

## PRECISION NOZZLES

These nozzles represent the highest quality fog nozzles available. They have been laboratory tested to ensure they perform as designed and will provide atomization as small as 1 micron with the majority of the droplets being between 5 and 15 micron (each micron is equal to one millionth of a meter). To consistently create droplets sizes as small as 1 micron in diameter, exacting specifications must be followed. We use quality brass alloy and 316L Stainless Steel in the production of the nozzles. All our nozzles contain an o-ring seal and can be easily installed and removed by hand without the need for special tools.

The nozzle selection includes our standard impeller design and our new cleanable nozzle design. The standard nozzles are available in brass/stainless steel. Our unique new cleanable nozzles are available in either brass/stainless steel or all stainless steel and include an anti drip adapter. These nozzles are designed to work at pressures above 500 PSI. All stainless steel nozzles also include a viton o-ring. All nozzles are available in 10/24 threads.

STANDARD NOZZLE SPECIFICATIONS				
Part Number	Orifice Diameter	GPM/LPM @1,000psi	Description	O-ring color
93508	.008"/.2mm	.020/.076	Brass & Stainless Steel	Red <span style="color: red;">■</span>
93512	.012"/.3mm	.029/.110	Brass & Stainless Steel	Black <span style="color: black;">■</span>
80450	.016"/.4mm	.044/.167	Brass & Stainless Steel	Brown <span style="color: brown;">■</span>
93520	.020"/.5mm	.055/.208	Brass & Stainless Steel	Green <span style="color: green;">■</span>
CLEANABLE NOZZLES WITH ANTI-DRIP ADAPTER				
95031	.006"/.15mm	.010/.037	Brass & Stainless Steel	Yellow <span style="color: yellow;">■</span>
95037	.008"/.2mm	.016/.060	Brass & Stainless Steel	Red <span style="color: red;">■</span>
95038	.012"/.3mm	.025/.095	Brass & Stainless Steel	Black <span style="color: black;">■</span>
95039	.016"/.4mm	.036/.136	Brass & Stainless Steel	Brown <span style="color: brown;">■</span>
95040	.020"/.5mm	.045/.170	Brass & Stainless Steel	Green <span style="color: green;">■</span>
95032	.006"/.15mm	.010/.037	Stainless Steel	Stamped
95033	.008"/.2mm	.016/.060	Stainless Steel	Stamped
95034	.012"/.3mm	.025/.095	Stainless Steel	Stamped
95035	.016"/.4mm	.036/.136	Stainless Steel	Stamped
95036	.020"/.5mm	.045/.170	Stainless Steel	Stamped



All Stainless Steel nozzles include an anti drip adapter (with a stainless steel spring and brown viton ball) and a brown viton o-ring.  
 Orifice sizes are stamped onto the nozzle facing.  
 Nozzle flow for 500 psi equals 75% of the rated flow of 1000 psi; nozzle flow for 250 psi equals 50% of the rated flow of 1000 psi

## NOZZLE ADAPTERS

The Nozzle Adapter line includes all related fittings that are adaptable to the standard 10/24 threads. The line also includes adapters for 12/24 or 1/8" threads. These accessories include Nozzle Plugs which are used to eliminate fog in a specific location in the system; spring loaded Drain Valves which will automatically drain the system each time it is turned off thereby preventing nozzle plugging due to calcium buildup; Anti Drip Adapters which will close each time the system is turned off preventing dripping from the nozzles; 5 Nozzle Clusters which are used to provide a dense fog in a specific location and are ideal for many Mistscaping® applications; and various extensions and adapters for customizing the design and the look of the system.

NOZZLE ADAPTERS		
Part Number	Description	Size
93505	Brass nozzle plug	10-24 thread
95012	High pressure auto drain valve	10-24 thread / 3/8" OD
93503	Medium pressure auto drain valve	10-24 thread / 3/8" OD
93238	Low pressure auto drain valve	10-24 thread / 3/8" OD
93501	Brass 1/5" nozzle extension	10-24 thread / 3/8" OD
92808	12" copper nozzle extension	10-24 male to 10-24 female
93597	6" copper nozzle extension	10-24 male to 10-24 female
92519	Brass nozzle adapter	1/8"MNPT to 10-24 thread
92520	Brass nozzle adapter	12-24 to 10-24 thread
10252	Nozzle o-ring black	10-24
93598	Nozzle o-ring red	10-24
93019	Stainless steel 5-nozzle cluster	10-24 thread
92100	Nozzle removal tool	
95041	Swivel adapter for nozzle nickel	10-24 male to 10-24 female



The various nozzle orifice sizes are used for specific applications depending on the project requirements.

The .006" YELLOW o-ring is the smallest standard nozzle orifice available. At 1,000 PSI, the arithmetic mean diameter of the droplets from this size orifice 12.2um with the droplets ranging from 1.2 microns to 36.4 microns. The .006" nozzle is ideal for applications requiring extremely low flow with small droplet size, minimal moisture and complete evaporation. Most commonly used for humidification. This nozzle is not designed to be used at pressure below 500 PSI.

The .008" RED o-ring At 1,000 PSI, the arithmetic mean diameter of the droplets from this size orifice is 12.7um with the droplets ranging from 1.4 microns to 37.9 microns. This size nozzle is ideal for applications requiring less flow with small droplet size, minimal moisture, and complete evaporation. It can be used for indoor humidification or outdoor cooling, depending on the circumstances. This nozzle is not designed to be used at pressures below 250 PSI.

STANDARD IMPELLER NOZZLES	CLEANABLE NOZZLES
<b>Not available</b>	<b>Anti drip .006" .010 GPM</b> Approx 45 degree spray pattern
<b>No anti drip .008" .020 GPM</b> Approx. 60 degree spray pattern	<b>Anti drip .008" .016 GPM</b> Approx 65 degree spray pattern
<b>No anti drip .012" .029 GPM</b> Approx. 70 degree spray pattern	<b>Anti drip .012" .025 GPM</b> Approx 70 degree spray pattern
<b>No anti drip .016" .044 GPM</b> Approx. 75 degree spray pattern	<b>Anti drip .016" .036GPM</b> Approx 75 degree spray pattern
<b>No anti drip .020" .055 GPM</b> Approx. 80 degree spray pattern	<b>Anti drip .020" .045 GPM</b> Approx 80 degree spray pattern