

# IS

## Rectangular Coverage/Mounted in Pairs

### 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

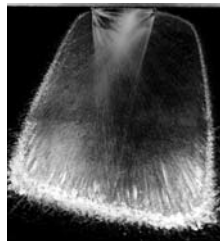
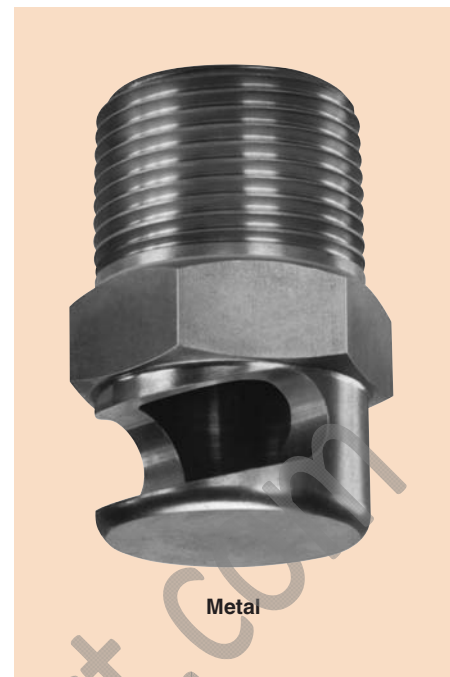
### SPRAY CHARACTERISTICS

- 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

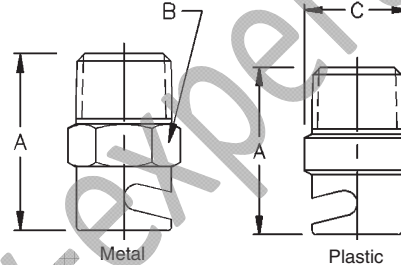
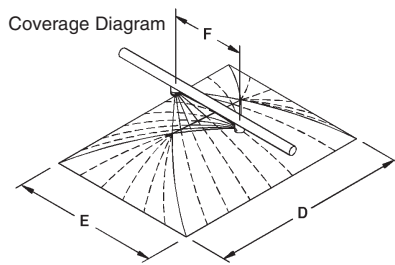
**Spray pattern:** Rectangular

**Spray angle:** See Pattern Width and Coverage Chart

**Flow rates:** 1.77 to 649 l/min per pair



Rectangular Spray



Dimensions are approximate. Check with BETE for critical dimension applications.

### IS Flow Rates and Dimensions

Rectangular Spray Pattern, 1/16" to 1 1/2" Pipe Sizes, BSP or NPT

### Coverage

300mm Mounting Height

Male Pipe Size	Nozzle Number	K Factor	LITERS PER MINUTE PER PAIR @ BAR									Nozzle Dim. (mm)			Wt. (g)	Metal	Plas.	Spacing (mm) F	Approx. Cover. (mm) @ bar							
			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	0.07 bar					0.1 bar		0.25 bar		0.5 bar			
1/16	IS2	10.2	1.77	2.70	3.22	4.56	7.21	8.53	10.2	12.5	19.1	7.87	7.87	4	2	70	600 450		850 650		1500 750		1800 750			
	IS3	15.3	2.65	4.04	4.83	6.84	10.8	12.8	15.3	18.7							500 350		800 450		1050 750		1150 900			
1/8	IS4	20.4	3.53	5.39	6.45	9.12	14.4	17.1	20.4	25.0	22.2	12.7	11.1	28	7	100	500 350		800 450		1050 750		1150 900			
	IS6	30.6	5.30	8.09	9.67	13.7	21.6	25.6	30.6	37.4							750 450		1000 550		1500 900		1950 1050			
1/4	IS8	40.8	7.06	10.8	12.9	18.2	28.8	34.1	40.8	49.9	27.0	15.9	14.3	43	11	125	750 450		1000 550		1500 900		1950 1050			
	IS10	51.0	8.83	13.5	16.1	22.8	36.0	42.6	51.0	62.4							650 300		900 500		1350 600		1000 600			
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	650 300		900 500		1350 600		1000 600			
	IS14	71.3	12.4	18.9	22.6	31.9	50.4	59.7	71.3	87.4							900 300		1500 700		2100 900		2200 1050			
	IS16	81.5	14.1	21.6	25.8	36.5	57.7	68.2	81.5	99.9							1050 300		1500 500		1650 600		2250 650			
1/2	IS20	102	17.7	27.0	32.2	45.6	72.1	85.3	102	125	36.5	22.2	22.2	85	28	200	900 300		1500 700		2100 900		2200 1050			
	IS24	122	21.2	32.4	38.7	54.7	86.5	102	122	150							1050 300		1500 500		1650 600		2250 650			
	IS28	143	24.7	37.7	45.1	63.8	101	119	143	175							1200 350		1500 450		2200 500		2700 600			
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	1050 300		1500 500		1650 600		2250 650			
	IS40	204	35.3	53.9	64.5	91.2	144	171	204	250							1200 350		1500 450		2200 500		2700 600			
	IS48	245	42.4	64.7	77.3	109	173	205	245	300							1200 350		1500 450		1800 600		3000 950			
1	IS56	285	49.5	75.5	90.2	128	202	239	285	349	55.6	34.9	34.9	227	57	300	750 450		1200 500		1550 600		2250 950			
	IS64	326	56.5	86.3	103	146	231	273	326	399							1200 350		1500 450		2200 500		2700 600			
1 1/4	IS72	367	63.5	97.1	116	164	259	307	367	449	63.5	44.5	44.5	340	85	350	1200 350		1500 450		2200 500		2700 600			
	IS80	408	70.6	108	129	182	288	341	408	499							1200 350		1500 450		1800 600		3000 950			
1 1/2	IS88	448	77.7	119	142	201	317	375	448	549	76.2	50.8	50.8	567	142	400	900 350		1200 450		1800 600		3000 950			
	IS96	489	84.7	129	155	219	346	409	489	599							900 350		1200 450		1800 600		3000 950			
	IS104	530	91.8	140	168	237	375	443	530	649							900 350		1200 450		1800 600		3000 950			

$$\text{Flow Rate (l/min)} = K \sqrt{\text{bar}}$$

Standard Materials: Brass, 303 Stainless Steel, 316 Stainless Steel, and PVC

Spray angle performance varies with pressure. Contact BETE for specific data on critical applications.

SPECIAL PURPOSE