

# Model SDP3 Security Diffuser - Supply Performance Data

## 3/16" Diameter holes on 1/4" Staggered Centers in 16 ga.

Nominal Neck Size		Neck Velocity	200	300	400	500	600	700	800
		Static Pressure	0.04	0.09	0.16	0.24	0.35	0.48	0.62
6"	6"	CFM	50	80	100	130	150	180	200
		NC	<20	<20	20	27	33	38	42
		4 way throw	1 2 4	2 3 6	3 4 8	3 5 10	4 6 11	5 7 12	5 8 13
		3 way throw	2 2 5	3 4 8	3 5 9	4 6 12	5 7 14	6 9 15	6 9 16
		2 way throw	2 3 5	3 4 9	4 5 11	5 7 14	5 8 16	7 10 17	7 11 18
		1 way throw	3 4 8	4 6 12	5 8 15	7 10 20	8 12 23	9 14 25	10 15 26
9"	9"	CFM	110	170	230	280	340	390	450
		NC	<20	<20	25	32	38	43	47
		4 way throw	2 3 6	3 4 9	4 6 12	5 7 14	6 9 17	7 10 18	8 12 20
		3 way throw	2 3 7	4 5 11	5 7 15	6 9 18	7 11 21	8 12 22	9 14 24
		2 way throw	3 4 8	4 6 12	6 8 17	7 10 20	8 12 24	9 14 26	11 16 28
		1 way throw	4 6 11	6 9 18	8 12 24	10 14 29	12 18 34	13 20 36	15 23 39
12"	12"	CFM	200	300	400	500	600	700	800
		NC	<20	20	29	36	42	47	51
		4 way throw	3 4 8	4 6 12	5 8 15	6 10 19	8 12 23	9 14 24	10 15 26
		3 way throw	3 5 9	5 7 14	6 9 19	8 12 24	9 14 28	11 17 30	13 19 32
		2 way throw	4 5 11	5 8 16	7 11 22	9 14 27	11 16 32	13 19 34	15 22 37
		1 way throw	5 8 15	8 12 23	10 15 31	13 19 39	15 23 45	18 27 49	21 31 52
15"	15"	CFM	310	470	630	780	940	1090	1250
		NC	<20	23	32	39	45	50	54
		4 way throw	3 5 10	5 7 15	7 10 20	8 12 24	10 15 28	11 17 30	13 19 33
		3 way throw	4 6 12	6 9 18	8 12 24	10 15 30	12 18 35	14 21 37	16 24 40
		2 way throw	5 7 14	7 10 21	9 14 28	11 17 34	14 21 40	16 24 43	18 27 46
		1 way throw	6 10 19	10 15 29	13 20 39	16 24 48	19 29 56	23 34 61	26 39 65
18"	18"	CFM	450	680	900	1130	1350	1580	1800
		NC	<20	25	34	41	47	52	56
		4 way throw	4 6 12	6 9 18	8 12 23	10 15 29	12 17 34	14 20 37	15 23 39
		3 way throw	5 7 14	7 11 22	9 14 28	12 18 36	14 21 41	17 25 45	19 28 48
		2 way throw	5 8 16	8 12 25	11 16 33	14 21 41	16 25 48	19 29 52	22 33 55
		1 way throw	8 12 23	12 18 35	15 23 46	19 29 58	23 35 68	27 41 73	31 46 78
21"	21"	CFM	610	920	1230	1530	1840	2140	2450
		NC	<20	27	36	43	49	54	58
		4 way throw	5 7 14	7 10 20	9 14 27	11 17 34	14 20 39	16 24 43	18 27 46
		3 way throw	6 8 17	8 12 25	11 17 33	14 21 41	17 25 48	19 29 52	22 33 56
		2 way throw	6 10 19	10 14 29	13 19 38	16 24 48	19 29 56	22 33 60	26 38 64
		1 way throw	9 14 27	14 20 41	18 27 54	23 34 68	27 41 79	32 47 85	36 54 91
24"	24"	CFM	800	1200	1600	2000	2400	2800	3200
		NC	<20	29	38	45	51	56	60
		4 way throw	5 8 15	8 12 23	10 15 31	13 19 39	15 23 45	18 27 49	21 31 52
		3 way throw	6 9 19	9 14 28	13 19 38	16 24 47	19 28 55	22 33 60	25 38 64
		2 way throw	7 11 22	11 16 33	15 22 44	18 27 55	22 33 64	26 38 69	29 44 74
		1 way throw	10 15 31	15 23 46	21 31 62	26 39 77	31 46 90	36 54 97	41 62 104

Data determined in accordance with ANSI/ASHRAE Standard 70-1991

Velocity - Neck Velocity, Fpm

Ps - Static Pressure, inches w.g.

Throw - Distance, in feet, to terminal velocities Vt = 150, 100, 50 Fpm, respectively.

3 Way - Throw distances shown are for the two opposite directions. The other throw distance is equal to the 4 way throw distance.

NC - Noise Criteria with 10 dB room attenuation.