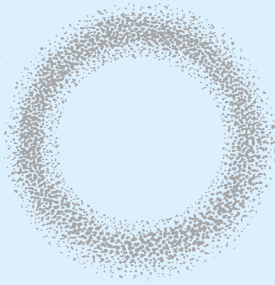


HOLLOW CONE NOZZLES

A circular ring of liquid is formed when liquid is channelled by a tangential flow path which causes swirl and atomisation into a hollow cone pattern.



Spray Footprint



Hollow Cone HAF and HCX Series



TYPICAL APPLICATIONS

- * Humidification
- * Evaporative cooling
- * Odour control
- * Gas scrubbing
- * Gas cooling
- * Insecticide spraying
- * Spray drying
- * Filter cage washing
- * Dust suppression
- * Fire protection

SPRAY CHARACTERISTICS

- * Available in 80° angle at 3 bar (angle may vary with pressure)
- * Low impact spray of fine droplets
- * Hollow cone spray pattern

CONSTRUCTION

- * All tips are fully inter changeable.
- * Tips can be assembled in a 4-piece unit design comprising of nozzle body, filter, tip and cap nut - refer to page 38 for more details.

MATERIALS

- * Standard materials are brass, Acetal and 316 stainless steel.

Hollow Cone Misting Nozzle Series



TYPICAL APPLICATIONS

- * Humidification
- * Evaporative cooling
- * Odour control
- * Dust suppression
- * Gas cooling
- * Cooling areas
- * Insecticide spraying
- * Disinfectant applications
- * Fire protection

SPRAY CHARACTERISTICS

- * Threaded version is available in 80°, 100° and 105° angle at 3 bar
- * Tip version is available in 70° to 110° angle at 3 bar
- * Very low impact spray of extremely fine droplets (VMD ca 50 µm)
- * Hollow cone spray pattern
- * Ball check version available in threaded design.

CONSTRUCTION

- * Two piece design in flanged tip or 1/8" threaded design
- * Optional push-fit porous filter manufactured in polyethylene available on request. This is designed to filter down to 50µm. Please quote part number **32195Q3269**.

MATERIAL

- * Standard material is Acetal.

Hollow Cone H Series



TYPICAL APPLICATIONS

- * Aeration
- * Cooling towers
- * Gas scrubbing
- * Degreasing
- * Dust suppression
- * Humidification
- * Roof cooling
- * Evaporative coolers
- * Metal pre-treatment
- * Brine spraying

SPRAY CHARACTERISTICS

- * Available in 70° or 110° angle at 3 bar
- * Low impact spray of fine droplets
- * Hollow cone spray pattern

CONSTRUCTION

- * Two piece design with no internal parts, hence less likely to block. The swirl chamber is designed with an evenly tapered bottom to prevent erosion from liquid.
- * Right angled spray
- * Square body for easy installation

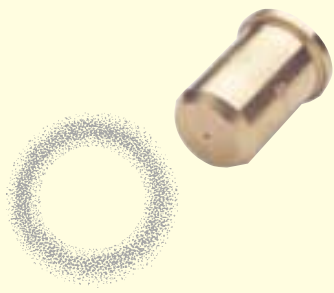
MATERIALS

- * Standard materials are brass, 316 stainless steel, PVC, polypropylene.

Refer to page 23 for flow rate chart

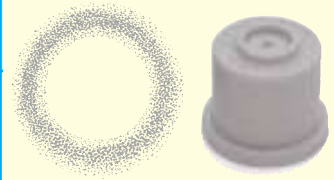
HAF AND HCX SERIES (HOLLOW CONE) - FLOW CHART

TIP REFERENCE		Flow rate (L/min) @ Pressure (bar)								
Metal	Acetal	0.50	1	2	3	4	5	7	10	
HAF 01		0.03	0.04	0.05	0.07	0.08	0.08	0.10	0.12	
HAF 015		0.04	0.06	0.08	0.10	0.11	0.13	0.15	0.18	
HAF 02	HCX2	0.05	0.08	0.11	0.13	0.15	0.17	0.20	0.24	
HAF 025		0.07	0.09	0.13	0.16	0.19	0.21	0.25	0.30	
HAF 03	HCX 3	0.08	0.11	0.16	0.20	0.23	0.25	0.30	0.36	
HAF04	HCX 4	0.11	0.15	0.21	0.26	0.30	0.34	0.40	0.48	
HAF 05	HCX 5	0.13	0.19	0.27	0.33	0.38	0.42	0.50	0.60	
HAF 06	HCX 6	0.16	0.23	0.32	0.39	0.46	0.51	0.60	0.72	
HAF 06	HCX 8	0.21	0.30	0.43	0.53	0.61	0.68	0.80	0.96	
HAF10	HCX 10	0.27	0.38	0.54	0.66	0.76	0.85	1.01	1.20	
HAF 12	HCX 12	0.32	0.46	0.64	0.79	0.91	1.02	1.21	1.44	
HAF 14		0.38	0.53	0.75	0.92	1.06	1.19	1.41	1.68	
HAF 18	HCX 18	0.48	0.68	0.97	1.18	1.37	1.53	1.81	2.16	
HAF22		0.59	0.84	1.18	1.45	1.67	1.87	2.21	2.64	
HAF 26		0.70	0.99	1.40	1.71	1.98	2.21	2.61	3.12	



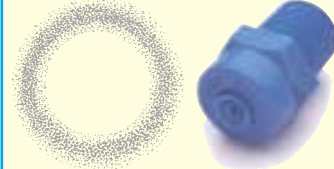
HAF MISTING NOZZLES SERIES (HOLLOW CONE) - FLOW CHART

TIP PART NO.	Colours	Flow rate (L/h) @ Pressure (bar)					Angle @ 3 bar
		3	4	5	7	10	
30HAF007-80	Light Grey	2.76	3.19	3.57	4.22	5.05	80
30HAF01-110	White	3.95	4.56	5.10	6.03	7.21	110
30HAF014-80	Mint Green	5.53	6.38	7.14	8.44	10.09	80
30HAF015-70	White	5.92	6.84	7.65	9.05	10.81	70



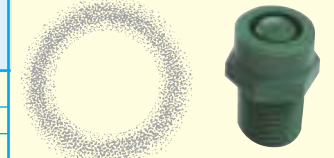
AF MISTING NOZZLES THREADED SERIES (HOLLOW CONE) - FLOW CHART

NOZZLE PART NO.	Colours	Flow rate (L/h) @ Pressure (bar)					Angle @ 7 bar
		3	4	5	7	10	
30AIAF007-80	Light Grey	2.76	3.19	3.57	4.22	5.05	80
30AIAF1.2-105C	Cream	4.74	5.47	6.12	7.24	8.65	105
30AIAF1.6-100	Royal Blue	6.32	7.29	8.16	9.65	11.53	100



HV MISTING NOZZLES THREADED HIGH PRESSURE SERIES (HOLLOW CONE) - FLOW CHART

NOZZLE PART NO.	Colours	Flow rate (L/h) @ Pressure (bar)					Angle @ 70 bar
		10	20	40	70	80	
30AIHV1-110	Red	1.44	2.04	2.88	3.81	4.08	110
30AIHV2-110	Orange	2.88	4.08	5.77	7.63	8.16	110
30AIHV3 -110	R Green	4.32	6.12	8.65	11.44	12.23	110



H SERIES NOZZLES SERIES (HOLLOW CONE) - FLOW CHART

NOZZLE REF	Thread Connection (BSP)							Flow rate (L/min) @ Pressure (bar)								Angle @ 3 bar	
	1/8"	1/4"	3/8"	1/2"	3/4"	1"	0.50	1	2	3	4	5	7	10	Std	Wide	
H1	x	x					0.16	0.23	0.33	0.40	0.46	0.52	0.61	0.73	70	-	
H2	x	x					0.33	0.46	0.65	0.80	0.92	1.03	1.22	1.46	70	110	
H4	x	x					0.65	0.92	1.31	1.60	1.85	2.07	2.44	2.92	70	110	
H6	x	x					0.98	1.39	1.96	2.40	2.77	3.10	3.67	4.38	70	110	
H10	x	x					1.63	2.31	3.27	4.00	4.62	5.16	6.11	7.30	70	110	
H15	x	x	x				2.45	3.46	4.90	6.00	6.93	7.75	9.17	10.95	70	110	
H20			x				3.27	4.62	6.53	8.00	9.24	10.33	12.22	14.61	70	110	
H25			x				4.08	5.77	8.16	10.00	11.55	12.91	15.28	18.26	70	110	
H30			x	x			4.90	6.93	9.80	12.00	13.86	15.49	18.33	21.91	70	110	
H40			x	x			6.53	9.24	13.06	16.00	18.48	20.66	24.44	29.21	70	110	
H50				x			8.16	11.55	16.33	20.00	23.09	25.82	30.55	36.51	70	110	
H80				x			13.06	18.48	26.13	32.00	36.95	41.31	48.88	58.42	70	110	
H100				x	x		16.33	23.09	32.66	40.00	46.19	51.64	61.10	73.03	70	110	
H150					x	x	24.49	34.64	48.99	60.00	69.28	77.46	91.65	109.54	70	110	
H200					x	x	32.66	46.19	65.32	80.00	92.38	103.28	122.20	146.06	70	110	
H250						x	40.82	57.74	81.65	100.00	115.47	129.10	152.75	182.57	70	110	
H300						x	48.99	69.28	97.98	120.00	138.56	154.92	183.30	219.09	70	110	

