

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

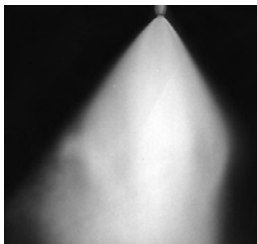
Flow rates: 0.034 to 7.68 gpm



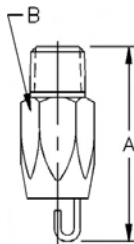
Metal



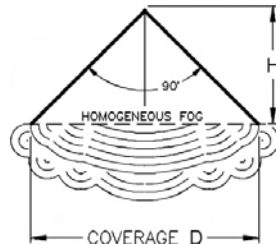
MISTING



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	0.067	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	0.10	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	0.13	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	0.18	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	0.28	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	0.40	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	0.53	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	0.75	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	1.08	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	2.43	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.