



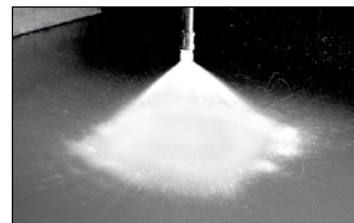
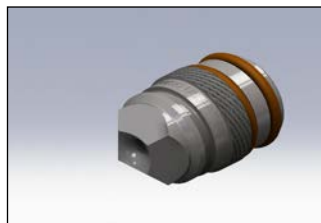
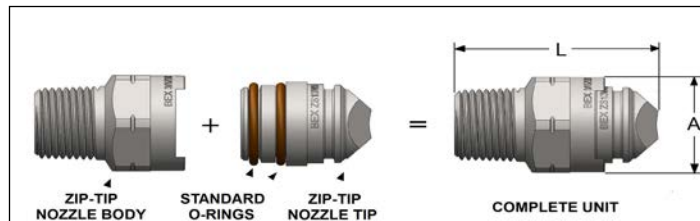
ZWSQ SPRAY NOZZLE SPECIFICATIONS



ZIP-TIP NOZZLE INSTALLATION & REMOVAL

- NO TOOLS REQUIRED for ZIP-TIP nozzle tip installation or removal
- POSITIVE ALIGNMENT of spray pattern
- "Light-lock" feature allows for easy removal
- Seals located on and removed with nozzle tip for easy flushing

NOZZLE NPT PIPE SIZE	Length L (in)	Dim. A (in)
1/8"ZSW	1.60	0.97
1/4"ZSW	1.70	0.97
3/8"ZSW	1.73	0.97
1/2"ZSW	1.80	0.97
1/2"ZLSW	2.11	1.25
3/4"ZLSW	2.19	1.25



SPRAY CHARACTERISTICS:

Full cone wide angle, square spray pattern, with uniform distribution throughout the cone.

CONSTRUCTION:

The tip models listed are machined from bar stock and are of two piece construction. The tip also contains a patented insert with larger flow passages than older styles, and is less susceptible to clogging. Standard materials are brass, 303 stainless steel and 316 stainless steel. All bodies are available in either NPT or BSPT threads.

TYPICAL APPLICATIONS:

- Chemical Processing
 - Cooling Sprays
 - Foam Breaking
 - Continuous Casting
- U.S. Patent No. 4,142,682
Canadian Patent No. 1,050,589

Model		Max. Free Passage (in)	CAPACITY AT VARIOUS PRESSURES (USGPM)												SPRAY ANGLE @ (degrees)		
ZWSQ Model	ZLSWSQ Model		3 psi	5 psi	7 psi	10 psi	15 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	150 psi	7 psi	20 psi	80 psi
ZS14WSQ		0.091	0.06	0.99	1.17	1.40	1.71	1.98	2.42	2.80	3.4	4.0	4.4	5.4	102	98	84
ZS17WSQ		0.102	0.15	1.20	1.42	1.70	2.08	2.40	2.94	3.4	4.2	4.8	5.4	6.6	50	94	82
ZS20WSQ		0.102	0.31	1.41	1.67	2.00	2.45	2.83	3.5	4.0	4.9	5.7	6.3	7.7	60	102	86
ZS24WSQ		0.102	0.61	1.70	2.01	2.40	2.94	3.4	4.2	4.8	5.9	6.8	7.6	9.3	104	102	86
ZS27WSQ		0.102	0.19	1.91	2.26	2.70	3.3	3.8	4.7	5.4	6.6	7.6	8.5	10.5	104	102	87
	ZLS30WSQ	0.144	0.27	2.12	2.51	3.00	3.7	4.2	5.2	6.0	7.3	8.5	9.5	11.6	100	96	85
	ZLS35WSQ	0.144	0.27	2.47	2.93	3.5	4.3	4.9	6.1	7.0	8.6	9.9	11.1	13.6	104	99	88
	ZLS40WSQ	0.162	0.33	2.83	3.3	4.0	4.9	5.7	6.9	8.0	9.8	11.3	12.6	15.5	106	104	90
	ZLS45WSQ	0.162	0.36	3.2	3.8	4.5	5.5	6.4	7.8	9.0	11.0	12.7	14.2	17.4	106	104	94
	ZLS50WSQ	0.195	0.41	3.5	4.2	5.0	6.1	7.1	8.7	10.0	12.2	14.1	15.8	19.4	108	102	97