



**Spraying Systems Co.<sup>®</sup>**  
Experts in Spray Technology



Spray  
Nozzles



Spray  
Control



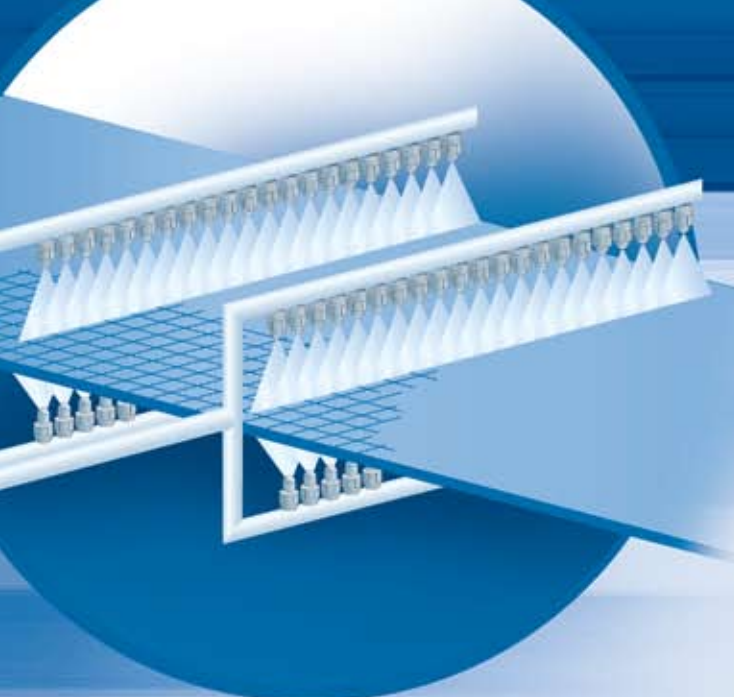
Spray  
Analysis



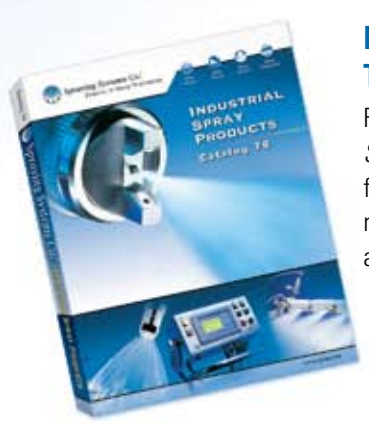
Spray  
Fabrication



## **A Guide to Safe and Effective Sanitation for Food and Pharmaceutical Processing**



# Spray Nozzles and Manifolds for **Conveyor & Equipment Cleaning**



## More Spray Technology Resources

Request our new *Industrial Spray Products Catalog 70* for the most comprehensive resource of spray nozzles and accessories available.

## Achieve spotless cleaning over the entire conveyor width

VeeJet® nozzles have a tapered flat fan spray that provides uniform coverage of overlapping spray patterns in a manifold. The versatile medium impact spray works well in rinsing, washing and sanitizing stages.



VeeJet  
Nozzle

## Cut maintenance time in half with quick-change spray tips

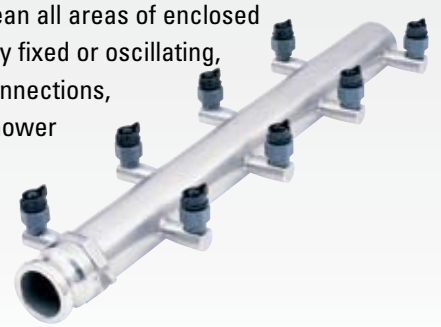
Cleaning or replacing clogged and worn nozzles is fast and easy with QuickJet® spray nozzle systems. They have a body that stays in place and a replaceable tip that is easily inserted by hand. QuickJet spray tips are constructed of chemical-resistant polypropylene, and they are color-coded by flow rate for fast identification.



QuickJet  
Nozzle

## Thorough cleaning in hard-to-reach equipment areas

If you have a sanitation application that is more challenging, a custom-fabricated manifold may be the solution. Designed to your specifications, custom manifolds can effectively clean all areas of enclosed equipment. Specify fixed or oscillating, inlet and outlet connections, nozzle spacing, shower height, materials of construction and much more.





## Specifying the right nozzle increases efficiency at every cleaning stage

WashJet® nozzles are available with a solid stream or flat even spray pattern. They provide a high impact spray that cuts through debris on conveyors and equipment. High pressures range from 300 to 4000 psi (20 to 275 bar).



WashJet  
Nozzle

With a narrow angle, flat fan, high impact spray, FlatJet® nozzles are very effective for cleaning at low pressures from 15 to 150 psi (1 to 10 bar). The high-impact spray effectively removes debris, while the low pressure keeps contaminants from spreading to other areas.



FlatJet  
Nozzle

SpiralJet® nozzles have a full cone spray pattern that provides full cleaning coverage of narrow width conveyors. The extra large free passage minimizes clogging in recirculated CIP systems.



SpiralJet  
Nozzle

Adjustable WashJet® nozzles feature a twistable cap that quickly and easily changes the spray pattern from solid stream to flat fan. ConeJet® nozzles adjust the spray pattern from solid stream to hollow cone. Our adjustable spray nozzles are frequently used in handheld spray guns to increase efficiency of maintenance workers.



Adjustable  
WashJet Nozzle

## Nozzle Selection Guide

Features	VeeJet®	QuickJet®	WashJet	FlatJet®	SpiralJet	Adjustable WashJet	Adjustable ConeJet
High Pressure		•	•			•	
Low Pressure	•	•		•	•		•
High Impact	•	•	•	•		•	
Low Impact	•	•			•		•
High Temperature	•	•	•	•	•		
Solid Stream	•	•	•			•	•
Flat Fan	•	•	•	•		•	
Hollow Cone					•		•
Full Cone		•			•		
Overlapping Spray Patterns on Manifold	•	•	•	•			
Adjustable Spray Pattern						•	•
Recommended for Equipment Cleaning	•	•	•	•	•	•	•
Recommended for Conveyor Cleaning	•	•	•	•	•	•	•



# Spray Nozzles for Automated Tank Washing



## More Tank Cleaning Resources

Learn how an automated tank cleaning system can save you up to \$50,000 a year per tank. Request Bulletin 15D, *A Guide to Safe and Effective Tank Cleaning*.

## 3A-rated nozzles for CIP applications

Fixed spray balls are commonly used in CIP systems because they have no moving parts and require minimal maintenance. Due to their low impact and ability to withstand harsh chemicals, they are best-suited for final rinse or sanitation applications.



**Fixed Spray Balls**

The 41800E tank washing nozzle maintains constant rotational speed to clean and sanitize tanks up to 12' (3.7 m) in diameter. Impact is four times greater than conventional rotating nozzles, so it thoroughly cleans while using less water. It features a high maximum operating temperature up to 302° F (150° C).



**41800E  
Tank Wash Nozzle**

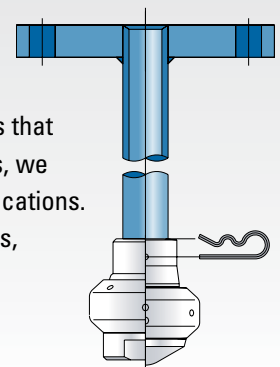
The 28500R tank washing nozzle has a threadless design and stainless steel locking pin that provide a better seal and prevent contamination. Multiple orifices and a fluid-driven, rotating spray head make this nozzle ideal for low-pressure cleaning and rinsing of tanks up to 18' (5.5 m) in diameter. TEFLON® construction withstands harsh cleaning chemicals.



**28500R  
Tank Wash Nozzle**

## Custom sanitation lances

For complete tank wash assemblies that meet your application requirements, we can fabricate lances to your specifications. Customize lance diameter, thickness, length, connectors, materials of construction and more.



## Automated tank cleaning nozzles reduce downtime and labor costs up to 82%

### Rotating Tank Wash Nozzles

The AA190 Tank Washer provides 360° of high-impact spray coverage to remove difficult residues from medium to large tanks up to 34' in diameter. Two to four solid stream jets rotate on a motorized spray turret to thoroughly clean all interior tank surfaces. The variable speed motor increases productivity with flexible wash cycle times as low as five minutes.



**AA190  
Tank Washer**

Designed to increase cleaning impact up to four times greater than conventional rotating nozzles, the D26984 Rokon® nozzle is excellent for cleaning, sanitizing and foaming applications in both containers and equipment.



**D26984 Rokon  
Tank Wash  
Nozzle**

Available with one to three spray orifices, the 23240 nozzle washes kegs and small barrels up to 3' (.9 m) in diameter.

**23240  
Tank Wash Nozzle**

### Stationary Tank Wash Nozzles

15498 and 3150 tank wash nozzles are available with 21 orifices for 360° coverage or 15 orifices for 210° forward-only coverage. The reduced neck design is self draining. The 15498 is designed to pass through standard keg bungs, and the 3150 is excellent for cleaning the interior of small distribution or process drums.



**3150  
Drum Wash  
Nozzle**

**15498  
Keg Wash  
Nozzle**

The 36640 nozzle features two rotating flat spray tips that deliver cylindrical spray coverage to rinse and lightly clean small containers.



**36640  
Keg Wash  
Nozzle**

21400A and 18250A nozzles have three high-impact, flat sprays for complete orbital coverage when washing tanks, barrels and drums. Both are available in high-temperature models for sanitizing up to 350° (177° C).

For minimal maintenance, the D41892 nozzle features a self-cleaning, sliding bearing. It is ideal for rinsing chemical containers and tanks up to 6.5' (2.0 m) in diameter. A CIP connection is available upon request.



**D41892  
Tank Wash Nozzle**

**21400A  
Tank Wash  
Nozzle**

The VSM nozzle is durable and corrosion-resistant. It efficiently rinses small containers up to 5' (1.6 m) in diameter.



**VSM  
Wash Nozzle**

The 6353 high-capacity nozzle thoroughly cleans tanks and vessels up to 22' (6.7 m) in diameter. It features numerous spray patterns and coverages and is available in a Maximum Free Passage version to reduce clogging.



**6353  
Wash Nozzle**



## Air knives cut compressed air usage in blowing and drying

With compressed air accounting for 30% of a plant's energy consumption, efficient air control can save thousands of dollars every year.

WindJet® Air Knife Packages use a regenerative blower to generate clean, heated air. Blower air knives are recommended for large areas where the conveyor is over two feet wide. Standard knife lengths are from 3" to 15' (76 mm to 4.6 m). Custom lengths are also available. Blowers are available from 1 to 30 HP (.75 to 14.1 kW).



WindJet  
Blower Air Knives

Compared to drilled pipes, WindJet Low Flow Air Knives use very small amounts of compressed air to produce a high-velocity, uniform air stream. They operate at noise levels below 69 dBA and are recommended for smaller areas where the conveyor is less than two feet wide. Low Flow Air Knives are ideal for processes that cannot tolerate additional heat.



WindJet  
Low Flow Air Knives

## Air nozzles create a targeted, high-velocity air stream

WindJet Air Nozzles offer the highest impact of all air control products. They work well as a final blow-off stage to remove excess water from detailed objects with crevices or from rounded objects that require high velocities. AA727 nozzles have 16 precision orifices that deliver a flat fan spray, and AA707 nozzles generate a tightly-directed round spray pattern.



AA727  
Air Nozzles

AA707  
Air Nozzles

# Air Knives and Air Nozzles for Conveyor Drying & Blow-off

### More Air Control Resources

For air knife performance data and specifications, request Bulletin 543C, *WindJet Air Knife Packages* and Bulletin 575, *WindJet Compressed Air Products*.



## Adjustable capacities and patterns for effective cleaning in multiple washdown stages

The CU150A spray gun has a high-impact, low-pressure spray that cleans without spreading contaminants. The spray pattern is adjustable from hollow cone to solid stream. To conserve water and chemicals, the orifice caps can be quickly and easily changed to lower capacities for final rinsing stages. The ergonomic design reduces fatigue on operators' wrists and hands.



CU150A Spray Gun

Another option for low-pressure sanitation applications is the 60-21580 spray gun. It features a trigger-activated, adjustable spray pattern from hollow cone to solid stream. Recommended for high temperatures up to 300° F (150° C), the 60-21580 has a front hose connection to keep the grip cool.



60-21580 Spray Gun

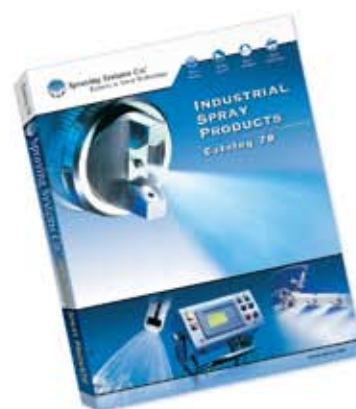
The AA70 GunJet® spray gun is designed for high pressure spraying up to 5000 psi (345 bar). It features easy trigger pull at high pressure, large area to accommodate work gloves, a contour handle that is comfortable for all hand sizes and a vented housing to keep the handle cool at all times.



AA70 GunJet Spray Gun



## Spray Guns for Manual Clean-up



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Spray  
Nozzles



Spray  
Control



Spray  
Analysis



Spray  
Fabrication

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