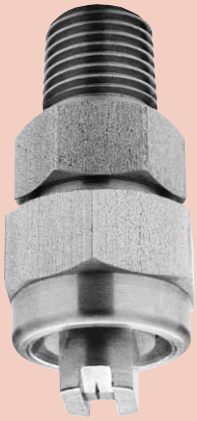
BJ

Low Flow

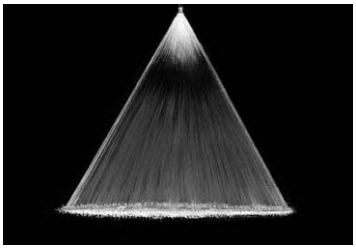
DESIGN FEATURES
- Three-piece construction
- Interchangeable spray tips
- Integral strainer available (refer to page 118 for more information)
- Male and female connections

SPRAY CHARACTERISTICS
- Relatively coarse atomization
- Uniform distribution with tapered edges for use in overlapping sprays

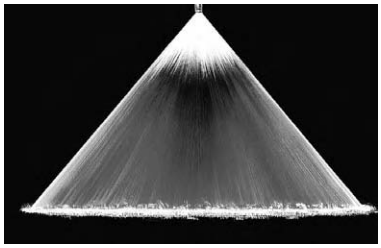
Spray pattern: Flat Fan
Spray angles: 0° to 110°
Flow rate: 0.003 to 24.7 gpm



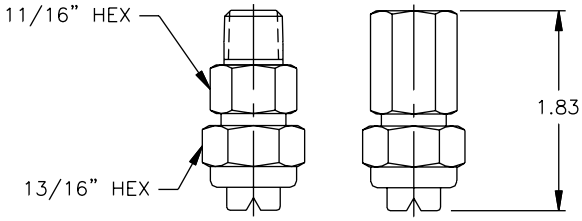
Metal



Fan 50°



Fan 80°



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

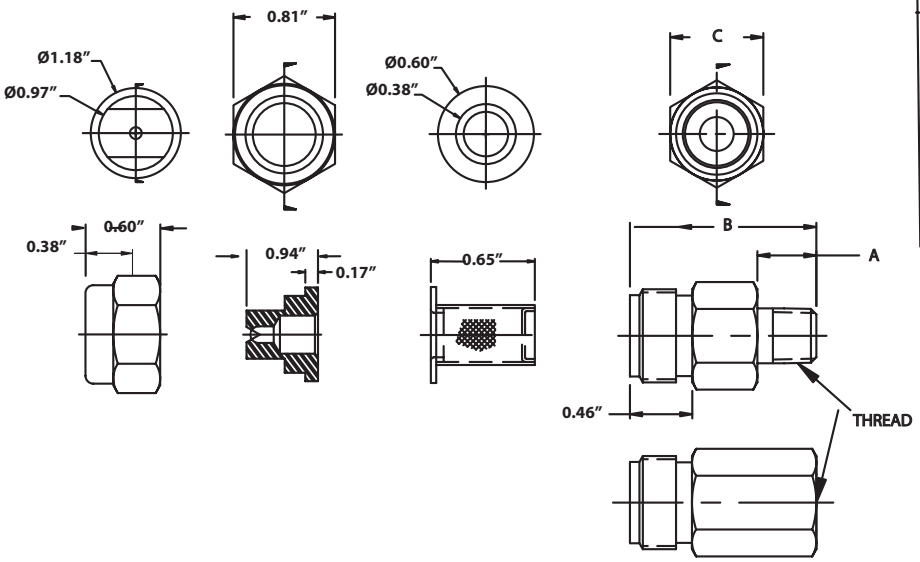
BJ Spray Angles and Weights

Fan, 0° to 110° Spray Angles, 1/8", 1/4" and 3/8" Pipe Size, Male and Female

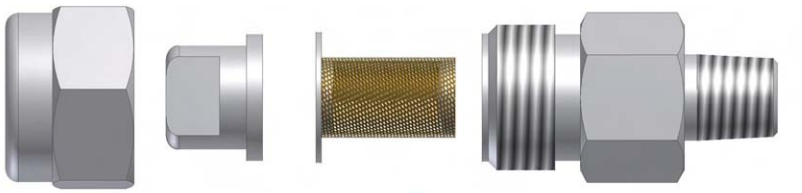
Pipe Size	Nozzle Number	Flow Rate @ 40 psi	Available Spray Angle 0°	15°	25°	40°	50°	65°	73°	80°	95°	110°	Optional Strainer Mesh Size	Wt. (Oz.)
	BJ 0009	0.009	0°											
	BJ 0012	0.012	0°											
	BJ 0017	**0.017**				**40°**	**50°**	**65°**						
	BJ 0019	**0.019**	**0°**										200	2
1/8	**BJ 0021**	0.021	0°											
	BJ 0023	0.023							73°					
	BJ 0025	**0.025**		**15°**	**25°**	**40°**	**50°**	**65°**						
	BJ 0033	**0.033**		**15°**	**25°**	**40°**	**50°**	**65°**						
	BJ 0039	0.039							73°					
OR	**BJ 005**	0.050	0°	15°	25°	40°	50°	65°		80°				
	BJ 0067	**0.067**	**0°**	**15°**	**25°**	**40°**	**50°**	**65°**						
	BJ 0077	**0.077**							**73°**				100	2
	BJ 01	0.10	0°	15°	25°	40°	50°	65°		80°	95°	110°		
	BJ 0116	0.12							73°					
1/4	**BJ 015**	**0.15**	**0°**	**15°**	**25°**	**40°**	**50°**	**65°**		**80°**	**95°**	**110°**		
	BJ 0154	**0.15**							**73°**					
	BJ 02	0.20	0°	15°	25°	40°	50°	65°		80°	95°	110°		
	BJ 0231	0.23							73°					
OR	**BJ 03**	**0.30**	**0°**	**15°**	**25°**	**40°**	**50°**	**65°**		**80°**	**95°**	**110°**		
	BJ 0308	**0.31**							**73°**					
	BJ 0385	0.39							73°					
	BJ 04	0.40	0°	15°	25°	40°	50°	65°		80°	95°	110°	50	2
	BJ 0462	**0.46**							**73°**					
3/8	**BJ 05**	**0.50**	**0°**	**15°**	**25°**	**40°**	**50°**	**65°**		**80°**	**95°**	**110°**		
	BJ 06	0.60	0°	15°	25°	40°	50°	65°		80°	95°	110°		
	BJ 0616	0.62							73°					
OR	**BJ 077**	**0.77**							**73°**					
	BJ 08	**0.80**	**0°**	**15°**	**25°**	**40°**	**50°**	**65°**		**80°**	**95°**	**110°**		
	BJ 0924	0.92							73°					
1/2"	**BJ 10**	1.0	0°	15°	25°	40°	50°	65°		80°	95°	110°		
	BJ 15	**1.5**	**0°**	**15°**	**25°**	**40°**	**50°**	**65°**		**80°**	**95°**	**110°**		
	BJ 20	**2.0**	**0°**	**15°**	**25°**	**40°**	**50°**	**65°**		**80°**	**95°**	**110°**		
	BJ 30	3.0	0°	15°	25°	40°	50°	65°		80°	95°	110°		
3/8	**BJ 40**	4.0	0°	15°	25°	40°	50°	65°		80°	95°	110°		
OR	**BJ 50**	**5.0**		**15°**	**25°**	**40°**	**50°**	**65°**		**80°**	**95°**	**110°**	50	2
1/2"	**BJ 60**	**6.0**		**15°**	**25°**	**40°**	**50°**	**65°**		**80°**	**95°**	**110°**		
	BJ 70	**7.0**		**15°**	**25°**	**40°**	**50°**	**65°**		**80°**	**95°**	**110°**		

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

TO ORDER: *specify pipe size, connection type, nozzle number, spray angle, and material.*



THREAD	A	B	C
1/8" MALE	0.44"	1.38"	11/16"
1/8" FEM	N/A	1.38"	11/16"
1/4" MALE	0.56"	1.38"	11/16"
1/4" FEM	N/A	1.38"	11/16"
3/8" MALE	0.56"	1.38"	11/16"
3/8" FEM	N/A	1.38"	13/16"
1/2" MALE	0.62"	1.38"	7/8"
1/2" FEM	N/A	1.38"	1 1/8"



Cap Nut | Tip | Optional Integral Strainer | Body

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

BJ Flow Rates

Fan, 0°, 15°, 25°, 40°, 50°, 65°, 73°, 80°, 95°, 110° Spray Angles, 1/8", 1/4" and 3/8" Pipe Size, Male and Female

Pipe Size	Nozzle Number	Equiv. Orifice Dia. (in.)	K Factor	GALLONS PER MINUTE @ PSI 5 PSI	10 PSI	20 PSI	40 PSI	60 PSI	80 PSI	100 PSI	200 PSI	300 PSI	500 PSI
	BJ 0009	0.008	0.0014	0.003	0.005	0.006	**0.009**	0.011	0.013	0.014	0.02	0.025	0.032
	BJ 0012	0.010	0.0019	0.004	0.006	0.008	**0.012**	0.015	0.017	0.019	0.027	0.033	0.042
	BJ 0017	0.011	0.0027	0.006	0.009	0.012	**0.017**	0.021	0.024	0.027	0.038	0.047	0.06
	BJ 0019	0.012	0.0030	0.007	0.010	0.013	**0.019**	0.023	0.027	0.03	0.042	0.052	0.067
1/8	BJ 0021	0.013	0.0033	0.007	0.011	0.015	**0.021**	0.026	0.03	0.033	0.047	0.058	0.074
	BJ 0023	0.013	0.0036	0.008	0.012	0.016	**0.023**	0.028	0.033	0.036	0.051	0.063	0.081
	BJ 0025	0.013	0.0040	0.009	0.013	0.018	**0.025**	0.031	0.035	0.04	0.056	0.068	0.088
	BJ 0033	0.015	0.0052	0.012	0.017	0.023	**0.033**	0.040	0.047	0.052	0.074	0.090	0.12
	BJ 0039	0.016	0.0062	0.014	0.020	0.028	**0.039**	0.048	0.055	0.062	0.087	0.11	0.14
OR	BJ 005	0.020	0.0079	0.018	0.025	0.035	**0.050**	0.061	0.071	0.079	0.11	0.14	0.18
	BJ 0067	0.023	0.0106	0.024	0.034	0.047	**0.067**	0.082	0.095	0.11	0.15	0.18	0.24
	BJ 0077	0.023	0.0122	0.027	0.039	0.054	**0.077**	0.094	0.11	0.12	0.17	0.21	0.27
	BJ 01	0.028	0.0158	0.035	0.050	0.071	**0.10**	0.12	0.14	0.16	0.22	0.27	0.35
	BJ 0116	0.028	0.0183	0.041	0.058	0.082	**0.12**	0.14	0.16	0.18	0.26	0.32	0.41
1/4	BJ 015	0.033	0.0237	0.053	0.075	0.11	**0.15**	0.18	0.21	0.24	0.34	0.41	0.53
	BJ 0154	0.033	0.0243	0.054	0.077	0.11	**0.15**	0.19	0.22	0.24	0.34	0.42	0.54
	BJ 02	0.039	0.0316	0.071	0.10	0.14	**0.20**	0.24	0.28	0.32	0.45	0.55	0.71
	BJ 0231	0.040	0.0365	0.082	0.12	0.16	**0.23**	0.28	0.33	0.37	0.52	0.63	0.82
	BJ 03	0.047	0.0474	0.11	0.15	0.21	**0.30**	0.37	0.42	0.47	0.67	0.82	1.1
OR	BJ 0308	0.047	0.0487	0.11	0.15	0.22	**0.31**	0.38	0.44	0.49	0.69	0.84	1.1
	BJ 0385	0.051	0.0609	0.14	0.19	0.27	**0.39**	0.47	0.54	0.61	0.86	1.1	1.4
	BJ 04	0.055	0.0632	0.14	0.20	0.28	**0.40**	0.49	0.57	0.63	0.89	1.1	1.4
	BJ 0462	0.056	0.0730	0.16	0.23	0.33	**0.46**	0.57	0.65	0.73	1.0	1.3	1.6
3/8	BJ 05	0.061	0.0791	0.18	0.25	0.35	**0.50**	0.61	0.71	0.79	1.1	1.4	1.8
	BJ 06	0.067	0.0949	0.21	0.30	0.42	**0.60**	0.73	0.85	0.95	1.3	1.6	2.1
	BJ 0616	0.067	0.0974	0.22	0.31	0.44	**0.62**	0.75	0.87	0.97	1.4	1.7	2.2
OR	BJ 077	0.072	0.1217	0.27	0.39	0.54	**0.77**	0.94	1.09	1.2	1.7	2.1	2.7
	BJ 08	0.074	0.1265	0.28	0.40	0.57	**0.80**	0.98	1.1	1.3	1.8	2.2	2.8
	BJ 0924	0.076	0.1481	0.33	0.46	0.65	**0.92**	1.1	1.3	1.5	2.1	2.5	3.3
	BJ 10	0.086	0.1581	0.35	0.5	0.71	**1.0**	1.2	1.4	1.6	2.2	2.7	3.5
1/2"	BJ 15	0.107	0.2372	0.53	0.75	1.1	**1.5**	1.8	2.1	2.4	3.4	4.1	5.3
	BJ 20	0.125	0.3162	0.71	1.0	1.4	**2.0**	2.4	2.8	3.2	4.5	5.5	7.1
	BJ 30	0.141	0.4743	1.1	1.5	2.1	**3.0**	3.7	4.2	4.7	6.7	8.2	10.6
3/8	BJ 40	0.156	0.6325	1.4	2.0	2.8	**4.0**	4.9	5.7	6.3	8.9	11.0	14.1
OR	BJ 50	0.172	0.7906	1.8	2.5	3.5	**5.0**	6.1	7.1	7.9	11.2	13.7	17.7
1/2"	BJ 60	0.188	0.9487	2.1	3.0	4.2	**6.0**	7.3	8.5	9.5	13.4	16.4	21.2
	BJ 70	0.203	1.1068	2.5	3.5	4.9	**7.0**	8.6	9.9	11.1	15.7	19.2	24.7

Flow Rate (GPM) = $K\sqrt{PSI}$

Standard Materials: Brass, 303 Stainless Steel and 316 Stainless Steel (for nozzle number BJ01 and higher).

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