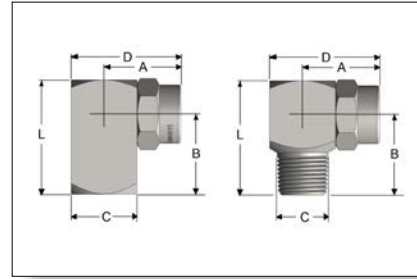




HGS SERIES NOZZLE SPECIFICATIONS

NOZZLE SIZE	Dim. A	Dim. B	Dim. C	Dim. D	Dim. L
1/8 HGS	23/32	11/16	5/8 SQ	1 1/32	1
1/4 HGS	29/32	1	3/4 SQ	1 9/32	1 3/8
3/8 HGS	1 1/32	1 1/16	7/8 SQ	1 15/32	1 17/32
1/2 HGS	1 3/16	1 3/8	1 SQ	1 11/16	1 7/8
1/8 FHGS	23/32	11/16	5/8 SQ	1 1/32	1
1/4 FHGS	29/32	1	3/4 SQ	1 9/32	1 3/8
3/8 FHGS	1 1/32	1 1/16	7/8 SQ	1 15/32	1 17/32
1/2 FHGS	1 3/16	1 3/8	1 SQ	1 11/16	1 7/8



SPRAY CHARACTERISTICS:

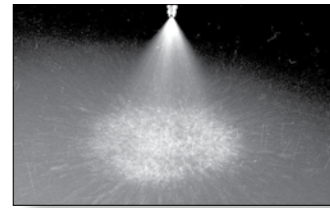
Full cone spray pattern, with uniform distribution throughout the cone.

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.

TYPICAL APPLICATIONS:

- Chemical Processing
 - Cooling Sprays
 - Foam Breaking
 - Continuous Casting
- U.S. Patent No. 4,142,682
Canadian Patent No. 1,050,589



Model		Max. Free Passage (in)	CAPACITY AT VARIOUS PRESSURES (USGPM)												SPRAY ANGLE @ (degrees)		
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
1/8 FHGS1	1/8 HGS1	0.033	--	--	--	--	0.12	0.14	0.17	0.20	0.25	0.28	0.32	0.39	--	55	52
1/8 FHGS1.5	1/8 HGS1.5	0.046	--	--	--	0.15	0.18	0.21	0.26	0.30	0.37	0.42	0.47	0.58	--	65	57
1/8 FHGS2	1/8 HGS2	0.051	--	--	0.17	0.20	0.25	0.28	0.35	0.40	0.49	0.57	0.63	0.77	54	59	60
1/8 FHGS3	1/8 HGS3	0.051	--	0.21	0.25	0.30	0.37	0.42	0.52	0.60	0.73	0.85	0.95	1.16	50	53	60
1/8 FHGS3.5	1/8 HGS3.5	0.051	0.19	0.25	0.29	0.35	0.43	0.50	0.61	0.70	0.86	0.99	1.11	1.36	48	58	61
1/8 FHGS5	1/8 HGS5	0.064	0.27	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
1/4 FHGS5	1/4 HGS5	0.081	0.27	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
1/8 FHGS6	1/8 HGS6	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
1/4 FHGS6.5	1/4 HGS6.5	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
1/4 FHGS7.5	1/4 HGS7.5	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
1/4 FHGS8.5	1/4 HGS8.5	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
3/8 FHGS9.5	3/8 HGS9.5	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
1/4 FHGS10	1/4 HGS10	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
3/8 FHGS10	3/8 HGS10	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
1/4 FHGS14	1/4 HGS14	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
3/8 FHGS15	3/8 HGS15	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
3/8 FHGS18	3/8 HGS18	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
3/8 FHGS20	3/8 HGS20	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
3/8 FHGS22	3/8 HGS22	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
1/2 FHGS16	1/2 HGS16	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
1/2 FHGS25	1/2 HGS25	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
1/2 FHGS32	1/2 HGS32	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
1/2 FHGS40	1/2 HGS40	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