



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.

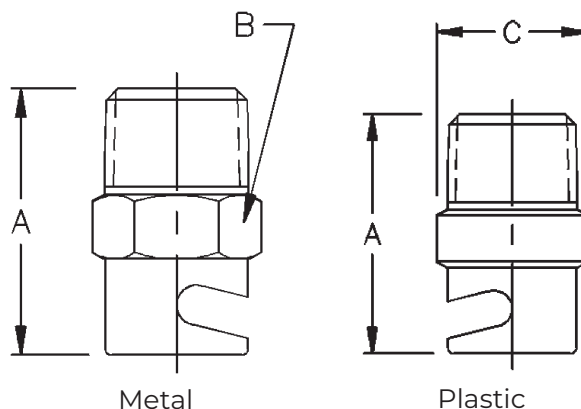
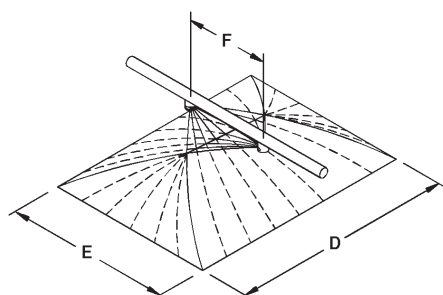
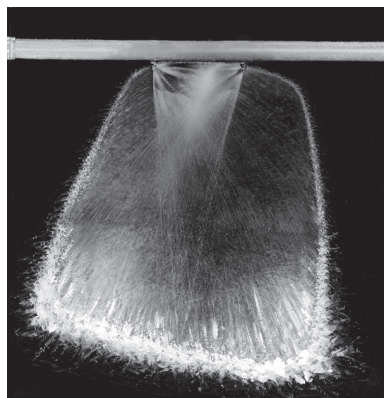
IS nozzles can be used in a number of applications including:

Fluid distribution  
Packed bed scrubbers  
And more.

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[www.spray-nozzle.co.uk](http://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

Coverage @ 300mm Mounting Height

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														
1/2"	IS16	81.5	14.1	21.6	25.8	36.5	57.7	68.2	81.5	99.9	36.5	22	22.2	85	28	200	0.9	0.3	1.5	0.7	2.1	0.9	2.2	1.05
	IS20	102	17.7	27	32.2	45.6	72.1	85.3	102	125														
3/4"	IS24	122	21.2	32.4	38.7	54.7	86.5	102	122	150	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
	IS28	143	24.7	37.7	45.1	63.8	101	119	143	175														
1"	IS32	163	28.2	43.1	51.6	72.9	115	136	163	200	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
	IS40	204	35.3	53.9	64.5	91.2	144	171	204	250														
1 1/4"	IS48	245	42.4	64.7	77.3	109	173	205	245	300	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
	IS56	285	49.5	75.5	90.2	128	202	239	285	349														
1 1/2"	IS64	326	56.5	86.3	103	146	231	273	326	399	76.2	50.8	50.8	567	142	400	0.9	0.35	1.2	0.45	1.8	0.6	3	0.95
	IS72	367	63.5	97.1	116	164	259	307	367	449														
	IS80	408	70.6	108	129	182	288	341	408	499														
	IS88	448	77.7	119	142	201	317	375	448	549														
	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 √ bar