



THE  
**SPRAY NOZZLE**  
PEOPLE

# SPN

Deflector  
Flat Fan



## FLAT FAN

### 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 atomisation
- ▼ Spoon-shaped deflector surface efficiently forms a hard driving spray
- ▼ Spray pattern: Flat Fan
- ▼ Spray angles: 15°, 25°, 35°, 40°, 50°
- ▼ Flow rates: 0.76 to 177 l/min



Métal



Plastique

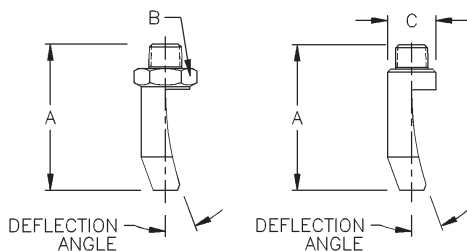
The SPN nozzle is a deflector style flat fan nozzle that produces a narrow hard driving spray pattern with low atomisation. The spray pattern is created by deflecting the fluid on a spoon shaped deflector plate, this means that the final direction of the spray is off set from initial fluid direction.

SPN are used primarily in cleaning applications where good impact is required.

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## SPN Flow Rates and Dimensions

Flat FanFan, 15°, 25°, 35°, 40° and 50° Spray Angles, 1/4" to 3/4" Pipe Sizes, BSP or NPT  
Standard Materials: Brass, 303 and 316 Stainless Steel, PVC and PTFE

Male Pipe Size	Nozzle Number	Available Spray Angles	K Factor	Litres per minute @BAR										Deflection Angle @ Spray Angle					Dimensions (mm) Metals Only		
				0.7 Bar	1 Bar	2 Bar	3 Bar	4 Bar	5 Bar	10 Bar	15 Bar	Approx. Orifice Dia.	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		
	SPN 10	15° 35° 50°	2.28	1.91	2.28	3.22	3.95	4.56	5.1	7.21	8.83	1.98	5°	35°	55°						
1/4"	SPN 20	15° 35° 50°	4.56	3.81	4.56	6.45	7.89	9.12	10.2	14.4	17.7	2.77	5°	35°	45°		50.8	22.4	19.1		
	SPN 25	50°	5.7	4.77	5.7	8.06	9.87	11.4	12.7	18	22.1	3.05			50°						
3/8"	SPN 40	25° 50°	9.12	7.63	9.12	12.9	15.8	18.2	20.4	28.8	35.3	3.96	20°		45°						
	SPN 20	35°	4.56	3.81	4.56	6.45	7.89	9.12	10.2	14.4	17.7	2.77		30°							
	SPN 25	35°	5.7	4.77	5.7	8.06	9.87	11.4	12.7	18	22.1	3.05		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	44.1	4.34		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	4.75	5°	20°	33°	35°					
	SPN 70	40°	16	13.3	16	22.6	27.6	31.9	35.7	50.4	61.8	5.16			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°	76.2	28.7	25.4		
	SPN 90	40°	20.5	17.2	20.5	29	35.5	41	45.9	64.9	79.4	5.54			28°						
1/2"	SPN 100	15° 35° 40° 50°	22.8	19.1	22.8	32.2	39.5	45.6	51	72.1	88.3	5.94	5°	25°	28°	40°					
	SPN 120	15° 35° 50°	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	63.7	90.1	110	6.76			38°						
	SPN 160	50°	36.5	30.5	36.5	51.6	63.2	72.9	81.5	115	141	7.54			37°						
	SPN 200	50°	45.6	38.1	45.6	64.5	78.9	91.2	102	144	177	8.33			32°						
	SPN 60	15° 35°	13.7	11.4	13.7	19.3	23.7	27.3	30.6	43.2	53	4.75	5°	27°							
	SPN 80	15° 35° 50°	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	72.1	88.3	5.94	5°	19°			114	35.1	31.8		
	SPN 140	15° 35° 50°	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° 50°	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°							
	SPN 200	15° 35°	45.6	38.1	45.6	64.5	78.9	91.2	102	144	177	8.33	5°	22°			124	44.5	42.9		

Flow Rate (l/min) = K √ bar