

# 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 high-way 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

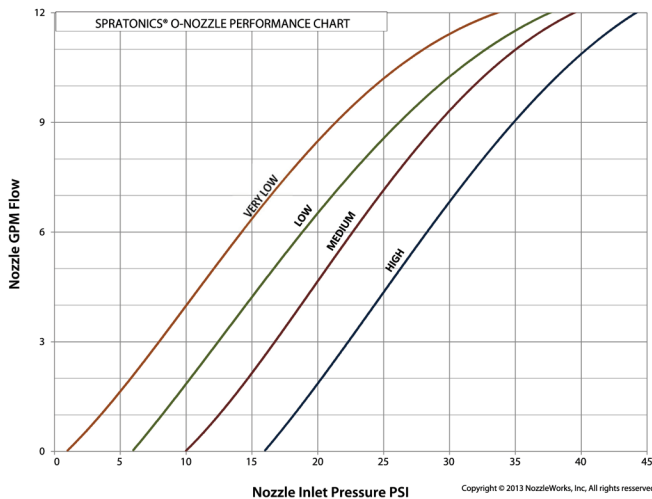
- Zero velocity spraying eliminates the usual clouds of spray and fog behind a truck while spraying.
- Other cars in the road do not have their visibility reduced while spraying occurs.
- Spray trucks using **O-NOZZLES** can keep up with traffic speeds while applying specified rates.
- These **O-NOZZLE** advantages combine to reduce 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 orifice 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.

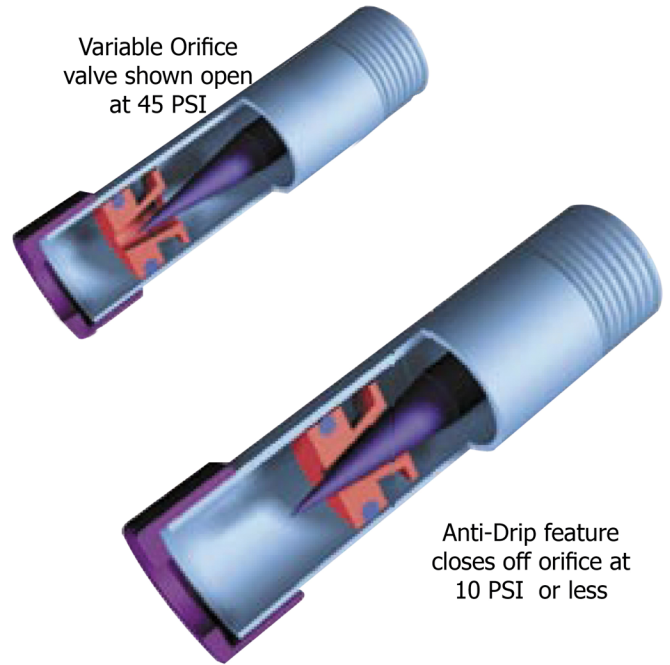


## Applications

**O-NOZZLES** are widely used for roadway spraying at rates as high as 500gplm\* 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.

Variable Orifice valve shown open at 45 PSI



Anti-Drip feature closes off orifice at 10 PSI or less

## 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*



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