



**Faster Shut-Off. Less Run-On.  
Reduced Chemical Costs.**

## **KWIKSTOP™ Rapid Shut-Off Nozzle Bodies**

### **A Major Innovation in Nozzle Body Design**

- ▶ KWIKSTOP nozzle bodies remove air trapped in the spray boom so nozzle bodies shut off faster and nozzle run-on is significantly reduced.
- ▶ Interchangeable with most bottom take-off style nozzle bodies and are an easy, cost effective, retrofit on existing sprayers or can be ordered on new sprayers.
- ▶ Same features as proven **COMBO-JET®** nozzle body:
  - Turrets have separate o-ring seal for each position to prevent dust build-up inside turret pivot area, which prevents seizing.
  - Superior strength and durability - rugged design, chemical and UV resistant construction.
  - Built-in diaphragm check valve shuts spray off faster and prevents the nozzle from dripping.
- ▶ Available in **COMBO-JET®** and **conventional / square lug** outlet models.



**KWIKSTOP™**





**Better Engineered  
Sprayer Components  
for Over 30 Years**

## KWIKSTOP™ Rapid Shut-Off Nozzle Bodies

# Shut off faster. Less spray nozzle run-on.

**The Problem:** All sprayers experience some run-on after the nozzles are shut-off, which causes the crop to be over-sprayed. In addition to increased chemical or fertilizer costs, crops may be damaged, delayed or mature unevenly.

Headlands usually suffer the most because, during a turn-out, they get double sprayed due to the length of response time after the boom switch is shut off to when the spray actually stops flowing out of the nozzles.

**The Cause:** A major cause of run-on is the small amounts of air that get into the spray system over time and accumulate in the top of the spray boom. When the sprayer is spraying, the pressure in the system compresses the air. When the boom is shut off, the nozzles run on until the air decompresses below the shut-off pressure of the check valves.

- ▶ Larger sprayers have more fluid (and air) volume in their spray system which makes run-on times longer.
- ▶ Higher spraying pressures compress the air more, so it takes longer to decompress.
- ▶ The faster the sprayer is moving, the more crop will be over-sprayed.

**The Solution:** The KWIKSTOP nozzle body liquid inlet is taller, so it takes the liquid (and the air) from the top of the boom pipe, where the air accumulates and compresses. The KWIKSTOP continuously removes the air along with the liquid so there is less volume of air in the spray boom to compress, which reduces the run-on time.

Removing air from the spray system may alleviate auto-controller problems and/or improve control response time.

For applications where sediment is a consideration, the sediment, which collects at the bottom of the boom pipe, is less likely to flow out of the taller inlet and plug the nozzles. Accumulated sediment may need to be flushed out periodically.



### Nozzle Body Specifications

Maximum Operating Pressure - 125 psi (9 Bar)
Diaphragm Check Valve Operating Pressures (standard)
- Open Pressure - 10 psi (0.7 Bar)
- Close Pressure - 7 psi (0.5 Bar)
- Other check valve open / close pressures available
Diaphragm Material - EPDM (standard) / Viton® (optional)
O-ring Seals - Buna (standard) / Viton® (optional)
Nozzle Body Materials:
- Main body - Celcon® / Swivel body (turret) - Delrin®
- Upper clamp & check valve components - glass-filled poly
- Metal Components -Stainless Steel



Nozzle Body Type	Number of Outlets		
	Single	Double	Triple
<b>COMBO-JET</b>	40259-00	40258-00	40268-00
<b>Conventional / Square Lug</b>	40116-00	40117-00	40118-00

\* All nozzle bodies fit a 1" pipe and come complete with a diaphragm check valve.

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Nozzle Bodies



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Publication #10211-00

Printed In Canada