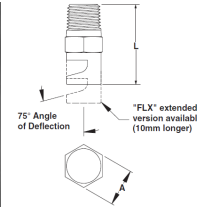


# Threaded Nozzles – Flat Spray Series FL



Spray is deflected 75° away from the centerline of the nozzle.



## SPRAY CHARACTERISTICS:

A wide, flat fan-shaped spray with low impact. The spray is deflected 75° 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, CPVC, Teflon® and polypropylene.

Model	Thread BSPT	Equiv. Orifice Diameter (mm)	Dimension		CAPACITY (L/min) AT VARIOUS PRESSURES (bar)												Spray Angle @					
			A	L	0.2 bar	0.3 bar	0.5 bar	0.7 bar	1 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			
FL.25	1/8" - 1/4"	0.43	11mm	16	--	--	--	0.1	0.11	0.14	0.16	0.2	0.23	--	--	--	90°	106°	120°			
FL.50	1/8" - 1/4"	0.61	11mm	16	--	--	0.16	0.19	0.23	0.28	0.32	0.39	0.46	--	--	65°	78°	99°	120°			
FL.75	1/8" - 1/4"	0.74	11mm	20	--	--	0.24	0.29	0.34	0.42	0.48	0.59	0.68	--	--	72°	85°	112°	140°			
FL1	1/8" - 1/4"	0.84	11mm	20	--	--	0.32	0.38	0.46	0.56	0.64	0.79	0.91	--	--	90°	97°	135°	148°			
FL1.3	1/8" - 1/4"	0.97	11mm	21	--	0.32	0.42	0.5	0.59	0.73	0.84	1.03	1.19	--	73°	80°	92°	115°	134°			
FL1.5	1/8" - 1/4"	1.07	11mm	21	0.31	0.37	0.48	0.57	0.68	0.84	0.97	1.18	1.37	57°	69°	75°	87°	104°	125°			
FL2	1/8" - 1/4"	1.19	11mm	21	0.41	0.5	0.64	0.76	0.91	1.12	1.29	1.58	1.82	60°	73°	82°	86°	104°	125°			
FL2.5	1/8" - 1/4"	1.4	11mm	21	0.52	0.63	0.82	0.97	1.16	1.42	1.64	2.01	2.32	749°	87°	92°	101°	112°	130°			
FL3	1/8" - 1/4"	1.5	11mm	21	0.61	0.75	0.97	1.14	1.37	1.67	1.93	2.37	2.73	84°	97°	106°	115°	130°	140°			
FL4	1/8" - 1/4"	1.78	11mm	24	0.82	1	1.29	1.53	1.82	2.23	2.58	3.2	3.6	74°	87°	89°	101°	116°	127°			
FL5	1/8" - 1/4"	1.93	11mm	24	1.02	1.25	1.61	1.91	2.28	2.79	3.2	3.9	4.6	78°	89°	97°	103°	113°	132°			
FL7.5	1/8" - 1/4"	2.39	11mm	24	1.53	1.87	2.42	2.86	3.4	4.2	4.8	5.9	6.8	98°	105°	112°	120°	132°	144°			
FL10	1/8" - 1/4"	2.79	11mm	24	2.04	2.5	3.2	3.8	4.6	5.6	6.4	7.9	9.1	116°	125°	135°	137°	144°	150°			
FL12	1/8" - 1/4"	3.05	14mm	24	2.45	3	3.9	4.6	5.5	6.7	7.7	9.5	10.9	98°	105°	109°	118°	134°	139°			
FL15	1/8" - 1/4"	3.28	14mm	27	3.06	3.7	4.8	5.7	6.8	8.4	9.7	11.8	13.7	100°	110°	115°	124°	131°	139°			
FL18	1/8" - 1/4"	3.73	14mm	27	3.7	4.5	5.8	6.9	8.2	10	11.6	14.2	16.4	100°	112°	116°	124°	135°	137°			
FL20	1/8" - 1/4"	3.91	14mm	27	4.1	5	6.4	7.6	9.1	11.2	12.9	15.8	18.2	115°	125°	128°	134°	142°	147°			
1/4FL22	1/4"	4.09	14mm	33	4.5	5.5	7.1	8.4	10	12.3	14.2	17.4	20.1	97°	108°	114°	120°	128°	132°			
1/4FL24	1/4"	4.29	14mm	33	4.9	6	7.7	9.2	10.9	13.4	15.5	18.9	21.9	106°	118°	121°	127°	136°	154°			
1/4FL27	1/4"	4.5	14mm	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	3/8"	4.78	17mm	33	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	3/8"	4.98	17mm	33	7.1	8.7	11.3	13.3	16	19.5	22.6	27.6	32	104°	114°	118°	126°	130°	137°			
3/8FL40	3/8"	5.31	17mm	33	8.2	10	12.9	15.3	18.2	22.3	25.8	32	36	109°	115°	123°	126°	135°	136°			
3/8FL45	3/8"	5.79	17mm	33	9.2	11.2	14.5	17.2	20.5	25.1	29	36	41	117°	126°	134°	139°	142°	144°			
1/2FL40	1/2"	5.31	22mm	43	8.2	10	12.9	15.3	18.2	22.3	25.8	32	36	106°	111°	119°	124°	129°	133°			
1/2FL50	1/2"	6.15	22mm	43	10.2	12.5	16.1	19.1	22.8	27.9	32	39	46	106°	122°	130°	133°	139°	141°			
1/2FL60	1/2"	6.76	22mm	43	12.2	15	19.3	22.9	27.3	33	39	47	55	110°	120°	124°	128°	133°	138°			
1/2FL70	1/2"	7.37	22mm	51	14.3	17.5	22.6	26.7	32	39	45	55	64	105°	118°	119°	121°	124°	130°			
1/2FL80	1/2"	7.92	22mm	51	16.3	20	25.8	30.5	36	45	52	63	73	114°	116°	124°	126°	130°	135°			
3/4FL90	3/4"	8.03	31.8mm	60	18.3	22.5	29	34	41	50	58	71	82	104°	115°	120°	121°	125°	128°			
3/4FL100	3/4"	8.74	31.8mm	60	20.4	25	32	38	46	56	64	79	91	105°	113°	115°	118°	121°	125°			
3/4FL110	3/4"	8.84	31.8mm	60	22.4	27.5	35	42	50	61	71	87	100	106°	110°	116°	119°	120°	121°			
3/4FL120	3/4"	9.53	31.8mm	60	24.5	30	39	46	55	67	77	95	109	119°	125°	129°	131°	133°	135°			
3/4FL140	3/4"	10.21	31.8mm	65	28.5	35	45	53	64	78	90	111	128	115°	120°	128°	133°	137°	139°			
3/4FL160	3/4"	11.92	38.1mm	65	33	40	52	61	73	89	103	126	146	117°	122°	130°	135°	139°	140°			
3/4FL180	3/4"	11.68	38.1mm	67	37	45	58	69	82	100	116	142	164	117°	128°	131°	133°	136°	136°			
3/4FL210	3/4"	12.7	38.1mm	67	43	52	68	80	96	117	135	166	191	122°	127°	132°	135°	136°	136°			
1FL140	1"	10.21	38.1mm	73	29	35	45	53	64	78	90	111	128	117°	122°	126°	130°	133°	133°			
1FL160	1"	10.92	38.1mm	71	33	40	52	61	73	89	103	126	146	117°	127°	131°	135°	136°	136°			
1FL180	1"	11.68	38.1mm	73	37	45	58	69	82	100	116	142	164	115°	125°	128°	132°	135°	135°			
1FL210	1"	12.7	38.1mm	73	43	52	68	80	96	117	135	166	191	117°	122°	127°	130°	133°	134°			
1FL300	1"	14.68	44.5mm	92	61	75	97	114	137	167	193	237	273	114°	118°	120°	123°	124°	124°			
1FL450	1"	17.88	44.5mm	92	92	112	145	172	205	251	290	355	410	128°	135°	139°	142°	144°	144°			