 4 bar to 11 bar Optimum: 10 bar to 12 bar	4 bar to 16 bar ATEX operation: 4 bar to 11 bar Optimum: 10 bar to 12 bar	4 bar to 16 bar ATEX operation: 4 bar to 11 bar Optimum: 10 bar to 12 bar
Rotation - oscillation	30°, 50°, 70°, and 100°	30°, 50°, 70°, and 100°	30°, 50°, 70°, and 100°
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 3 in. ANSI 150 lb	100 DIN PN 16 or 4 in. ANSI 150 lb	150 DIN PN 16 or 6 in. ANSI 150 lb
Material: body	Stainless steel	Stainless steel	Stainless steel
Material: flange	Galvanized steel	Galvanized steel	Galvanized steel
Material: nozzle	Bronze	Bronze	Bronze

Note: Reaction force (N) = 0.233 x Q (Lpm) x √p (bar).

ATEX and IECEx marking

II 2 G
II 2 D

Ex h IIC T5 Gb
Ex h IIIC T100°C