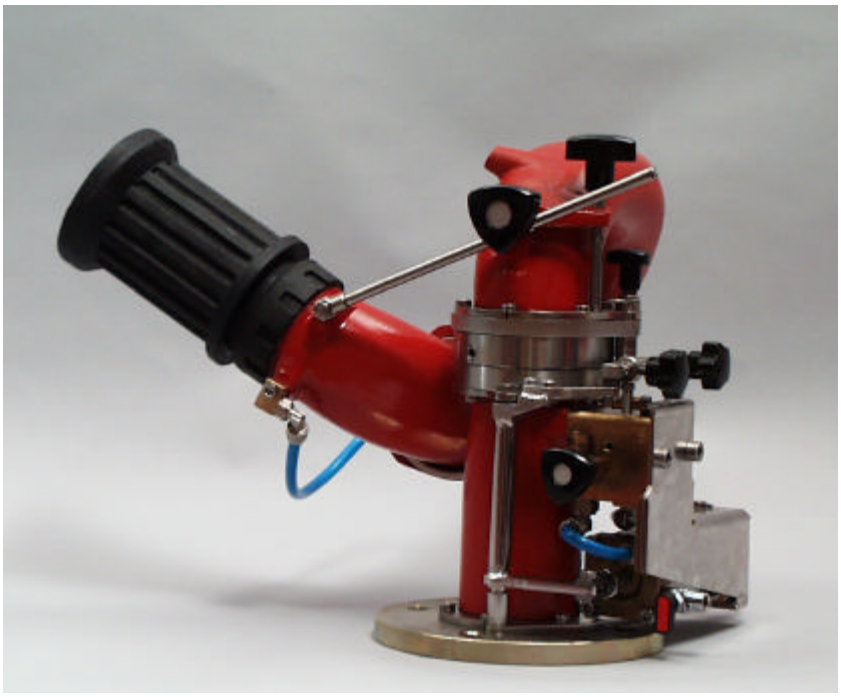
BALDER
FIXED OSCILLATING MONITOR

FEATURES

- *Compact*
- *Low weight*
- *Usable with river and sea water*
- *Self cleaning filter protects oscillating valve*
- *Adjustable oscillating speed and elevation*
- *Automatic oscillation*
- *Self-drainage valve*
- *Works at low temperatures*
- *Runs with water or foam*
- *High flows*
- *Low pressure drop*



Balder is a 2½" monitor for fixed installations. It is self oscillating and powered by water flowing through a special oscillating mechanism. Balder automatically sweeps from side to side. The speed of the sweeps and the elevation could be manually set and also be varied during operation. Balder has a water inlet with a 2½" flange (DN 65).

The pipes are casted in two different materials: anodised aluminium or bronze. Parts which are vital for the correct functions, such as swivels are in stainless steel. Innovative piping technology minimises turbulence and frictional pressure losses. There is a self cleaning filter at the inlet to the oscillating valve that assures operation even with water containing particles, e.g. rust from the piping. Balder is very compact and weighs only 11.6 kg.

Application

Balder should be used where among all features the extremely compact design is beneficial:

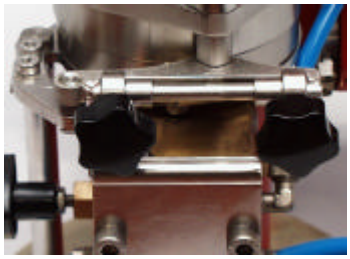
- Petrochemical plants
- Aircraft hangars
- Helidecks
- Tank farms
- Loading areas
- Chemical plants
- LNG/LPG production units
- Offshore platforms

Recommended Foam

- Fluoroprotein 3% or 6%
- Protein 3% or 6%
- FFFP 3% or 6%
- AR-FFFP 3x6 or 3x3
- AFFF 1%, 3% or 6%
- AR- AFFF 3x6 or 3x3
- Multi purpose foam

Technical data

Max. water flow	**4,500 lpm**
Sweep range	**Max. 25/min.**
Oscillating angle	**60°**
Elevation	**+25° - +80°**
Water inlet flange	**2½ (DN65)**
Water outlet	**2½" BSP M thread**
Material	**Anodised aluminium or bronze**
Length	**440 mm**
Height	**390 mm**
Width	**330 mm**
Weight	**11.6 kg**
Part no. aluminium	**20-3200-01**
Part no. bronze	**20-3200-10**



The setting of the oscillating angle is easy to operate.

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Options

- Bronze
- 4” flange water inlet connection
- 120° oscillating angle

Accessories

- Freja nozzles 500, 1,000, 1,500, 2,000 and 2,500 lpm
- Idun nozzles 3,000, 3,500, 4,000 and 4,500 lpm
- Frigg aspirated foam branch pipe in stainless steel up to 4,000 lpm
- As above with self-induction

For further information see our nozzle data sheets.

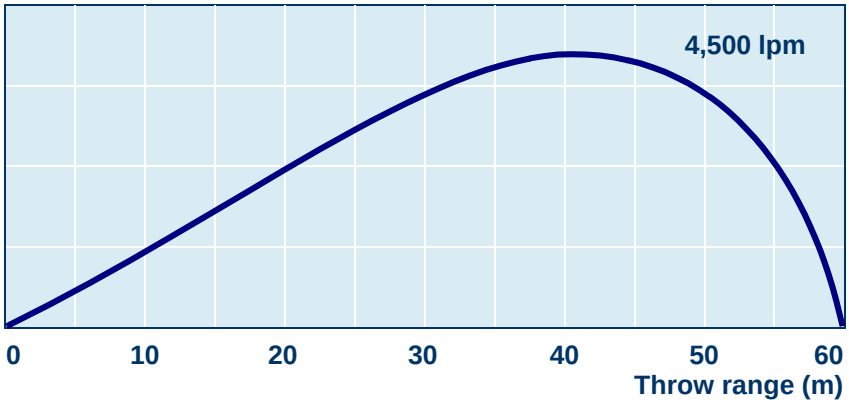
Operation

The monitor should be connected to the flange. Then the elevation, sweep and speed of oscillation could be pre-adjusted for automatic operation.

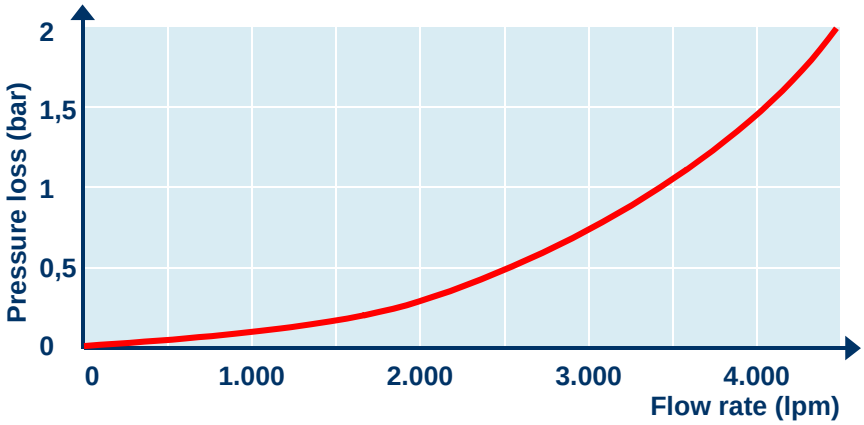
When the water arrives to the monitor it automatically starts to sweep and operate. During operation the settings can be manually adjusted.

It is also possible to release the oscillating function during operation and manually direct the stream within 180° angle.

Throw range with water and Idun nozzle at 8 bar



Pressure loss



Quality Control and tests

BALDER are manufactured according to the draft European Standard EN-13565-1, and CE marked.