

VERIRATE

Variable Flow Rate Nozzle for Aerial Applications



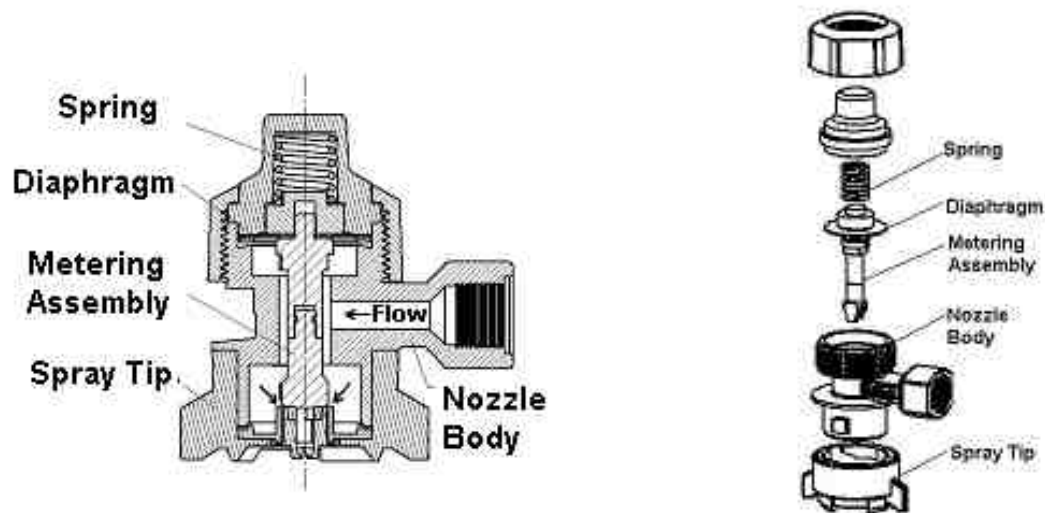
***ONE VERIRATE REPLACES EIGHT
CONVENTIONAL NOZZLES !***

Flow Rate Controllable On The Go

AE50 AWARD WINNER

SprayTarget

Ph: (651) 485-2410 Fax : (651) 344-3226 Website: www.spraytarget.com



VeriRate is a nozzle that is capable of controlling flow rate and maintaining proper spray pattern and droplet size over an extended range of flow rates. The nozzle comprises a flexible metering orifice that is automatically and appropriately deformed by a flexible metering assembly in response to changes in liquid pressure.

FEATURES

- Flow rate variable from .30 to 3.0 GPM as pressure varies from 15 to 60 PSI
- Droplet size in the range from 250 to 350 microns
- Spray angle of 40 degrees
- Uniform spray coverage along the boom and travel direction
- Quick response to rate changes
- Flow rate controllable on the go
- Compatible with GPS/GIS
- Compatible with pressure regulators or automatic rate controllers
- Adaptable to conventional spraying systems
- Excellent chemical and wear resistance
- Flexible and large orifices permit significant reduction in nozzle plugging

APPLICATION CHART

| Reference Pressure PSI | Flow Rate GPM | Gallons Per Acre 12 Inch Tip Spacing | | | | | | | |
|---------------------------|------------------|---|---------|---------|---------|---------|---------|---------|---------|
| | | 100 MPH | 120 MPH | 130 MPH | 140 MPH | 150 MPH | 160 MPH | 170 MPH | 180 MPH |
| 30 | 0.3 | 1.5 | 1.2 | 1.1 | 1.1 | 1.0 | 0.9 | 0.9 | 0.8 |
| 33 | 0.6 | 3.0 | 2.5 | 2.3 | 2.1 | 2.0 | 1.9 | 1.8 | 1.7 |
| 36 | 0.9 | 4.5 | 3.7 | 3.4 | 3.2 | 3.0 | 2.8 | 2.6 | 2.5 |
| 39 | 1.2 | 5.9 | 5.0 | 4.6 | 4.2 | 4.0 | 3.7 | 3.5 | 3.3 |
| 42 | 1.5 | 7.4 | 6.2 | 5.7 | 5.3 | 5.0 | 4.6 | 4.4 | 4.1 |
| 45 | 1.8 | 8.9 | 7.4 | 6.9 | 6.4 | 5.9 | 5.6 | 5.2 | 5.0 |
| 48 | 2.1 | 10.4 | 8.7 | 8.0 | 7.4 | 6.9 | 6.5 | 6.1 | 5.8 |
| 51 | 2.4 | 11.9 | 9.9 | 9.1 | 8.5 | 7.9 | 7.4 | 7.0 | 6.6 |
| 54 | 2.7 | 13.4 | 11.1 | 10.3 | 9.5 | 8.9 | 8.4 | 7.9 | 7.4 |
| 57 | 3.0 | 14.9 | 12.4 | 11.4 | 10.6 | 9.9 | 9.3 | 8.7 | 8.3 |
| 60 | 3.3 | 16.3 | 13.6 | 12.6 | 11.7 | 10.9 | 10.2 | 9.6 | 9.1 |

Spacing of 12 inches is recommended for the wing sections and 24 inches for the fuselage section