

Dimensions for flat fan screw-in nozzles:												
R or G thread	FL (R-thread) from 1 1/4" G-thr.			FG (G-thread)			FN (R-thread) from 3/4" G-thr.			FGI (G-thread)		
	L	L ₁	SW	L	L ₁	SW	L	L ₁	SW	L	L ₁	SW
** 1/16"	10	5	10									
* 1/8"	17.5	7	10	12	6	14	17.5	7	9	20	7	13
* 1/4"	22	10	14	13	7	17	22	10	12	25	10	17
* 3/8"	25	10	17	14	8	22	25	10	14	26	10	19
1/2"	30	13	22	16	8	27	30	13	22	30	13	24
3/4"	35	15	27	16	8	32	35	15	25			
1"	50	17	38	22	12	36	50	17	30			
1 1/4"	66	19	43	22	12	50	66	19	50			
2"	88	24	60	32	20	60	88	24	60			

- * Also available with NPT-thread
- ** Only available with NPT-thread
- R-thread according to DIN 2999 "conic"
- G-thread according to ISO 228 "cylindrical"
- Spray angles above the dotted line differ (smaller).
- Nozzles with smaller flow rates on request.
- A = equivalent bore diameter

Order example:
R 1/4" FL 10-60° V2A, resp.
1/4" FG 25-45° brass

Plastic nozzles can feature differing SWs resp. type FN.

Spray angles available: **0°-5°-10°-15°-25°-30°-45°-50°-60°-65°-80°-90°-110°-120°**, at a pressure of 2 bar.

Nozzles with **bold-typed spray angles** are partially in stock!

Male thread R or G	Code resp. size	A Ø (mm)	Flow rate \dot{V} (l/min.) at pressure p (bar)																	
			bar 0.35	bar 0.5	bar 0.7	bar 1	bar 1.5	bar 2	bar 2.5	bar 3	bar 4	bar 5	bar 6	bar 7	bar 8	bar 10	bar 15	bar 20	bar 35	
1/16"	0.5	0.40	0.07	0.09	0.10	0.11	0.14	0.16	0.18	0.20	0.23	0.25	0.28	0.30	0.31	0.36	0.44	0.51	0.67	
	0.7	0.50	0.09	0.13	0.15	0.15	0.19	0.22	0.24	0.26	0.31	0.34	0.37	0.40	0.41	0.48	0.58	0.69	0.90	
	1.0	0.60	0.13	0.16	0.19	0.23	0.28	0.32	0.36	0.39	0.46	0.51	0.56	0.60	0.64	0.72	0.88	1.02	1.35	
	1.5	0.80	0.20	0.24	0.29	0.34	0.42	0.48	0.54	0.59	0.68	0.76	0.84	0.90	0.97	1.08	1.32	1.53	2.02	
	2.0	0.90	0.27	0.32	0.38	0.46	0.56	0.64	0.72	0.79	0.91	1.02	1.12	1.21	1.29	1.44	1.77	2.04	2.70	
	2.5	1.00	0.34	0.40	0.48	0.57	0.70	0.81	0.90	0.99	1.14	1.27	1.40	1.51	1.61	1.80	2.21	2.55	3.37	
	3.0	1.10	0.40	0.48	0.57	0.68	0.84	0.97	1.08	1.18	1.37	1.53	1.67	1.81	1.93	2.16	2.65	3.06	4.05	
	4.0	1.30	0.54	0.64	0.76	0.91	1.12	1.29	1.44	1.58	1.82	2.04	2.23	2.41	2.58	2.88	3.53	4.08	5.39	
	4.5	1.35	0.59	0.72	0.85	1.01	1.24	1.43	1.59	1.75	2.05	2.29	2.57	2.70	2.85	3.21	3.52	4.52	5.99	
	5.0	1.50	0.67	0.81	0.95	1.14	1.40	1.61	1.80	1.97	2.28	2.55	2.79	3.02	3.22	3.60	4.41	5.10	6.74	
1/8"	5.5	1.45	0.74	0.89	1.05	1.26	1.55	1.78	1.98	2.18	2.50	2.81	3.07	3.29	3.55	4.11	4.88	5.62	7.56	
	6.0	1.60	0.81	0.97	1.14	1.37	1.67	1.93	2.16	2.37	2.74	3.06	3.35	3.62	3.87	4.32	5.30	6.12	8.09	
	6.5	1.70	0.87	1.05	1.24	1.48	1.82	2.09	2.33	2.56	3.00	3.33	3.53	3.80	4.17	4.91	5.73	6.61	8.76	
	7.0	1.75	0.94	1.13	1.33	1.59	1.95	2.25	2.50	2.75	3.21	3.54	4.21	4.53	4.88	5.36	6.16	7.10	9.41	
	8.0	1.80	1.08	1.29	1.53	1.82	2.23	2.58	2.88	3.16	3.65	4.08	4.47	4.82	5.16	5.77	7.06	8.15	10.8	
	8.5	1.85	1.14	1.38	1.62	1.94	2.39	2.74	3.06	3.36	3.88	4.32	4.74	5.03	5.48	5.80	7.53	8.67	11.5	
	9.0	1.90	1.21	1.45	1.72	2.05	2.51	2.90	3.24	3.55	4.10	4.59	5.02	5.43	5.80	6.49	7.95	9.17	12.1	
	10.0	2.00	1.35	1.61	1.91	2.28	2.79	3.22	3.60	3.95	4.56	5.10	5.58	6.03	6.45	7.21	8.83	10.2	13.5	
	1/4"	12.5	2.20	1.69	2.01	2.38	2.85	3.49	4.03	4.51	4.93	5.70	6.37	6.98	7.54	8.06	9.01	11.0	12.7	16.9
		15.0	2.40	2.02	2.42	2.86	3.42	4.19	4.84	5.41	5.92	6.84	7.65	8.37	9.05	9.67	10.8	13.2	15.3	20.2
17.5		2.60	2.36	2.82	3.34	3.99	4.89	5.64	6.31	6.91	7.98	8.92	9.77	10.6	11.3	12.6	15.5	17.8	23.6	
20.0		2.80	2.70	3.22	3.81	4.56	5.58	6.45	7.21	7.90	9.12	10.2	11.2	12.1	12.9	14.4	17.7	20.4	27.0	
22.5		3.00	3.03	3.62	4.28	5.12	6.27	7.24	8.10	8.87	10.2	11.5	12.5	13.6	14.5	16.2	19.8	22.9	30.3	
25.0		3.20	3.37	4.03	4.77	5.70	6.98	8.06	9.01	9.87	11.4	12.7	14.0	15.1	16.1	18.0	22.1	25.5	33.7	
30.0		3.60	4.05	4.84	5.72	6.84	8.37	9.67	10.8	11.8	13.7	15.3	16.8	18.1	19.3	21.6	26.5	30.6	40.5	
35.0		3.80	4.72	5.64	6.67	7.98	9.77	11.3	12.6	13.8	16.0	17.8	19.5	21.1	22.6	25.2	30.9	35.7	47.2	
3/8"	40.0	4.00	5.39	6.45	7.63	9.12	11.2	12.9	14.4	15.8	18.2	20.4	22.3	24.1	25.8	28.8	35.3	40.8	53.9	
	45.0	4.20	6.00	7.20	8.00	9.50	11.5	14.0	15.5	17.5	20.5	22.5	25.0	27.5	30.0	32.5	30.0	35.0	45.0	
	50.0	4.40	6.74	8.06	9.54	11.4	14.0	16.1	18.0	19.7	22.8	25.5	27.9	30.2	32.2	36.0	44.1	51.0	76.4	
	60.0	4.80	8.09	9.67	11.4	13.7	16.8	19.3	21.6	23.7	27.4	30.6	33.5	36.2	38.7	43.3	53.0	61.2	80.9	
1/2"	70.0	5.20	9.44	11.3	13.4	16.0	19.5	22.6	25.2	27.6	31.9	35.7	39.1	42.2	45.1	50.5	61.8	71.4	94.4	
	80.0	5.60	10.8	12.9	15.3	18.2	22.3	25.8	28.8	31.6	36.5	40.8	44.7	48.3	51.6	57.7	70.6	81.6	108	
3/4"	90.0	6.00	12.1	14.5	17.2	20.5	25.1	29.0	32.4	35.5	41.0	45.9	50.3	54.3	58.0	64.9	79.5	91.7	121	
	100	6.40	13.5	16.1	19.1	22.8	27.9	32.2	36.0	39.5	45.6	51.0	55.8	60.3	64.5	72.1	88.3	102	135	
1"	120	6.80	16.2	19.3	22.9	27.4	33.5	38.7	43.3	47.4	54.7	61.2	67.0	72.4	77.4	86.5	106	122	162	
	150	7.50	20.2	24.2	28.6	34.2	41.9	48.4	54.1	59.2	68.4	76.5	83.8	90.5	96.7	108	132	153	202	
1 1/4"	200	8.70	27.0	32.2	38.1	45.6	55.8	64.5	72.1	79.0	91.2	102	112	121	129	144	177	204	270	
	250	9.50	33.7	40.3	47.7	57.0	69.8	80.6	90.1	98.7	113	127	140	151	161	180	221	255	337	
	300	10.7	40.5	48.4	57.2	68.4	83.8	96.7	98.1	118	137	153	168	181	193	216	265	306	405	
	350	11.9	47.2	56.4	66.8	79.8	97.7	113	126	138	160	178	195	211	226	252	309	357	472	
2"	400	12.7	53.9	64.5	76.3	91.2	112	129	144	158	182	204	223	241	258	288	353	408	539	
	500	13.1	67.4	80.6	95.4	114	140	161	180	197	228	255	279	302	322	360	441	510	674	
1 1/4"	600	14.3	80.9	96.7	114	137	168	193	216	237	274	306	335	362	387	432	530	612	809	
	750	15.9	101	121	143	171	209	242	270	296	342	382	419	452	484	541	662	765	1,011	
2"	1,000	18.7	135	161	191	228	279	322	360	395	456	510	558	603	645	721	883	1,019	1,349	
	1,500	22.6	202	242	286	342	419	484	541	592	684	765	838	905	967	1,081	1,324	1,529	2,023	
2"	2,000	26.2	270	322	381	456	558	645	721	790	912	1,019	1,117	1,206	1,289	1,442	1,766	2,039	2,697	