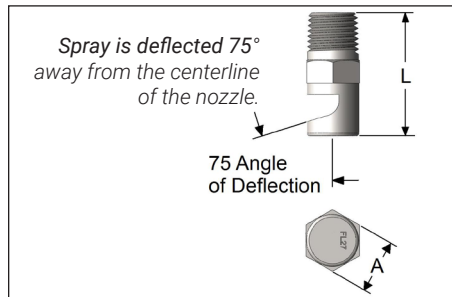




FL SERIES SPRAY NOZZLE

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 mm	Dimensions		Capacities at Various Pressures LPM									Spray Angle					
		Hex Size (A)	Length (L)	0.2 bar	0.3 bar	0.5 bar	0.7 bar	1.0 bar	1.5 bar	2 bar	3 bar	4 bar	0.2 bar	0.3 bar	0.5 bar	0.7 bar	1.5 bar	4 bar
1/8FL.25	0.43	11.1	14.3	0.061	0.075	0.097	0.114	0.137	0.168	0.193	0.237	0.274	--	--	--	90°	106°	120°
1/8FL.50	0.61	11.1	14.3	0.102	0.125	0.161	0.191	0.228	0.279	0.32	0.39	0.46	--	--	65°	78°	99°	120°
1/8FL.75	0.74	11.1	20.6	0.153	0.187	0.242	0.286	0.34	0.42	0.48	0.59	0.68	--	--	72°	85°	112°	140°
1/8FL1	0.84	11.1	20.6	0.204	0.250	0.32	0.38	0.46	0.56	0.64	0.79	0.91	--	--	90°	97°	135°	148°
1/8FL1.3	0.97	11.1	20.6	0.265	0.32	0.42	0.50	0.59	0.73	0.84	1.03	1.18	--	73°	80°	92°	115°	134°
1/8FL1.5	1.07	11.1	20.6	0.306	0.37	0.48	0.57	0.68	0.84	0.97	1.18	1.37	57°	69°	75°	87°	104°	125°
1/8FL2	1.19	11.1	20.6	0.41	0.50	0.64	0.76	0.91	1.12	1.29	1.58	1.82	60°	73°	82°	86°	104°	125°
1/8FL2.5	1.40	11.1	20.6	0.51	0.62	0.81	0.95	1.14	1.40	1.61	1.97	2.28	79°	87°	92°	101°	112°	130°
1/8FL3	1.50	11.1	20.6	0.61	0.75	0.97	1.14	1.37	1.67	1.93	2.37	2.73	84°	97°	106°	115°	130°	140°
1/8FL4	1.78	11.1	23.8	0.82	1.00	1.29	1.53	1.82	2.23	2.58	3.16	3.6	74°	87°	89°	101°	116°	127°
1/8FL5	1.93	11.1	23.8	1.02	1.25	1.61	1.91	2.28	2.79	3.2	3.9	4.6	78°	89°	97°	103°	113°	132°
1/8FL7.5	2.39	11.1	23.8	1.53	1.87	2.42	2.86	3.4	4.2	4.8	5.9	6.8	98°	105°	112°	120°	132°	144°
1/8FL10	2.79	11.1	23.8	2.04	2.50	3.2	3.8	4.6	5.6	6.4	7.9	9.1	116°	125°	135°	137°	144°	150°
1/8FL12	3.05	14.3	27.0	2.45	3.00	3.9	4.6	5.5	6.7	7.7	9.5	10.9	98°	105°	109°	118°	134°	139°
1/8FL15	3.28	14.3	27.0	3.06	3.7	4.8	5.7	6.8	8.4	9.7	11.8	13.7	100°	110°	115°	124°	131°	139°
1/8FL18	3.73	14.3	27.0	3.7	4.5	5.8	6.9	8.2	10.0	11.6	14.2	16.4	100°	112°	116°	124°	135°	137°
1/8FL20	3.91	14.3	27.0	4.1	5.0	6.4	7.6	9.1	11.2	12.9	15.8	18.2	115°	125°	128°	134°	142°	147°
1/4FL1.3	0.97	14.3	23.8	0.265	0.32	0.42	0.50	0.59	0.73	0.84	1.03	1.18	52°	62°	71°	81°	97°	116°
1/4FL1.5	1.07	14.3	23.8	0.306	0.37	0.48	0.57	0.68	0.84	0.97	1.18	1.37	57°	70°	77°	85°	103°	122°
1/4FL2	1.19	14.3	23.8	0.41	0.50	0.64	0.76	0.91	1.12	1.29	1.58	1.82	62°	76°	84°	96°	110°	134°
1/4FL2.5	1.40	14.3	23.8	0.51	0.62	0.81	0.95	1.14	1.40	1.61	1.97	2.28	88°	110°	114°	126°	145°	152°
1/4FL3	1.50	14.3	23.8	0.61	0.75	0.97	1.14	1.37	1.67	1.93	2.37	2.73	77°	91°	99°	104°	128°	149°
1/4FL4	1.78	14.3	25.4	0.82	1.00	1.29	1.53	1.82	2.23	2.58	3.16	3.6	65°	73°	82°	87°	96°	104°
1/4FL5	1.93	14.3	25.4	1.02	1.25	1.61	1.91	2.28	2.79	3.2	3.9	4.6	69°	84°	89°	97°	107°	124°

* TABLE CONTINUES ON FOLLOWING PAGE

Model ID	Orifice Diameter mm	Dimensions		Capacities at Various Pressures LPM										Spray Angle					
		Hex Size (A)	Length (L)	0.2 bar	0.3 bar	0.5 bar	0.7 bar	1.0 bar	1.5 bar	2 bar	3 bar	4 bar	0.2 bar	0.3 bar	0.5 bar	0.7 bar	1.5 bar	4 bar	
1/4FL7.5	2.39	14.3	25.4	1.53	1.87	2.42	2.86	3.4	4.2	4.8	5.9	6.8	90°	104°	122°	133°	145°	150°	
1/4FL10	2.79	14.3	25.4	2.04	2.50	3.2	3.8	4.6	5.6	6.4	7.9	9.1	125°	130°	134°	137°	148°	156°	
1/4FL12	3.05	14.3	33	2.45	3.00	3.9	4.6	5.5	6.7	7.7	9.5	10.9	110°	115°	122°	130°	141°	150°	
1/4FL15	3.28	14.3	33	3.06	3.7	4.8	5.7	6.8	8.4	9.7	11.8	13.7	90°	98°	109°	125°	136°	144°	
1/4FL18	3.73	14.3	33	3.7	4.5	5.8	6.9	8.2	10.0	11.6	14.2	16.4	104°	113°	118°	124°	134°	138°	
1/4FL20	3.91	14.3	33	4.1	5.0	6.4	7.6	9.1	11.2	12.9	15.8	18.2	110°	119°	127°	131°	136°	144°	
1/4FL22	4.09	14.3	33	4.5	5.5	7.1	8.4	10.0	12.3	14.2	17.4	20.1	97°	108°	114°	120°	128°	132°	
1/4FL24	4.29	14.3	33	4.9	6.0	7.7	9.2	10.9	13.4	15.5	18.9	21.9	106°	118°	121°	127°	136°	154°	
1/4FL27	4.50	14.3	33	5.5	6.7	8.7	10.3	12.3	15.1	17.4	21.3	24.6	110°	120°	124°	129°	139°	146°	
3/8FL30	4.78	17.5	38	6.1	7.5	9.7	11.4	13.7	16.7	19.3	23.7	27.3	104°	116°	121°	127°	135°	138°	
3/8FL35	4.98	17.5	38	7.1	8.7	11.3	13.3	16.0	19.5	22.6	27.6	32	104°	114°	118°	126°	130°	137°	
3/8FL40	5.31	17.5	38	8.2	10.0	12.9	15.3	18.2	22.3	25.8	31.6	36	109°	115°	123°	126°	135°	136°	
3/8FL45	5.79	17.5	38	9.2	11.2	14.5	17.2	20.5	25.1	29.0	36	41	117°	126°	134°	139°	142°	144°	
1/2FL40	5.31	22.2	43	8.2	10.0	12.9	15.3	18.2	22.3	25.8	31.6	36	106°	111°	119°	124°	129°	133°	
1/2FL50	6.15	22.2	43	10.2	12.5	16.1	19.1	22.8	27.9	32	39	46	106°	122°	130°	133°	139°	141°	
1/2FL60	6.76	22.2	51	12.2	15.0	19.3	22.9	27.3	33	39	47	55	110°	120°	124°	128°	133°	138°	
1/2FL70	7.37	22.2	51	14.3	17.5	22.6	26.7	32	39	45	55	64	105°	118°	119°	121°	124°	130°	
1/2FL80	7.92	22.2	51	16.3	20.0	25.8	30.5	36	45	52	63	73	114°	116°	124°	126°	130°	135°	
3/4FL90	8.03	27.0	60	18.3	22.5	29.0	34	41	50	58	71	82	104°	115°	120°	121°	125°	128°	
3/4FL100	8.74	27.0	60	20.4	25.0	32	38	46	56	64	79	91	105°	113°	115°	118°	121°	125°	
3/4FL110	8.84	27.0	60	22.4	27.5	35	42	50	61	71	87	100	106°	110°	116°	119°	120°	131°	
3/4FL120	9.53	27.0	60	24.5	30.0	39	46	55	67	77	95	109	119°	125°	129°	131°	133°	135°	
3/4FL140	10.21	27.0	67	28.5	35	45	53	64	78	90	111	128	115°	120°	128°	133°	137°	139°	
3/4FL160	10.92	27.0	67	33	40	52	61	73	89	103	126	146	117°	122°	130°	135°	139°	140°	
3/4FL180	11.68	27.0	67	37	45	58	69	82	100	116	142	164	117°	128°	131°	133°	136°	136°	
3/4FL210	12.70	27.0	67	43	52	68	80	96	117	135	166	191	122°	127°	132°	135°	136°	136°	
1FL140	10.21	35	71	28.5	35	45	53	64	78	90	111	128	117°	122°	126°	130°	133°	133°	
1FL160	10.92	35	32	33	40	52	61	73	89	103	126	146	117°	127°	131°	135°	136°	136°	
1FL180	11.68	35	32	37	45	58	69	82	100	116	142	164	115°	125°	128°	132°	135°	135°	
1FL210	12.70	38	71	43	52	68	80	96	117	135	166	191	117°	122°	127°	130°	133°	134°	
1FL300	14.68	35	86	61	75	97	114	137	167	193	237	273	114°	118°	120°	123°	124°	124°	
1FL450	17.88	35	86	92	112	145	172	205	251	290	355	410	128°	135°	139°	142°	144°	144°	