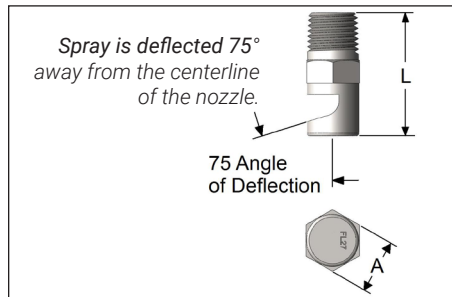




FL SERIES SPRAY NOZZLE

LIQUID • FLAT SPRAY • THREADED CONNECTION



Spray angle not exactly as shown

SPRAY CHARACTERISTICS:

A wide, flat fan-shaped spray with low impact. The spray is deflected 75° away from the centerline of the pipe connection, as shown.

CONSTRUCTION:

The models listed are machined from bar stock and are one piece construction. Standard materials are brass, 303 stainless steel and 316 stainless steel. Some models are also available in other materials, such as PVC, CPVP, Teflon®, and polypropylene.

TYPICAL APPLICATIONS:

Wherever a low impact, wide angle spray is required.

- Rising and Cooling
- Dishwashing
- Fertilizer Spraying
- Metal Wash

Model ID	Orifice Diameter inches	Dimensions		Capacities at Various Pressures USGPM										Spray Angle					
		Hex Size (A)	Length (L)	3 psi	5 psi	7 psi	10 psi	15 psi	20 psi	30 psi	40 psi	60 psi	3 psi	5 psi	7 psi	10 psi	20 psi	60 psi	
1/8FL.25	0.017	0.44	0.56	--	--	--	0.030	0.037	0.042	0.052	0.060	0.074	--	--	--	90°	106°	120°	
1/8FL.50	0.024	0.44	0.56	--	--	0.042	0.050	0.061	0.071	0.087	0.100	0.122	--	--	65°	78°	99°	120°	
1/8FL.75	0.029	0.44	0.81	--	--	0.063	0.075	0.092	0.106	0.130	0.150	0.184	--	--	72°	85°	112°	140°	
1/8FL1	0.033	0.44	0.81	--	--	0.084	0.100	0.122	0.141	0.173	0.200	0.245	--	--	90°	97°	135°	148°	
1/8FL1.3	0.038	0.44	0.81	--	0.092	0.109	0.130	0.159	0.184	0.225	0.260	0.32	--	73°	80°	92°	115°	134°	
1/8FL1.5	0.042	0.44	0.81	0.082	0.106	0.126	0.150	0.184	0.212	0.260	0.300	0.37	57°	69°	75°	87°	104°	125°	
1/8FL2	0.047	0.44	0.81	0.110	0.141	0.167	0.200	0.245	0.283	0.35	0.40	0.49	60°	73°	82°	86°	104°	125°	
1/8FL2.5	0.055	0.44	0.81	0.137	0.177	0.209	0.250	0.306	0.35	0.43	0.50	0.61	79°	87°	92°	101°	112°	130°	
1/8FL3	0.059	0.44	0.81	0.164	0.212	0.251	0.300	0.37	0.42	0.52	0.60	0.73	84°	97°	106°	115°	130°	140°	
1/8FL4	0.070	0.44	0.94	0.219	0.283	0.33	0.40	0.49	0.57	0.69	0.80	0.98	74°	87°	89°	101°	116°	127°	
1/8FL5	0.076	0.44	0.94	0.274	0.35	0.42	0.50	0.61	0.71	0.87	1.00	1.22	78°	89°	97°	103°	113°	132°	
1/8FL7.5	0.094	0.44	0.94	0.41	0.53	0.63	0.75	0.92	1.06	1.30	1.50	1.84	98°	105°	112°	120°	132°	144°	
1/8FL10	0.110	0.44	0.94	0.55	0.71	0.84	1.00	1.22	1.41	1.73	2.00	2.45	116°	125°	135°	137°	144°	150°	
1/8FL12	0.120	0.56	1.06	0.66	0.85	1.00	1.20	1.47	1.70	2.08	2.40	2.94	98°	105°	109°	118°	134°	139°	
1/8FL15	0.129	0.56	1.06	0.82	1.06	1.26	1.50	1.84	2.12	2.60	3.00	3.7	100°	110°	115°	124°	131°	139°	
1/8FL18	0.147	0.56	1.06	0.99	1.27	1.51	1.80	2.20	2.55	3.12	3.6	4.4	100°	112°	116°	124°	135°	137°	
1/8FL20	0.154	0.56	1.06	1.10	1.41	1.67	2.00	2.45	2.83	3.5	4.0	4.9	115°	125°	128°	134°	142°	147°	
1/4FL1.3	0.038	0.56	0.94	0.071	0.092	0.109	0.130	0.159	0.184	0.225	0.260	0.32	52°	62°	71°	81°	97°	116°	
1/4FL1.5	0.042	0.56	0.94	0.082	0.106	0.126	0.150	0.184	0.212	0.260	0.300	0.37	57°	70°	77°	85°	103°	122°	
1/4FL2	0.047	0.56	0.94	0.110	0.141	0.167	0.200	0.245	0.283	0.35	0.40	0.49	62°	76°	84°	96°	110°	134°	
1/4FL2.5	0.055	0.56	0.94	0.137	0.177	0.209	0.250	0.306	0.35	0.43	0.50	0.61	88°	110°	114°	126°	145°	152°	
1/4FL3	0.059	0.56	0.94	0.164	0.212	0.251	0.300	0.37	0.42	0.52	0.60	0.73	77°	91°	99°	104°	128°	149°	
1/4FL4	0.070	0.56	1.00	0.219	0.283	0.33	0.40	0.49	0.57	0.69	0.80	0.98	65°	73°	82°	87°	96°	104°	
1/4FL5	0.076	0.56	1.00	0.274	0.35	0.42	0.50	0.61	0.71	0.87	1.00	1.22	69°	84°	89°	97°	107°	124°	

* TABLE CONTINUES ON FOLLOWING PAGE



Model ID	Orifice Diameter inches	Dimensions		Capacities at Various Pressures USGPM										Spray Angle					
		Hex Size (A)	Length (L)	3 psi	5 psi	7 psi	10 psi	15 psi	20 psi	30 psi	40 psi	60 psi	3 psi	5 psi	7 psi	10 psi	20 psi	60 psi	
1/4FL7.5	0.094	0.56	1.00	0.41	0.53	0.63	0.75	0.92	1.06	1.30	1.50	1.84	90°	104°	122°	133°	145°	150°	
1/4FL10	0.110	0.56	1.00	0.55	0.71	0.84	1.00	1.22	1.41	1.73	2.00	2.45	125°	130°	134°	137°	148°	156°	
1/4FL12	0.120	0.56	1.31	0.66	0.85	1.00	1.20	1.47	1.70	2.08	2.40	2.94	110°	115°	122°	130°	141°	150°	
1/4FL15	0.129	0.56	1.31	0.82	1.06	1.26	1.50	1.84	2.12	2.60	3.00	3.7	90°	98°	109°	125°	136°	144°	
1/4FL18	0.147	0.56	1.31	0.99	1.27	1.51	1.80	2.20	2.55	3.12	3.6	4.4	104°	113°	118°	124°	134°	138°	
1/4FL20	0.154	0.56	1.31	1.10	1.41	1.67	2.00	2.45	2.83	3.5	4.0	4.9	110°	119°	127°	131°	136°	144°	
1/4FL22	0.161	0.56	1.31	1.20	1.56	1.84	2.20	2.69	3.11	3.8	4.4	5.4	97°	108°	114°	120°	128°	132°	
1/4FL24	0.169	0.56	1.31	1.31	1.70	2.01	2.40	2.94	3.4	4.2	4.8	5.9	106°	118°	121°	127°	136°	154°	
1/4FL27	0.177	0.56	1.31	1.48	1.91	2.26	2.70	3.3	3.8	4.7	5.4	6.6	110°	120°	124°	129°	139°	146°	
3/8FL30	0.188	0.69	1.50	1.64	2.12	2.51	3.00	3.7	4.2	5.2	6.0	7.3	104°	116°	121°	127°	135°	138°	
3/8FL35	0.196	0.69	1.50	1.92	2.47	2.93	3.5	4.3	4.9	6.1	7.0	8.6	104°	114°	118°	126°	130°	137°	
3/8FL40	0.209	0.69	1.50	2.19	2.83	3.3	4.0	4.9	5.7	6.9	8.0	9.8	109°	115°	123°	126°	135°	136°	
3/8FL45	0.228	0.69	1.50	2.46	3.2	3.8	4.5	5.5	6.4	7.8	9.0	11.0	117°	126°	134°	139°	142°	144°	
1/2FL40	0.209	0.88	1.69	2.19	2.83	3.3	4.0	4.9	5.7	6.9	8.0	9.8	106°	111°	119°	124°	129°	133°	
1/2FL50	0.242	0.88	1.69	2.74	3.5	4.2	5.0	6.1	7.1	8.7	10.0	12.2	106°	122°	130°	133°	139°	141°	
1/2FL60	0.266	0.88	2.00	3.3	4.2	5.0	6.0	7.3	8.5	10.4	12.0	14.7	110°	120°	124°	128°	133°	138°	
1/2FL70	0.290	0.88	2.00	3.8	4.9	5.9	7.0	8.6	9.9	12.1	14.0	17.1	105°	118°	119°	121°	124°	130°	
1/2FL80	0.312	0.88	2.00	4.4	5.7	6.7	8.0	9.8	11.3	13.9	16.0	19.6	114°	116°	124°	126°	130°	135°	
3/4FL90	0.316	1.06	2.38	4.9	6.4	7.5	9.0	11.0	12.7	15.6	18.0	22.0	104°	115°	120°	121°	125°	128°	
3/4FL100	0.344	1.06	2.38	5.5	7.1	8.4	10.0	12.2	14.1	17.3	20.0	24.5	105°	113°	115°	118°	121°	125°	
3/4FL110	0.348	1.06	2.38	6.0	7.8	9.2	11.0	13.5	15.6	19.1	22.0	26.9	106°	110°	116°	119°	120°	131°	
3/4FL120	0.375	1.06	2.38	6.6	8.5	10.0	12.0	14.7	17.0	20.8	24.0	29.4	119°	125°	129°	131°	133°	135°	
3/4FL140	0.402	1.06	2.62	7.7	9.9	11.7	14.0	17.1	19.8	24.2	28.0	34	115°	120°	128°	133°	137°	139°	
3/4FL160	0.430	1.06	2.62	8.8	11.3	13.4	16.0	19.6	22.6	27.7	32	39	117°	122°	130°	135°	139°	140°	
3/4FL180	0.460	1.06	2.62	9.9	12.7	15.1	18.0	22.0	25.5	31.2	36	44	117°	128°	131°	133°	136°	136°	
3/4FL210	0.500	1.06	2.62	11.5	14.8	17.6	21.0	25.7	29.7	36	42	51	122°	127°	132°	135°	136°	136°	
1FL140	0.402	1.38	2.81	7.7	9.9	11.7	14.0	17.1	19.8	24.2	28.0	34	117°	122°	126°	130°	133°	133°	
1FL160	0.430	1.38	1.25	8.8	11.3	13.4	16.0	19.6	22.6	27.7	32	39	117°	127°	131°	135°	136°	136°	
1FL180	0.460	1.38	1.25	9.9	12.7	15.1	18.0	22.0	25.5	31.2	36	44	115°	125°	128°	132°	135°	135°	
1FL210	0.500	1.50	2.81	11.5	14.8	17.6	21.0	25.7	29.7	36	42	51	117°	122°	127°	130°	133°	134°	
1FL300	0.578	1.38	3.4	16.4	21.2	25.1	30.0	37	42	52	60	73	114°	118°	120°	123°	124°	124°	
1FL450	0.704	1.38	3.4	24.6	32	38	45	55	64	78	90	110	128°	135°	139°	142°	144°	144°	