



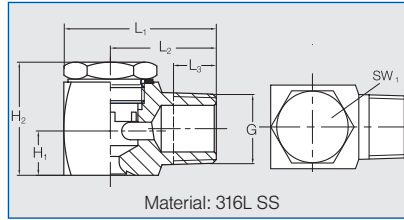
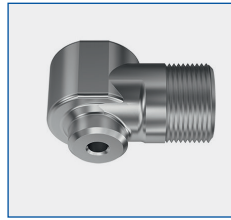
Full cone nozzles
Tangential-flow
Series 422 / 423 Metal version



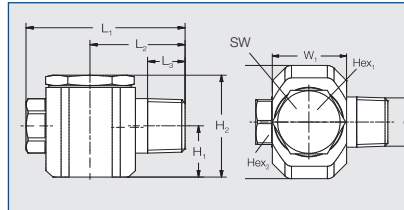
Tangential design has no internal swirl device for maximum clog resistance. Spray distribution and angle are stable over a wide range of pressures.

Applications:

- Cleaning and washing processes
- Mist eliminator washing
- Scrubber towers
- Chemical reactors
- Chemical injection



G (male NPT)	Dimensions (in.)						Wt. (lb.)
	L1	L2	L3	H1	H2	SW	
1/4"	1.1	.79	.39	.31	.81	.47	.09
3/8"	1.42	.98	.39	.43	1.04	.75	.22
1 1/4"	3.7	2.32	.71	1.38	3.23	2.17	5.5
1 1/2"	5.71	3.78	.72	2.4	5.08	3.15	12.4
2"	6.22	3.86	.75	2.72	5.96	3.54	18.35



G (male NPT)	Dimensions (in.)						Wt. (lb.)
	L1	L2	L3	H1	H2	SW	
1/2"	1.91	1.32	.51	.79	1.52	1.06	.52
3/4"	2.28	1.5	.57	.93	2.24	1.42	1.37
1"	2.99	1.91	.67	1.08	2.6	1.61	2.76

Spray angle	Type	Ordering no.						Orifice diam. (in.)	Free passage (in.)	Flow Rate (Gallons Per Minute)						Spray Diam. D (in.) @ 40 psi			
		Mat. no.	Connection							10 psi	20 psi	2 bar	40 psi	60 psi	80 psi	100 psi	H=8"	H=20"	
			ASIS 316L 1Y	Brass 30	1/4"	3/8"	1/2"												3/4"
60°	422. 644	○	○	-	BE	-	-	-	.118	.118	.62	.88	4.0	1.2	1.5	1.8	2.0	9	20
90°	422. 406	○	○	BC	-	-	-	-	.059	.057	.16	.22	1.0	.31	.38	.44	.49	15	34
	422. 486	○	○	BC	-	-	-	-	.075	.071	.25	.35	1.6	.50	.61	.70	.78	15	34
	422. 566	○	○	BC	-	-	-	-	.091	.087	.39	.55	2.5	.78	.95	1.1	1.2	15	34
	422. 606	○	○	-	BE	-	-	-	.102	.099	.49	.69	3.2	.98	1.2	1.4	1.6	15	34
	422. 646	○	○	-	BE	-	-	-	.118	.114	.62	.88	4.0	1.2	1.5	1.8	2.0	15	38
	422. 686	-	○	-	BE	-	-	-	.130	.126	.78	1.1	5.0	1.6	1.9	2.2	2.5	15	38
	422. 726	-	○	-	BE	-	-	-	.146	.142	.98	1.4	6.3	2.0	2.4	2.8	3.1	15	38
	422. 766	○	○	-	BE	-	-	-	.164	.162	1.2	1.8	8.0	2.5	3.0	3.5	3.9	15	38
	422. 806	-	○	-	BE	-	-	-	.183	.181	1.6	2.2	10.0	3.1	3.8	4.4	4.9	15	38
	422. 846	○	○	-	BE	-	-	-	.205	.201	1.9	2.7	12.5	3.9	4.8	5.5	6.1	15	38
	422. 886	-	○	-	BE	-	-	-	.229	.225	2.5	3.5	16.0	5.0	6.1	7.0	7.9	15	38
	422. 966	○	○	-	-	BG	-	-	.315	.315	3.9	5.5	25	7.8	9.5	11.0	12.3	15	38
	423. 006	○	○	-	-	BG	-	-	.343	.343	4.8	6.8	31	9.6	11.8	13.6	15.2	15	38
	423. 046	○	○	-	-	-	BK	-	.426	.402	6.2	8.8	40	12	15	18	20	15	38
423. 086	○	○	-	-	-	BK	-	.449	.433	7.8	11.0	50	15.5	19.0	22	25	15	38	
423. 126	○	○	-	-	-	BK	-	.500	.485	9.8	13.8	63	19.5	24	28	31	15	38	
423. 146	○	○	-	-	-	-	BM	.552	.532	11.0	15.6	71	22	27	31	35	15	38	
423. 206	○	○	-	-	-	-	BM	.670	.630	15.5	21.9	100	31	38	44	49	15	38	
120°	422. 488	-	○	BC	-	-	-	-	.075	.071	.25	.35	1.6	.50	.61	.70	.78	27	48
	422. 568	○	○	BC	-	-	-	-	.091	.087	.39	.55	2.5	.78	.95	1.1	1.2	27	48
	422. 608	-	○	-	BE	-	-	-	.102	.099	.49	.69	3.2	.98	1.2	1.4	1.6	27	63
	422. 728	○	○	-	BE	-	-	-	.146	.142	.98	1.4	6.3	2.0	2.4	2.8	3.1	27	63
	422. 808	○	○	-	BE	-	-	-	.183	.181	1.6	2.2	10.0	3.1	3.8	4.4	4.9	27	63
	422. 848	○	○	-	BE	-	-	-	.205	.201	1.9	2.7	12.5	3.9	4.8	5.5	6.1	27	63
	422. 888	○	○	-	BE	-	-	-	.229	.225	2.5	3.5	16.0	5.0	6.1	7.0	7.9	27	63
	422. 928	○	○	-	-	BG	-	-	.288	.288	3.1	4.4	20	6.2	7.6	8.8	9.8	27	63
	422. 968	○	○	-	-	BG	-	-	.315	.315	3.9	5.5	25	7.8	9.5	11.0	12.3	27	63
	423. 008	○	○	-	-	BG	-	-	.343	.343	4.8	6.8	31	9.6	11.8	13.6	15.2	27	63
	423. 048	○	○	-	-	-	BK	-	.426	.402	6.2	8.8	40	12	15	18	20	27	63
	423. 088	○	○	-	-	-	BK	-	.449	.433	7.8	11.0	50	15.5	19.0	22	25	27	63
	423. 128	○	○	-	-	-	BK	-	.500	.485	9.8	13.8	63	19.5	24	28	31	27	63
	423. 148	○	○	-	-	-	-	BM	.552	.532	11.0	15.6	71	22	27	31	35	27	63
423. 208	○	○	-	-	-	-	BM	.670	.630	15.5	21.9	100	31	38	44	49	27	63	

Example Type + Material no. + Conn. = Ordering no.
 for ordering: 422. 846 + 1Y + BE = 422. 846. 1Y. BE

Different metallurgies may be available upon request.

A listing of alternatives for various assembly possibilities is shown in the Accessories section beginning on page 127.