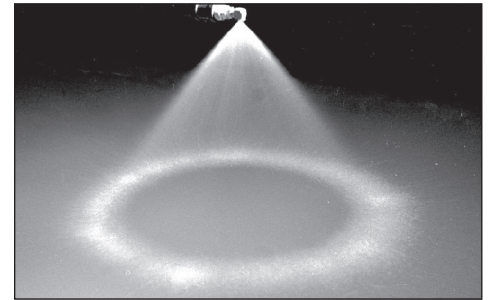
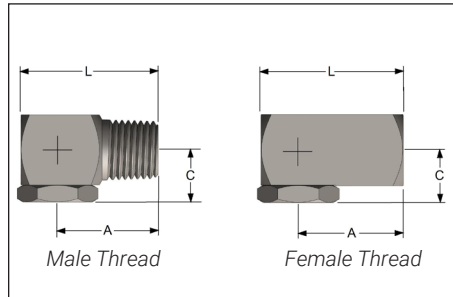




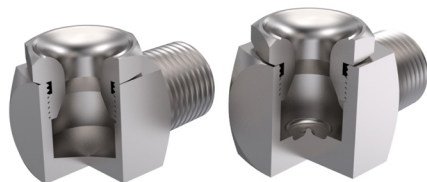
HB SERIES SPRAY NOZZLES

HOLLOW CONE • THREADED CONNECTION



SPRAY CHARACTERISTICS:

A hollow cone spray pattern emerging at right angles to the centerline of the pipe connection. Identical to the BEX H series, but features a thicker wall behind the swirl vane. Ideal for higher pressure applications where the interior of the nozzle has potential to wear. The standard included angle of the spray cone is 70° at 10 p.s.i. At low pressures hollow cone nozzles produce medium size, uniform droplets. At higher pressures finer droplets are produced.

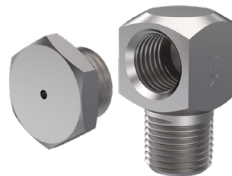


H Series

HB Series

CONSTRUCTION:

The models listed are machined from bar stock, and are two piece construction.



TYPICAL APPLICATIONS:

- Water Cooling
- Roof Cooling
- Air Cooling
- Air Washing

Female Size	Dim 'A'	Dim 'C'	Dim 'L'	Male Size	Dim 'A'	Dim 'C'	Dim 'L'
1/8FHB	11/16	3/8	1	1/8HB	11/16	3/8	1
1/4FHB	15/16	1/2	1 1/4	1/4HB	15/16	1/2	1 1/4
3/8FHB	1	9/16	1 3/8	3/8HB	1	9/16	1 1/2
1/2FHB	1 3/8	3/4	1 7/8	1/2HB	1 3/8	3/4	1 7/8
3/4FHB	1 9/16	7/8	2 1/4	3/4HB	1 5/8	7/8	2 1/4

All dimensions are in inches

Model		Max. Free Passage	Capacities at Various Pressures												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	10 psi	20 psi	40 psi	80 psi	
1/8FHB0.5	1/8HB0.5	0.028	0.027	0.035	0.042	0.050	0.061	0.071	0.087	0.100	0.122	0.141	0.158	--	--	40	45	
1/8FHB1	1/8HB1	0.053	0.055	0.071	0.084	0.100	0.122	0.141	0.173	0.200	0.245	0.283	0.32	--	60	74	75	
1/8FHB2	1/8HB2	0.086	0.110	0.141	0.167	0.200	0.245	0.283	0.35	0.40	0.49	0.57	0.63	--	65	72	76	
1/8FHB3	1/8HB3	0.098	0.164	0.212	0.251	0.300	0.37	0.42	0.52	0.60	0.73	0.85	0.95	65	76	80	83	
1/8FHB5	1/8HB5	0.128	0.274	0.35	0.42	0.50	0.61	0.71	0.87	1.00	1.22	1.41	1.58	70	77	80	81	
1/8FHB7.5	1/8HB7.5	0.153	0.41	0.53	0.63	0.75	0.92	1.06	1.30	1.50	1.84	2.12	2.37	70	86	94	94	
1/8FHB10	1/8HB10	0.171	0.55	0.71	0.84	1.00	1.22	1.41	1.73	2.00	2.45	2.83	3.2	70	71	73	75	
1/4FHB1	1/4HB1	0.060	0.055	0.071	0.084	0.100	0.122	0.141	0.173	0.200	0.245	0.283	0.32	--	61	74	69	
1/4FHB2	1/4HB2	0.085	0.110	0.141	0.167	0.200	0.245	0.283	0.35	0.40	0.49	0.57	0.63	70	75	83	85	
1/4FHB3	1/4HB3	0.111	0.164	0.212	0.251	0.300	0.37	0.42	0.52	0.60	0.73	0.85	0.95	70	70	72	74	
1/4FHB5	1/4HB5	0.136	0.274	0.35	0.42	0.50	0.61	0.71	0.87	1.00	1.22	1.41	1.58	70	77	80	83	
1/4FHB7.5	1/4HB7.5	0.166	0.41	0.53	0.63	0.75	0.92	1.06	1.30	1.50	1.84	2.12	2.37	70	70	74	75	
1/4FHB10	1/4HB10	0.170	0.55	0.71	0.84	1.00	1.22	1.41	1.73	2.00	2.45	2.83	3.2	70	74	76	80	



Model		Max. Free Passage	Capacities at Various Pressures												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	10 psi	20 psi	40 psi	80 psi	
1/4FHB12.5	1/4HB12.5	0.177	0.68	0.88	1.05	1.25	1.53	1.77	2.17	2.50	3.06	3.5	4.0	70	82	83	83	
1/4FHB15	1/4HB15	0.213	0.82	1.06	1.26	1.50	1.84	2.12	2.60	3.00	3.7	4.2	4.7	70	75	75	75	
3/8FHB5	3/8HB5	0.136	0.274	0.35	0.42	0.50	0.61	0.71	0.87	1.00	1.22	1.41	1.58	70	74	76	76	
3/8FHB7.5	3/8HB7.5	0.164	0.41	0.53	0.63	0.75	0.92	1.06	1.30	1.50	1.84	2.12	2.37	70	74	78	82	
3/8FHB10	3/8HB10	0.194	0.55	0.71	0.84	1.00	1.22	1.41	1.73	2.00	2.45	2.83	3.2	70	78	80	81	
3/8FHB12.5	3/8HB12.5	0.205	0.68	0.88	1.05	1.25	1.53	1.77	2.17	2.50	3.06	3.5	4.0	70	80	82	84	
3/8FHB15	3/8HB15	0.232	0.82	1.06	1.26	1.50	1.84	2.12	2.60	3.00	3.7	4.2	4.7	70	73	75	75	
3/8FHB20	3/8HB20	0.250	1.10	1.41	1.67	2.00	2.45	2.83	3.5	4.0	4.9	5.7	6.3	70	73	75	75	
3/8FHB25	3/8HB25	0.279	1.37	1.77	2.09	2.50	3.06	3.5	4.3	5.0	6.1	7.1	7.9	70	72	73	73	
3/8FHB30	3/8HB30	0.292	1.64	2.12	2.51	3.00	3.7	4.2	5.2	6.0	7.3	8.5	9.5	70	70	73	72	
1/2FHB25	1/2HB25	0.295	1.37	1.77	2.09	2.50	3.06	3.5	4.3	5.0	6.1	7.1	7.9	70	75	76	76	
1/2FHB30	1/2HB30	0.329	1.64	2.12	2.51	3.00	3.7	4.2	5.2	6.0	7.3	8.5	9.5	70	78	80	81	
1/2FHB40	1/2HB40	0.369	2.19	2.83	3.3	4.0	4.9	5.7	6.9	8.0	9.8	11.3	12.6	70	75	75	75	
1/2FHB50	1/2HB50	0.393	2.74	3.5	4.2	5.0	6.1	7.1	8.7	10.0	12.2	14.1	15.8	70	70	71	73	
1/2FHB60	1/2HB60	0.421	3.3	4.2	5.0	6.0	7.3	8.5	10.4	12.0	14.7	17.0	19.0	70	70	71	71	
3/4FHB40	3/4HB40	0.368	2.19	2.83	3.3	4.0	4.9	5.7	6.9	8.0	9.8	11.3	12.6	70	71	76	79	
3/4FHB50	3/4HB50	0.421	2.74	3.5	4.2	5.0	6.1	7.1	8.7	10.0	12.2	14.1	15.8	70	73	74	74	
3/4FHB60	3/4HB60	0.438	3.3	4.2	5.0	6.0	7.3	8.5	10.4	12.0	14.7	17.0	19.0	70	75	78	80	
3/4FHB70	3/4HB70	0.469	3.8	4.9	5.9	7.0	8.6	9.9	12.1	14.0	17.1	19.8	22.1	70	74	76	76	
3/4FHB80	3/4HB80	0.484	4.4	5.7	6.7	8.0	9.8	11.3	13.9	16.0	19.6	22.6	25.3	70	73	75	76	
3/4FHB90	3/4HB90	0.500	4.9	6.4	7.5	9.0	11.0	12.7	15.6	18.0	22.0	25.5	28.5	70	70	71	73	
3/4FHB100	3/4HB100	0.507	5.5	7.1	8.4	10.0	12.2	14.1	17.3	20.0	24.5	28.3	32	70	73	76	78	
3/4FHB110	3/4HB110	0.575	6.0	7.8	9.2	11.0	13.5	15.6	19.1	22.0	26.9	31.1	35	70	72	75	72	
3/4FHB120	3/4HB120	0.568	0.027	8.5	10.0	12.0	14.7	17.0	20.8	24.0	29.4	34	38	70	70	71	71	