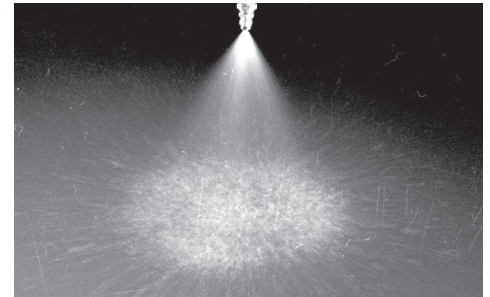
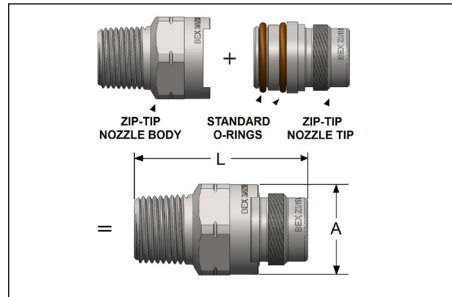
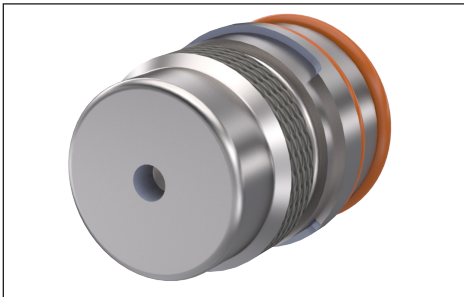




ZS SPRAY NOZZLE SPECIFICATIONS

FULL CONE • ZIP-TIP CONNECTION • ONE-PIECE CONSTRUCTION



SPRAY CHARACTERISTICS:

Full cone spray pattern, with uniform distribution throughout the cone.

TYPICAL APPLICATIONS:

- Chemical Processing
- Cooling Sprays
- Foam Breaking
- Continuous Casting

U.S. Patent No. 4, 142, 682

Canadian Patent No. 1, 050, 589

CONSTRUCTION:

The nozzle 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. Some models are also stocked in PVC, CPVC and polypropylene.

NOZZLE PIPE SIZE	Length 'L' (in)	Dim. 'A' (in)
1/8ZS	1.60	0.97
1/4ZS	1.70	0.97
3/8ZS	1.73	0.97
1/2ZS	1.80	0.97
1/2ZLS	2.11	1.25
3/4ZLS	2.19	1.25

Model ID	Capacity											Spray Angle		
	0.3 bar	0.5 bar	0.7 bar	1.0 bar	1.5 bar	2 bar	3 bar	4 bar	5 bar	6 bar	8 bar	0.5 bar	1.5 bar	5 bar
ZS1	0.250	0.32	0.38	0.46	0.56	0.64	0.79	0.91	1.02	1.12	1.29	--	55	52
ZS1.5	0.37	0.48	0.57	0.68	0.84	0.97	1.18	1.37	1.53	1.67	1.93	--	65	57
ZS2	0.50	0.64	0.76	0.91	1.12	1.29	1.58	1.82	2.04	2.23	2.58	54	59	60
ZS3	0.75	0.97	1.14	1.37	1.67	1.93	2.37	2.73	3.06	3.3	3.9	50	53	60
ZS3.5	0.87	1.13	1.33	1.60	1.95	2.26	2.76	3.2	3.6	3.9	4.5	48	58	61
ZS5	1.25	1.61	1.91	2.28	2.79	3.2	3.9	4.6	5.1	5.6	6.4	60	75	70
ZS6	1.50	1.93	2.29	2.73	3.3	3.9	4.7	5.5	6.1	6.7	7.7	67	72	70
ZS6.5	1.62	2.09	2.48	2.96	3.6	4.2	5.1	5.9	6.6	7.3	8.4	48	56	70
ZS7.5	1.87	2.42	2.86	3.4	4.2	4.8	5.9	6.8	7.6	8.4	9.7	55	65	48
ZS8.5	2.12	2.74	3.2	3.9	4.7	5.5	6.7	7.7	8.7	9.5	11.0	58	65	63
ZS10	2.50	3.2	3.8	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.9	60	65	62
ZS14	3.5	4.5	5.3	6.4	7.8	9.0	11.1	12.8	14.3	15.6	18.0	78	85	75
ZS15	3.7	4.8	5.7	6.8	8.4	9.7	11.8	13.7	15.3	16.7	19.3	63	65	60
ZS18	4.5	5.8	6.9	8.2	10.0	11.6	14.2	16.4	18.3	20.1	23.2	85	88	76
ZS20	5.0	6.4	7.6	9.1	11.2	12.9	15.8	18.2	20.4	22.3	25.8	76	82	75
ZS22	5.5	7.1	8.4	10.0	12.3	14.2	17.4	20.1	22.4	24.6	28.4	76	78	76
ZLS16	4.0	5.2	6.1	7.3	8.9	10.3	12.6	14.6	16.3	17.9	20.6	55	60	55
ZLS25	6.2	8.1	9.5	11.4	14.0	16.1	19.7	22.8	25.5	27.9	32	68	73	65
ZLS32	8.0	10.3	12.2	14.6	17.9	20.6	25.3	29.2	33	36	41	80	90	75
ZLS40	10.0	12.9	15.3	18.2	22.3	25.8	31.6	36	41	45	52	86	90	81



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