

# P

## Fine Atomization

### DESIGN FEATURES

- High energy efficiency
- One-piece construction
- No whirl vanes or internal parts
- Highly efficient laminar jet impinges on target pin generating fine fog
- Male connection

### SPRAY CHARACTERISTICS

- Finest fog of any direct pressure nozzle
- Produces high percentage of droplets in the 25-400 micron range; ideal for dust suppression

**Spray pattern:** Cone-shaped Fog

**Spray angle:** 90°. For best 90° pattern operate nozzle at or above 60 psi

**Flow rates:** 0.034 to 7.68 gpm



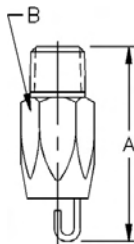
Metal



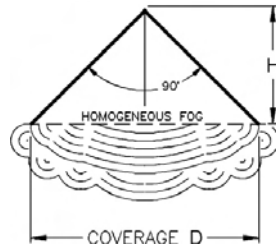
MISTING



Fog



Male



Fog Pattern

Dimensions are approximate. Check with BETE for critical dimension applications.

### P Flow Rates and Dimensions

Cone-Shaped Fog, 90° Spray Angle, 1/4" Pipe Size

Male Pipe Size	Nozzle Number	K Factor	GALLONS PER MINUTE @ PSI												Approx. Orifice Dia. (in.)	Approx. Coverage (inches) D	Approx. Spray Height (in.) H	Approx. Dim. (in.)		Wt. (oz.) Metal
			10 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI	70 PSI	80 PSI	90 PSI	100 PSI	200 PSI	400 PSI				A	B	
1/4	P20	0.0106	0.034	0.047	0.058	<b>0.067</b>	0.075	0.082	0.089	0.095	0.10	0.11	0.15	0.21	0.020	12.0	6	1.83	0.63	2
	P24	0.0158	0.050	0.071	0.087	<b>0.10</b>	0.11	0.12	0.13	0.14	0.15	0.16	0.22	0.32	0.024	16.0	8			
	P28	0.0206	0.065	0.09	0.11	<b>0.13</b>	0.15	0.16	0.17	0.18	0.20	0.21	0.29	0.41	0.028	18.0	9			
	P32	0.0285	0.090	0.13	0.16	<b>0.18</b>	0.20	0.22	0.24	0.25	0.27	0.28	0.40	0.57	0.032	22.0	11			
	P40	0.0443	0.14	0.20	0.24	<b>0.28</b>	0.31	0.34	0.37	0.40	0.42	0.44	0.63	0.89	0.042	24.0	12			
	P48	0.0633	0.20	0.28	0.35	<b>0.40</b>	0.45	0.49	0.53	0.57	0.60	0.63	0.89	1.26	0.047	28.0	14			
	P54	0.0838	0.27	0.37	0.46	<b>0.53</b>	0.59	0.65	0.70	0.75	0.80	0.84	1.19	1.68	0.054	30.0	15			
	P66	0.119	0.38	0.53	0.65	<b>0.75</b>	0.84	0.92	0.99	1.06	1.13	1.19	1.68	2.37	0.065	36.0	18			
	P80	0.171	0.54	0.76	0.94	<b>1.08</b>	1.21	1.32	1.43	1.53	1.62	1.71	2.41	3.42	0.085	48.0	24			
P120	0.384	1.22	1.72	2.10	<b>2.43</b>	2.72	2.98	3.21	3.44	3.65	3.84	5.43	7.68	0.130	60.0	30				

$$\text{Flow Rate (GPM)} = K \sqrt{\text{PSI}}$$

Standard Materials: Brass, 303 Stainless Steel and 316 Stainless Steel.

Spray angle performance varies with pressure. Contact BETE for specific data on critical applications.

TO ORDER: specify pipe size, connection type, nozzle number, spray angle, and material.