



First choice when quality counts.™

# Air Caps & Fluid Nozzles Electrostatic Air Spray

**Electrostatic  
air spray  
air caps and  
fluid nozzles**

**Note:**

All the air cap pattern shapes and lengths were measured under the following conditions:

**Distance from gun end to workpiece:**

10 in. (254 mm)

**Air Pressure:**

30 psi (2.1 bar)

**Production Rate:**

300 cc/min.

(10 oz./min.)

Other conditions will produce different results.

## Fan Pattern Fluid Nozzles

PRO3500™, PRO4500™, PRO5500™

Fluid Nozzle Part No.	Fluid Nozzle Orifice Size
191-831	0.040 in. (1.0 mm)
191-832	0.047 in. (1.2 mm)
191-833	0.055 in. (1.5 mm)
191-834	0.070 in. (1.8 mm)

## Fan Pattern Air Caps (all models)

Air Cap Part No.	Pattern Shape and Length at 12 in. (305 mm)	Recommended Fluids and Production Rates
193-033	Round End 15 to 17 in. (381 to 432 mm)	Fine atomization. Medium to high production.
177-036	Tapered End 15 to 17 in. (381 to 432 mm)	Medium to high production.
177-039	Tapered End 14 to 16 in. (356 to 407 mm)	Medium to high production.
180-739	Round End 15 to 17 in. (381 to 432 mm)	Good atomization. Medium to high production.

## Round Pattern Kits

Light to medium viscosity. Light to medium production.

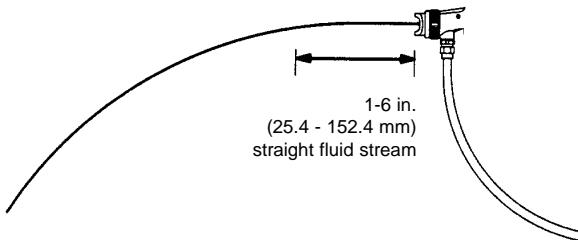
PRO3500, PRO4500,

PRO5500 Part No.	Pattern Diameter
222-329	4 to 6 in. (102 to 152 mm)
222-330	8 to 10 in. (203 to 254 mm)

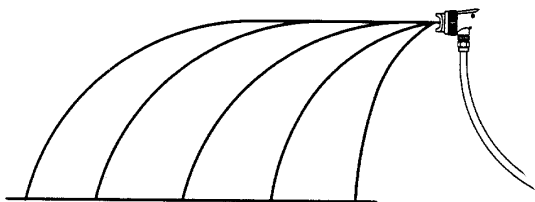
COMPONENTS

## Proper Selection of a Fluid Nozzle

Hold the gun parallel to the floor and adjust the fluid pressure to yield a 1 to 6 in. (25.4 to 152.4 mm) straight fluid stream before the stream falls off.

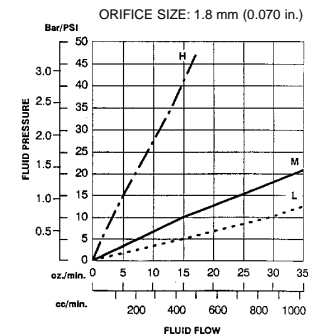
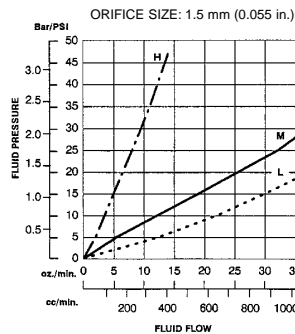
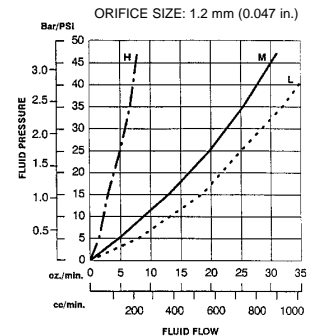
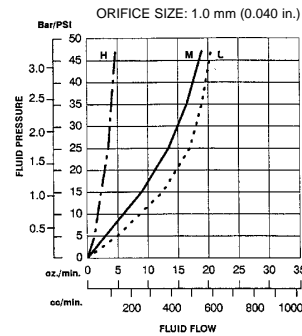


## Fluid Velocity of Fluid Nozzles at the Same Flow Rate



0.042 (1.067) 0.055 (1.5) 0.070 (1.8) 0.086 (2.184) 0.110 (2.794)  
Orifice Size in Inches (mm)

## Fluid Nozzle Performance Graphs



### KEY

Each of the fluid nozzle graphs has three graphed lines:

<b>L</b>	Light Viscosity	-----
<b>M</b>	Medium Viscosity	—————
<b>H</b>	Heavy Viscosity	- - - - -

## Terms

### Viscosity

#### Light:

20 centipoise at 70° F

#### Medium:

70 centipoise at 70° F

#### Heavy:

260 centipoise at 70° F

### Fan Pattern

#### Production Rate

#### Light Production:

Fluid flow of up to 200 cc/min. (7 oz./min.)

#### Medium Production:

Fluid flow of up to 600 cc/min. (14 oz./min.)

#### High Production:

Over 400 cc/min. (14 oz./min.)

### Round Pattern

#### Production Rate

#### Light Production:

Fluid flow of up to 150 cc/min. (5 oz./min.)

#### Medium Production:

Fluid flow of up to 200 cc/min. (7 oz./min.)