

# NOZZLE FLOW CHARTS (THEORETICAL) - BAR/LPM

## 0° - NOZZLE (S-1, S-2, S-7)

Nozzle No.	70	140	210	280	350	420	490	560	630	700	770	840	910	980	1,050	1,120	1,190	1,260	1,330	1,400
0000.5	0.79	1.14	1.40	1.59	1.78	1.97	2.12	2.27	2.42	2.54	2.65	2.76	2.88	2.99	3.10	3.22	3.29	3.37	3.48	3.60
0001	1.17	1.51	2.01	2.50	2.84	3.18	3.41	3.60	3.71	3.79	3.97	4.13	4.31	4.47	4.62	4.81	4.92	5.07	5.22	5.34
0001.5	2.38	3.03	3.97	4.92	5.49	6.09	6.78	7.19	7.38	7.57	7.95	8.25	8.63	8.93	9.24	9.61	9.84	10.14	10.45	10.67
0002	3.79	5.30	6.43	7.57	8.33	9.46	9.84	10.60	11.36	12.11	12.72	13.29	13.82	14.35	14.84	15.33	15.78	16.24	16.69	17.15
0003	5.68	7.95	9.84	11.36	12.87	14.00	14.76	15.90	17.03	17.79	18.66	19.49	20.29	21.04	21.80	22.52	23.20	23.88	24.53	25.17
0004	7.57	10.60	13.25	15.14	17.03	18.55	20.06	21.20	22.71	23.85	25.02	26.12	27.18	28.20	29.22	30.17	31.04	31.98	32.85	33.72
0004.5	8.71	12.11	14.76	17.03	19.30	20.82	22.33	23.85	25.74	26.87	28.20	29.45	30.62	31.79	32.89	33.99	34.94	36.07	37.06	38.00
0005	9.46	13.25	16.28	18.93	21.20	23.47	24.98	26.87	28.39	29.90	31.38	32.89	34.10	35.39	36.64	37.81	38.99	40.12	41.22	42.28
0005.5	10.60	14.76	17.79	20.82	23.47	25.74	27.63	29.52	31.42	32.93	34.52	36.07	37.55	38.95	40.35	41.64	42.92	44.17	45.38	46.56
0006	11.36	15.90	19.68	22.71	25.74	28.01	29.90	32.17	34.07	35.96	37.70	39.40	40.99	42.54	44.06	45.50	46.90	48.26	49.55	50.87
0006.5	12.49	17.41	21.20	24.60	27.63	30.28	32.55	34.82	37.09	38.99	40.88	42.69	44.44	46.14	47.73	49.32	50.83	52.31	53.75	55.15
0007	13.25	18.55	22.71	26.50	29.90	32.55	34.82	37.47	39.74	42.01	44.06	46.03	47.92	49.70	51.44	53.14	54.77	56.36	57.91	59.39
0008	15.14	21.20	26.12	30.28	34.07	37.09	40.12	42.77	45.42	47.69	50.00	52.23	54.39	56.43	58.40	60.33	62.19	63.97	65.75	67.45
0009	17.03	23.85	29.14	34.07	38.61	42.01	45.04	48.07	51.10	53.75	56.36	58.89	61.28	63.59	65.82	67.98	70.06	72.10	74.19	76.08
0010	18.93	26.50	32.55	37.85	42.77	46.56	49.96	53.37	56.78	59.80	62.72	65.52	68.17	70.74	73.24	75.66	77.97	80.24	82.51	84.41
0012	22.71	31.79	38.99	45.42	51.48	56.02	59.80	63.97	68.13	71.92	75.44	78.77	81.98	85.09	88.08	90.84	93.87	96.52	99.17	101.82
0015	28.39	39.74	48.83	56.78	63.59	70.02	74.94	80.24	85.16	89.70	94.10	98.26	102.27	105.98	109.77	113.55	116.96	120.36	123.77	126.80
0020	37.85	52.99	65.10	75.70	84.78	93.11	99.92	106.74	113.55	119.61	125.43	130.96	136.26	141.56	146.48	151.40	155.94	160.48	165.03	169.19
0030	56.78	79.49	97.65	113.55	126.80	139.67	149.89	160.11	170.33	179.41	188.11	196.44	204.39	211.96	219.53	227.10	233.91	240.73	247.16	253.60
0040	75.70	105.98	130.20	151.40	169.19	186.22	199.85	213.47	227.10	239.21	250.95	261.92	272.52	283.12	292.96	302.42	311.88	320.97	329.67	338.38
0050	94.63	132.48	162.76	189.25	211.58	232.78	249.81	266.84	283.88	299.02	313.78	327.40	341.03	353.90	366.39	378.12	389.86	401.21	412.19	422.78

## 15° - FAN NOZZLE (S-3)

Nozzle No.	70	140	210	280	350	420	490	560	630	700	770	840	910	980	1,050	1,120	1,190	1,260	1,330	1,400
1501	1.17	1.51	2.01	2.50	2.84	3.18	3.41	3.60	3.71	3.79	3.97	4.13	4.31	4.47	4.62	4.81	4.92	5.07	5.22	5.34
1502	3.79	5.30	6.43	7.57	8.33	9.46	9.84	10.60	11.36	12.11	12.72	13.29	13.82	14.35	14.84	15.33	15.78	16.24	16.69	17.15
1503	5.68	7.95	9.84	11.36	12.87	14.00	14.76	15.90	17.03	17.79	18.66	19.49	20.29	21.04	21.80	22.52	23.20	23.88	24.53	25.17
1504	7.57	10.60	13.25	15.14	17.03	18.55	20.06	21.20	22.71	23.85	25.02	26.12	27.18	28.20	29.22	30.17	31.04	31.98	32.85	33.72
1505	9.46	13.25	16.28	18.93	21.20	23.47	24.98	26.87	28.39	29.90	31.38	32.89	34.10	35.39	36.64	37.81	38.99	40.12	41.22	42.28
1506	11.36	15.90	19.68	22.71	25.74	28.01	29.90	32.17	34.07	35.96	37.70	39.40	40.99	42.54	44.06	45.50	46.90	48.26	49.55	50.87
1507	13.25	18.55	22.71	26.50	29.90	32.55	34.82	37.47	39.74	42.01	44.06	46.03	47.92	49.70	51.44	53.14	54.77	56.36	57.91	59.39
1508	15.14	21.20	26.12	30.28	34.07	37.09	40.12	42.77	45.42	47.69	50.00	52.23	54.39	56.43	58.40	60.33	62.19	63.97	65.75	67.45
1509	17.03	23.85	29.14	34.07	38.61	42.01	45.04	48.07	51.10	53.75	56.36	58.89	61.28	63.59	65.82	67.98	70.06	72.10	74.19	76.08
1510	18.93	26.50	32.55	37.85	42.77	46.56	49.96	53.37	56.78	59.80	62.72	65.52	68.17	70.74	73.24	75.66	77.97	80.24	82.51	84.41
1512	22.71	31.79	38.99	45.42	51.48	56.02	59.80	63.97	68.13	71.92	75.44	78.77	81.98	85.09	88.08	90.84	93.87	96.52	99.17	101.82
1515	28.39	39.74	48.83	56.78	63.59	70.02	74.94	80.24	85.16	89.70	94.10	98.26	102.27	105.98	109.77	113.55	116.96	120.36	123.77	126.80
1520	37.85	52.99	65.10	75.70	84.78	93.11	99.92	106.74	113.55	119.61	125.43	130.96	136.26	141.56	146.48	151.40	155.94	160.48	165.03	169.19
1530	56.78	79.49	97.65	113.55	126.80	139.67	149.89	160.11	170.33	179.41	188.11	196.44	204.39	211.96	219.53	227.10	233.91	240.73	247.16	253.60
1540	75.70	105.98	130.20	151.40	169.19	186.22	199.85	213.47	227.10	239.21	250.95	261.92	272.52	283.12	292.96	302.42	311.88	320.97	329.67	338.38
1550	94.63	132.48	162.76	189.25	211.58	232.78	249.81	266.84	283.88	299.02	313.78	327.40	341.03	353.90	366.39	378.12	389.86	401.21	412.19	422.78