

VELOCITY AND PRESSURE TORQUE REQUIREMENTS (IN-LBS)

OPPOSED BLADE DAMPERS

		Width (inches)								
		12	18	24	30	36	42	48	54	60
Height (inches)	12	18.4	19.0	20.6	21.9	22.8	23.7	24.6	25.5	27.5
	18	19.3	20.1	21.3	24.1	27.2	30.3	33.4	36.5	40.2
	24	20.1	21.1	22.0	26.4	31.7	37.0	42.2	47.5	52.8
	30	22.1	24.3	26.4	33.0	39.6	46.2	52.8	59.4	66.0
	36	26.6	29.1	31.7	39.6	47.5	55.4	63.4	71.3	79.2
	42	30.9	34.0	37.0	46.2	55.4	64.7	73.9	83.2	92.4
	48	35.4	38.8	42.2	52.8	63.4	73.9	84.5	95.0	105.6
	54	39.8	43.7	47.5	59.4	71.3	83.2	95.0	106.9	118.8
	60	44.3	48.5	52.8	66.0	79.2	92.4	105.6	118.8	132.0
	66	48.8	53.5	63.0	72.6	87.1	101.6	116.2	130.7	145.2
	72	53.2	58.3	68.8	79.2	95.0	110.9	126.7	142.6	158.4
	78	57.8	63.1	74.5	85.8	103.0	120.1	137.3	154.4	171.6
76	67.5	76.0	90.9	105.6	126.7	147.8	169.0	190.1	211.2	

PARALLEL BLADE DAMPERS

		Width (inches)								
		12	18	24	30	36	42	48	54	60
Height (inches)	12	22.0	22.8	24.8	26.5	28.4	30.2	32.1	33.9	36.9
	18	23.1	24.2	25.6	31.1	35.6	40.1	44.7	49.1	54.2
	24	24.2	25.3	26.4	35.8	42.9	50.1	57.2	64.4	71.5
	30	26.8	31.3	35.8	44.7	53.6	62.6	71.5	80.4	89.4
	36	32.2	37.5	42.9	53.6	64.4	75.1	85.8	96.5	107.3
	42	37.5	43.8	50.1	62.6	75.1	87.6	100.1	112.6	125.1
	48	42.9	50.1	57.2	71.5	85.8	100.1	114.4	128.7	143.0
	54	48.2	56.3	68.2	80.4	96.5	112.6	128.7	144.8	160.9
	60	53.7	62.5	75.9	89.4	107.3	125.1	143.0	160.9	178.8
	66	59.1	68.9	83.6	98.3	118.0	137.6	157.3	177.0	196.6
	72	64.5	75.1	91.2	107.3	128.7	150.2	171.6	193.1	214.5
	78	69.9	81.4	98.8	116.2	139.4	162.7	185.9	209.1	232.4
76	82.5	98.5	120.8	143.0	171.6	200.2	228.8	257.4	286.0	

To obtain the torque requirement based on design face velocity, and static pressure, multiply the value obtained in the charts above by the applicable multiplier listed at right.

NOTE:

TAMCO recommends that an actuator with a minimum torque rating of 35 in-lbs be selected for all damper sizes having a torque requirement of 35 in-lbs or less.

VELOCITY (FPM)	STATIC PRESSURE (IN. W.G.)									
	2	4	6	8	10	12	14	16	18	20
0 – 2000	1.00	1.39	1.91	2.45	3.07	3.81	4.69	5.73	6.96	8.45
2001 – 3000	1.19	1.79	2.47	3.16	3.97	4.91	6.05	7.39	8.98	10.89
3001 – 4000	1.53	2.31	3.17	4.06	5.10	6.32	7.78	9.51	11.56	14.01
4001 – 5000	1.96	2.96	4.08	5.21	6.54	8.11	9.99	12.21	14.83	17.99



SPX ENGINEERED AIR MOVEMENT

80 Lorne Street
Smiths Falls, ON K7A 5J7, Canada
800 561 3449
tamcodampers.com

TA-TR-HDCD-TECH-24 | ISSUED 01/2024
© 2024 SPX Engineered Air Movement | All rights reserved
In the interest of technological progress, all products are
subject to design and/or material change without notice.

