

# TAMCO ALUMINUM DAMPER TORQUE REQUIREMENTS

		DAMPER WIDTH (in.)								
		12	18	24	30	36	42	48	54	60
DAMPER HEIGHT (in.)	12	20	22	24	26	27	30	31	33	35
	18	24	26	28	30	32	34	36	38	40
	24	28	31	33	35	38	40	43	45	47
	30	33	36	39	42	45	47	50	53	56
	36	37	40	44	47	50	53	56	59	62
	42	40	44	47	50	54	57	61	64	67
	48	44	47	51	54	58	62	65	69	72
	54	47	50	54	58	62	66	70	73	77
	60	51	56	60	64	68	72	77	81	85
	66	56	60	65	70	73	78	82	86	91
72	59	63	68	72	77	81	85	90	94	

		DAMPER WIDTH (in.)								
		12	18	24	30	36	42	48	54	60
DAMPER HEIGHT (in.)	12	2	4	5	6	7	9	10	11	12
	18	3	5	6	8	9	11	12	14	15
	24	4	6	7	9	11	13	15	16	18
	30	5	7	9	11	13	15	17	19	21
	36	5	8	10	12	15	17	19	22	24
	42	6	9	11	14	16	19	22	24	27
	48	7	10	12	15	18	21	24	27	30
	54	7	11	14	17	20	23	26	29	32
	60	8	12	15	18	22	25	28	32	35
	66	9	13	16	20	23	27	31	34	38
72	10	14	17	21	25	29	33	37	41	

		DAMPER WIDTH (in.)								
		12	18	24	30	36	42	48	54	60
DAMPER HEIGHT (in.)	12	3	5	7	10	12	14	17	19	21
	18	5	9	13	16	20	23	27	31	34
	24	8	13	17	22	27	32	37	42	47
	30	10	16	22	29	35	41	48	54	60
	36	12	20	27	35	43	50	58	66	73
	42	14	23	32	41	50	59	68	77	87
	48	16	27	37	48	58	68	79	89	100
	54	18	30	42	54	66	77	90	101	113
	60	21	34	47	60	73	86	100	113	126
	66	23	37	52	66	81	95	110	124	139
72	25	41	57	73	88	120	136	136	152	

**NOTE:**

Refer to Blade Design Pressure Limitations to ensure that the damper is within the stated design limits in respect to maximum static pressure. (See Series 9000 BF/9000 ECT/9000/9000 SC/9000 SW/1500/1500 SW/1000/1000 SW/1400/1400 SW literature.)

Note that all technical information available on TAMCO's web site at [www.tamcodampers.com](http://www.tamcodampers.com) supersedes and takes precedence over all information contained within this catalog.

**SEALING TORQUE (in.-lbs.)**

up to 2 in. and 1000 fpm face velocity

Values in Sealing Torque chart (left) reflect the maximum torque requirements up to 2 in. w.g. and/or 1000 fpm face velocity. Refer to Velocity or Pressure Torque charts (below) if system design surpasses criteria of Sealing Torque chart. Base torque requirements on the greatest value obtained.

**VELOCITY TORQUE (in.-lbs.)**

@ 1000 fpm face velocity

Multiply value in Velocity Torque chart by the multiplier listed below to obtain torque for greater design face velocity.

VELOCITY (FPM)	MULTIPLIER
1500	2.5
2000	4
2500	6.25
3000	9
3500	12.25
4000	16

**PRESSURE TORQUE (in.-lbs.)**

@ 2 in. w.g. differential

Multiply value in Pressure Torque chart by the multiplier listed below to obtain torque for greater design pressure.

DIFFERENTIAL PRESSURE	MULTIPLIER
3	1.5
4	2
5	2.5
6	3