

WL

Low Flow/Full Cone

DESIGN FEATURES

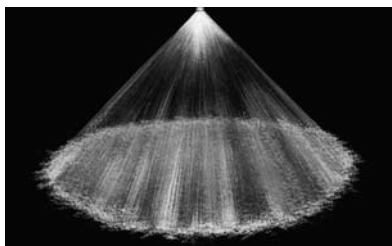
- Advanced whirl plate design produces uniform coverage
- Male and female connections

SPRAY CHARACTERISTICS

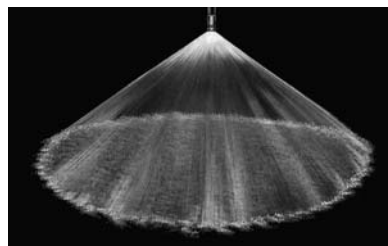
- Medium to coarse atomization
- Spray pattern:** Full Cone. Square patterns available for most sizes.
- Spray angles:** 30°, 60°, 90° and 120° standard
- Flow rates:** 0.13 to 59 gpm



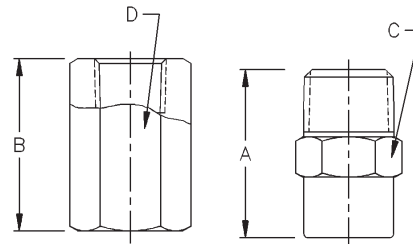
Metal



Full Cone 90°



Full Cone 120°



Female Metal

Male Metal

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

WL Flow Rates and Dimensions

Full Cone, 30°, 60°, 90° and 120° Spray Angles

Male or Female Pipe Size	Nozzle Number	K Factor	GALLONS PER MINUTE @ PSI										Approx. Orifice Dia. (in.)	Dimensions for Metal Only (in.)				Wt. (oz.)		
			10 PSI	20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI	150 PSI	200 PSI	400 PSI		A	B	C	D	Metal	Plas.	
1/8	WL 1/4	0.044	0.13	0.18	0.22	0.25	0.30	0.35	0.38	0.47	0.53	0.74	0.043							
	WL 1/2	0.088	0.26	0.36	0.44	0.50	0.60	0.69	0.77	0.93	1.07	1.48	0.055	0.88	1.13	0.44	0.56	1.00	0.25	
	WL 3/4	0.132	0.39	0.54	0.66	0.75	0.91	1.04	1.15	1.40	1.60	2.21	0.072							
1/4	WL 1	0.177	0.52	0.72	0.87	1.00	1.21	1.39	1.54	1.86	2.13	2.95	0.082	1.06	1.38	0.56	0.69	1.50	0.38	
	WL 1 1/2	0.265	0.78	1.08	1.31	1.50	1.81	2.08	2.31	2.79	3.20	4.43	0.109							
3/8	WL 2	0.353	1.04	1.44	1.75	2.00	2.42	2.77	3.08	3.72	4.26	5.90	0.125							
	WL 3	0.530	1.56	2.17	2.62	3.00	3.63	4.16	4.61	5.58	6.39	8.85	0.156	1.25	1.50	0.69	0.88	2.00	0.50	
	WL 4	0.706	2.08	2.89	3.49	4.00	4.84	5.54	6.15	7.44	8.52	11.8	0.188							
1/2	WL 5	0.883	2.61	3.61	4.37	5.00	6.05	6.93	7.69	9.31	10.6	14.8	0.203							
	WL 6	1.06	3.13	4.33	5.24	6.00	7.26	8.31	9.23	11.2	12.8	17.7	0.219	1.50	2.00	0.88	1.13	3.00	1.00	
	WL 7	1.24	3.65	5.05	6.11	7.00	8.47	9.70	10.8	13.0	14.9	20.7	0.228							
3/4	WL 8	1.41	4.17	5.78	6.99	8.00	9.68	11.1	12.3	14.9	17.0	23.6	0.234							
	WL 10	1.77	5.21	7.22	8.74	10.0	12.1	13.8	15.4	18.6	21.3	29.5	0.281	1.75	2.13	1.13	1.38	6.00	1.50	
	WL 12	2.12	6.25	8.66	10.5	12.0	14.5	16.6	18.5	22.3	25.6	35.4	0.312							
1	WL 15	2.65	7.82	10.8	13.1	15.0	18.1	20.8	23.1	27.9	32.0	44.3	0.328	2.19	2.38	1.38	1.63	14.0	3.50	
	WL 20	3.53	10.4	14.4	17.5	20.0	24.2	27.7	30.8	37.2	42.6	59.0	0.375							

$$\text{Flow Rate (GPM)} = K (\text{PSI})^{0.47}$$

Standard Materials: Brass, 303 Stainless Steel, 316 Stainless Steel, PVC, Polypropylene, and PTFE (1/8" PTFE and Polypropylene not available in 120°).

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