



THE
SPRAY NOZZLE
PEOPLE

IS

Rectangular Pattern
Paired Nozzles



RECTANGULAR

DESIGN FEATURES

- ✓ Effective wherever rectangular pattern is required
- ✓ High energy efficiency
- ✓ Low coefficient of discharge and large unimpeded openings
- ✓ Excellent clog resistance
- ✓ Mounted in opposing pairs
- ✓ Male connection

SPRAY CHARACTERISTICS

- ✓ Pattern widths of 18° to 120° can be achieved
- ✓ Good distribution with pressures as low as 0.035 bar
- ✓ Thick bands of droplets from opposing pairs intersect and fall uniformly
- ✓ Spray pattern: Rectangular
- ✓ Spray angle: See Pattern Width and Coverage Chart
- ✓ Flow rates: 1.77 to 649 l/min per pair



IS nozzles are unique nozzles that operate in pairs. Each nozzle projects its spray into the opposite nozzle. The patterns interact and form a rectangular spray pattern.

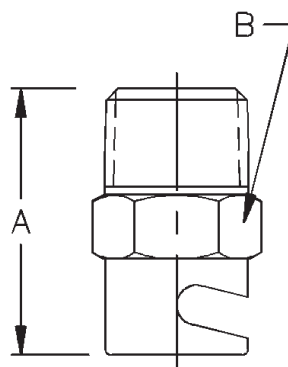
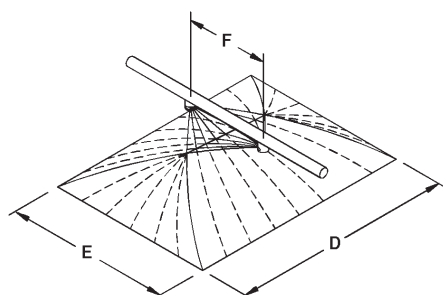
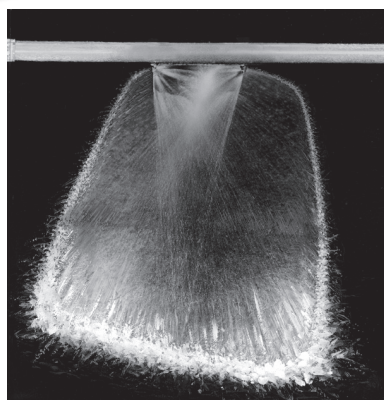
IS nozzles can be used in a number of applications including:

Fluid distribution
Packed bed scrubbers
And more.

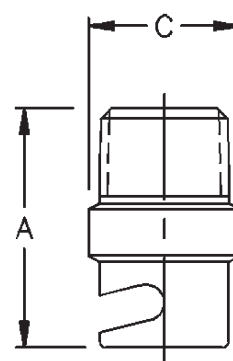
CALL NOW : +44 (0) 1273 400092

www.spray-nozzle.co.uk

The Go-to People for spray nozzle solutions



Metal



Plastic

IS Flow Rates and Dimensions

Rectangular Spray Pattern, 1/16" to 1 1/2" Pipe Sizes, BSP or NPT
Standard Materials: Brass, 303 and 316 Stainless Steel and PVC

Male pipe size	Nozzle No	K	Litres per minute per pair @ bar								Nozzle Dia (mm)			Weight (g)		Spacing (mm)	Approx Coverage (m)							
			0.03 bar	0.07 bar	0.1 bar	0.2 bar	0.5 bar	0.7 bar	1 bar	1.5 bar	A	B	C	Metal	Plas.		F	D	E	D	E	D	E	D
1/16"	IS2	10.2	1.77	2.7	3.22	4.56	7.21	8.53	10.2	12.5	19.1	7.87	7.87	4	2	70	0.6	0.45	0.85	0.65	1.5	0.75	1.8	0.75
	IS3	15.3	2.65	4.04	4.83	6.84	10.8	12.8	15.3	18.7														
1/8"	IS4	20.4	3.53	5.39	6.45	9.12	14.4	17.1	20.4	25	22.2	12.7	11.1	28	7	100	0.5	0.35	0.8	0.45	1.05	0.75	1.15	0.9
	IS6	30.6	5.3	8.09	9.67	13.7	21.6	25.6	30.6	37.4														
1/4"	IS8	40.8	7.06	10.8	12.9	18.2	28.8	34.1	40.8	49.9	27	15.9	14.3	43	11	125	0.75	0.45	1	0.55	1.5	0.9	1.95	1.05
	IS10	51	8.83	13.5	16.1	22.8	36	42.6	51	62.4														
3/8"	IS12	61.1	10.6	16.2	19.3	27.3	43.2	51.2	61.1	74.9	31.8	19.1	17.5	57	14	150	0.65	0.3	0.9	0.5	1.35	0.6	1	0.6
	IS14	71.3	12.4	18.9	22.6	31.9	50.4	59.7	71.3	87.4														
	IS16	81.5	14.1	21.6	25.8	36.5	57.7	68.2	81.5	99.9														
1/2"	IS20	102	17.7	27	32.2	45.6	72.1	85.3	102	125	36.5	22	22.2	85	28	200	0.9	0.3	1.5	0.7	2.1	0.9	2.2	1.05
	IS24	122	21.2	32.4	38.7	54.7	86.5	102	122	150														
	IS28	143	24.7	37.7	45.1	63.8	101	119	143	175														
3/4"	IS32	163	28.2	43.1	51.6	72.9	115	136	163	200	44.5	28.6	28.6	170	43	250	1.05	0.3	1.5	0.5	1.65	0.6	2.25	0.65
	IS40	204	35.3	53.9	64.5	91.2	144	171	204	250														
	IS48	245	42.4	64.7	77.3	109	173	205	245	300														
1"	IS56	285	49.5	75.5	90.2	128	202	239	285	349	55.6	34.9	34.9	227	57	300	0.75	0.45	1.2	0.5	1.55	0.6	2.25	0.95
	IS64	326	56.5	86.3	103	146	231	273	326	399														
1 1/4"	IS72	367	63.5	97.1	116	164	259	307	367	449	63.5	44.5	44.5	340	85	350	1.2	0.35	1.5	0.45	2.2	0.5	2.7	0.6
	IS80	408	70.6	108	129	182	288	341	408	499														
1 1/2"	IS88	448	77.7	119	142	201	317	375	448	549	76.2	50.8	50.8	567	142	400	0.9	0.35	1.2	0.45	1.8	0.6	3	0.95
	IS96	489	84.7	129	155	219	346	409	489	599														
	IS104	530	91.8	140	168	237	375	443	530	649														

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.

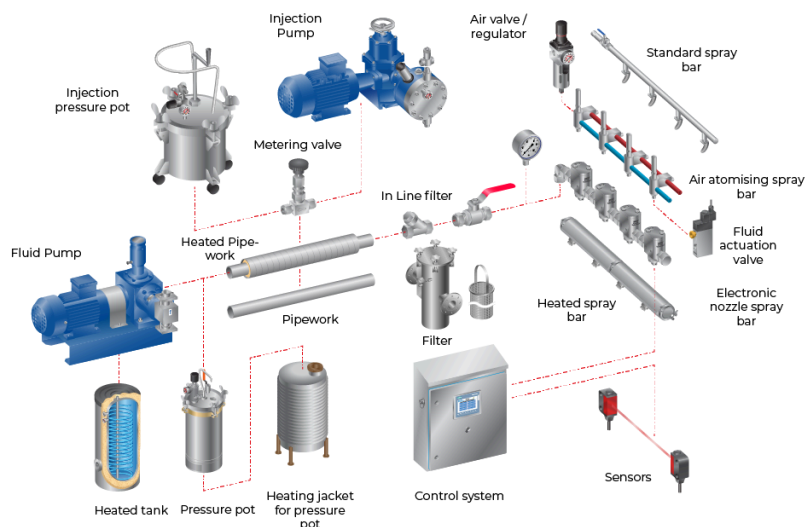
- ✓ Expert nozzle selection and placement
- ✓ Efficient spray coverage
- ✓ Fast turnaround time
- ✓ Reduced design burden
- ✓ High-quality spray bars



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