

## Penguin PE Pendorator Sparging Eductors



Based on established eductor principles, the Series PE Pendorator was designed especially for industrial sparging applications. The nozzle was designed utilizing the same orifice size as a typical 3/8" NPT tank mixing eductor, with a larger connection size, thus giving you the same flow characteristics with less pressure drop. This can reduce the horsepower required on larger systems. The larger connection size allows you to use standard PVC reducing tees without extra bushings or reducing couplings, thus saving you valuable tank space. The diffuser was designed with a larger plume dispersion angle for more uniform agitation and a lower profile to allow you to utilize your tank space more efficiently. The result, the Pendorator, a more efficient space-saving eductor made specifically for the surface finishing industry.

### Features

- Flows Comparable with Conventional 3/8" Tank Mixing Eductors
- Lower Profile Helps Save Valuable Tank Space and Makes for Easier Retrofits
- Larger Connection Sizes Eliminate Need for Multiple Bushings When Using Standard Fittings or P-Series Pump
- Larger Plume Dispersion Angle Helps Eliminate Dead Spots Between Eductors
- Maximum Temperature 280° F

PART #	IPS SIZE	MATERIAL
PE-3/4B	3/4" FPT	PP
PE-3/4C	3/4" FPT	PVDF
PE-1B	1" MPT	PP
PE-1C	1" MPT	PVDF

### Nomenclature

PE Pendorator	3/4M Connection Size	C Material of Construction
	3/8M = 3/8" MPT	A = CPVC (Grey)
	3/4F = 3/4" FPT	B = Polypropylene (Blue)
	3/4M = 3/4" MPT	B-1 = Polypropylene (Black)
	1M = 1" MPT	C = PVDF (Black)

### Specifications

	10	15	20	25	30	35	40	50
Motive Pressure (PSI)								
Motive Flow (GPM)	7	9	10	11	13	14	15	17
Total Gallons Circulated (GPM)	35	45	50	55	65	70	75	85

## Mass Transfer Multiplier (MTM) Mixing Nozzles & Nozzle Manifolds



### Get outstanding performance at low pressure differentials

Mazzei MTM mixing nozzles provide dynamic mixing under pressure, which results in great mass transfer. When used in conjunction with the patented Mazzei injector, these nozzles dramatically enhance system mixing and contacting performance. Mazzei nozzles allow the delivery of treatment gases to any depth - all within a compact design, with trouble-free operation and easy installation. Many models are available for various applications.

### Mazzei MTM Mixing Nozzles Provide:

- Enhanced gas/liquid interface renewal
- Dynamic mixing under pressure yields greater mass transfer
- Desired back pressure to the Mazzei injector
- Delivery of treatment gases to any depth
- Compact design for trouble-free operation and ease of installation
- Polypropylene (PP) construction for nozzles 3" and larger
- Polyvinylidene Fluoride (PVDF) construction for nozzles 2" and smaller
- Various models designed to match your application

