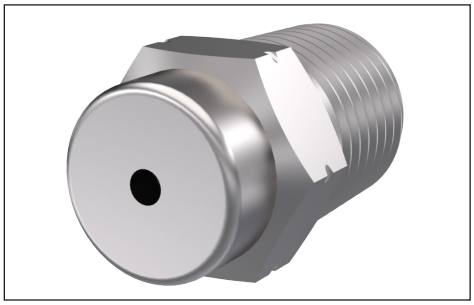
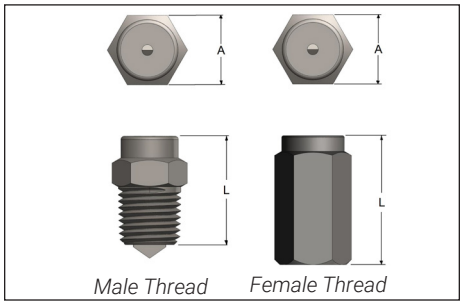
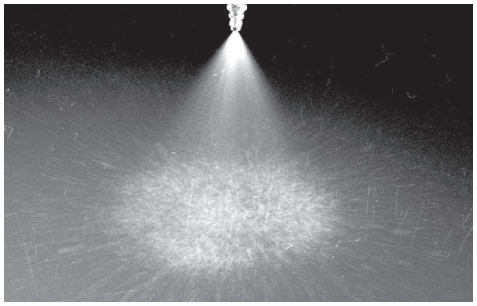
S SPRAY NOZZLE SPECIFICATIONS

FULL CONE • THREADED CONNECTION • ONE-PIECE CONSTRUCTION







SPRAY CHARACTERISTICS:

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

TYPICAL APPLICATIONS:

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

U.S. Patent No. 4, 142, 682
Canadian Patent No. 1, 050, 589

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.

Nozzle Size	Dim. 'A' (inches)	Dim. 'L' (inches)
⅛S	7/16 HEX	13/16
¼S	9/16 HEX	15/16
⅜S	11/16 HEX	1 1/16
½S	7/8 HEX	1 9/32
¾S	1 3/8 HEX	2 1/16
S	1 1/16 HEX	1 9/16
1FS	1 5/8 HEX	2 5/8
1S	1 1/4 dia.	2 3/16

Model #		Max. Free Passage inches	Capacities at Various Pressures USGPM												Spray Angle		
Female	Male		3 psi	5 psi	7 psi	10 psi	15 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	150 psi	7 psi	20 psi	80 psi
	1/8S1	0.033	0.055	0.071	0.084	0.100	0.122	0.141	0.173	0.200	0.245	0.283	0.32	0.39	--	55°	52°
	1/8S1.5	0.046	0.082	0.106	0.126	0.150	0.184	0.212	0.260	0.300	0.37	0.42	0.47	0.58	--	65°	57°
	1/8S2	0.051	0.110	0.141	0.167	0.200	0.245	0.283	0.35	0.40	0.49	0.57	0.63	0.77	54°	59°	60°
	1/8S3	0.051	0.164	0.212	0.251	0.300	0.37	0.42	0.52	0.60	0.73	0.85	0.95	1.16	50°	53°	60°
	1/8S3.5	0.051	0.192	0.248	0.293	0.35	0.43	0.50	0.61	0.70	0.86	0.99	1.11	1.36	48°	58°	61°
	1/8S5	0.064	0.274	0.35	0.42	0.50	0.61	0.71	0.87	1.00	1.22	1.41	1.58	1.94	60°	75°	70°
	1/4S5	0.081	0.274	0.35	0.42	0.50	0.61	0.71	0.87	1.00	1.22	1.41	1.58	1.94	58°	68°	62°
	1/8S6	0.064	0.33	0.42	0.50	0.60	0.73	0.85	1.04	1.20	1.47	1.70	1.90	2.32	67°	72°	70°
	1/4S6.5	0.091	0.36	0.46	0.54	0.65	0.80	0.92	1.13	1.30	1.59	1.84	2.06	2.52	48°	56°	50°
	1/4S7.5	0.091	0.41	0.53	0.63	0.75	0.92	1.06	1.30	1.50	1.84	2.12	2.37	2.90	55°	65°	48°
	1/4S8.5	0.091	0.47	0.60	0.71	0.85	1.04	1.20	1.47	1.70	2.08	2.40	2.69	3.3	58°	65°	63°
	3/8S9.5	0.102	0.52	0.67	0.79	0.95	1.16	1.34	1.65	1.90	2.33	2.69	3.00	3.7	58°	68°	62°
	1/4S10	0.091	0.55	0.71	0.84	1.00	1.22	1.41	1.73	2.00	2.45	2.83	3.2	3.9	60°	65°	62°
	3/8S10	0.102	0.55	0.71	0.84	1.00	1.22	1.41	1.73	2.00	2.45	2.83	3.2	3.9	55°	65°	50°
	1/4S14	0.091	0.77	0.99	1.17	1.40	1.71	1.98	2.42	2.80	3.4	4.0	4.4	5.4	78°	78°	75°
	3/8S15	0.102	0.82	1.06	1.26	1.50	1.84	2.12	2.60	3.00	3.7	4.2	4.7	5.8	63°	65°	60°
	3/8S18	0.102	0.99	1.27	1.51	1.80	2.20	2.55	3.12	3.6	4.4	5.1	5.7	7.0	85°	88°	76°
	3/8S20	0.102	1.10	1.41	1.67	2.00	2.45	2.83	3.5	4.0	4.9	5.7	6.3	7.7	76°	72°	75°
	3/8S22	0.114	1.20	1.56	1.84	2.20	2.69	3.11	3.8	4.4	5.4	6.2	7.0	8.5	76°	78°	76°
	1/2S16	0.144	0.88	1.13	1.34	1.60	1.96	2.26	2.77	3.2	3.9	4.5	5.1	6.2	55°	60°	55°
	1/2S25	0.144	1.37	1.77	2.09	2.50	3.06	3.5	4.3	5.0	6.1	7.1	7.9	9.7	68°	73°	65°
	1/2S32	0.144	1.75	2.26	2.68	3.2	3.9	4.5	5.5	6.4	7.8	9.1	10.1	12.4	80°	90°	75°
	1/2S40	0.162	2.19	2.83	3.3	4.0	4.9	5.7	6.9	8.0	9.8	11.3	12.6	15.5	86°	90°	81°
3/4FS30	3/4S30	0.162	1.64	2.12	2.51	3.00	3.7	4.2	5.2	6.0	7.3	8.5	9.5	11.6	50°	52°	49°

* TABLE CONTINUES ON FOLLOWING PAGE