

**DELTA  
FIRE**



# SMOOTH-BORE FIRE NOZZLE

## INTERCHANGEABLE STACKING TIPS

### KEY USERS

- Fire & Rescue Services
- Defence
- Oil & Gas
- Marine
- Major Industrials
- Aviation
- Mining
- Nuclear

### KEY FACTS

- Manufactured in the UK
- ISO9001 Quality Controlled
- Ideal for use in High-Rise Buildings with Long Throws at Low Pressures
- Interchangeable Stacking Tips
- Optional Jet/Spray Attachment
- Stainless Steel Spinning Teeth
- Stainless Steel Profiled Ball Valve
- Manufactured to NFPA 7 bar
- 10 Year Manufacturer's Warranty



**Smooth-Bore Nozzle with  
Jet/Spray Attachment**

Doc Ref: DDS020

### DELTA FIRE

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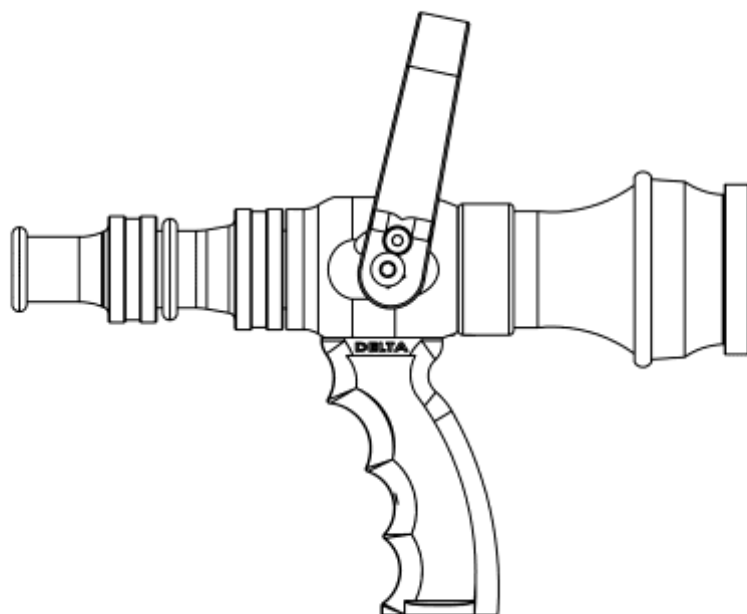


## GENERAL DESCRIPTION

The Delta Smooth-Bore is one of the most versatile nozzles available today thanks to its two interchangeable solid bore jet tips (15mm & 19mm or 19mm & 24mm). The Smooth-Bore enables firefighters to project large volumes of water at relatively low pressures lending itself perfectly to use in high-rise buildings where water pressures from the Dry Riser System can be less than 4 bar.

Commonly debris can accumulate in the Riser which, when in use, can carry into the water stream causing blockages to more conventional nozzles. The 'straight-through' waterway on the Smooth-Bore greatly reduces problems with blockages allowing the operator to maintain performance and firefighting capabilities. The stacking tips are designed to be easily unscrewed by a gloved hand thanks to a tactile, knurled finish for easy location and grip. An optional jet/spray attachment is available for fast, efficient conversion to meet the needs of changing fire conditions allowing the operator to select between jet and spray functions creating dense, small droplet fog patterns thanks to the stainless steel spinning turbine teeth. The jet/spray attachment can be supplied in a 'trigger-lock' option enabling the user to lock the attachment in place for additional security.

Manufactured in hard anodised Aluminium for superb resistance to corrosion and fitted with a stainless steel ball valve the Smooth-Bore will provide the user with exceptional performance and long-term value for money. Available with a wide range of International inlet adaptors for compatibility to existing hoselines.



The Smooth-Bore Nozzle is the culmination of an extensive design and innovation process conducted in close collaboration with UK Fire & Rescue Services to ensure modern-day firefighting requirements are both met and exceeded at all times. Exhaustive trials and evaluations have been conducted over an extended timeframe in live fire scenarios culminating in a nozzle offering superior performance and exceptional durability in even the harshest of environments. Precision engineered componentry and the use of high quality materials provides the very best in reliability and enhanced firefighter safety.

The Smooth-Bore is manufactured to NFPA 7 bar.

The Smooth-Bore is also the most compact and lightest nozzle in its class making it easy to store in Appliance lockers and operationally easy to use. The ergonomically designed pistol grip and control handle are suited for use with firefighting gloves conforming to both the BSEN 659:2003+A1:2008 and BSEN 388:2003 Standards.



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## DESIGN FEATURES

The Delta Smooth-Bore nozzles boasts a host of special features designed to maximise performance and ensure the highest possible level of safety for the operator. More than 25 years of ongoing research and development has culminated in a state-of-the-art low pressure mainline nozzle highly regarded by industry professionals globally.



### Interchangeable Stacking Tips

The Delta Smooth-Bore is supplied with two interchangeable solid-jet tips in a choice of 15mm & 19mm or 19mm & 24mm to suit the specific requirement. With a tactile, knurled finish the tips are easily interchanged with a gloved hand. Designed to propel large volume jets of water at low pressures the Smooth-Bore is ideally suited to high-rise building fire scenarios.



### Jet/Spray Attachment (Optional)

Simply by unscrewing the stacking tips the Smooth-Bore can be swiftly converted to a jet/spray nozzle to meet the needs of changing fire conditions providing the user with incredible operational versatility and the ability to create dense fog patterns and narrow angle sprays.



### Profiled Ball Valve

Using a specially profiled stainless steel ball valve designed to minimise 'jet-reaction', the Smooth-Bore is ideal for 'pulsing' techniques (using jet/spray attachment) when combatting flash-over risks in compartment fire scenarios. Unlike plastic ball valves as used by most manufacturers the stainless steel Delta valve ensures long-term durability and enhanced performance.



### Easy Flow Control

The Smooth-Bore is fitted with an ergonomic 'on/off' control handle that smoothly opens and closes the stainless steel ball valve providing total operator control over flows and jet length. Designed for compatibility with all types of firefighter gloves the Smooth-Bore is a truly multi-functional, highly adaptable nozzle suited to a wide range of firefighting scenarios.

The Delta Smooth Bore is a very versatile nozzle ideally suited to High Rise firefighting but equally suited to a wide range of fire scenarios thanks to the easy interchange between solid bore jet tips or jet/spray functionality (jet/spray attachment sold separately).

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## THE RANGE

The Smooth-Bore is supplied with BSP (British) or NH (American) threads to allow the user to fit any international inlet adaptor. Optional Jet/Spray Attachments (Standard or Trigger-Lock) are available on request. Two Stacking Tips are supplied in either 15mm & 19mm or 19mm & 24mm. Supplied as standard with all black decals the Smooth-Bore is also available with Red or Green pistol grip & control handle.



Product Code	NFA080102	NFA080202	XNAT089JSA
Model	7 Bar NFPA Model Low Pressure	7 Bar NFPA Model Low Pressure	Jet / Spray Attachment
Main Body / Barrel	Hard Anodised Aluminium	Hard Anodised Aluminium	Hard Anodised Aluminium
Stacking Tips	<b>15mm &amp; 19mm</b>	<b>19mm &amp; 24mm</b>	
Profiled Ball Valve	Stainless Steel	Stainless Steel	
Weight	1.1 KG	1.2 KG	0.3 KG
Inlet Type	1½" BSP Female	1½" BSP Female	
Flow Range litres/min @7 bar	260 – 615 LPM	400 – 965 LPM	250 – 375 – 500 LPM
Flow Range USG/min @ 7 bar	70 – 160 GPM	105 – 255 GPM	65 – 100 – 132 GPM
Maximum Use Pressure	40 Bar Factory Tested to 50 Bar	40 Bar Factory Tested to 50 Bar	16 Bar Factory Tested to 22 Bar
Maximum Advised Working Pressure	Maximum 16 Bar	Maximum 16 Bar	Maximum 16 Bar
Recommended Inlet Pressure	5 – 8 Bar	5 – 8 Bar	5 – 8 Bar
Minimum Operational Pressure	3 Bar*	3 Bar*	3 Bar*

*Optional NH (American) Threaded inlet*

*\*Recommended Only – Nozzle will function down to 1 Bar*



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