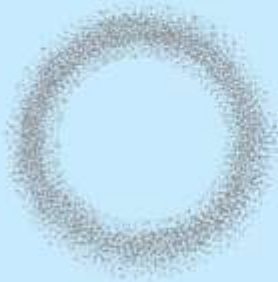


HOLLOW CONE NOZZLES

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

- * HCX has 80° angle at 3 bar (angle may vary with pressure)
- * HAF available in 70° to 110° angle at 3 bar
- * Low impact spray of fine droplets
- * Hollow cone spray pattern

CONSTRUCTION

- * All tips are flanged and fully interchangeable.
- * 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 AF and HV Misting Nozzle Series



TYPICAL APPLICATIONS

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

SPRAY CHARACTERISTICS

- * Medium pressure threaded AF available in 80°, 100°, 105° angles at 3 bar AF. Push fit version available in 80° and 105° angles
- * High pressure HV available in 110° angle
- * 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 with 1/8" NPT thread
- * AF Push Fit option has 3/8" spigot, anti-drip check valve and 200# filter, easily fitted into 3/8" push-in fittings (see Tee holder, page 11). Blanking nozzles also available.
- * Optional push-fit porous filter manufactured in polyethylene available on request - filters 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	
30AF007-80	Light Grey	2.76	3.19	3.57	4.22	5.05	80
30AF1 2-105C	Cream	4.74	5.47	6.12	7.24	8.65	105
30AF1 6-100	Royal blue	6.32	7.29	8.16	9.65	11.53	100




AF PUSH FIT MISTING NOZZLES (HOLLOW CONE) - FLOW CHART

NOZZLE REFERENCE	Description	Spray Angle	Connection	Flow at 6.9 bar	Colour
30PFAF008-80	Push Fit AF 08 80 degree white	80°	9.4 mm spigot to suit 1/4"	90 ml / min	white
30PFAF008-80BL	Push Fit AF 08 80 degree black	80°		90 ml / min	black
LU30PFAF013-105	Push Fit AF 013 105 degree white	105°	Push Fit fitting	126 ml / min	white
LU30PFAF013B105	Push Fit AF 013 105 degree black	105°		126 ml / min	black
LU30Q3107	Push Fit blanking nozzle white	n/a		n/a	white
LU30Q3107K1	Push Fit blanking nozzle black	n/a		n/a	black
03NCR69	Push Fit T nozzle holder 15 mm	n/a	1/4" pneu fitting	n/a	black



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	x			40.82	57.74	81.65	100.00	115.47	129.10	152.75	182.57	70	110
H300			x	x			48.99	69.28	97.98	120.00	138.56	154.92	183.30	219.09	70	110

