

## 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

## Description

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: anodized aluminium or bronze. Parts which are vital for the correct functions, such as swivels are in stainless steel. Innovative piping technology minimizes 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.

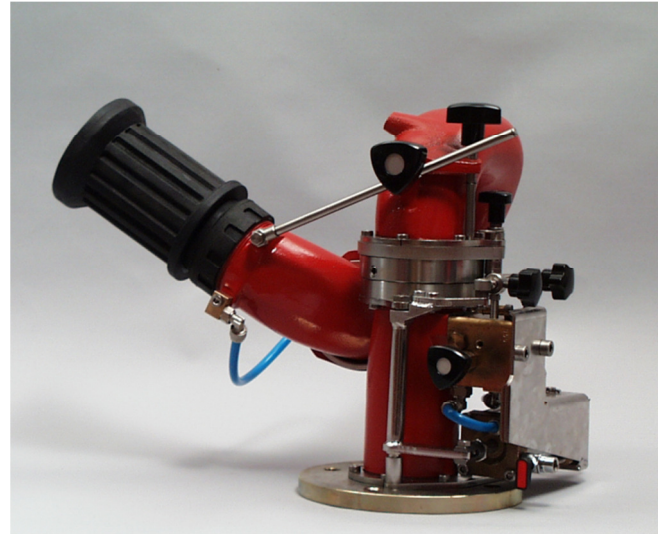
## Operation

Elevation, sweep and speed of oscillation could be pre-adjusted for automatic operation. When the water flows 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.

## 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
- Offshore platforms

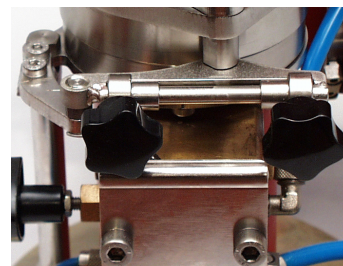


## Recommended Foam

- Protein based foams
- AFFF foams
- AFFF ARC foams
- Multi-purpose foams
- Fluorine free foams

## Technical data

|                    |                              |
|--------------------|------------------------------|
| Max. water flow    | 4,500 lpm                    |
| Sweep range        | Max. 25/min.                 |
| Oscillating angle  | 60°                          |
| Elevation          | -10° / +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 (bronze 20 kg)       |
| Part no. aluminium | 20-3200-01                   |
| Part no. bronze    | 20-3200-10                   |



*The setting of the oscillating angle is easy to operate.*

## Options

- Bronze
- 4" flange water inlet connection

## Accessories

Balder monitor can be combined with a wide range of accessories such as:

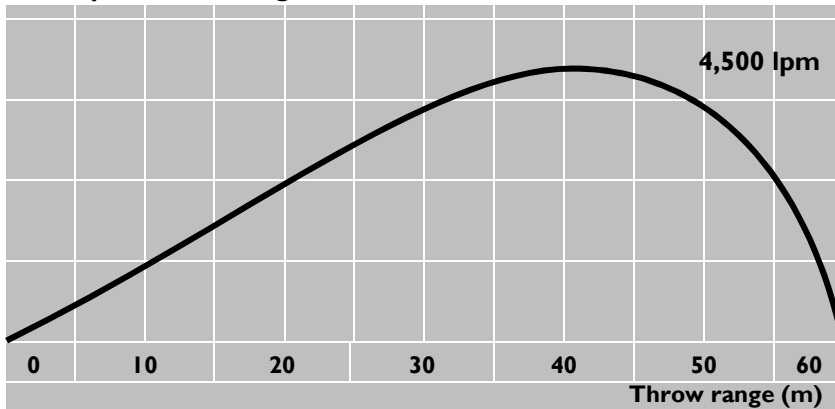
- Freja composite nozzles 500 lpm up to 2,500 lpm
- Uller brass nozzles 1900 lpm up to 4800 lpm
- Self-inducting versions

For complete information see our nozzle data sheets.

## Quality Control

Balder range monitors are designed and developed to be user friendly and is manufactured according to internal ISO procedures.

### Example: Throw range with water and Idun nozzle at 8 bar



### Pressure loss

