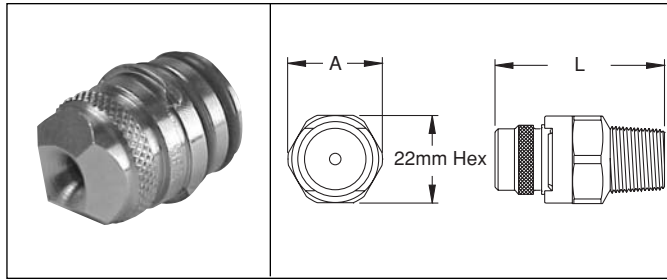


Wide angle full square spray nozzles **ZSWSQ SERIES**

DIMENSIONS

NOZZLE BSPT PIPE SIZE	Length L (mm)	Dim. A (mm)
1/8 ZSWSQ	41	25 HEX
1/4 ZSWSQ	43	25 HEX
3/8 ZSWSQ	44	25 HEX
1/2 ZSWSQ	46	25 HEX
3/8 ZLSWSQ	54	32 HEX
1/2 ZLSWSQ	56	32 HEX



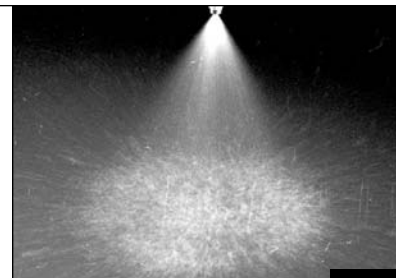
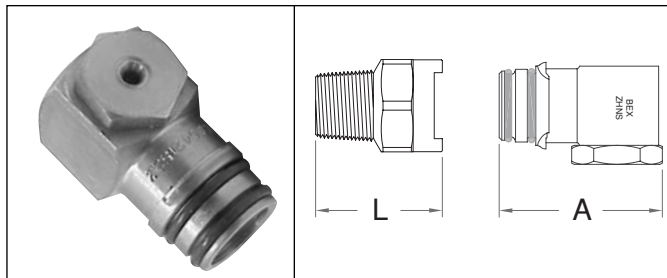
See page 25 for spray characteristics, construction and typical applications.

'ZSWSQ' one piece tip	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	0.5 bar	1.5 bar	5 bar	
ZS14WSQ	2.31	3.5	4.5	5.3	6.4	7.8	9.0	11.1	12.8	14.3	15.6	18.0	102°	98°	84°	
ZS17WSQ	2.59	4.2	5.5	6.5	7.7	9.5	11.0	13.4	15.5	17.3	19.0	21.9	50°	94°	82°	
ZS20WSQ	2.59	5.0	6.4	7.6	9.1	11.2	12.9	15.8	18.2	20.4	22.3	25.8	60°	102°	86°	
ZS24WSQ	2.59	6.0	7.7	9.2	10.9	13.4	15.5	18.9	21.9	24.5	26.8	30.9	104°	102°	86°	
ZS27WSQ	2.59	6.7	8.7	10.3	12.3	15.1	17.4	21.3	24.6	27.5	30.1	35	104°	102°	87°	
ZLS30WSQ	3.66	7.5	9.7	11.4	13.7	16.7	19.3	23.7	27.3	30.6	33	39	100°	96°	85°	
ZLS35WSQ	3.66	8.7	11.3	13.3	16.0	19.5	22.6	27.6	32	36	39	45	104°	99°	88°	
ZLS40WSQ	4.11	10.0	12.9	15.3	18.2	22.3	25.8	32	36	41	45	52	106°	104°	90°	
ZLS45WSQ	4.11	11.2	14.5	17.2	20.5	25.1	29.0	36	41	46	50	58	106°	104°	94°	
ZLS50WSQ	4.95	12.5	16.1	19.1	22.8	27.9	32	39	46	51	56	64	108°	102°	97°	
ZLS71WSQ	4.95	17.7	22.9	27.1	32	40	46	56	65	72	79	92	99°	102°	93°	

Vaneless full cone spray nozzles **ZHNS SERIES**

DIMENSIONS

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



See page 26 for spray characteristics, construction and typical applications.

MODEL NUMBER	MAXIMUM FREE PASSAGE (mm)	CAPACITY (L/min) AT VARIOUS PRESSURES (bar)										
		0.3 bar	0.5 bar	0.7 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar
ZHNS5	1.98	1.25	1.61	1.91	2.28	2.79	3.2	3.9	4.6	5.1	5.6	6.0
ZHNS7	2.39	1.75	2.26	2.67	3.2	3.9	4.5	5.5	6.4	7.1	7.8	8.4
ZHNS8	2.77	2.00	2.58	3.05	3.6	4.5	5.2	6.3	7.3	8.2	8.9	9.6
ZHNS10	3.18	2.50	3.2	3.8	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.1
ZHNS11	3.58	2.75	3.5	4.2	5.0	6.1	7.1	8.7	10.0	11.2	12.3	13.3
ZHNS11	3.18	2.75	3.5	4.2	5.0	6.1	7.1	8.7	10.0	11.2	12.3	13.3
ZHNS13	3.58	3.2	4.2	5.0	5.9	7.3	8.4	10.3	11.9	13.2	14.5	15.7
ZHNS16	3.96	4.0	5.2	6.1	7.3	8.9	10.3	12.6	14.6	16.3	17.9	19.3
ZHNS20	4.37	5.0	6.4	7.6	9.1	11.2	12.9	15.8	18.2	20.4	22.3	24.1
ZHNS23	4.78	5.7	7.4	8.8	10.5	12.8	14.8	18.2	21.0	23.4	25.7	27.7
ZHNS26	5.16	6.5	8.4	9.9	11.9	14.5	16.8	20.5	23.7	26.5	29.0	31
ZHNS29	5.56	7.2	9.3	11.1	13.2	16.2	18.7	22.9	26.4	29.6	32	35
ZHNS33	5.94	8.2	10.6	12.6	15.0	18.4	21.3	26.1	30.1	34	37	40
ZLHNS32	5.16	8.0	10.3	12.2	14.6	17.9	20.6	25.3	29.2	33	36	39
ZLHNS40	5.94	10.0	12.9	15.3	18.2	22.3	25.8	32	36	41	45	48
ZLHNS48	7.14	12.0	15.5	18.3	21.9	26.8	30.9	38	44	49	54	58
ZLHNS56	7.54	14.0	18.0	21.4	25.5	31.3	36	44	51	57	63	68
ZLHNS64	8.33	16.0	20.6	24.4	29.2	36	41	51	58	65	71	77
ZLHNS72	9.12	18.0	23.2	27.5	33	40	46	57	66	73	80	87

See pages 2, 3 and 4 for engineering data and spray coverage.

QUICK DISCONNECT