

SPRATRONICS SOLID STREAM O-NOZZLE

MULTI-LANE ANTI-ICING AND DE-ICING

Best Results

- ❌ Only **O-NOZZLES** are capable of correctly spraying up to 3 lanes wide at all city and highway speeds .
- ❌ Spray vehicle speeds range from 1-60 mph, a 6000% difference.
- ❌ Fixed orifice nozzles adjust only within a small fraction of this enormous range.

Lowest Cost

- ❌ For Manufacturing - No wet booms, no check valves. Just two easy-to-build brackets. (See Installation Manual)
- ❌ For Operations – “Our variable **O-NOZZLES** give us less expensive anti-icing and de-icing costs than using fixed orifice nozzles.”
Steve Krause, City of Aurora, CO
- ❌ For Ownership- No longer will accidents be caused by excessive slippery chemicals left on the roadway. (See CBS News May 7, 2004 @ KIROTV.COM)



Safest Solution

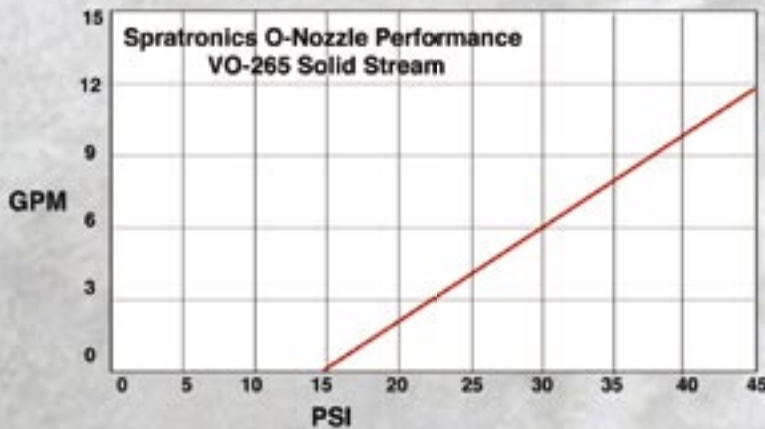
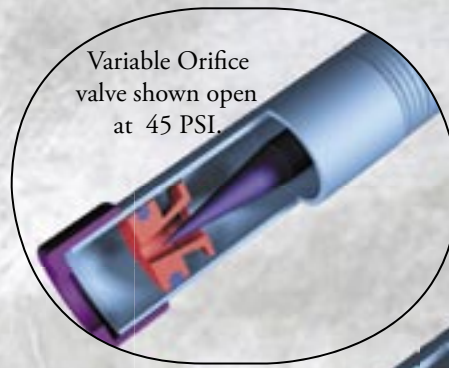
- ❌ Zero velocity spraying eliminates the usual clouds of spray and fog behind a truck while spraying.
- ❌ Other cars in the road do not have their visibility reduced while spraying occurs.
- ❌ Spray trucks using **O-NOZZLES** can keep up with traffic speeds while applying specified rates.
- ❌ These **O-NOZZLE** advantages combine to reduce the temptation for other drivers to resort to risky passing behaviors to get past the spray truck.
- ❌ **O-NOZZLES** do not drip at slow speeds or when stopped. This anti-drip feature avoids dangerous, slippery pools of excess liquids at stop signs and intersections.

Zero Velocity Spraying

- ❌ **O-NOZZLES** spray backwards into all lanes, thus canceling forward speeds of the truck.
- ❌ Spray streams fall gently on the road, avoiding air turbulences created by the moving truck.
- ❌ The usual fog or cloud droplets from spraying are avoided. Other drivers have visibility.
- ❌ Liquid mixtures spread evenly across roadway with best possible melting of snow and ice.

Improved Technology

As the pressurized mixture enters an **O-NOZZLE**, it pushes the piston back against a calibrated spring. This liquid sprays out around the “O” at the cone shaped orifice and is metered out by the precision needle- shaped valve. This variable orifice feature is the key to achieving a uniform flow rate at all speeds. Without this capability, it is impossible for a road or highway spraying unit to accurately meter the liquids, resulting in dangerous and wasteful under- and over-application.



Applications

O-NOZZLES are widely used for roadway spraying at rates as high as 500 gplm* using only 4 nozzles per lane. Here are some uses:

- ☒ Streets, roads and highway anti-icing/ de-icing
- ☒ Airport anti-icing/de-icing
- ☒ Dust and erosion control for roads and highway shoulders
- ☒ Soil compaction and ground stabilization for gravel roads.

Even, Uniform Spraying

Unlike fixed orifice nozzles that dribble at low pressure and choke at higher pressures, the **O-NOZZLE** responds uniformly across the full range of pump pressures and flow rates. This guarantees results- when more spraying volume is called for, the **O-NOZZLE** responds instantly. Whenever spraying is stopped, the **O-NOZZLE** spring system seals the orifice tightly with no drips, no waste.

Easy Installation

An Assembly and Installation Manual with full instructions is available by contacting the Spratronics office.

**Contact factory for further information.*



20403 80th Ave SE
Tel: 360-668-2548
Fax: 360-668-3784

Snohomish, WA 98296
Toll Free 1-866-668-3444
www.spratronics.com

Model # VO-265