

NC

Threaded Connection/Plastic Material



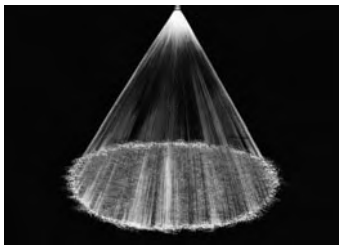
Male 120°

DESIGN FEATURES

- Complete line of full cone nozzles made of plastic and some bar stock metal alloy materials
- Uniform coverage
- Male and female connections
- Flanged connection available in larger models—see NCFL (p. 29)
- For metal alloy nozzles, refer to MaxiPass (pp. 39, 39), SC (pp. 36, 37), or TC (p. 35) Series

SPRAY CHARACTERISTICS

- High flow rates with coarse atomization
- Spray pattern:** Full Cone. For square patterns, please contact BETE.
- Spray angles:** 60°, 90°, and 120° standard
- Flow rates:** 2.01 to 2150 gpm (Higher flow rates available)



Full Cone 60° (N)



Full Cone 90° (M)



Full Cone 120° (W)

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

NC Flow Rates and Dimensions

Full Cone, Narrow 60°(N), Medium 90°(M) and Wide 120° (W) Spray Angles, 3/4" to 6" Pipe Sizes

Male or Female Pipe Size	Nozzle Number	K Factor	GALLONS PER MINUTE @ PSI									Approx. Orifice Dia. (in.)	Approx. Free Pass. Dia. (in.)	Approximate Dimensions (in.)				Wt. (oz.) Male
			3 PSI	5 PSI	7 PSI	10 PSI	20 PSI	40 PSI	60 PSI	80 PSI	100 PSI			A	B	C	D	
3/4	NC 0703	1.20	2.01	2.56	3.00	3.55	4.91	6.81	8.23	9.43	10.5	0.25	0.16					
	NC 0704	1.60	2.69	3.41	4.00	4.73	6.55	9.07	11.0	12.6	14.0	0.25	0.19	1.75	1.12	2.12	1.50	1.00
	NC 0707	2.80	4.70	5.98	7.00	8.28	11.5	15.9	19.2	22.0	24.4	0.33	0.23					
1	NC 1009	3.61	6.04	7.68	9.00	10.6	14.7	20.4	24.7	28.3	31.4	0.38	0.25	2.19	1.38	2.50	1.75	1.25
	NC 1012	4.81	8.06	10.2	12.0	14.2	19.7	27.2	32.9	37.7	41.9	0.45	0.30					
1 1/4	NC 1214	5.61	9.40	12.0	14.0	16.6	22.9	31.8	38.4	44.0	48.9	0.47	0.34	3.25	1.75	3.25	2.00	3.75
	NC 1217	6.81	11.4	14.5	17.0	20.1	27.8	38.6	46.7	53.4	59.3	0.53	0.38					
1 1/2	NC 1516	6.41	10.7	13.7	16.0	18.9	26.2	36.3	43.9	50.3	55.8	0.50	0.38	4.25	2.00	4.25	2.50	6.75
	NC 1520	8.01	13.4	17.1	20.0	23.7	32.8	45.4	54.9	62.8	69.8	0.56	0.41					
	NC 1524	9.62	16.1	20.5	24.0	28.4	39.3	54.4	65.9	75.4	83.8	0.61	0.44					
2	NC 2017	6.81	11.4	14.5	17.0	20.1	27.8	38.6	46.7	53.4	59.3	0.53	0.38	5.81	2.50	5.81	3.00	12.7
	NC 2020	8.01	13.4	17.1	20.0	23.7	32.8	45.4	54.9	62.8	69.8	0.56	0.41					
	NC 2033	13.2	22.2	28.2	33.0	39.0	54.1	74.9	90.6	104	115	0.72	0.55					
	NC 2040	16.0	26.9	34.1	40.0	47.3	65.5	90.7	110	126	140	0.80	0.63					
	NC 2045	18.0	30.2	38.4	45.0	53.2	73.7	102	124	141	157	0.84	0.63					

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

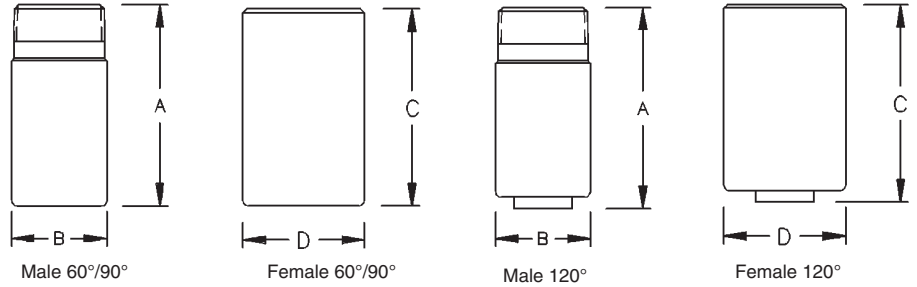
Standard Materials: PVC, Polypropylene, and PTFE.

NOTE for PTFE nozzles: if operating temperature is to exceed 300°F, or the operating pressure is to exceed the values listed in the table above, please contact BETE Applications Engineering for assistance.

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



Female 120°



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

NC Flow Rates and Dimensions

Full Cone, Narrow 60° (N), Medium 90° (M) and Wide 120° (W) Spray Angles, 3/4" to 6" Pipe Sizes

Male or Female Pipe Size	Nozzle Number	K Factor	GALLONS PER MINUTE @ PSI									Approx. Orifice Dia. (in.)	Approx. Free Pass. Dia. (in.)	Approximate Dimensions (in.)				Wt. (lbs.) Male
			3 PSI	5 PSI	7 PSI	10 PSI	20 PSI	40 PSI	60 PSI	80 PSI	100 PSI			A	B	C	D	
2	NC 2050	20.0	33.6	42.7	50.0	59.1	81.9	113	137	157	174	0.89	0.60	5.81	2.50	5.81	3.00	0.79
	NC 2060	24.0	40.3	51.2	60.0	71.0	98.3	136	165	189	209	0.94	0.63					
	NC 2065	26.0	43.6	55.5	65.0	76.9	106	147	178	204	227	1.00	0.67					
	NC 2070	28.1	47.0	59.8	70.0	82.8	115	159	192	220	244	1.05	0.68					
2 1/2	NC 2570	28.1	47.0	59.8	70.0	82.8	115	159	192	220	244	1.05	0.68	5.88	3.00	5.88	3.50	1.23
	NC 2580	32.1	53.7	68.3	80.0	94.6	131	181	220	251	279	1.13	0.69					
	NC 2590	36.1	60.4	76.8	90.0	106	147	204	247	283	314	1.19	0.78					
3	NC 3058	23.2	38.9	49.5	58.0	68.6	95.0	132	159	182	202	0.95	0.63	5.88	3.50	5.88	4.00	1.42
	NC 3084	33.7	56.4	71.7	84.0	99.3	138	191	231	264	293	1.17	0.88					
	NC 3096	38.5	64.5	82.0	96.0	114	157	218	264	302	335	1.12	0.95					
	NC 30117	46.9	78.6	99.9	117	138	192	265	321	368	408	1.36	0.97					
4	NC 40125	50.1	83.9	107	125	148	205	284	343	393	436	1.39	0.98	5.88	4.50	7.25	5.00	2.90
	NC 40130	52.1	87.3	111	130	154	213	295	357	409	454	1.42	1.00					
	NC 40180	72.1	121	154	180	213	295	408	494	566	628	1.69	1.31					
	NC 40250	100	168	213	250	296	409	567	686	786	872	1.98	1.586					
6	NC 60350	140	235	299	350	414	573	794	961	1100	1220	2.38	1.70	9.50	6.63	11.0	7.19	8.12
	NC 60480	192	322	410	480	568	786	1090	1320	1510	1670	2.75	1.75					
	NC 60615	246	413	525	615	727	1010	1390	1690	1930	2150	3.11	1.97					

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

Standard Materials: PVC, Polypropylene and PTFE.

NOTE for PTFE nozzles: if operating temperature is to exceed 300°F, or the operating pressure is to exceed the values listed in the table above, please contact BETE Applications Engineering for assistance.

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



WHIRL

CALL 413-772-0846
Call for the name of your nearest BETE representative.