

**Two Way**

Face Velocity		500	600	700	800	900	1000	1200	1400	1600	1800	2000
Pressure Loss		.020	.020	.030	.040	.050	.060	.090	.120	.160	.200	.250
6 x 6 Ak .090	CFM	45	55	65	70	80	90	110	125	145	160	180
	Throw X/Y	2-5/2-5	3-5/3-5	3-6/3-6	3-6/3-6	5-8/5-8	5-9/5-9	5-11/5-11	6-12/6-12	6-14/6-14	8-15/8-15	9-17/9-17
	NC	<20	<20	<20	<20	<20	<20	21	24	28	31	34
8 x 8 Ak .150	CFM	80	95	110	130	145	160	190	225	255	290	320
	Throw X/Y	3-6/3-6	3-6/3-6	5-8/5-8	5-9/5-9	5-11/5-11	6-11/6-11	6-14/6-14	8-15/8-15	9-17/9-17	1-18/11-18	1-20/11-20
	NC	<20	<20	<20	<20	<20	<20	22	26	29	32	35
10 x 10 Ak .250	CFM	130	155	180	210	235	260	310	365	415	470	520
	Throw X/Y	3-8/3-8	5-9/5-9	5-11/5-11	6-11/6-11	6-12/6-12	8-12/8-12	9-15/9-15	1-17/11-17	2-20/12-20	4-21/14-21	5-23/15-23
	NC	<20	<20	<20	<20	<20	<20	23	27	30	33	36
12 x 12 Ak .370	CFM	190	230	265	305	340	380	455	530	610	685	760
	Throw X/Y	5-9/5-9	5-11/5-11	6-12/6-12	8-14/8-14	8-15/8-15	9-17/9-17	1-18/11-18	2-21/12-21	4-23/14-23	5-24/15-24	7-26/17-26
	NC	<20	<20	<20	<20	<20	20	24	28	31	35	37
14 x 14 Ak .520	CFM	260	310	365	415	470	520	625	730	830	935	1040
	Throw X/Y	5-11/5-11	6-12/6-12	8-14/8-14	8-17/8-17	9-18/9-18	1-20/11-20	2-21/12-21	4-23/14-23	7-24/17-24	8-27/18-27	0-29/20-29
	NC	<20	<20	<20	<20	<20	20	25	29	32	35	38
16 x 16 Ak .700	CFM	350	420	490	560	630	700	840	980	1120	1260	1400
	Throw X/Y	6-12/6-12	8-14/8-14	8-17/8-17	9-18/9-18	1-21/11-21	2-23/12-23	4-26/14-26	7-29/17-29	8-30/18-30	1-32/21-32	4-33/24-33
	NC	<20	<20	<20	<20	<20	21	26	30	33	36	39
18 x 18 Ak .900	CFM	450	540	630	720	810	900	1080	1260	1440	1620	1800
	Throw X/Y	6-14/6-14	8-17/8-17	9-18/9-18	1-21/11-21	2-23/12-23	4-24/14-24	7-27/17-27	8-30/18-30	1-33/21-33	4-35/24-35	7-36/27-36
	NC	<20	<20	<20	<20	20	22	27	31	34	37	40
20 x 20 Ak 1.100	CFM	555	665	775	890	1000	1110	1330	1555	1775	2000	2220
	Throw X/Y	8-15/8-15	9-18/9-18	1-21/11-21	2-24/12-24	4-26/14-26	5-29/15-29	8-32/18-32	1-35/21-35	4-38/24-38	7-39/27-39	0-41/30-41
	NC	<20	<20	<20	<20	21	24	28	32	36	39	42

**One-Way**

Face Velocity		500	600	700	800	900	1000	1200	1400	1600	1800	2000
Pressure Loss		.020	.020	.030	.040	.050	.060	.090	.120	.160	.200	.250
6 x 6 Ak .090	CFM	45	55	65	70	80	90	110	125	145	160	180
	Throw	2-6	4-6	4-8	4-8	6-10	6-12	6-14	8-16	8-18	10-20	12-22
	NC	<20	<20	<20	<20	<20	<20	21	24	28	31	34
8 x 8 Ak .150	CFM	80	95	110	130	145	160	190	225	255	290	320
	Throw	4-8	4-8	6-10	6-12	6-14	8-14	8-18	10-20	12-22	14-24	14-26
	NC	<20	<20	<20	<20	<20	<20	22	26	29	32	35
10 x 10 Ak .250	CFM	130	155	180	210	235	260	310	365	415	470	520
	Throw	4-10	6-12	6-14	8-14	8-16	10-16	12-20	14-22	16-26	18-28	20-30
	NC	<20	<20	<20	<20	<20	<20	23	27	30	33	36
12 x 12 Ak .370	CFM	190	230	265	305	340	380	455	530	610	685	760
	Throw	6-12	6-14	8-16	10-18	10-20	12-20	12-22	14-24	16-28	18-30	20-30
	NC	<20	<20	<20	<20	<20	20	24	28	31	35	37
14 x 14 Ak .520	CFM	260	310	365	415	470	520	625	730	830	935	1040
	Throw	6-14	8-16	10-18	10-22	12-24	14-26	16-28	18-30	22-32	24-36	26-38
	NC	<20	<20	<20	<20	<20	20	25	29	32	35	38
16 x 16 Ak .700	CFM	350	420	490	560	630	700	840	980	1120	1260	1400
	Throw	8-16	10-18	10-22	12-24	14-28	16-30	18-34	22-38	24-40	28-42	32-44
	NC	<20	<20	<20	<20	<20	21	26	30	33	36	39
18 x 18 Ak .900	CFM	450	540	630	720	810	900	1080	1260	1440	1620	1800
	Throw	8-18	10-22	12-24	14-28	16-30	18-36	22-36	24-40	28-44	32-46	35-48
	NC	<20	<20	<20	<20	20	22	27	31	34	37	40
20 x 20 Ak 1.100	CFM	555	665	775	890	1000	1110	1330	1555	1775	2000	2220
	Throw	10-20	12-24	14-28	16-32	18-34	20-38	24-42	28-46	32-50	36-52	40-54
	NC	<20	<20	<20	<20	21	24	28	32	36	39	42

**Four-Way**

Face Velocity		500	600	700	800	900	1000	1200	1400	1600	1800	2000
Pressure Loss		.020	.020	.030	.040	.050	.060	.090	.120	.160	.200	.250
6 x 6 Ak .090	CFM	45	55	65	70	80	90	110	125	145	160	180
	Throw X/Y	1-3/1-3	2-3/2-3	2-4/2-4	2-4/2-4	3-5/3-5	3-6/3-6	3-7/3-7	4-8/4-8	4-9/4-9	5-10/5-10	6-11/6-11
	NC	<20	<20	<20	<20	<20	<20	21	24	28	31	34
8 x 8 Ak .150	CFM	80	95	110	130	145	160	190	225	255	290	320
	Throw X/Y	2-4/2-4	2-4/2-4	3-5/3-5	3-6/3-6	3-7/3-7	4-7/4-7	4-9/4-9	5-10/5-10	6-11/6-11	7-12/7-12	7-13/7-13
	NC	<20	<20	<20	<20	<20	<20	22	26	29	32	35
10 x 10 Ak .250	CFM	130	155	180	210	235	260	310	365	415	470	520
	Throw X/Y	2-5/2-5	3-6/3-6	3-7/3-7	4-7/4-7	4-8/4-8	5-8/5-8	6-10/6-10	7-11/7-11	8-13/8-13	9-14/9-14	10-15/10-15
	NC	<20	<20	<20	<20	<20	<20	23	27	30	33	36
12 x 12 Ak .370	CFM	190	230	265	305	340	380	455	530	610	685	760
	Throw X/Y	3-6/3-6	3-7/3-7	4-8/4-8	5-9/5-9	5-10/5-10	6-11/6-11	7-12/7-12	8-14/8-14	8-15/8-15	10-16/10-16	11-17/11-17
	NC	<20	<20	<20	<20	<20	20	24	28	31	35	37
14 x 14 Ak .520	CFM	260	310	365	415	470	520	625	730	830	935	1040
	Throw X/Y	3-7/3-7	4-8/4-8	5-9/5-9	5-11/5-11	6-12/6-12	7-13/7-13	8-14/8-14	9-15/9-15	11-16/11-16	12-18/12-18	13-19/13-19
	NC	<20	<20	<20	<20	<20	20	25	29	32	35	38
16 x 16 Ak .700	CFM	350	420	490	560	630	700	840	980	1120	1260	1400
	Throw X/Y	4-8/4-8	5-9/5-9	5-11/5-11	6-12/6-12	7-14/7-14	8-15/8-15	9-17/9-17	11-19/11-19	12-20/12-20	14-21/14-21	16-22/16-22
	NC	<20	<20	<20	<20	<20	21	26	30	33	36	39
18 x 18 Ak .900	CFM	450	540	630	720	810	900	1080	1260	1440	1620	1800
	Throw X/Y	4-9/4-9	5-11/5-11	6-12/6-12	7-14/7-14	8-15/8-15	9-16/9-16	11-18/11-18	12-20/12-20	14-22/14-22	16-23/16-23	18-24/18-24
	NC	<20	<20	<20	<20	20	22	27	31	34	37	40
20 x 20 Ak 1.100	CFM	555	665	775	890	1000	1110	1330	1555	1775	2000	2220
	Throw X/Y	5-10/5-10	6-12/6-12	7-14/7-14	8-16/8-16	9-17/9-17	10-19/10-19	12-21/12-21	14-23/14-23	16-25/16-25	18-26/18-26	20-27/20-27
	NC	<20	<20	<20	<20	21	24	28	32	36	39	42

**Three-Way**

Face Velocity		500	600	700	800	900	1000	1200	1400	1600	1800	2000
Pressure Loss		.020	.020	.030	.040	.050	.060	.090	.120	.160	.200	.250
6 x 6 Ak .090	CFM	45	55	65	70	80	90	110	125	145	160	180
	Throw	1-3/2-5	2-3/3-5	2-4/3-6	2-4/3-6	3-5/5-8	3-6/5-9	3-7/5-11	4-8/6-12	4-9/6-14	5-10/8-15	6-11/9-17
	NC	<20	<20	<20	<20	<20	<20	21	24	28	31	34
8 x 8 Ak .150	CFM	80	95	110	130	145	160	190	225	255	290	320
	Throw	2-4/3-6	2-4/3-6	3-5/5-8	3-6/5-9	3-7/5-11	4-7/6-11	4-9/6-14	5-10/8-15	6-11/9-17	7-12/11-18	7-13/11-20
	NC	<20	<20	<20	<20	<20	<20	22	26	29	32	35
10 x 10 Ak .250	CFM	130	155	180	210	235	260	310	365	415	470	520
	Throw	2-5/3-8	3-6/5-9	3-7/5-11	4-7/6-11	4-8/6-12	5-8/8-12	6-10/9-15	7-11/11-17	8-13/12-20	9-14/14-21	10-15/15-23
	NC	<20	<20	<20	<20	<20	<20	23	27	30	33	36
12 x 12 Ak .370	CFM	190	230	265	305	340	380	455	530	610	685	760
	Throw	3-6/5-9	3-7/5-11	4-8/6-12	5-9/8-14	5-10/8-15	6-11/9-17	7-12/11-18	8-14/12-21	9-15/14-23	10-16/15-24	11-17/17-26
	NC	<20	<20	<20	<20	<20	20	24	28	31	35	37
14 x 14 Ak .520	CFM	260	310	365	415	470	520	625	730	830	935	1040
	Throw	3-7/5-11	4-8/6-12	5-9/8-14	5-11/8-17	6-12/9-18	7-13/11-20	8-14/12-21	9-15/14-23	11-16/17-24	12-18/18-27	13-19/20-29
	NC	<20	<20	<20	<20	<20	20	25	29	32	35	38
16 x 16 Ak .700	CFM	350	420	490	560	630	700	840	980	1120	1260	1400
	Throw	4-8/6-12	5-9/8-14	5-11/8-17	6-12/9-18	7-14/11-21	8-15/12-23	9-17/14-26	11-19/17-29	12-20/18-30	14-21/21-32	16-22/24-33
	NC	<20	<20	<20	<20	<20	21	26	30	33	36	39
18 x 18 Ak .900	CFM	450	540	630	720	810	900	1080	1260	1440	1620	1800
	Throw	4-9/6-14	5-11/8-17	6-12/9-18	7-14/11-21	8-15/12-23	9-16/14-24	11-18/17-27	12-20/18-30	14-22/21-33	16-23/24-35	18-24/27-36
	NC	<20	<20	<20	<20	20	22	27	31	34	37	40
20 x 20 Ak 1.100	CFM	555	665	775	890	1000	1110	1330	1555	1775	2000	2220
	Throw	5-10/8-15	6-12/9-18	7-14/11-21	8-16/12-24	9-17/14-26	10-19/15-29	12-21/18-32	14-23/21-35	16-25/24-38	18-26/27-39	20-27/30-41
	NC	<20	<20	<20	<20	21	24	28	32	36	39	42