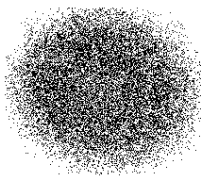
APPLIED SPRAY TECHNOLOGY PH: 519-896-2200 FX: 519-896-2201

S, GS, HGS full cone spray nozzles

Pattern - Full Conical



SPRAY CHARACTERISTICS: Full cone spray pattern, with uniform distribution throughout the cone.

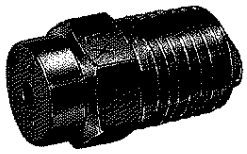
CONSTRUCTION: This nozzle contains a patented insert with larger flow passages than older styles, and is less susceptible to clogging. Standard materials are brass, 303 stainless steel and 316 stainless steel. Some models are also stocked in PVC,CPVC and polypropylene.

TYPICAL APPLICATIONS:
-Chemical Processing
-Cooling Sprays
-Foam Breaking
-Continuous casting

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

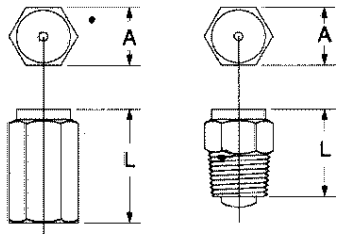
S series

full cone:One piece body + removable insert



DIMENSIONS (inches)		
NOZZLE SIZE	Dim. A	Dim. L
1/8S	7/16 HEX	13/16
1/4S	9/16 HEX	15/16
3/8S	11/16 HEX	1 1/16
1/2S	7/8 HEX	1 9/32
3/4S	1 1/16 HEX	1 9/16
3/4FS	1 3/8 HEX	2 1/16
1S	1 1/4 HEX	2 3/16
1FS	1 5/8 Diam.	2 5/8

FS:Female Connection **S**:Male Connection

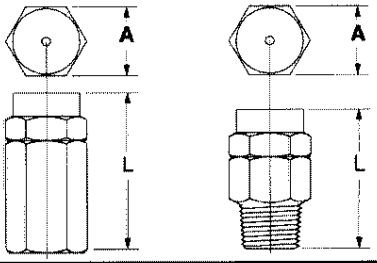


GS series

full cone:Two piece body + removable insert

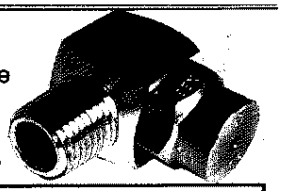
DIMENSIONS (inches)		
NOZZLE SIZE	Dim. A	Dim. L
1/8GS	5/8 HEX	1 5/16
1/4GS	11/16 HEX	1 9/16
3/8GS	13/16 HEX	1 11/16
1/2GS	1 HEX	2
1/8FGS	5/8 HEX	1 9/32
1/4FGS	11/16 HEX	1 21/32
3/8FGS	13/16 HEX	1 15/16
1/2FGS	1 HEX	2 3/32

FGS:Female Connection **GS**:Male Connection



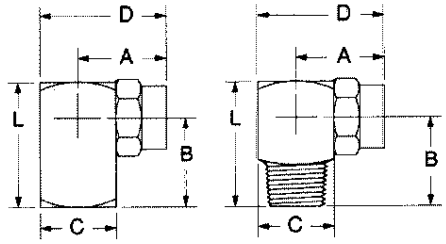
HGS series

full cone:Two piece body + removable insert. Sprays at right angle to pipe.



DIMENSIONS (inches)					
NOZZLE SIZE	Dim. A	Dim. B	Dim. C	Dim. D	Dim. L
1/8HGS	23/32	11/16	5/8 SQ	1 1/32	1
1/4HGS	29/32	1	3/4 SQ	1 9/32	1 3/8
3/8HGS	1 1/32	7/16	7/8 SQ	1 15/32	1 17/32
1/2HGS	1 3/16	1 3/8	1 SQ	1 11/16	1 7/8
1/8FHGS	21/32	11/16	1/2 SQ	29/32	31/32
1/4FHGS	29/32	1	3/4 SQ	1 9/32	1 3/8
3/8FHGS	1 1/32	1 3/32	7/8 SQ	1 15/32	1 17/32
1/2FHGS	1 3/16	1 3/8	1 SQ	1 11/16	1 7/8

FHGS:Female Conn. **HGS**:Male Conn.



'S' one piece body		'GS' two piece body		'HGS' two piece body, right angle		PIPE SIZE N.P.T.	MAXIMUM FREE PASSAGE (inches)	CAPACITY (G.P.M.)* AT VARIOUS PRESSURES (p.s.i.)												SPRAY ANGLE @		
FEMALE	MALE	FEMALE	MALE	FEMALE	MALE			3 p.s.i.	5 p.s.i.	7 p.s.i.	10 p.s.i.	15 p.s.i.	20 p.s.i.	30 p.s.i.	40 p.s.i.	60 p.s.i.	80 p.s.i.	100 p.s.i.	150 p.s.i.	7 p.s.i.	20 p.s.i.	80 p.s.i.
	1/8S1	1/8FGS1	1/8GS1	1/8FHGS1	1/8HGS1	1/8	.033	--	--	--	--	.12	.14	.17	.20	.24	.28	.32	.39	--	55°	52°
	1/8S1.5	1/8FGS1.5	1/8GS1.5	1/8FHGS1.5	1/8HGS1.5		.046	--	--	--	.15	.18	.21	.26	.30	.37	.42	.47	.58	--	65°	57°
	1/8S2	1/8FGS2	1/8GS2	1/8FHGS2	1/8HGS2		.051	--	--	.17	.20	.24	.28	.35	.40	.49	.57	.63	.77	54°	59°	60°
	1/8S3	1/8FGS3	1/8GS3	1/8FHGS3	1/8HGS3		.051	--	.21	.25	.30	.37	.42	.52	.60	.73	.85	.95	1.16	50°	53°	60°
	1/8S3.5	1/8FGS3.5	1/8GS3.5	1/8FHGS3.5	1/8HGS3.5		.051	.19	.25	.29	.35	.43	.49	.61	.70	.86	.99	1.11	1.36	48°	58°	61°
	1/8S5	1/8FGS5	1/8GS5	1/8FHGS5	1/8HGS5		.064	.27	.35	.42	.50	.61	.71	.87	1.00	1.22	1.41	1.58	1.94	60°	75°	70°
	1/8S6	1/8FGS6	1/8GS6	1/8FHGS6	1/8HGS6		.064	.33	.42	.50	.60	.73	.85	1.04	1.20	1.47	1.70	1.90	2.3	67°	72°	70°
	1/4S5					1/4	.081	.27	.35	.42	.50	.61	.71	.87	1.00	1.22	1.41	1.58	1.94	58°	68°	62°
	1/4S6.5	1/4FGS6.5	1/4GS6.5	1/4FHGS6.5	1/4HGS6.5		.091	.36	.46	.54	.65	.80	.92	1.13	1.30	1.59	1.84	2.1	2.5	48°	56°	50°
	1/4S7.5	1/4FGS7.5	1/4GS7.5	1/4FHGS7.5	1/4HGS7.5		.091	.41	.53	.63	.75	.92	1.06	1.30	1.50	1.84	2.1	2.4	2.9	55°	65°	48°
	1/4S8.5						.091	.47	.60	.71	.85	1.04	1.20	1.47	1.70	2.1	2.4	2.7	3.3	58°	65°	63°
	1/4S10	1/4FGS10	1/4GS10	1/4FHGS10	1/4HGS10		.091	.55	.71	.84	1.00	1.22	1.41	1.73	2.0	2.4	2.8	3.2	3.9	60°	65°	62°
	1/4S14						.091	.77	.99	1.17	1.40	1.71	1.98	2.4	2.8	3.4	4.0	4.4	5.4	78°	85°	75°
	3/8S9.5	3/8FGS9.5	3/8GS9.5	3/8FHGS9.5	3/8HGS9.5	3/8	.102	.52	.67	.79	.95	1.16	1.34	1.65	1.90	2.3	2.7	3.0	3.7	58°	68°	62°
	3/8S10						.102	.55	.71	.84	1.00	1.22	1.41	1.73	2.0	2.4	2.8	3.2	3.9	55°	65°	50°
	3/8S15	3/8FGS15	3/8GS15	3/8FHGS15	3/8HGS15		.102	.82	1.06	1.25	1.50	1.84	2.1	2.6	3.0	3.7	4.2	4.7	5.8	63°	65°	60°
	3/8S18						.102	.99	1.27	1.51	1.80	2.2	2.5	3.1	3.6	4.4	5.1	5.7	7.0	85°	88°	76°
	3/8S20	3/8FGS20	3/8GS20	3/8FHGS20	3/8HGS20		.102	1.10	1.41	1.67	2.0	2.4	2.8	3.5	4.0	4.9	5.7	6.3	7.7	76°	82°	75°
	3/8S22	3/8FGS22	3/8GS22	3/8FHGS22	3/8HGS22		.114	1.20	1.56	1.84	2.2	2.7	3.1	3.8	4.4	5.4	6.2	7.0	8.5	76°	78°	76°
	1/2S16	1/2FGS16	1/2GS16	1/2FHGS16	1/2HGS16	1/2	.144	.88	1.13	1.34	1.6	2.0	2.3	2.8	3.2	3.9	4.5	5.1	6.2	55°	60°	55°
	1/2S25	1/2FGS25	1/2GS25	1/2FHGS25	1/2HGS25		.144	1.37	1.77	2.1	2.5	3.1	3.5	4.3	5.0	6.1	7.1	7.9	9.7	68°	73°	65°
	1/2S32	1/2FGS32	1/2GS32	1/2FHGS32	1/2HGS32		.144	1.75	2.3	2.7	3.2	3.9	4.5	5.5	6.4	7.8	9.1	10.1	12.4	80°	90°	75°
	1/2S40	1/2FGS40	1/2GS40	1/2FHGS40	1/2HGS40		.162	2.2	2.8	3.3	4.0	4.9	5.7	6.9	8.0	9.8	11.3	12.6	15.5	86°	90°	81°
	3/4S30					3/4	.162	1.6	2.1	2.5	3.0	3.7	4.2	5.2	6.0	7.3	8.5	9.5	11.6	50°	52°	49°
3/4FS50	3/4S50						.195	2.7	3.5	4.2	5.0	6.1	7.1	8.7	10.0	12.2	14.1	15.8	19.4	65°	70°	65°
3/4FS83	3/4S83						.195	4.5	5.9	6.9	8.3	10.2	11.7	14.4	16.6	20	23	26	32	93°	97°	86°
1FS83	1S83					1	.219	4.5	5.9	6.9	8.3	10.2	11.7	14.4	16.6	20	23	26	32	71°	78°	75°
1FS106	1S106						.219	5.8	7.5	8.9	10.6	13.0	15.0	18.4	21	26	30	34	41	86°	89°	80°
1FS120	1S120						.219	6.6	8.5	10.0	12.0	14.7	17.0	21	24	29	34	38	46	80°	94°	85°
1FS142	1S142						.219	7.8	10.0	11.9	14.2	17.4	20	25	28	35	40	45	55	88°	92°	83°

*All References to G.P.M. mean U.S. G.P.M.

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