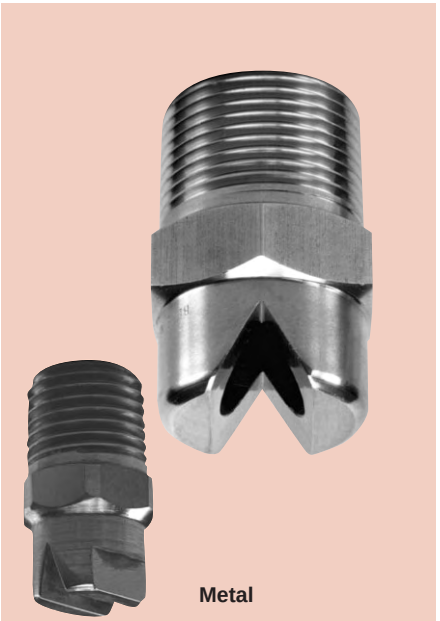
NF

Standard Fan Nozzle

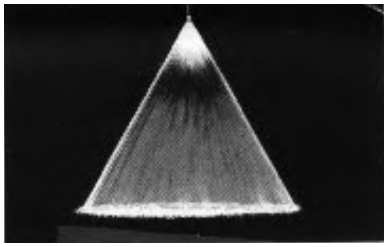
DESIGN FEATURES
- One-piece construction
- No internal parts
- Sizes for all applications
- Male connection

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

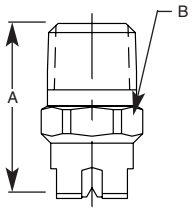


Metal



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 5 PSI	10 PSI	15 PSI	20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI	150 PSI	200 PSI	400 PSI	Equiv. Orifice Dia. (in.)
1/8	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
or	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
1/4	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	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
or	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
1/4	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
or	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
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
1/4	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
or	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
	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
or	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
	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
1/2	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
	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
3/4	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
	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
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
	NF750	11.9	26.5	37.5	45.9	53.0	64.9	**75.0**	92.0	106	119	145	168	237	0.688
1 1/4	NF800	12.6	28.3	40.0	49.0	56.6	69.3	**80.0**	98.0	113	126	155	179	253	0.719
	NF1150	18.2	40.7	57.5	70.4	81.3	100	**115**	141	163	182	223	257	364	0.859
1 1/2	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.) A	B	Wt. (oz.) Metal	Plas.
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 NF025 and under).

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