



THE
SPRAY NOZZLE
PEOPLE

Spiral Air

Three stage atomising
High Flow



AIR ATOMISING

DESIGN FEATURES

- ✓ A two-fluid nozzle using any gas as the atomizing fluid
- ✓ Three-stage atomization for highest performance
- ✓ Designed for high reliability in extremely hostile environments
- ✓ Efficient design reduces compressed air consumption

SPRAY CHARACTERISTICS

- ✓ Spray patterns: Full Cone and Flat Fan
- ✓ Spray angles: 20° to 90°
- ✓ (Other angles available by special order)
- ✓ Flow rates: 2.0 to 80 l/min

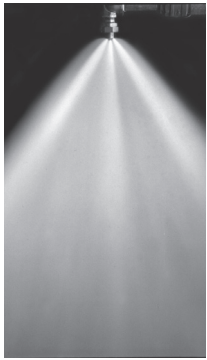


The SpiralAir is a high flow rate, air atomising nozzle. It has a three stage atomisation process that will deliver fine droplets in a dense fog. A variety of different spray pattern types are available as well as a large number of mounting and positioning lances to insert the nozzle into gas flows. Gas cooling is the primary application this type of nozzle is used in but it can be used in any tough, hot, environment where an atomised spray needs to be delivered.

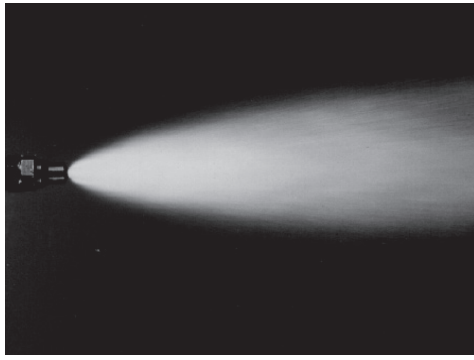
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www.spray-nozzle.co.uk

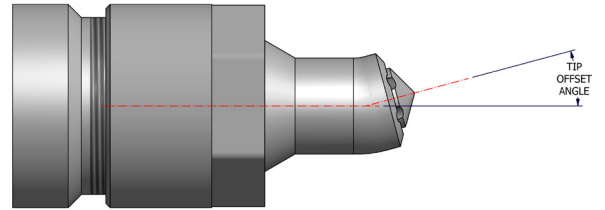
The Go-to People for spray nozzle solutions



Wide Round 90°

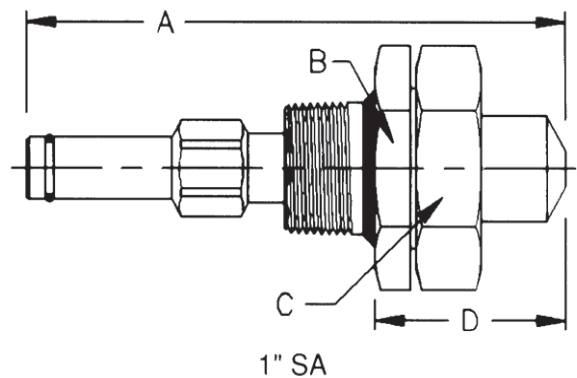
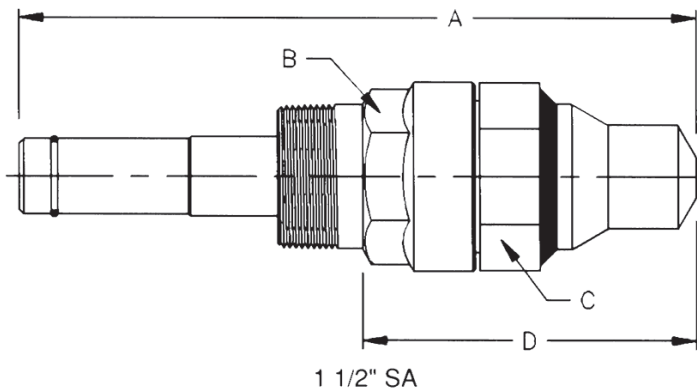
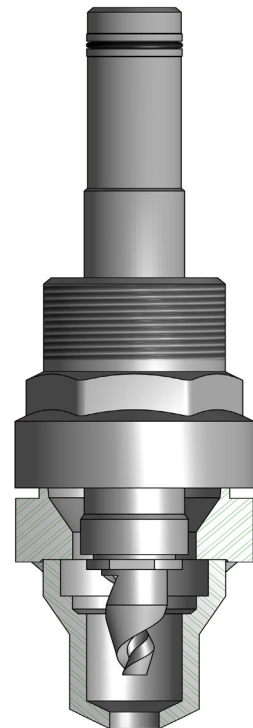


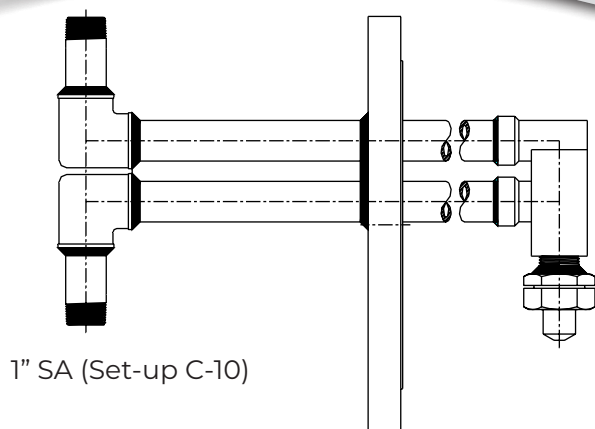
Narrow Round 20°



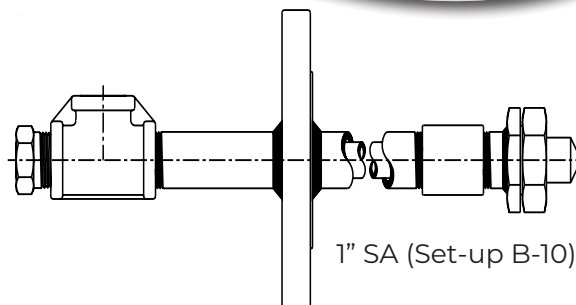
SpiralAir Spray Set-up, Spiral Tip and Dimensions

Spray Set-Up No.	Tip No.	Spray Angle	Spray Type	Approx Free Pass Dia (mm)	Pipe Size	Dimensions (mm)				Wt (Kg)
						A	B	C	D	
SA 101	14	20°	Narrow Round	4.83	1"	148	50.8	50.8	50.8	0.64
SA 308		90°	Wide Round	2.74						
SA 310		60°	Wide Round	2.74						
SA 402		90°	Flat Fan	4.22						
SA 404		60°	Flat Fan	4.22						
SA 103	20	20°	Narrow Round	7.14	1"	148	50.8	50.8	50.8	0.64
SA 307		90°	Wide Round	3.48						
SA 309		60°	Wide Round	3.48						
SA 401		90°	Flat Fan	5.21						
SA 403		60°	Flat Fan	5.21						
SA 2100	28	20°	Narrow Round	9.27	1 1/2"	229	50.8	55.6	113	1.5
SA 2300		90°	Wide Round	5.41						
SA 2301		60°	Wide Round	5.41						

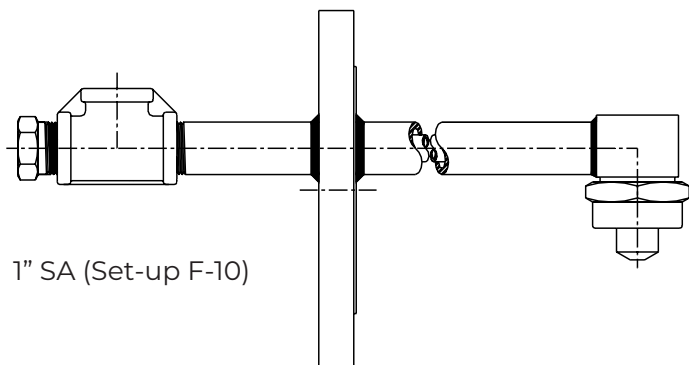




1" SA (Set-up C-10)



1" SA (Set-up B-10)



1" SA (Set-up F-10)

The SpiralAir can be configured to fit any installation requirement. The examples shown here are just a small sample.

Since very small variations in liquid pressure produce large variations in liquid flow we recommend using a metering pump or other flow measuring device to control liquid flow

SpiralAir Set-Up Flow Rates

Narrow, Wide and Flat Fan Patterns 1" and 1 1/2" BSP or NPT

Spiral Tip Rating	2 bar air			3 bar air			4 bar air			5 bar air			6 bar air			7 bar air		
	Liquid l/min	Liquid (Bar)	Air Nm ³ / hr	Liquid l/min	Liquid (Bar)	Air Nm ³ / hr	Liquid l/min	Liquid (Bar)	Air Nm ³ / hr	Liquid l/min	Liquid (Bar)	Air Nm ³ / hr	Liquid l/min	Liquid (Bar)	Air Nm ³ / hr	Liquid l/min	Liquid (Bar)	Air Nm ³ / hr
14	2	1.8	47.1	2	2.7	77.9	2	3.7	110.3	2	4.7	144	2	5.9	179.2	2	7.1	215.8
	3	1.9	36.1	3	2.8	59.8	3	3.8	84.6	3	4.8	110.5	3	6	137.5	3	7.2	165.7
	4	2	29.9	4	2.9	49.6	4	3.9	70.1	4	4.9	91.6	4	6.1	114	4	7.3	137.3
	5	2.1	25.8	5	3	42.8	5	4	60.6	5	5	79.2	5	6.2	98.6	5	7.4	118.7
	6	2.1	22.9	6	3.1	38	6	4.1	53.8	6	5.1	70.3	6	6.3	87.5	6	7.5	105.4
	7	2.2	20.7	7	3.1	34.4	7	4.1	48.7	7	5.2	63.6	7	6.4	79.1	7	7.6	95.3
	8	2.3	19	8	3.2	31.5	8	4.2	44.6	8	5.3	58.3	8	6.5	72.5	8	7.7	87.4
	9	2.3	17.6	9	3.3	29.2	9	4.3	41.3	9	5.4	54	9	6.5	67.2	9	7.8	80.9
	10	2.4	16.4	10	3.3	27.2	10	4.3	38.5	10	5.4	50.4	10	6.6	62.7	10	7.9	75.5
	11	2.4	15.4	11	3.4	25.6	11	4.4	36.2	11	5.5	47.3	11	6.7	58.9	11	7.9	71
	12	2.4	14.6	12	3.4	24.2	12	4.4	34.2	12	5.6	44.7	12	6.8	55.7	12	8	67.1
20	4	1.8	61.9	4	2.6	94.4	4	3.4	127.2	4	4.3	160.3	4	5.2	193.7	4	6.2	227.4
	8	2	43	8	2.7	65.4	8	3.6	88.1	8	4.5	111	8	5.4	134.1	8	6.4	157.5
	11	2.1	36.4	11	2.9	55.3	11	3.7	74.4	11	4.6	93.8	11	5.6	113.3	11	6.6	133
	15	2.2	30.9	15	3	46.9	15	3.8	63.2	15	4.8	79.5	15	5.7	96.1	15	6.7	112.8
	19	2.3	27.3	19	3.1	41.4	19	4	55.7	19	4.9	70.2	19	5.9	84.8	19	6.9	99.5
	23	2.4	24.7	23	3.2	37.5	23	4.1	50.4	23	5	63.4	23	6	76.6	23	7	89.9
	26	2.5	23.1	26	3.3	35.1	26	4.2	47.2	26	5.1	59.4	26	6.1	71.8	26	7.1	84.2
	30	2.5	21.5	30	3.4	32.6	30	4.2	43.8	30	5.2	55.1	30	6.1	66.5	30	7.2	78.1
	34	2.6	20.1	34	3.4	30.5	34	4.3	41	34	5.2	51.5	34	6.2	62.2	34	7.2	73.1
	38	2.6	19	38	3.5	28.7	38	4.4	38.6	38	5.3	48.6	38	6.3	58.7	38	7.3	68.9
				40	3.4	67.2	40	4.3	104.7	40	5.3	147.2	40	6.3	194.6	40	7.4	247
				45	3.5	61.3	45	4.4	95.6	45	5.4	134.4	45	6.4	177.7	45	7.5	225.5
28				50	3.5	56.5	50	4.4	88.2	50	5.4	123.9	50	6.5	163.8	50	7.6	207.9
				55	3.6	52.5	55	4.5	81.9	55	5.5	115.2	55	6.5	152.2	55	7.6	193.1
				60	3.6	49	60	4.6	76.6	60	5.6	107.7	60	6.6	142.3	60	7.7	180.5
				65	3.7	46.1	65	4.6	72	65	5.6	101.3	65	6.7	133.8	65	7.8	169.7
				70	3.7	43.5	70	4.7	68	70	5.7	95.6	70	6.7	126.4	70	7.8	160.2
				75	3.8	41.2	75	4.7	64.5	75	5.7	90.7	75	6.8	119.8	75	7.9	151.9
				80	3.8	39.2	80	4.7	61.4	80	5.7	86.3	80	6.8	114	80	8	144.5

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.

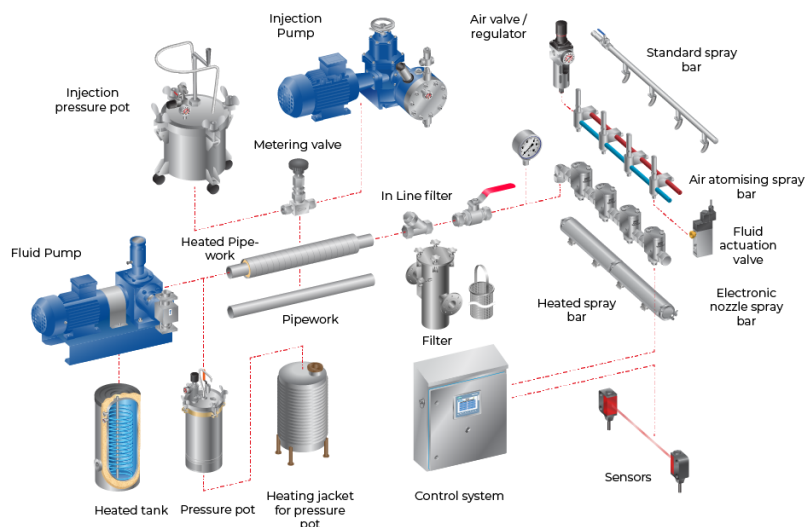
- ✓ Expert nozzle selection and placement
- ✓ Efficient spray coverage
- ✓ Fast turnaround time
- ✓ Reduced design burden
- ✓ High-quality spray bars



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