MONITORS

Presented by Neil Woodley
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to the members of Joiff
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MONITORS

Types of monitor

- Ground or Portable
- Fixed or Semi-Mobile

What are they used for?

- To contain and extinguish fires, chemical incidents, gas leaks etc.
- To deliver water and/or foam to the fire/leak
- To be functional quickly in a wide variety of situations and locations

Ground or Portable

Supplied by a range of manufacturers:

- **TFT**
- **Akron**
- **Elkhart**
- **Angus**
- **Franke**
- **Pok and others**

Usage | Flow rates and pressures | Weight, size and portability | Availability | Features

Usage

- **In lighter weight situations where heavy flows are not so essential**
- **Widely used by local authority brigades and for industrial plants**

Usage | Flow rates and pressures | Weight, size and portability | Availability | Features

Flow rates and pressures

Depending on the degree of sophistication, from 250 *l/min* to 5000 *l/min*, operating at 6/7 *bar* up to 12/13 *bar*

Usage | Flow rates and pressures | Weight, size and portability | Availability | Features

Weight, size and portability

- **From a 4kg to 20kg**
- **Foldable legs**
- **Carbide gripping tips**

Usage | Flow rates and pressures | Weight, size and portability | Availability | Features

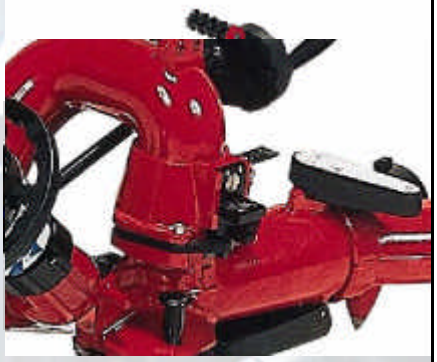
Availability

- Usually ex-stock from most manufacturers, with a range of flows, valves, flange fittings
- Price varies from between £70 up to £2,700, depending on the features

Usage | Flow rates and pressures | Weight, size and portability | Availability | Features

Features

- Safety shut offs
- Oscillating heads
- Straight through reduces friction loss
- Automatic nozzles
- Storage facilities
- Flowage variations
- Within range pressures
- Dual or single inlets
- Construction: brass or anodised aluminium
- Integral or “add on” foam nozzles or adapter



Usage | Flow rates and pressures | Weight, size and portability | Availability | Features

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Fixed or semi-fixed

Supplied by a range of manufacturers:

- **TFT**
- **Angus**
- **Akron**
- **Elkhart**
- **Williams**
- **Wildwell**
- **Chubb and others**

Usage | Flow rates and pressures | Weight, size and portability | Availability | Features

Usage and locations

- Primarily industrial, petrochemical, marine

Usage | Flow rates and pressures | Weight, size and portability | Availability | Features

Flow rates and pressures

- For the smaller units 1300 to 5000 *l/min*
- Larger units up to 53000 *l/min*
- Normal working pressure dependent on pipelines and hoses, not usually above *12 bar*
- e.g. BP Williams 6 gun works at *7.5 bar* nozzle pressure

Usage | Flow rates and pressures | Weight, size and portability | Availability | Features

Weight, size and portability

Weighing anywhere between 13/36kg for smaller fixed to several 100 kg for the bigger flow models, which not strictly fixed, nor "portable", but trailer mounted.

Usage | Flow rates and pressures | Weight, size and portability | Availability | Features

Availability

- **For the smaller versions up to 5000 *l/min*, usually ex-stock**
- **The "*bigger units" tend to be made to order***

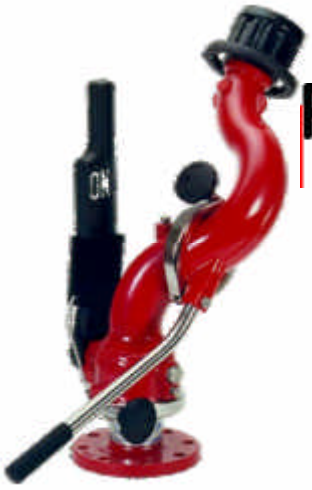
Usage | Flow rates and pressures | Weight, size and portability | Availability | Features

Features

- Oscillating – can be used with “stand alone” oscillating heads to give wide coverage.
- Friction loss: newer models designed without regular 90° turns to reduce friction loss and increase flow and reach
- Valves: can be integral or to suit users own valve openings
- Reduced maintenance: newer styles tend to minimise maintenance and service aspects due to “inbuilt” design features
- Variable flow settings
- Hydraulic or electric operating mechanisms
- Integral or “add on” foam nozzles and induction systems

Usage | Flow rates and pressures | Weight, size and portability | Availability | Features

Features



PETRO-JET

A multiplicity of versions for a new design !
Ultra-reduced maintenance
Greater range
Monitor with 2 ½’’ threaded outlet or integral nozzle, up to 3000 L/min
Monitor with no valve or fitted with ON/OFF indicator valve
Robustly constructed in brass or aluminium
Can be fixed in situ and locked at azimuth without damage to the material

Usage | Flow rates and pressures | Weight, size and portability | Availability | Features