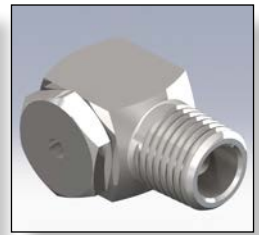
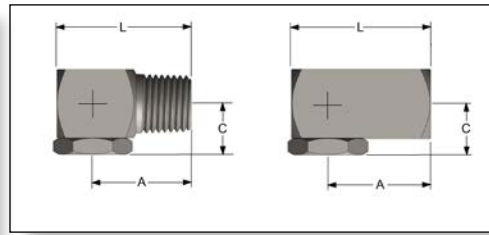
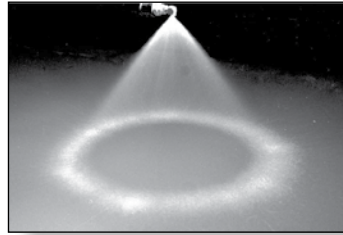




HB SERIES NOZZLE SPECIFICATIONS



MALE MODEL	Dim. A	Dim. C	Dim. L	FEMALE MODEL	Dim. A	Dim. C	Dim. L
1/8 HB	11/16	3/8	1	1/8 FHB	11/16	3/8	1
1/4 HB	15/16	1/2	1 1/4	1/4 FHB	15/16	1/2	1 1/4
3/8 HB	1	9/16	1 3/8	3/8 FHB	1	9/16	1 1/2
1/2 HB	1 3/8	3/4	1 7/8	1/2 FHB	1 3/8	3/4	1 7/8
3/4 HB	1 9/16	7/8	2 1/4	3/4 FHB	1 5/8	7/8	2 1/4

SPRAY CHARACTERISTICS:

A hollow cone spray pattern, emerging at right angles to the centerline of the pipe connection. 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.

CONSTRUCTION:

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

are brass, 303 stainless steel and 316 stainless steel. Some models available in other materials.

TYPICAL APPLICATIONS:

The applications are similar to those of the BEX H hollow cone nozzles, but the internal passages are modified to increase nozzle life expectancy with more abrasive liquids.



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	10 psi	20 psi	40 psi	80 psi
1/8 HB0.5	1/8 FHB0.5	0.028	0.03	0.04	0.04	0.05	0.06	0.07	0.09	0.10	0.12	0.14	0.16	--	--	40	45
1/8 HB1	1/8 FHB1	0.053	0.06	0.07	0.08	0.10	0.12	0.14	0.17	0.20	0.25	0.28	0.32	--	60	74	75
1/8 HB2	1/8 FHB2	0.086	0.11	0.14	0.17	0.20	0.25	0.28	0.35	0.40	0.49	0.57	0.63	--	65	72	76
1/8 HB3	1/8 FHB3	0.098	0.16	0.21	0.25	0.30	0.37	0.42	0.52	0.60	0.73	0.85	0.95	65	76	80	83
1/8 HB5	1/8 FHB5	0.128	0.27	0.35	0.42	0.50	0.61	0.71	0.87	1.00	1.22	1.41	1.58	70	77	80	81
1/8 HB7.5	1/8 FHB7.5	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
1/8 HB10	1/8 FHB10	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
1/4 HB1	1/4 FHB1	0.060	0.06	0.07	0.08	0.10	0.12	0.14	0.17	0.20	0.25	0.28	0.32	--	61	74	69
1/4 HB2	1/4 FHB2	0.085	0.11	0.14	0.17	0.20	0.25	0.28	0.35	0.40	0.49	0.57	0.63	70	75	83	85
1/4 HB3	1/4 FHB3	0.111	0.16	0.21	0.25	0.30	0.37	0.42	0.52	0.60	0.73	0.85	0.95	70	70	72	74
1/4 HB5	1/4 FHB5	0.136	0.27	0.35	0.42	0.50	0.61	0.71	0.87	1.00	1.22	1.41	1.58	70	77	80	83
1/4 HB7.5	1/4 FHB7.5	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
1/4 HB10	1/4 FHB10	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
1/4 HB12.5	1/4 FHB12.5	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
1/4 HB15	1/4 FHB15	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
3/8 HB5	3/8 FHB5	0.136	0.27	0.35	0.42	0.50	0.61	0.71	0.87	1.00	1.22	1.41	1.58	70	74	76	76
3/8 HB7.5	3/8 FHB7.5	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
3/8 HB10	3/8 FHB10	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
3/8 HB12.5	3/8 FHB12.5	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
3/8 HB15	3/8 FHB15	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
3/8 HB20	3/8 FHB20	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
3/8 HB25	3/8 FHB25	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
3/8 HB30	3/8 FHB30	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
1/2 HB25	1/2 FHB25	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
1/2 HB30	1/2 FHB30	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
1/2 HB40	1/2 FHB40	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
1/2 HB50	1/2 FHB50	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
1/2 HB60	1/2 FHB60	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
3/4 HB40	3/4 FHB40	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
3/4 HB50	3/4 FHB50	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
3/4 HB60	3/4 FHB60	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
3/4 HB70	3/4 FHB70	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
3/4 HB80	3/4 FHB80	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
3/4 HB90	3/4 FHB90	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
3/4 HB100	3/4 FHB100	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
3/4 HB110	3/4 FHB110	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
3/4 HB120	3/4 FHB120	0.568	6.6	8.5	10.0	12.0	14.7	17.0	20.8	24.0	29.4	34	38	70	70	71	71