



# F series

## FAN Spray Nozzles

### DESIGN FEATURES

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

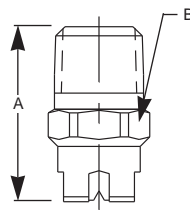
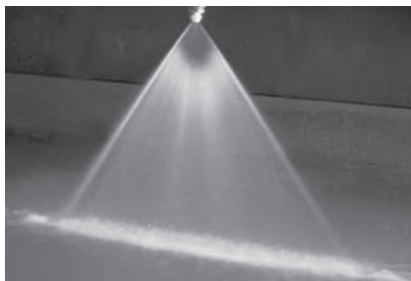
### SPRAY CHARACTERISTICS

- High impact
- Uniform distribution with tapered edges for overlapping sprays

**Spray pattern:** Fan and Straight Jet

### COMMON APPLICATIONS

- Cooling and quenching
- Product washing
- Water cooling
- Air and gas washers
- Scrubbers
- Liquor washers
- Dust control
- Fire protection



3/8" - 2" Metal

### F 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	LITERS PER MINUTE @ B AR								Equivalent Orifice Dia.(mm)
			0.5 bar	0.7 bar	1 bar	2 bar	3 bar	5 bar	10 bar	30 bar	
1/8 or 1/4	F01	0.228	0.16	0.19	0.23	0.32	0.39	0.51	0.72	1.25	0.66
	F015	0.342	0.24	0.29	0.34	0.48	0.59	0.76	1.08	1.87	0.79
	F02	0.455	0.32	0.38	0.46	0.64	0.79	1.02	1.44	2.49	0.91
	F025	0.569	0.40	0.48	0.57	0.81	0.99	1.27	1.80	3.12	1.02
	F03	0.683	0.48	0.57	0.68	0.97	1.18	1.53	2.16	3.74	1.09
	F04	0.911	0.64	0.76	0.91	1.29	1.58	2.04	2.88	4.99	1.32
	F05	1.14	0.81	0.95	1.14	1.61	1.97	2.55	3.60	6.24	1.45
	F06	1.37	0.97	1.14	1.37	1.93	2.37	3.06	4.33	7.49	1.57
1/8 or 1/4 or 3/8	F08	1.82	1.28	1.52	1.82	2.57	3.15	4.06	5.74	9.95	1.83
	F10	2.28	1.61	1.91	2.28	3.22	3.95	5.10	7.21	12.5	2.03
	F15	3.42	2.42	2.86	3.42	4.83	5.92	7.64	10.8	18.7	2.38
	F20	4.56	3.22	3.81	4.56	6.45	7.89	10.2	14.4	25.0	2.78
1/4 or 3/8	F30	6.84	4.83	5.72	6.84	9.67	11.8	15.3	21.6	37.4	3.57
	F40	9.12	6.45	7.63	9.12	12.9	15.8	20.4	28.8	49.9	3.97
	F50	11.4	8.06	9.53	11.4	16.1	19.7	25.5	36.0	62.4	4.37
1/4 or 3/8	F60	13.7	9.67	11.4	13.7	19.3	23.7	30.6	43.2	74.9	4.76
	F70	16.0	11.3	13.3	16.0	22.6	27.6	35.7	50.4	87.4	5.16
	F60	13.7	9.67	11.4	13.7	19.3	23.7	30.6	43.2	74.9	4.76
3/8 or 1/2	F70	16.0	11.3	13.3	16.0	22.6	27.6	35.7	50.4	87.4	5.16
	F80	18.2	12.9	15.3	18.2	25.8	31.6	40.8	57.7	99.9	5.56
	F90	20.5	14.5	17.2	20.5	29.0	35.5	45.9	64.9	112	5.95
	F100	22.8	16.1	19.1	22.8	32.2	39.5	51.0	72.1	125	6.35
1/2	F120	27.3	19.3	22.9	27.3	38.7	47.4	61.1	86.5	150	6.75
	F150	34.2	24.2	28.6	34.2	48.3	59.2	76.4	108	187	7.54
1/2	F200	45.6	32.2	38.1	45.6	64.5	78.9	102	144	250	8.73
	F300	68.4	48.3	57.2	68.4	96.7	118	153	216	374	10.7
3/4	F400	91.2	64.5	76.3	91.2	129	158	204	288	499	12.7
	F400	91.2	64.5	76.3	91.2	129	158	204	288	499	12.7
1	F750	171	121	143	171	242	296	382	540	936	17.5
	F800	182	129	153	182	258	316	408	577	999	18.3
1 1/4	F1150	262	185	219	262	371	454	586	829	1440	21.8
	F1500	342	242	286	342	483	592	764	1080	1870	24.6
2	F2750	627	443	524	627	886	1090	1400	1980	3430	33.3

### F Dimensions

BSP or NPT

Pipe Size	Dim.for Metal Only (mm)		Wt.(g) Metal/Plas.
	A	B	
1/8	22.2	11.1	28.4 7.09
1/4	27.0	14.3	42.5 10.6
3/8	31.8	17.5	56.7 14.2
1/2	38.1	22.2	85.1 28.4
3/4	44.5	28.6	170 42.5
1	55.6	34.9	227 56.7
1 1/4	63.5	44.5	340 85.1
1 1/2	76.2	50.8	567 142
2	88.9	63.5	1588 284

Standard Materials: Brass, 316 Stainless Steel, PVC, Polypropylene, and PTFE.