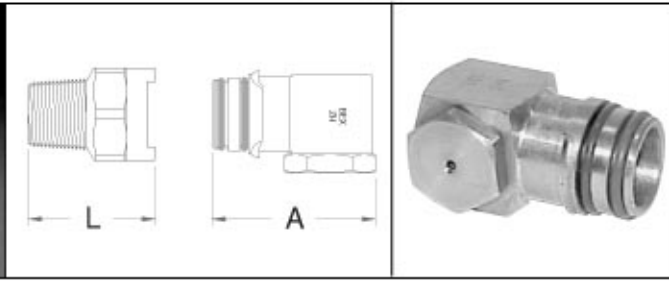
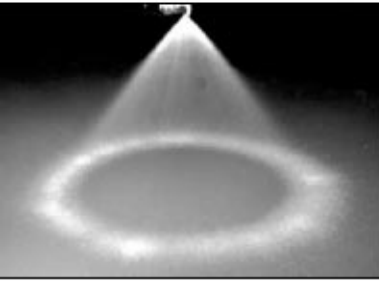


# ZH SERIES

## Hollow cone spray nozzles



### DIMENSIONS

NOZZLE BSPT PIPE SIZE	Length L (mm)	Dim. A (mm)
1/8"ZH	54	34
1/4"ZH	56	34
3/8"ZH	57	34
1/2"ZH	59	34

### 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 0.7 bar. 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. Please see page 40 for body styles and adapters.

### TYPICAL APPLICATIONS:

- Air and Gas Washing
- Aerating, Rinsing and Humidifying
- Industrial Washers and Spray Ponds
- Cooling Tunnels
- Roof Cooling
- Degreasing
- Dust Suppression
- Metal Treatment

MODEL NUMBER		MAXIMUM FREE PASSAGE (mm)	CAPACITY (L/min) AT VARIOUS PRESSURES (bar)											SPRAY ANGLE @			
			0.3 bar	0.5 bar	0.7 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	5 bar	6 bar	8 bar	0.7 bar	1.5 bar	3 bar	6 bar
ZH	ZLH	0.71	--	--	--	--	--	0.32	0.39	0.46	0.51	0.56	0.64	--	--	40°	45°
		1.35	--	--	--	0.46	0.56	0.64	0.79	0.91	1.02	1.12	1.29	--	61°	74°	69°
		2.18	--	--	--	0.91	1.12	1.29	1.58	1.82	2.03	2.23	2.58	70°	75°	83°	85°
		2.49	--	0.97	1.14	1.37	1.67	1.93	2.37	2.73	3.05	3.3	3.9	70°	70°	72°	74°
		3.25	1.25	1.61	1.91	2.28	2.79	3.2	3.9	4.6	5.14	5.6	6.4	70°	77°	80°	83°
		3.89	1.87	2.42	2.86	3.4	4.2	4.8	5.9	6.8	7.60	8.4	9.7	70°	70°	74°	75°
		4.34	2.50	3.2	3.8	4.6	5.6	6.4	7.9	9.1	10.1	11.2	12.9	70°	74°	76°	80°
		5.21	3.12	4.0	4.8	5.7	7.0	8.1	9.9	11.4	12.7	14.0	16.1	70°	82°	83°	83°
		5.89	3.7	4.8	5.7	6.8	8.4	9.7	11.8	13.7	15.3	16.7	19.3	70°	73°	75°	75°
		6.35	5.0	6.4	7.6	9.1	11.2	12.9	15.8	18.2	20.3	22.3	25.8	70°	73°	75°	75°
		7.09	6.2	8.1	9.5	11.4	14.0	16.1	19.7	22.8	25.5	27.9	32	70°	72°	73°	73°
		7.42	7.5	9.7	11.4	13.7	16.7	19.3	23.7	27.3	30.5	33	39	70°	70°	73°	72°
	ZLH40	9.35	10.0	12.9	15.3	18.2	22.3	25.8	32	36	40.2	45	52	70°	75°	75°	75°
	ZLH50	10.69	12.5	16.1	19.1	22.8	27.9	32	39	46	51.4	56	64	70°	70°	71°	73°
	ZLH60	11.13	15.0	19.3	22.9	27.3	33	39	47	55	61.5	67	77	70°	70°	71°	71°
	ZLH70	11.91	17.5	22.6	26.7	32	39	45	55	64	71.6	78	90	70°	74°	76°	76°
	ZLH80	12.29	20.0	25.8	30.5	36	45	52	63	73	81.6	89	103	70°	73°	75°	76°
	ZLH90	12.70	22.5	29.0	34	41	50	58	71	82	91.7	100	116	70°	70°	71°	73°
	ZLH100	12.88	25.0	32	38	46	56	64	79	91	101	112	129	70°	73°	76°	78°
	ZLH110	14.61	27.5	35	42	50	61	71	87	100	111	123	142	70°	72°	75°	72°
	ZLH120	14.43	30	39	46	55	67	77	95	109	122	134	155	70°	70°	71°	71°

"--" means not recommended at this pressure.

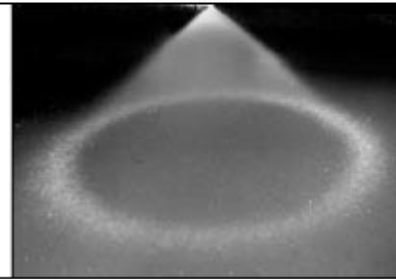
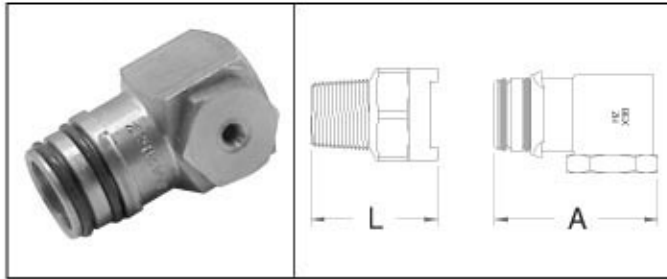
QUICK DISCONNECT

# Wide angle hollow cone spray nozzles

# ZHW SERIES

## DIMENSIONS

NOZZLE BSPT PIPE SIZE	Length L (mm)	Dim. A (mm)
1/8"ZHW	54	34
1/4"ZHW	56	34
3/8"ZHW	57	34
1/2"ZHW	59	34



## TYPICAL APPLICATIONS:

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

## SPRAY CHARACTERISTICS:

A hollow cone spray pattern, similar to the BEX H series, but with wider spray angles. The included angle of the spray cone is 120° at 0.7 bar.

## 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 are also available in other materials. Please see page 40 for body styles and adapters.

MODEL NUMBER		MAXIMUM FREE PASSAGE (mm)	CAPACITY (L/min) AT VARIOUS PRESSURE (bar)											SPRAY ANGLE @				
			0.3 bar	0.5 bar	0.7 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	5 bar	6 bar	8 bar	0.7 bar	1.5 bar	3 bar	6 bar	
ZHW	ZLHW																	
ZH1W		1.40	--	--	--	0.46	0.56	0.64	0.79	0.91	1.02	1.12	1.29	120°	110°	102°	90°	
ZH2W		1.96	--	0.64	0.76	0.91	1.12	1.29	1.58	1.82	2.04	2.23	2.58	120°	110°	105°	92°	
ZH3W		2.36	--	0.97	1.14	1.37	1.67	1.93	2.37	2.73	3.06	3.3	3.9	120°	114°	104°	90°	
ZH5W		2.77	--	1.61	1.91	2.28	2.79	3.2	3.9	4.6	5.1	5.6	6.4	120°	113°	107°	98°	
ZH7.5W		4.01	1.87	2.42	2.86	3.4	4.2	4.8	5.9	6.8	7.6	8.4	9.7	120°	115°	110°	92°	
ZH10W		4.32	2.50	3.2	3.8	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.9	120°	115°	110°	93°	
ZH12.5W		4.78	3.12	4.0	4.8	5.7	7.0	8.1	9.9	11.4	12.7	14.0	16.1	120°	118°	110°	94°	
ZH15W		5.11	3.7	4.8	5.7	6.8	8.4	9.7	11.8	13.7	15.3	16.7	19.3	120°	115°	108°	92°	
ZH20W		5.94	5.0	6.4	7.6	9.1	11.2	12.9	15.8	18.2	20.4	22.3	25.8	120°	118°	116°	110°	
ZH25W		6.73	6.2	8.1	9.5	11.4	14.0	16.1	19.7	22.8	25.5	27.9	32	120°	117°	115°	110°	
ZH30W		7.11	7.5	9.7	11.4	13.7	16.7	19.3	23.7	27.3	30.6	33	39	120°	115°	110°	102°	
	ZLH50W	9.09	12.5	16.1	19.1	22.8	27.9	32	39	46	51	56	64	120°	115°	108°	103°	
	ZLH80W	11.89	20.0	25.8	30.5	36	45	52	63	73	82	89	103	120°	117°	110°	103°	