

FLAT FAN

DESIGN FEATURES

- ✓ Dovetail joint guarantees alignment of interchangeable tips
- ✓ Dimensionally compatible with other dovetail systems
- ✓ Tips offset 5° or 15° for overlapping spray patterns
- ✓ Tapered overlapping spray provides uniform coverage
- ✓ Male, female and welded connections
- ✓ Other sizes available upon request

SPRAY CHARACTERISTICS

- ✓ Spray pattern: Flat Fan
- ✓ Spray angles: 20°, 30°, 45°, 60°, 90°, and 120°. Special angles are available on request
- ✓ Flow rates: 0.159 to 358 l/min

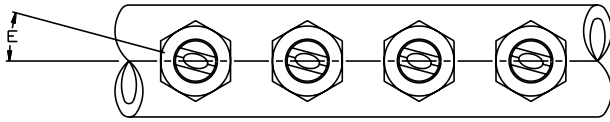


The NFD is a flat fan nozzle that consists of a base, a dovetail nozzle tip, and a retaining cap. The dovetail design ensures that the spray tip aligns at a precise offset angle. The off-set angle is in place to ensure that individual spray patterns do not interfere with each other when they overlap in a typical spraybar setup. The NFD nozzle can be used in any spray application where a standard flat fan nozzle would be used for example:

Spray bars
Coating
Mositening
Cleaning
And more.

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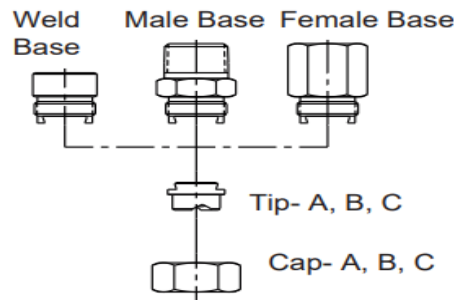
www.spray-nozzle.co.uk



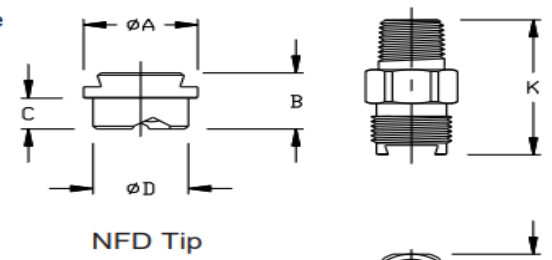
Offset angle -E



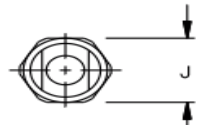
Fan 50°



NFD Components



NFD Tip



NFD Base

NFD Flow Rates and Dims

Nozzle Number	Base Sizes Available	K Fac	Flow							Orif Dia. mm	Dimensions (mm)						BSP or NPT Pipe	Approx Base Dim (mm)					
			0.5 BAR	1 BAR	2 BAR	3 BAR	5 BAR	7 BAR	10 BAR		A	B	C	D	E	(g)		J	K				
NFD010	1/4, 3/8, 1/2	0.23	0.16	0.225	0.318	0.39	0.503	0.596	0.712	0.7											1/4"	17.5	36.5
NFD014	1/4, 3/8, 1/2	0.32	0.23	0.318	0.449	0.55	0.71	0.84	1	0.9													
NFD019	1/4, 3/8, 1/2	0.45	0.31	0.445	0.629	0.77	0.994	1.18	1.41	1													
NFD031	1/4, 3/8, 1/2	0.70	0.50	0.704	0.996	1.22	1.58	1.86	2.23	1.2													
NFD039	1/4, 3/8, 1/2	0.88	0.63	0.883	1.25	1.53	1.98	2.34	2.79	1.35													
NFD050	1/4, 3/8, 1/2	1.13	0.80	1.13	1.6	1.96	2.53	2.99	3.58	1.5	14.8	12	7	12	5°	42	3/8"	17.5	36.5				
NFD059	1/4, 3/8, 1/2	1.34	0.95	1.34	1.89	2.32	3	3.54	4.24	1.65													
NFD077	1/4, 3/8, 1/2	1.77	1.25	1.77	2.5	3.06	3.95	4.67	5.59	2													
NFD097	1/4, 3/8, 1/2	2.22	1.57	2.22	3.14	3.85	4.97	5.88	7.03	2.2													
NFD12	1/4, 3/8, 1/2	2.82	2.00	2.82	3.99	4.89	6.31	7.47	8.93	2.5													
NFD15	1/4, 3/8, 1/2	3.35	2.37	3.35	4.74	5.81	7.5	8.87	10.6	2.7											1/2"	22	44.5
NFD20	3/4	4.45	3.15	4.45	6.3	7.71	10	11.8	14.1	3													
NFD25	3/4	5.65	4.00	5.65	7.99	9.79	12.6	15	17.9	3.5													
NFD31	3/4	7.04	4.98	7.04	9.96	12.2	15.8	18.6	22.3	4													
NFD39	3/4	8.83	6.25	8.83	12.5	15.3	19.8	23.4	27.9	4.5													
NFD50	3/4	11.30	8.00	11.3	16	19.6	25.3	29.9	35.8	5											3/4"	28.5	51
NFD62	3/4	14.10	10.00	14.1	20	24.5	31.6	37.4	44.7	5.5													
NFD77	3/4	17.70	12.50	17.7	25	30.6	39.5	46.7	55.9	6													
NFD87	3/4	19.80	14.00	19.8	28	34.3	44.3	52.4	62.6	6.4													
NFD104	3/4	23.70	16.70	23.7	33.5	41	52.9	62.6	74.9	7.2													
NFD124	3/4	28.30	20.00	28.3	40	49	63.3	74.8	89.5	8											1-1/4"	44.5	63.5
NFD155	3/4	35.30	25.00	35.3	50	61.2	79	93.5	112	9													
NFD195	3/4	44.50	31.40	44.5	62.9	77	99.4	118	141	10													
NFD124	1-1/4	28.30	20.00	28.3	40	49	63.2	74.8	89.5	8													
NFD195	1-1/4	44.50	31.40	44.5	62.9	77	99.4	118	141	10													
NFD309	1-1/4	70.40	49.80	70.4	100	122	158	186	223	12	38.5	22	13.5	32	15°	224							
NFD496	1-1/4	113.0	80.00	113	160	196	253	299	358	15													

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.

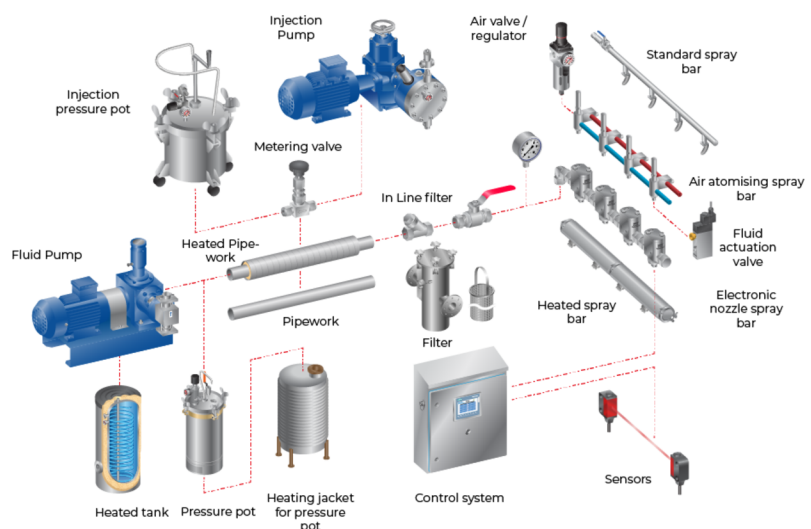
- ✓ Expert nozzle selection and placement
- ✓ Efficient spray coverage
- ✓ Fast turnaround time
- ✓ Reduced design burden
- ✓ High-quality spray bars



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