

MicroWhirl®

Fine Atomization

DESIGN FEATURES

- Outstanding atomization
- Rugged pinless design
- Drip-free performance
- Standard: 70 micron polypropylene filter
 - Optional: 200-mesh 316SS screen
- Safety wire hole available
- Patented design
- Minimum operating pressure 7 bar

SPRAY CHARACTERISTICS

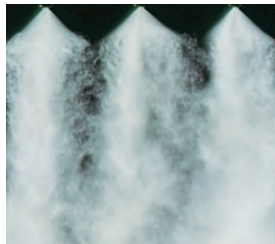
- Mist at low pressure; fog at high pressure

Spray pattern: Cone-shaped Fog

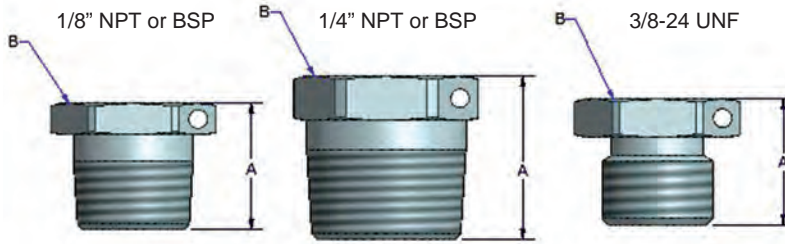
Flow rates: 0.032 to 1.413 L/min



MISTING



Fog



Shown with optional 1.59mm (1/16") diameter safety wire hole

Dimensions (mm)

Pipe Size	A	B
1/8"	12.3	11.1
1/4"	17.5	14.3
3/8-24UNF	10.8	12.7

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

MicroWhirl Flow Rates and Dimensions

Fogging, 70° Spray Angle, 1/8", 1/4" BSP or NPT or 3/8" - 24 UNF Pipe Sizes

Male Pipe Size	Nozzle Number	K Factor	LITERS PER MINUTE @ BAR								Wt (g)
			7 bar	20 bar	40 bar	70 bar	100 bar	140 bar	170 bar	200 bar	
1/8"	MW085	0.0122	0.032	0.055	0.077	0.102	0.122	0.145	0.160	0.173	7.09
	MW105	0.0151	0.040	0.068	0.096	0.127	0.151	0.179	0.197	0.214	
	or MW125	0.0180	0.048	0.081	0.114	0.151	0.180	0.213	0.235	0.255	
1/4"	MW145	0.0209	0.055	0.093	0.132	0.175	0.209	0.247	0.272	0.296	
	or MW195	0.0281	0.074	0.126	0.178	0.235	0.281	0.332	0.366	0.397	
3/8"-24UNF	MW275	0.0396	0.105	0.177	0.251	0.332	0.396	0.469	0.517	0.560	
	MW695	0.09988	0.264	0.447	0.632	0.836	0.999	1.182	1.302	1.413	

Nominal Angle

Atomization Level



→ Pattern with increasing pressure from nozzle →

$$\text{Flow Rate (l/min)} = K \sqrt{\text{bar}}$$

Standard Materials: 303 and 316 Stainless Steel, Polypropylene filter, and Viton O-ring seal* (*supplied for 3/8"-24 UNF connection)

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