

TRIDENT

PRACTICAL – Easily fitted to most boom sprayers. Spray operators can simply change application rates from the cab without ever changing nozzle sizes.

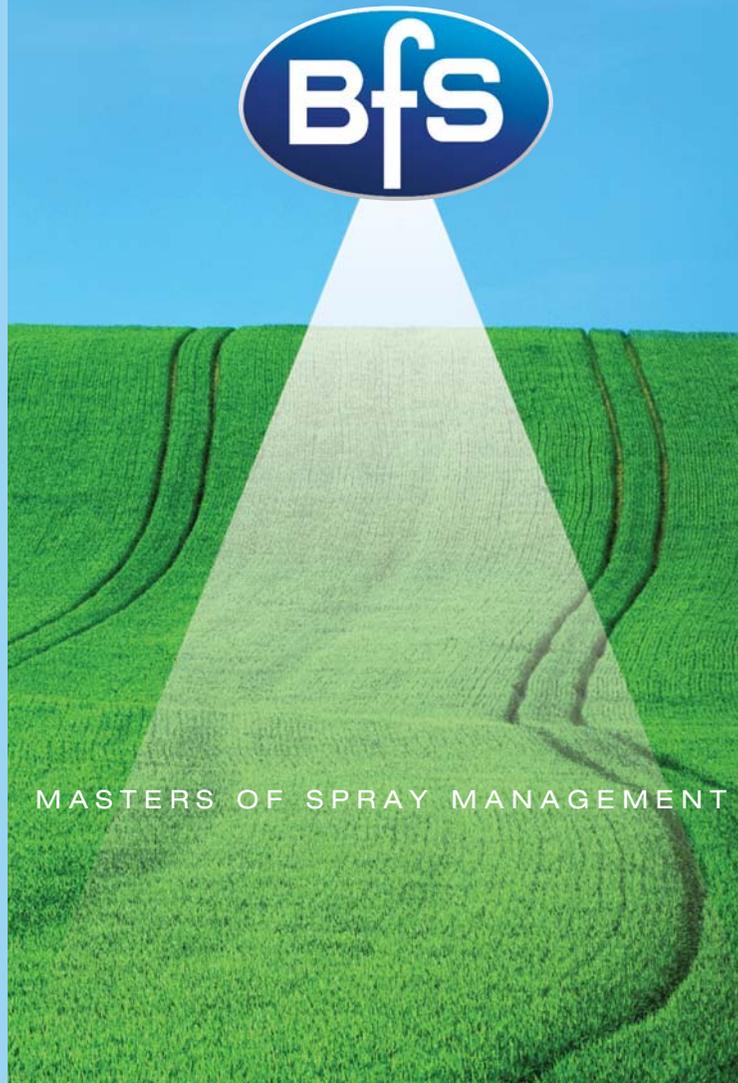
ACCURATE - Each of the three outlets on the Trident ensure consistent delivery of liquid fertiliser over the range of operating pressures.

EFFICIENT – Consistent, unbroken streams of fertiliser ensure precision targeting with less risk of scorch.

ECONOMIC – Reduces waste, offers increased speed and flexibility and provides a more cost-efficient utilization of labour and machinery.

CONSISTENT – Provides a uniform delivery of liquid fertilisers despite windy conditions or uneven ground.

SAFE – Reduces waste and cost, removes risk from spray drift contamination and eliminates field run-off to ditches, water courses and hedgerows. Can be applied right up to the field boundaries.



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TRIDENT

Variable Rate
Liquid Fertiliser Nozzle



A BFS innovation
in the accurate
application of
liquid fertiliser

As easy as 1,2,3...

- 1 nozzle with multiple functions
- 2 less likely to form droplets
- 3 streams reduce risk of crop scorch

TRIDENT

Three consistent streams of liquid fertiliser apply a wide variation of fertiliser volumes at low pressures

Why Trident?

When applying liquid fertiliser with a conventional nozzle, a spray operator can only vary the application rate from the cab by a small amount by altering the speed and/or the pressure. If larger output changes are required, the outlets need to be reset individually. This is not only very expensive in terms of nozzle purchases but a cost in terms of the 'down-time' spent by the operator when making changes to what could be 48 or more outlets across a boom.

Currently, the application of liquid fertiliser may require two or even three sets of the conventional multi-hole nozzles to apply the correct rate of nutrients required for a particular field or crop.

By fitting Trident nozzles with its unique auto-adjusting valve, frequent nozzle changes are eliminated and operators may need only fit one set of nozzles, which will apply a wide variation of fertiliser volume rates, especially at the low pressures required to reduce crop scorch.



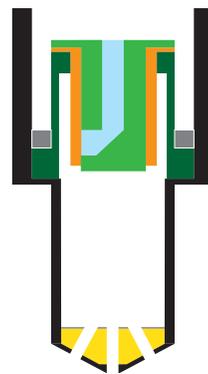
The Benefits

- ☞ Less likely to atomise and form droplets that cause scorch
Less damage, more yield.
 - ☞ Less of the crop being hit
More fertilizer applied directly to the soil.
 - ☞ Less likely to damage the crop that is hit (streams run off the plant)
Less damage more growth.
- Less is more.**

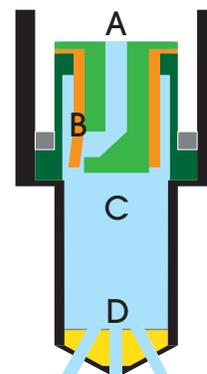
How it works

Trident consists of a three-hole nozzle housing with a bayonet fitting. The nozzle has an internal auto-valve that comprises a chamber and metering orifice surrounded by a resilient, but flexible, sheath. The sheath is manufactured using a specially developed material, which is expandable and reacts consistently and proportionately to increases/decreases in pressure.

When there is no flow/pressure the flexible sheath closes the exit aperture in the support plug. As pressure is increased the sheath expands in



Auto valve closed
When the pressure is reduced the sheath closes and the flow of liquid stops.



Auto valve open
Fertiliser enters the nozzle at A and, at a given pressure, the flexible sheath expands at B and liquid flows into the outlet chamber C and exits at D as three consistent and unbroken liquid streams.



Trident nozzles fit almost all spray booms!

response to the increase and liquid flows out of the aperture and into a chamber at a rate directly proportional to the increase in pressure, and then exits as three consistent streams through the three orifices.

Trident incorporates unique components that ensure uniform and consistent results

