

Spray Products for Cleaning Parts, Components, and Surfaces



for manufacturing
and maintenance
processes



Spraying Systems Co.[®]

Optimizing your cleaning application starts with proper spray nozzle selection



Spray nozzles are vital components in many cleaning applications. And optimizing their performance is often critical to the quality of the end product. That's why proper spray nozzle selection is so important.

The best way to be sure you're specifying the right spray nozzles is to rely on a supplier with both the product you need and the know how to help you get the most from it. And that company is Spraying Systems Co.

Spraying Systems Co. is a worldwide leader in the manufacture of more than 22,000 different types of spray nozzles and accessories. For more than sixty years, Spraying Systems Co. has offered a complete line of spray nozzles designed to provide precise performance and innovative solutions in every type of cleaning application — whether it involves critical cleaning, general cleaning, or industrial cleaning.

Our sales engineers will work closely with you to identify spray problems and explore solutions. From initial consultation to delivery of the finished product and beyond, our sales engineers and technical services staff partner with you to select or develop the right spray nozzle for your cleaning application.

Not only do we offer the largest selection of spray nozzles to choose from, we also offer extensive custom-design capabilities. You can be assured your custom spray nozzle will fit your cleaning requirements exactly and be the most cost-effective design possible.

With this combination of product, experience, and service, we may be able to help you improve your cleaning application in ways you might never have considered before. We invite you now to take a closer look at some of the products available for your washing, rinsing, and drying needs.



Spray products for washing and rinsing

VeeJet® Spray Nozzles

In many spray applications, much of the washing and rinsing action is produced by spray impact. That's why the high-impact solid stream and flat sprays provided by our VeeJet nozzles prove highly effective for cleaning applications. Featuring specially tapered spray pattern edges for even coverage, the nozzles are available in 316 or 303 stainless steel, brass, KYNAR®, and PVC. With spray angles of 0° to 110°, VeeJet nozzles are available with 1/8", 1/4", 3/8", and 1/2" NPT or BSPT (M) inlet connections.



FlatJet® Spray Nozzles

If you need a very high-impact spray with a narrow spray angle for your washing and rinsing application, then choose our FlatJet spray nozzle. Its precision-machined deflector plane produces a uniform, high-impact flat spray pattern with sharply defined edges. With spray angles ranging from 15° to 50°, FlatJet nozzles are available with 1/8", 1/4", 3/8", 1/2", and 3/4" NPT or BSPT (M) inlet connections. Flow rates range from .40 to 20 gpm at 40 psi (1.8 to 91 l/min at 4 bar). They are offered in brass, mild steel, 303 stainless steel, and 316 stainless steel.



FullJet® Spray Nozzles

A solid, cone-shaped spray pattern with a round impact area makes our FullJet spray nozzles an excellent choice for rinsing away the residue left by cleaning chemicals. They produce a uniform spray of medium- to large-sized drops over a wide range of flow rates and pressures. A choice of spray angles ranging from 45° to 90° is available with flow rates ranging from .19 to 7.6 gpm at 40 psi (.85 to 34 l/min at 4 bar) and with 1/8", 1/4", 3/8", and 1/2" NPT or BSPT (M or F) inlet connections. The nozzles are available in a wide variety of materials, including stainless steel and brass.



Maximum Free Passage FullJet Spray Nozzles

The Maximum Free Passage (MFP) FullJet spray nozzle is the latest addition to Spraying Systems Co.'s line of spray nozzles. The spray nozzle's patent-pending design provides the largest free passage of any spray nozzle of its type. As a result, the possibility of clogging is minimized to allow maximum liquid throughput in washing and rinsing applications where there is debris in the water or where recirculated liquid is being used. The MFP FullJet nozzle is available with all stainless steel construction, or with a brass body and 316 stainless steel vane. The all 316 stainless steel version can withstand most caustic conditions while the brass/stainless steel combination results in lower costs with better wear performance than all brass. Both NPT and BSPT (M or F) threads with 3/8" to 3/4" inlet connections and standard spray angles of 60° and 90° and a wide spray angle of 115° are offered. Flow rates range from 1.4 gpm at 10 psi to 28.7 gpm at 80 psi (5.3 l/min at .7 bar to 104 l/min at 5.5 bar).



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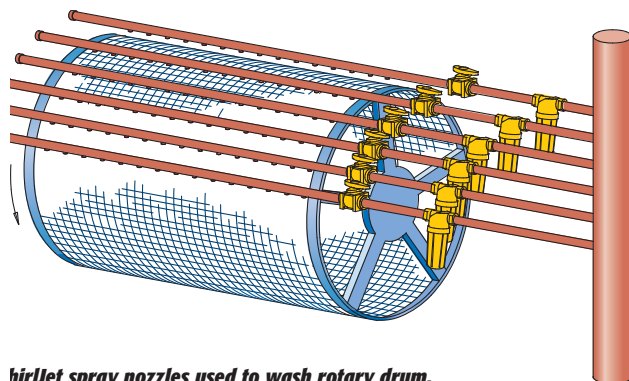
SpiralJet® Spray Nozzles

The helical design of the threaded SpiralJet spray nozzles permits maximum liquid throughput for a given pipe size to minimize clogging. A hollow cone or full cone spray pattern is created by shearing off portions of a column of water as it passes inside the spiral that distributes the spray. With spray angles ranging from 50° to 180°, SpiralJet spray nozzles are available with 1/4" to 4" NPT or BSPT (M) inlet connections. A variety of material options are available.



WhirlJet® Spray Nozzles

The uniform distribution of small- to medium-sized drops provided by our WhirlJet spray nozzles results in excellent spray coverage in washing and rinsing applications. Featuring a large, unobstructed flow passage to minimize clogging, the nozzles are available in standard, wide, and extra wide angles. 1/8", 1/4", 3/8", and 1/2" NPT or BSPT (M or F) inlet connections are offered. Materials of construction include polypropylene, 316 stainless steel, and brass.



WhirlJet spray nozzles used to wash rotary drum.

WashJet® Spray Nozzles

The WashJet spray nozzles feature a high-impact solid stream or flat spray pattern with spray angles of 0° to 65°. They produce a uniform spray distribution of medium-sized drops. This type of nozzle can be used for high-impact cleaning applications that include power cleaning and rinsing nozzles for pressure washers. The spray nozzle's orifice is precision machined to accurately control flow rates and it is recessed to protect against damage. The WashJet spray nozzles are designed with an internal guide vane that stabilizes liquid turbulence to provide maximum spray integrity and impact. Specially hardened stainless steel construction provides longer wear life and flow control capacity. WashJet spray nozzles are available with 1/8" and 1/4" NPT or BSPT (M) inlet connections.



FloodJet® Spray Nozzles

Producing a wide-angle flat spray with medium impact, our FloodJet spray nozzles are ideal for rinsing applications. These spray nozzles can also help to conserve rinsing solution. A precision-machined deflector surface provides dependable, accurate control of deflection and spray angles. A round orifice and large, unobstructed flow passages minimize clogging problems. With spray angles ranging from 75° to 150°, FloodJet nozzles are available with 1/8", 1/4", 3/8", and 1/2" NPT or BSPT (M) inlet connections. Flow rates range from .05 to 90 gpm at 40 psi (.20 to 355 l/min at 3 bar).



KYNAR® FullJet® and VeeJet® Spray Nozzles

Our KYNAR spray nozzles are perfect for washing and rinsing applications requiring chemical and corrosion resistance. Made of natural polyvinyl fluoride (PVDF) thermoplastic, the nozzles are capable of performing at temperatures up to 300°F at 100 psi (149°C

at 7 bar). Plus, since no colorants or fillings have been added to the spray nozzles, they are especially suitable for ultra-pure processing environments.



ProMax® QuickJet® Spray Nozzles

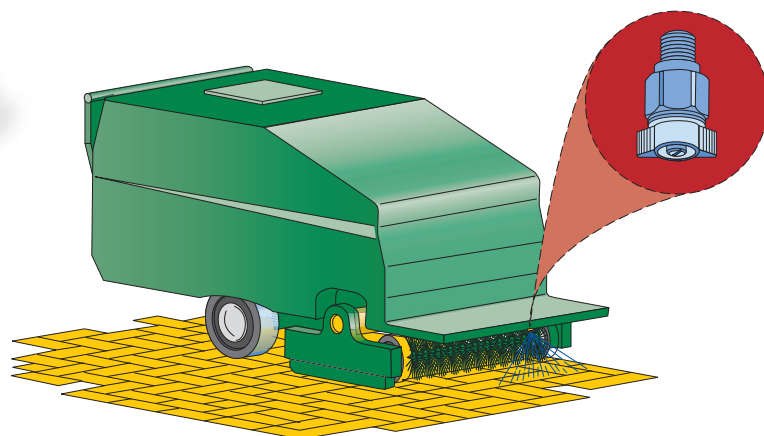
Spray nozzle maintenance time can drop dramatically with the ProMax QuickJet spray nozzles. The spray nozzle's simple, two-part assembly features a unique patented design that makes tip changing quick and effortless. The nozzle is constructed of ProMax material, a chemically coupled, glass-reinforced engineering grade of polypropylene that combines strength and durability with excellent chemical resistance. Choose from full cone, hollow cone, and flat spray tips.

A mini version of the spray nozzle is also offered. Flat and full cone spray tips are color-coded by flow rate for easy identification. Spray tip changeout is accomplished in seconds.



Tank Mixing Eductors

Our Model 46550 Tank Mixing Eductor, when combined with a centrifugal pump, improves liquid circulation and agitation in closed or open recirculating process tanks. It provides a homogeneous fluid mix between the bottom and top of the tank without the use of costly and inefficient air agitation. Not only is it a cost-effective way for achieving optimum liquid tank performance, it also allows smaller pumps to circulate larger volumes of tank solution for possible energy savings. The eductor is available in glass-reinforced polypropylene or cast 316 stainless steel. The polypropylene version features a 1/4", 3/8", 3/4", or 1-1/2" NPT or BSPT (M) inlet connection. Inlet connection sizes for the stainless steel model include 3/8", 3/4", and 1-1/2" NPT or BSPT (M). New to the line is a KYNAR (PVDF) version. It is available with a 1/4" NPT or BSPT (M) inlet connection.



Cleaning floors with ProMax Quick VeeJet nozzles.

Clip-Eyelet® Spray Nozzle

Designed to ensure easy installation and minimal maintenance downtime, the Clip-Eyelet spray nozzle assembly simply snaps onto an existing header. The spray nozzle tip is then installed, aligned, and secured by twisting the cap...all by hand. The assembly is affixed to the header by a spring-grade stainless steel clamp, which fits 1", 1-1/4", 1-1/2", or 2" pipes. Maximum pressure for the Clip-Eyelet spray nozzle is 60 psi (4 bar) with a maximum temperature of 180°F (82°C). Along with convenience, the Clip-Eyelet spray nozzle offers consistent spray patterns, even coverage, and effective chemical resistance for cleaning, conversion coating, and rinsing.



ProMax Clip-Eyelet Spray Nozzle

The No. 46500 ProMax Clip-Eyelet spray nozzle combines a “snap-on” pipe connection with easy-to-install and replace spray tips for added versatility.

An adjustable, swivel-type ball makes fast work of changing the direction of the spray without disturbing the pipe connection.

The spray nozzle is constructed of ProMax material that combines strength and durability with excellent chemical resistance. With a maximum pressure of 60 psi (4 bar) and a maximum temperature of 180°F (82°C), this nozzle is well suited for spraying phosphates, acids, solvents, and other caustics — making it ideal for cleaning, rinsing, conversion coating, and wetting applications.



ProMax® HP Eyelet

The ProMax HP Eyelet is the first pipe-mounted assembly of its kind that can be easily installed and removed by hand.

The assembly's hinged body only requires one screw for hand tightening to the spray header.

Constructed of ProMax material, the assembly accepts four different tip options for added flexibility. It operates at a maximum pressure of 60 psi (4 bar) and the maximum temperature of 180°F (82°C).



Adjustable Ball-Type Spray Nozzle

The Model 37235 Adjustable Ball-Type spray nozzle has a threaded pipe connection and permits quick, convenient positioning of the spray tip for accurate spray alignment and reduced overspraying.

Constructed of polypropylene for excellent chemical and heat resistance, the spray nozzle features spray tips that are easily removed for cleaning and replacement. It operates at a maximum pressure of 125 psi (8.6 bar) and a maximum temperature of 180°F (82°C).

The adjustable ball-type spray nozzle is ideal for cleaning, conversion coating, wetting, and rinsing applications.



Spray products for drying

707 WindJet® Blow-off Nozzle

The 707 WindJet blow-off nozzle produces a tightly directed round spray pattern with minimum noise levels. It is designed for air control applications that require a single stream, high-impact jet of air. It features extended ribs to protect the recessed orifices against external damage. The nozzle is available in either durable ABS plastic or PPS (polyphenylene sulfide), a chemical-resistant, high-performance thermoplastic that withstands temperatures up to 300°F (149°C). The nozzle is also available in aluminum or stainless steel for even greater



durability and temperature resistance. With its 1/4" NPT or BSPT (M) inlet connection, the nozzle can be mounted in a header or manifold for fixed applications, or attached to a hand-held spray gun for manual blow-off applications. These nozzles are ideal for surface drying applications.

727 WindJet Blow-off Nozzle

The 727 WindJet blow-off nozzle generates a quiet, efficient, controlled flat fan distribution of compressed air. The nozzle's air stream is discharged through 16 precision orifices that convert a low-pressure flow of compressed air into a targeted, high-velocity stream with uniform air distribution and precisely controlled spray pattern integrity. A convenient mounting hole provides correct positioning on the header or manifold for fixed applications. A threaded 1/4" NPT or BSPT (M or F) inlet connection permits attachment of the nozzle to a trigger valve spray gun for easy-to-control hand-held operation. They're available in ABS plastic, chemical-resistant PPS, and rugged aluminum.



UniJet® TK Nozzle

Another drying option is the UniJet TK nozzle tips for liquid, air, and steam.

Compatible with standard UniJet bodies, the tips feature a round orifice and a large, unobstructed air volume passage with a wide-angle, medium-velocity spray. A precision-machined deflector surface provides accurate control of deflection and spray angle. The tips are available in brass or 303 stainless steel.



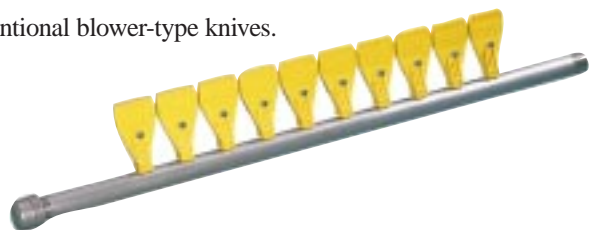
UniJet Blow-off Nozzle

The UniJet blow-off nozzles are specially designed for use with air and steam. These nozzles are also compatible with the UniJet system of interchangeable nozzle bodies. It is designed with a horizontal slot across the tip of the nozzle in order to deliver a uniform flat spray pattern. The nozzles are available in brass or 303 stainless steel.



WindJet Airknife Manifold

The WindJet Airknife Manifold is an ideal choice for sweeping wide areas. When 727 WindJet nozzles in ABS are mounted on an aluminum or stainless steel pipe, a flat fan spray with a very high-impact, sharp cutting edge is produced. The coverage ranges from approximately 8" to 60" (200 to 1500 mm) with uniform distribution across impact or blow-off areas. The maximum operating pressure is 100 psi (7 bar). Not only does the WindJet Airknife Manifold offer uniform distribution, it also delivers a much higher impact than conventional blower-type knives.



More spray products for cleaning applications

UltraClean Tank Machine

The fluid-driven UltraClean Tank Machine features criss-crossing, reproducible solid stream jets that provide



exceptional high-impact cleaning of large tanks, vats, and vessels. Its sleek, compact design fits in openings as small as 6" (152 mm). It weighs just 15 lbs. (6.8 kg) — making it suitable for both

clean-in-place and portable tank cleaning applications. Constructed of predominantly 316 stainless steel with wetted components of food-grade materials, the UltraClean offers excellent chemical and corrosion resistance. As a result, it is well suited for tank cleaning applications that use strong cleaning agents. It is available with four different nozzle sizes — 6, 8, 10, and 12 mm — with 1-1/2" NPT or BSPT (F) inlet connection. Available in the United States only.

Tank Washing Nozzles

Whether your tank requires a light rinse or a high-impact wash, one of our fluid-driven or stationary tank washing nozzles will do the job.

Choose from tank and drum cleaning nozzles, compact keg washing nozzles, TEFLON® fluoropolymer nozzles, and more.



TEFLON is a registered trademark of E.I. DuPont de Nemours and Company.



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Tank Washers

For cleaning medium to large tanks, our motor-driven tank washers offer powerful cleaning performance. Several models are offered, including the AA090 that fits in standard 2" NPT and BSPT drum and bung ports and the AA190 that fits in 3" (76 mm) diameter tank openings. Both units are lightweight and portable and are constructed of corrosion-resistant materials, including 316 stainless steel and TEFLON fluoropolymer resin seals. The motor options include air/gas, electric, and explosion-proof electric. Maximum pressure is 500 psi (35 bar) with a maximum liquid temperature of 200°F (93°C).



GunJet® Spray Guns

Our heavy-duty, impact-resistant GunJet spray guns feature a sturdy nylon handle and trigger guard. The Model 60 spray gun operates at pressures up to 2500 psi (175 bar) while the Model 80 spray gun operates at pressures up to 3000 psi (210 bar). Both models are easy to operate and remain responsive even at maximum pressure conditions.



Represented by: