

Instruction Manual

MANTR55-10 REV-A 11/3/14

BOOMLESS NOZZLE KIT TO SUIT 55L REDLINE



BOOMLESS NOZZLE KIT TR55-10 TO SUIT 55L REDLINE SP55-R1

The boomless nozzle kit for the 55L Redline is fitted with a Teejet TK-4 brass nozzle and mounted in a swivel nozzle holder.

The nozzle sprays a width of approximately 2m and the application rate is controlled by varying the speed of towing vehicle.

The pump is matched to the nozzle and the pump pressure is fixed and not adjustable.

The kit is supplied with an on/off switch which can be fitted to the wiring loom of the 55L Redline within easy reach of the driver so the sprayer can be switched on and off without having to get off the towing vehicle.

SILVAN AUSTRALIA PTY. LTD.

ABN 48 099 851 144

VICTORIA (HEAD OFFICE)

244- 264 Greens Rd,
Dandenong South, 3175 Australia
Telephone: +61 (03) 9215 2700
Facsimile: +61 (03) 9215 2701
www.silvan.com.au

NEW ZEALAND

22 Sunshine Avenue
Te Rapa, Hamilton, 2001 New Zealand
Telephone: +64 (07) 8496033
Fax: +64 (07) 8496070
www.silvannz.co.nz

Calibration

GENERAL INFORMATION

WHEN TO SPRAY

Results will be best when wind speed is low, temperature low and relative humidity high. An ideal time is at sun up when these conditions are most likely to apply.

APPLICATION RATE

The application rate depends on the following.

- Speed of travel - increasing speed reduces application rate and vice versa.

$$\text{Application Rate (L/Ha)} = \frac{600 \times \text{Nozzle Output (l/min)}}{\text{Speed (km/hr)} \times \text{Spray Width (m)}}$$

GROUND SPEED

The speedometer on many vehicles may not be sufficiently accurate at the slow speeds used when spraying. If in doubt it should be checked by the following method.

Measure and mark a distance of 100 metres. Approach the starting mark at the required spraying speed and accurately measure the time in seconds to reach the finishing mark. The ground speed can then be calculated as follows.

$$\text{Speed (km/hr)} = \frac{360}{\text{Time in seconds for 100m}}$$

BOOM TEST (NOZZLE OUTPUT)

1. Partly fill the sprayer tank with water and mark the level or refer to the sight gauge.
2. Run the sprayer for several minutes and measure the time carefully.
3. Refill the sprayer tank to the mark using a measuring jug and record the amount added.
4. The output for one nozzle in litres per minute can be calculated as follows.

$$\text{Nozzle Output (l/min)} = \frac{\text{Litres Used}}{\text{No. Minutes}}$$

SPRAY CHART

The TK-4 nozzle has an output of 2 l/min when fitted to the 55L Redline SP55-R1, The spray width is approximately 2m. Based on these figures the following application rates are achieved at the following towing speeds. Always verify the speed and nozzle spray rate with water first before attempting to spray with chemical

TK-4 Application rate L/Ha				
Speed Km/Hr				
2	4	6	8	10
300	150	100	75	60