



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

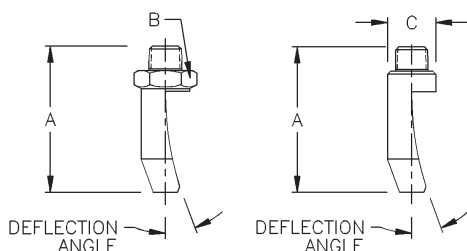
The SPN nozzle is a deflector style flat fan nozzle that produces a narrow hard driving spray pattern with low atomisation. The spray pattern is created by deflecting the fluid on a spoon shaped deflector plate, this means that the final direction of the spray is off set from initial fluid direction.

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

CALL NOW : +44 (0) 1273 400092

www.spray-nozzle.co.uk

The Go-to People for spray nozzle solutions



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								Approx. Orifice Dia.	Deflection Angle @ SprayAngle					Dimensions (mm) Metals Only		
					0.7 Bar	1 Bar	2 Bar	3 Bar	4 Bar	5 Bar	10 Bar	15 Bar		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°			76.2	28.7	25.4	
	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	35.5	41	45.9	64.9	79.4	5.54		28°						
	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°				
1/2"	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°					
3/4"	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°					
	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	
	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 $\sqrt{\text{bar}}$

Ask our technical sales engineers about additional products and services to optimise your spraying process.

Spray Calibration Solutions

Easy-to-use, fast measurement solutions to ensure accurate nozzle installation and maintenance, reduce water wastage and identify nozzle wear.



Spray Pattern & Droplet Distribution



Nozzle Flow Calibrators



Nozzle Cleaning Kit

Complete Spray Bars

Tailored nozzle selections and spray bar designs that integrate seamlessly with your new or existing setup.

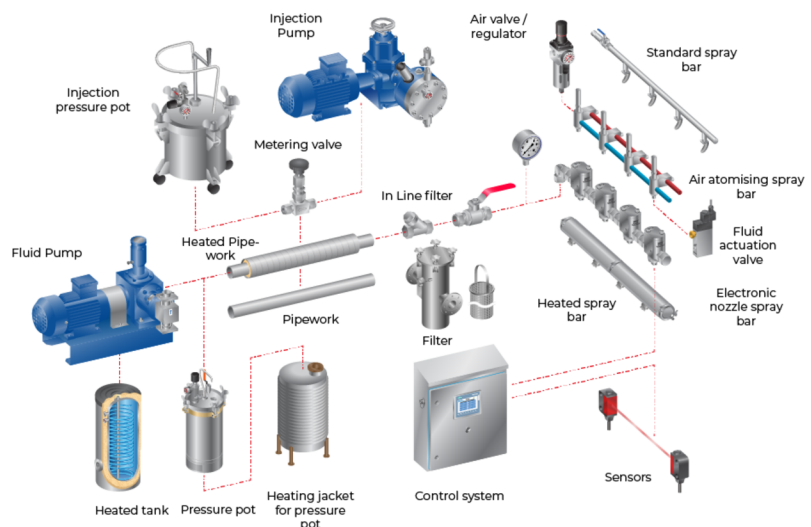
- ✓ Expert nozzle selection and placement
- ✓ Efficient spray coverage
- ✓ Fast turnaround time
- ✓ Reduced design burden
- ✓ High-quality spray bars



Complete Custom Spraying Systems

Complete spraying systems built around your goals and application.

- ✓ Tailored upstream components supplied individually or as part of complete system
- ✓ Custom pipework, pumps, tanks, sensors, valves, heating, control panels and more
- ✓ Seamless integration with existing processes
- ✓ Built to budget and ROI targets
- ✓ End-to-end support: design, install, maintain



THE GO-TO PEOPLE FOR SUCCESSFUL SPRAY ENGINEERING