

# SPN

## High Impact/Narrow Fan Spray

### DESIGN FEATURES

- One-piece/heavy construction
- Straight-through orifice minimizes clogging
- Machined from bar stock to exacting standards
- Male connection

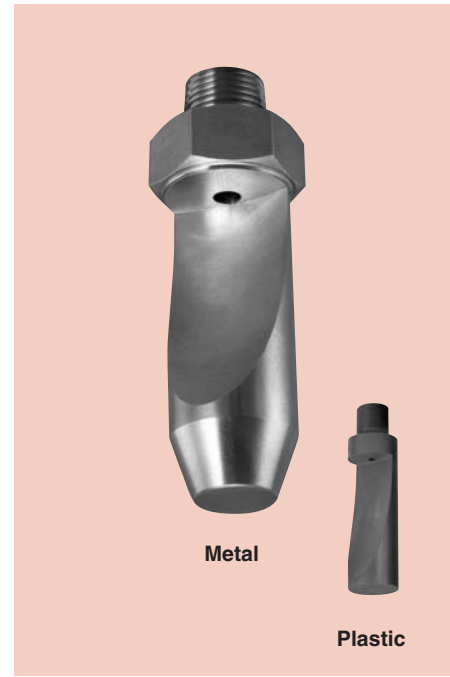
### SPRAY CHARACTERISTICS

- Yields highest impact, narrow, flat spray with least atomization
- Spoon-shaped deflector surface efficiently forms a hard driving spray

Spray pattern: Fan

Spray angles: 15°, 25°, 35°, 40°, 50°

Flow rates: 0.76 to 177 l/min



Metal

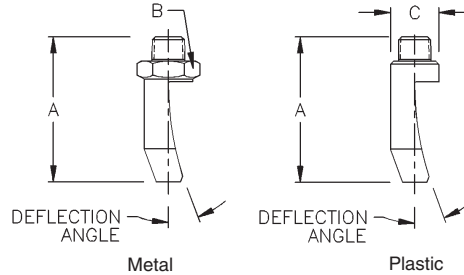
Plastic



FAN



Fan 50°



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

### SPN Flow Rates and Dimensions

Fan, 15°, 25°, 35°, 40° and 50° Spray Angles, 1/4" to 3/4" Pipe Sizes, BSP or NPT

Male Pipe Size	Nozzle Number	Available Spray Angles	K Factor	LITERS PER MINUTE @ BAR								Approx. Orifice Dia. (mm)	Deflection Angle @ Spray Angle	Dimensions (mm)			Mass (g) Metal				
				0.7 bar	1 bar	2 bar	3 bar	4 bar	5 bar	10 bar	15 bar			Metals Only							
													15°	25°	35°	40°	50°	A B C			
1/8	SPN 04	35°	0.91	0.76	0.91	1.29	1.58	1.82	2.04	2.88	3.53	1.24	15°	17.8	12.7	14.2	14.1				
1/4	SPN 10	15° 35°	2.28	1.91	2.28	3.22	3.95	4.56	5.10	7.21	8.83	1.98	5°	35°	55°	50.8	22.4	19.1	70.9		
	SPN 20	15° 35°	4.56	3.81	4.56	6.45	7.89	9.12	10.2	14.4	17.7	2.77	5°	35°	45°						
	SPN 25	50°	5.70	4.77	5.70	8.06	9.87	11.4	12.7	18.0	22.1	3.05	50°								
	SPN 40	25°	9.12	7.63	9.12	12.9	15.8	18.2	20.4	28.8	35.3	3.96	20°	45°							
3/8	SPN 20	35°	4.56	3.81	4.56	6.45	7.89	9.12	10.2	14.4	17.7	2.77	30°	76.2	28.7	25.4	227				
	SPN 25	35°	5.70	4.77	5.70	8.06	9.87	11.4	12.7	18.0	22.1	3.05	5°					28°	45°		
	SPN 30	15° 35°	6.84	5.72	6.84	9.67	11.8	13.7	15.3	21.6	26.5	3.18	5°					28°			
	SPN 40	15° 35° 40° 50°	9.12	7.63	9.12	12.9	15.8	18.2	20.4	28.8	35.3	3.96	5°					35° 35° 50°			
	SPN 50	35° 40°	11.4	9.53	11.4	16.1	19.7	22.8	25.5	36.0	44.1	4.34	5°					23° 33°			
	SPN 60	15° 35° 40° 50°	13.7	11.4	13.7	19.3	23.7	27.3	30.6	43.2	53.0	4.75	5°					20° 33° 35°			
	SPN 70	40°	16.0	13.3	16.0	22.6	27.6	31.9	35.7	50.4	61.8	5.16	5°					29°			
	SPN 80	15° 35° 40° 50°	18.2	15.3	18.2	25.8	31.6	36.5	40.8	57.7	70.6	5.31	5°					25° 26° 35°			
	SPN 90	40°	20.5	17.2	20.5	29.0	35.5	41.0	45.9	64.9	79.4	5.54	5°					28°			
	SPN 100	15° 35° 40° 50°	22.8	19.1	22.8	32.2	39.5	45.6	51.0	72.1	88.3	5.94	5°					25° 28° 40°			
	SPN 120	15° 35°	27.3	22.9	27.3	38.7	47.4	54.7	61.1	86.5	106	7.14	5°					25°	40°		
	SPN 125	50°	28.5	23.8	28.5	40.3	49.3	57.0	63.7	90.1	110	6.76	5°					38°			
SPN 160	50°	36.5	30.5	36.5	51.6	63.2	72.9	81.5	115	141	7.54	25°	37°								
SPN 200	50°	45.6	38.1	45.6	64.5	78.9	91.2	102	144	177	8.33	5°	22°								
1/2	SPN 60	15° 35°	13.7	11.4	13.7	19.3	23.7	27.3	30.6	43.2	53.0	4.75	5°	27°	114	35.1	31.8	539			
	SPN 80	15° 35°	18.2	15.3	18.2	25.8	31.6	36.5	40.8	57.7	70.6	5.31	5°	25°							
	SPN 100	15° 35°	22.8	19.1	22.8	32.2	39.5	45.6	51.0	72.1	88.3	5.94	5°	19°							
	SPN 140	15° 35°	31.9	26.7	31.9	45.1	55.3	63.8	71.3	101	124	7.52	5°	25°					40°		
	SPN 160	15° 35°	36.5	30.5	36.5	51.6	63.2	72.9	81.5	115	141	7.92	5°	25°					40°		
3/4	SPN 160	35°	36.5	30.5	36.5	51.6	63.2	72.9	81.5	115	141	7.92	23°	124	44.5	42.9	850				
	SPN 200	15° 35°	45.6	38.1	45.6	64.5	78.9	91.2	102	144	177	8.33	5°					22°			

Flow Rate (l/min) = K √bar

Standard Materials: Brass, 303 Stainless Steel, 316 Stainless Steel, PVC, and PTFE

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

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