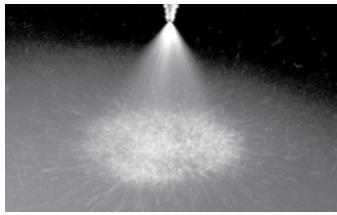


# Threaded Nozzles – Full Cone Series S



Model	Dimension A (mm)	Dimension L (mm)
1/8S	11 HEX	21
1/4S	14 HEX	24
3/8S	17 HEX	29
1/2S	22 HEX	33
3/4FS	27 HEX	52
3/4S	35 HEX	40
1FS	32 HEX	26
1S	42 dia.	68

## SPRAY CHARACTERISTICS:

Full cone spray pattern, with uniform distribution throughout the cone.

## TYPICAL APPLICATIONS:

- Chemical Processing
- Cooling Sprays
- Foam Breaking
- Continuous Casting

## CONSTRUCTION:

The nozzle contains a patented insert with larger flow passages than older styles, and is less susceptible to clogging. Standard materials are brass, 303 stainless steel, and 316 stainless steel. Some models are also stocked in PVC, CPVC, and polypropylene. For molded plastic models, please see page 29.

"S" one piece body		Thread BSPT	MAXIMUM FREE PASSAGE (mm)	CAPACITY (L/min) AT VARIOUS PRESSURES (bar)												Spray Angle @		
Female	Male			0.2 bar	0.3 bar	0.5 bar	0.7 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	5 bar	6 bar	8 bar	0.5 bar	1.5 bar	5 bar
	1/8 S1	1/8"	0.84	--	--	--	--	0.46	0.56	0.64	0.79	0.91	1.02	1.12	1.29	--	55°	52°
	1/8 S1.5	1/8"	1.17	--	--	--	0.57	0.68	0.84	0.97	1.18	1.37	1.53	1.67	1.93	--	65°	57°
	1/8 S2	1/8"	1.3	--	--	0.64	0.76	0.91	1.12	1.29	1.58	1.82	2.04	2.23	2.58	54°	59°	60°
	1/8 S3	1/8"	1.3	--	0.75	0.97	1.14	1.37	1.67	1.93	2.37	2.73	3.06	3.3	3.9	50°	53°	60°
	1/8 S3.5	1/8"	1.3	0.71	0.87	1.13	1.33	1.6	1.95	2.26	2.76	3.2	3.6	3.9	4.5	48°	58°	61°
	1/8 S5	1/8"	1.63	1.02	1.25	1.61	1.91	2.28	2.79	3.2	3.9	4.6	5.1	5.6	6.4	60°	75°	70°
	1/8 S6	1/8"	1.63	1.22	1.5	1.93	2.29	2.73	3.3	3.9	4.7	5.5	6.1	6.7	7.7	67°	72°	70°
	1/4 S5	1/4"	2.06	1.02	1.25	1.61	1.91	2.28	2.79	3.2	3.9	4.6	5.1	5.6	6.4	58°	68°	62°
	1/4 S6.5	1/4"	2.31	1.32	1.62	2.09	2.48	2.96	3.6	4.2	5.1	5.9	6.6	7.3	8.4	48°	56°	50°
	1/4 S7.5	1/4"	2.31	1.53	1.87	2.42	2.86	3.4	4.2	4.8	5.9	6.8	7.6	8.4	9.7	55°	65°	48°
	1/4 S8.5	1/4"	2.31	1.73	2.12	2.74	3.2	3.9	4.7	5.5	6.7	7.7	8.7	9.5	11	58°	65°	63°
	1/4 S10	1/4"	2.31	2.04	2.5	3.2	3.8	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.9	60°	65°	62°
	1/4 S14	1/4"	2.31	2.85	3.5	4.51	5.3	6.4	7.8	9	11.1	12.8	14.3	15.6	18	78°	85°	75°
	3/8 S9.5	3/8"	2.59	1.94	2.37	3.06	3.6	4.3	5.3	6.1	7.5	8.7	9.7	10.6	12.2	58°	68°	62°
	3/8 S10	3/8"	2.59	2.04	2.5	3.02	3.8	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.9	55°	65°	50°
	3/8 S15	3/8"	2.59	2.85	3.5	4.8	5.3	6.8	8.4	9.7	11.8	13.7	15.3	16.7	19.3	63°	65°	60°
	3/8 S18	3/8"	2.59	3.7	4.5	5.8	6.9	8.2	10	11.6	14.2	16.4	18.3	20.1	23.2	85°	88°	76°
	3/8 S20	3/8"	2.59	4.1	5	6.4	7.6	9.1	11.2	12.9	15.8	18.2	20.4	22.3	25.8	76°	82°	75°
	3/8 S22	3/8"	2.9	4.5	5.5	7.1	8.4	10	12.3	14.2	17.4	20.1	22.4	24.6	28.4	76°	78°	76°
	1/2 S16	1/2"	3.66	3.3	4	5.2	6.1	7.3	8.9	10.3	12.6	14.6	16.3	17.9	20.6	55°	60°	55°
	1/2 S25	1/2"	3.66	5.1	6.2	8.1	9.5	11.4	14	16.1	19.7	22.8	25.5	27.9	32	68°	73°	65°
	1/2 S32	1/2"	3.66	6.5	8	10.3	12.2	14.6	17.9	20.6	25.3	29.2	33	36	41	80°	90°	75°
	1/2 S40	1/2"	4.11	8.2	10	12.9	15.3	18.2	22.3	25.8	32	36	41	45	52	86°	90°	81°
	3/4 FS30	3/4"	4.11	6.1	7.5	9.7	11.4	13.7	16.7	19.3	23.7	27.3	30.6	33	39	50°	52°	49°
	3/4 FS50	3/4"	4.95	10.2	12.5	16.1	19.1	22.8	27.9	32	39	46	51	56	64	65°	70°	65°
	3/4 FS83	3/4"	4.95	16.9	20.7	26.7	32	38	46	53	66	76	85	93	107	93°	97°	86°
	1FS83	1"	5.56	16.9	20.7	26.7	32	38	46	53	66	76	85	93	107	71°	78°	75°
	1FS106	1"	5.56	21.6	26.5	34	40	48	59	68	84	97	108	118	137	86°	89°	80°
	1FS120	1"	5.56	24.5	30	39	46	55	67	77	95	109	122	134	155	80°	94°	85°
	1FS142	1"	5.56	28.9	35	46	54	65	79	92	112	129	145	159	183	88°	92°	83°