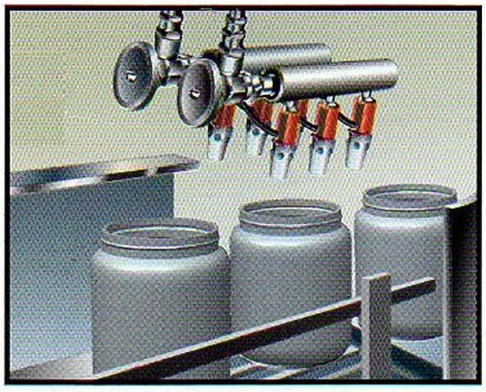
ttemsa

SIMCO Industrial Static Control

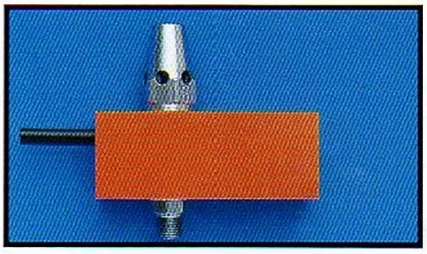
An Illinois Tool Works Company

Ionizing Air Nozzles - A powerful stream of ionized air

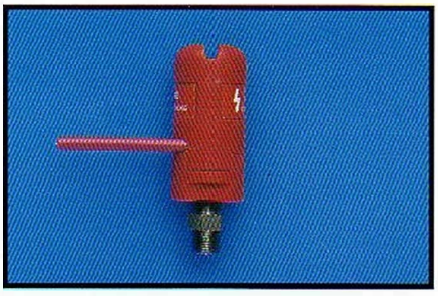
SIMCO **Ionizing Air Nozzles** are highly efficient static eliminators that produce a powerful stream of ionized compressed air to clean and neutralize charges on parts and materials. Static neutralizing air nozzles make it easier to blow parts and materials clean while preventing the reattraction of dirt particles. They provide spot neutralization combined with compressed air for use in critical cleaning applications including packaging, bottling and finishing.



HS Nozzles are "shockless" . The term shockless indicates that the ionizing point, located inside the nozzle tip, is capacitively coupled to the high voltage source, limiting the current at the point to a very low level. Under normal conditions, direct contact with the point will not result in a shock sensation. HS Nozzles can be installed individually, in series or mounted on a standard air header bar.



HE Nozzles are a current limited pinpoint ionizing air source which ensures operator and equipment safety. By limiting current at the nozzle tip, the HE can be used where contact by personnel is likely. HE nozzles can be mounted individually, in series, or on an air header bar. They operate on compressed air or nitrogen and produce a high-velocity stream of ionized air for cleaning and neutralizing.



Specification	HS Nozzle	HE Nozzle
Line Voltage Requirements	115V, 50/60Hz 230V, 50/60Hz	120V, 60Hz 230V, 50Hz
Power Supply	F167, F267, D167Q	D167Q
Size (individual nozzle)	$2\,^{9}/_{16}$"H x $^{15}/_{16}$"W x $2\,^{1}/_{2}$"L	$2\,^{1}/_{32}$"H x $^{15}/_{16}$"D
Maximum Air Pressure (clean, dry air)	100 psi maximum	100 psi maximum
Air Flow (at 30 psi)	4.4 SCFM	2.8 SCFM
Air Supply Connection	$^{1}/_{8}$" NPT on nozzle $^{3}/_{8}$" NPT on header	$^{1}/_{8}$" NPT on nozzle $^{3}/_{8}$" NPT on header
Working Distance from Substrate	3" to 10"	Up to 6"
Operating Temperature Limit	150°F (66°C)	150°F (66°C)
Static Discharge Time	0.6 seconds at 6" at 30 psi (5000V to 500V)	0.5 seconds at 6" at 30 psi (5000V to 500V)

Ionizing Nozzles Ordering Information

SIMCO
Industrial Static Control
An Illinois Tool Works Company

Ordering Information for Individual Nozzles

When ordering, specify the following:

1. Quantity of dead-end and cable-thru nozzles.
Dead end nozzles are used for single nozzle applications and include HV cable (Figure 1). Dead end nozzles are also used as the last nozzle of a series together on one cable (Figure 2). Cable-thru nozzles are used for all nozzles of a series except the last one (Figure 2).

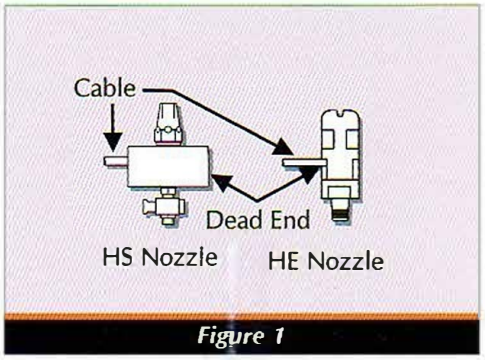


Figure 1

2. Length of HV Cable required.
Cable length is always measured from the dead end nozzle to the power supply. Standard lengths available are 10', 20' and 30'.

3. Stopcocks if required (Figure 2).
Stopcocks are available at additional cost.

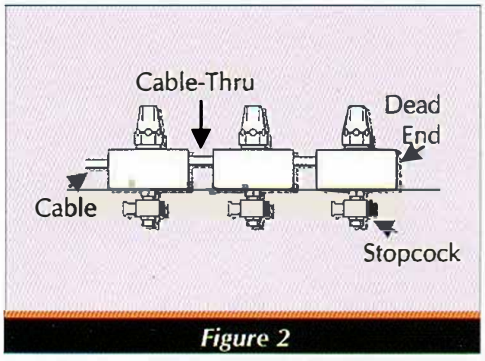


Figure 2

Ordering Information for Nozzles Mounted on an Air Header Bar

When ordering, specify the following:

1. Overall length of header excluding air valve (Figure 3).
Note that the minimum end dimension for each header bar (measured from the centerline of the dead-end nozzle) is 2" for the HS Nozzles and 1 1/2" for the HE Nozzles. Air valve is included in the price and supplied at one end of the header. Headers with more than 12 nozzles are supplied with air valves at each end.

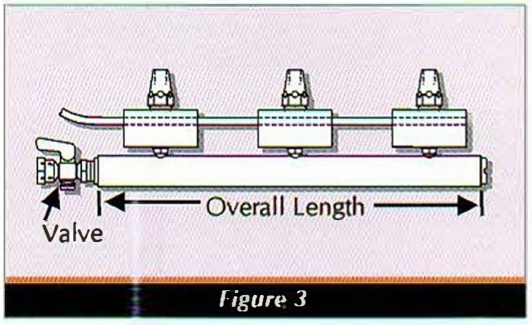


Figure 3

2. Distance "D" between centers of nozzles in series (Figure 4).
Minimum "D" spacing is 2" for HE Nozzles and 3" for HS Nozzles for regular HV cable. Standard spacing is any distance above 2" for HE Nozzles and 3" for HS Nozzles in increments of 1".

3. Stopcocks if required (Figure 4).
Standard header bar mounting brackets are supplied. Stopcocks are available at additional cost.

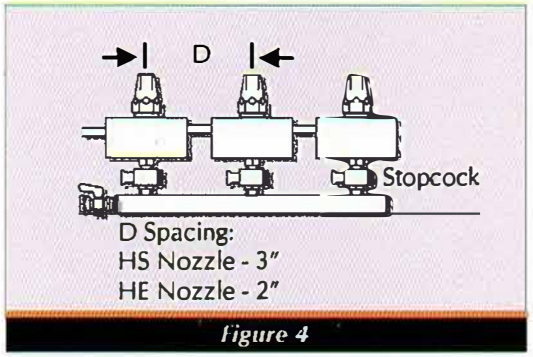


Figure 4

STA. CRUZ ACAYUCAN 165-001
COL.SANTA APOLONIA
DEL. AZCAPOTZALCO
02790 MEXICO, D.F.
ventas@ttemsa.com
dgutierrez@ttemsa.com

Telefonos:
(55) 5561-4651
5352-0593
5352-6070
5352-1301
5352-0191
5561-1143