

# NF

## Standard Fan Nozzle

### DESIGN FEATURES

- One-piece construction
- No internal parts
- Sizes for all applications
- Male connection

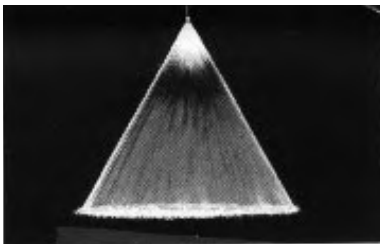
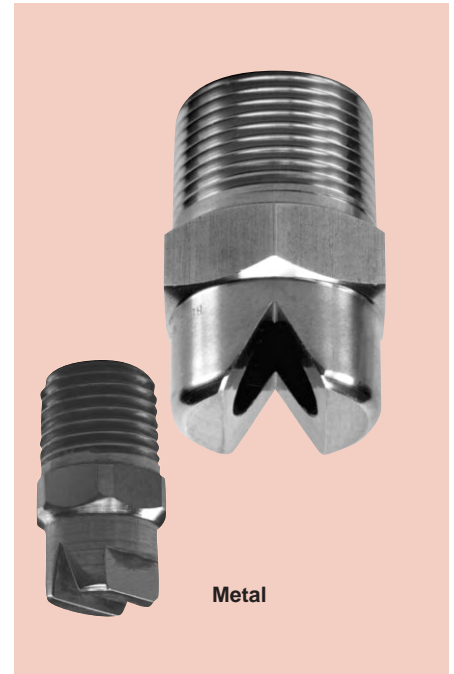
### SPRAY CHARACTERISTICS

- High impact
- Uniform distribution with tapered edges for overlapping sprays
- Extra-wide angles available

**Spray pattern:** Fan and Straight Jet

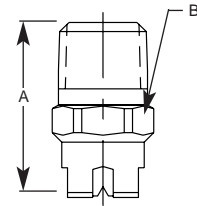
**Spray angles:** 0° to 120°

**Flow rates:** 0.103 to 1380 gpm



Fan 50°

Call BETE to verify spray angle performance at operating pressures above 70 psi.



3/8" - 2" Metal

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

NF Flow Rates															
Fan and Straight Jet, 0°, 15°, 30°, 50°, 65°, 80°, 90°, 110°, and 120° Spray Angles, 1/8" to 2" Pipe Sizes															
Male Pipe Size	Nozzle Number	K Factor	GALLONS PER MINUTE @ PSI											Equiv. Orifice Dia. (in.)	
			5 PSI	10 PSI	15 PSI	20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI	150 PSI	200 PSI		400 PSI
1/8 or 1/4	NF01	0.0158	0.03	0.05	0.06	0.07	0.09	0.10	0.12	0.14	0.16	0.19	0.22	0.32	0.026
	NF015	0.0237	0.05	0.08	0.09	0.11	0.13	0.15	0.18	0.21	0.24	0.29	0.34	0.47	0.031
	NF02	0.0316	0.07	0.10	0.12	0.14	0.17	0.20	0.25	0.28	0.32	0.39	0.45	0.63	0.036
	NF025	0.0395	0.09	0.13	0.15	0.18	0.22	0.25	0.31	0.35	0.40	0.48	0.56	0.79	0.040
	NF03	0.0474	0.11	0.15	0.18	0.21	0.26	0.30	0.37	0.42	0.47	0.58	0.67	0.95	0.043
	NF04	0.0632	0.14	0.20	0.25	0.28	0.35	0.40	0.49	0.57	0.63	0.78	0.89	1.25	0.052
	NF05	0.0791	0.18	0.25	0.31	0.35	0.43	0.50	0.61	0.71	0.79	0.97	1.12	1.58	0.057
	NF06	0.0949	0.21	0.30	0.37	0.42	0.52	0.60	0.74	0.85	0.95	1.16	1.34	1.90	0.062
NF08	0.126	0.28	0.40	0.49	0.57	0.69	0.80	0.98	1.13	1.26	1.55	1.79	2.53	0.072	
1/8 or 1/4 or 3/8	NF10	0.158	0.35	0.50	0.61	0.71	0.87	1.00	1.22	1.41	1.58	1.94	2.24	3.16	0.080
	NF15	0.237	0.53	0.75	0.92	1.06	1.30	1.50	1.84	2.12	2.37	2.90	3.35	4.74	0.094
	NF20	0.316	0.71	1.00	1.22	1.41	1.73	2.00	2.45	2.83	3.16	3.87	4.47	6.32	0.109
	NF30	0.474	1.06	1.50	1.84	2.12	2.60	3.00	3.67	4.24	4.74	5.81	6.71	9.49	0.141
1/4 or 3/8	NF40	0.632	1.41	2.00	2.45	2.83	3.46	4.00	4.90	5.66	6.32	7.75	8.94	12.6	0.156
	NF50	0.791	1.77	2.50	3.06	3.54	4.33	5.00	6.12	7.07	7.91	9.68	11.2	15.8	0.172
	NF60	0.949	2.12	3.00	3.67	4.24	5.20	6.00	7.35	8.49	9.49	11.6	13.4	19.0	0.186
3/8	NF70	1.11	2.47	3.50	4.29	4.95	6.06	7.00	8.57	9.90	11.1	13.6	15.6	22.1	0.203
	NF80	1.26	2.83	4.00	4.90	5.66	6.93	8.00	9.80	11.3	12.6	15.5	17.9	25.3	0.219
1/2	NF90	1.42	3.18	4.50	5.51	6.36	7.79	9.00	11.0	12.7	14.2	17.4	20.1	28.5	0.234
	NF100	1.58	3.54	5.00	6.12	7.07	8.66	10.0	12.2	14.1	15.8	19.4	22.4	31.6	0.250
1/2	NF120	1.90	4.24	6.00	7.35	8.49	10.4	12.0	14.7	17.0	19.0	23.2	26.8	37.9	0.266
	NF150	2.37	5.30	7.50	9.19	10.6	13.0	15.0	18.4	21.2	23.7	29.0	33.5	47.4	0.297
3/4	NF200	3.16	7.07	10.0	12.2	14.1	17.3	20.0	24.5	28.3	31.6	38.7	44.7	63.2	0.344
	NF300	4.74	10.6	15.0	18.4	21.2	26.0	30.0	36.7	42.4	47.4	58.1	67.1	94.9	0.422
1	NF400	6.32	14.1	20.0	24.5	28.3	34.6	40.0	49.0	56.6	63.2	77.5	89.4	126	0.500
	NF500	6.32	14.1	20.0	24.5	28.3	34.6	40.0	49.0	56.6	63.2	77.5	89.4	126	0.500
1 1/4	NF750	11.9	26.5	37.5	45.9	53.0	64.9	75.0	92.0	106	119	145	168	237	0.688
	NF800	12.6	28.3	40.0	49.0	56.6	69.3	80.0	98.0	113	126	155	179	253	0.719
1 1/2	NF1150	18.2	40.7	57.5	70.4	81.3	100	115	141	163	182	223	257	364	0.859
	NF1500	23.7	53.0	75.0	91.9	106	130	150	184	212	237	290	335	474	0.969
2	NF2250	35.6	79.5	113	138	160	195	225	276	318	356	436	500	715	1.19

NF Dimensions			
Pipe Size	Dim. for Metal Only (in.)		Wt. (oz.) Metal Plas.
	A	B	
1/8	0.88	0.44	1.00 0.25
1/4	1.06	0.56	1.50 0.38
3/8	1.25	0.69	2.00 0.50
1/2	1.50	0.88	3.00 1.00
3/4	1.75	1.13	6.00 1.50
1	2.19	1.38	8.00 2.00
1 1/4	2.50	1.75	12.0 3.00
1 1/2	3.00	2.00	20.0 5.00
2	3.50	2.50	56.0 10.0

Flow Rate (GPM) =  $K \sqrt{PSI}$  Standard Materials: Brass, 303 Stainless Steel, 316 Stainless Steel, PVC and PTFE (PTFE not available in nozzle numbers below NF025).

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