

# Osprey

## Selectable Flow Water and Foam Nozzle

- Ergonomically designed pistol grip
- Unique serial number
- Corrosion Resistant



The Osprey Selectable Flow Nozzle provides professional fire fighters with a range of flow combinations to meet their needs without having to leave the area of the incident to change nozzle.

The light alloy, ergonomically designed pistol grip, and hoop on/off control enable the nozzle to be directed at the same time as the flow rate is adjusted.

The body is manufactured in light alloy for ease of handling and all alloy components are hard anodised to provide corrosion protection and a long lasting protective surface finish

### Water Fog

To generate a homogeneous water fog, spinning teeth (made from high grade 316 stainless steel for a long corrosion-free life) are built into the nozzle end to break up the water stream into small droplets.

### Selectable flow rate and flushing option

The flow rate can be set via an easy grip ring on the body to one of 4 pre-set positions.

Once operations are completed the flow adjuster can be set to a "Flush" setting to ensure any foam or debris is flushed from the nozzle.

Setting	A	B	C	D
Flow l/min	360	475	550	750
Flow imperial Gal/min	80	105	120	165
Flow US Gal/min	95	125	145	200

### Adjustment ring markings

Markings on the flow selector ring and the pattern bumper ring are laser etched onto anodised aluminium to ensure they are easy to read and fade free.

### Unique serial number

Every nozzle is etched with a unique serial number before leaving the factory. The number can be used to log each nozzle into inventory and to track equipment in the field.

### Foam Tube

When fitted with the optional foam tube the Osprey nozzle achieves expansion rates from 8:1 to 14:1 depending on the foam and operating conditions

### Shut off valve

A dual seat, low maintenance, hard chrome plated metal ball valve is operated by an easy grip hoop on/off lever. Operation is smooth and progressive to allow the operator complete control over the nozzle action.

### Stainless steel inlet screen

A stainless steel mesh inlet screen is fitted as standard to the inlet to guard against materials entering the nozzle, reducing the risk of damage during operation.

### Selectable spray pattern - extra wide spray/fog to long throw jet

The spray pattern can be set by rotating the nozzle end from a jet stream to extra wide spray/fog. (27 steps)

The spray pattern and flow rate can be adjusted separately or together during operation. Adjustment of the spray pattern does not affect the flow rate which remains constant once set.

An extra wide spray pattern is available for maximum operator protection.

Reach when set to parallel jet 51m (flow 750 l/min, input pressure 7 bar)

The jet stream setting can be maintained at a usable level down to inlet pressures as low as 3.5 bar (50 psi).

### Inlet layout and combinations

The Osprey selectable Flow Nozzle is supplied with a 2½" BSP female thread inlet fitted with a 2½" British instantaneous coupling as standard. Adapters to allow Storz, and most fire hose fittings in common use world wide are available on request.

(Optional Foam Tube)



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The inlet is fitted with a swivel to allow the nozzle to be rotated continuously on the end of the supply hose.

### Foam

The Osprey Selectable Flow Nozzle is ideally suited for use with Angus foam solutions (either pre-mix or inducted into the supply line). With the addition of the optional foam tube, foam throw and quality are maximised.

### Approvals and standards

- Complies with NPS 1966
- Manufactured in an ISO9001 accredited facility

### Service and maintenance

The Osprey selectable Flow Nozzle requires minimal maintenance during operation provided the unit is regularly flushed after being used with foam or contaminated water.

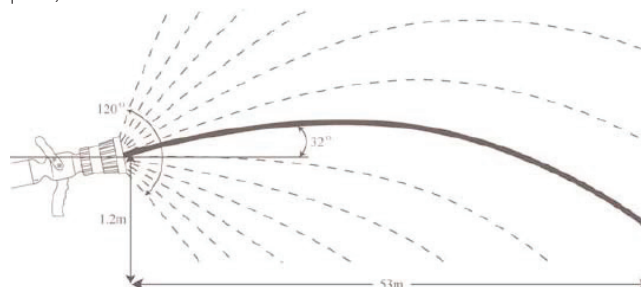
It is recommended the nozzle is stripped and inspected annually if in regular service. Use in arduous conditions may require more frequent servicing.

Service kit - No 1002

### Options

- Nozzle tip only
- Alternative inlets - Storz, US fire, BSP (inlets to meet all world wide fire hose connections in common use on request)

- Osprey nozzle with brass body
- Foam tube - mountable on to end of nozzle to improve foam flow characteristics and quality
- Constant pressure (inlet) model. Flow is automatically adjusted to provide for a constant inlet pressure.
- Alternative flow ranges (refer to Angus Fire)



### Technical Data Summary - Osprey constant flow water & foam nozzle

Applicable codes and standards	NFPA
Min/Max temperature for normal use (water supply above 0°C)	-20°C/+50°C
Minimum pressure for full operation	3.5 barg
Maximum pressure for full operation	14 barg
Optimum design pressure	7 barg
Test pressure (shut off valve closed)	23 barg
Body materials	Aluminium Brass
Media (with Aluminium body)	Potable (fresh) water and fire fighting foam
Media (with brass/gunmetal body)	Sea water and fire fighting foam
Nozzle tip operation	Infinitely adjustable between 110° fog spray and straight jet
Jet throw	51m (at 7 barg inlet 750 l/min flow)
Performance - constant flow settings	360, 475, 550, 750 l/min
Nominal body size	65mm (2½")
Body inlet connection	2½" BSP female thread with swivel
Inlet connection (standard)	2½" British instantaneous coupling
Inlet connection (options)	1½" BSP (F) Storz, US fire thread
Shut off	Hand operated trigger
Weight	2.5 kg (5.5 lbs)
Overall length	248mm (9.8")
Finish	Hard anodised
Markings	Laser etched onto anodised bands
Serial numbering	Unique factory etched serial number
Total permissible running weight (axle limit)	3,600 kg

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