

FEET SQUARED

FLANGED TO DUCT

DARK GREY LINE IN CHARTS



**INSTALLED
IN DUCT**

WHITE LINE IN CHARTS



**SQUARE TO ROUND
TRANSITION**

PALE GREY LINE IN CHARTS



		Width (inches)									
		12	24	36	48	60	72	84	96	108	120
Height (inches)	12	0.611	1.221	1.832	2.443	3.053	3.460	4.071	4.682	5.292	5.903
		0.285	0.687	1.090	1.492	1.894	2.196	2.598	3.001	3.403	3.805
		0.559	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	24	1.444	2.888	4.332	5.776	7.220	8.183	9.627	11.071	12.515	13.959
		0.875	2.111	3.347	4.582	5.818	6.745	7.980	9.216	10.452	11.687
		n/a	2.441	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	36	2.111	4.221	6.332	8.443	10.553	11.960	14.071	16.182	18.292	20.403
		1.466	3.535	5.604	7.673	9.742	11.293	13.362	15.431	17.500	19.569
		n/a	n/a	5.599	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	48	2.944	5.888	8.832	11.776	14.720	16.683	19.627	22.571	25.515	28.459
		1.997	4.816	7.635	10.454	13.273	15.387	18.206	21.025	23.844	26.663
		n/a	n/a	n/a	9.757	n/a	n/a	n/a	n/a	n/a	n/a
60	3.777	7.555	11.332	15.109	18.887	21.405	25.182	28.960	32.737	36.514	
	2.528	6.097	9.666	13.235	16.804	19.481	23.050	26.619	30.188	33.757	
	n/a	n/a	n/a	14.126	n/a	n/a	n/a	n/a	n/a	n/a	
72	4.611	9.221	13.832	18.443	21.516	26.127	30.738	35.348	38.422	43.033	
	3.118	7.521	11.923	16.325	19.627	24.029	28.432	32.834	35.769	40.171	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
84	5.055	10.019	15.164	20.219	25.273	28.643	33.698	38.752	43.807	48.862	
	3.433	8.279	13.125	17.972	22.818	26.453	31.299	36.146	40.922	45.838	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
96	5.721	11.443	17.164	22.885	28.607	32.421	38.142	43.864	49.585	55.306	
	4.023	9.703	15.382	21.062	26.742	31.002	36.681	42.361	48.041	53.720	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
108	6.555	13.109	19.664	26.219	32.773	37.143	43.698	50.252	56.807	63.362	
	4.613	11.126	17.639	24.152	30.665	35.550	42.063	48.576	55.089	61.602	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	

METERS SQUARED

		Width (mm)									
		305	610	915	1220	1525	1829	2134	2439	2744	3048
Height (mm)	305	0.057	0.113	0.170	0.227	0.284	0.321	0.378	0.435	0.492	0.548
		0.026	0.064	0.101	0.139	0.176	0.204	0.241	0.279	0.316	0.353
		0.052	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	610	0.134	0.268	0.402	0.537	0.671	0.760	0.894	1.029	1.163	1.297
		0.059	0.196	0.311	0.426	0.541	0.627	0.741	0.856	0.971	1.086
		n/a	0.227	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	915	0.196	0.392	0.588	0.784	0.980	1.111	1.307	1.503	1.699	1.896
		0.136	0.328	0.521	0.713	0.905	1.049	1.241	1.434	1.626	1.818
		n/a	n/a	0.520	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	1220	0.274	0.547	0.821	1.094	1.368	1.550	1.823	2.097	2.370	2.644
		0.186	0.447	0.709	0.971	1.233	1.429	1.691	1.953	2.215	2.477
		n/a	n/a	n/a	0.906	n/a	n/a	n/a	n/a	n/a	n/a
1525	0.351	0.702	1.053	1.404	1.755	1.989	2.339	2.690	3.041	3.392	
	0.235	0.566	0.898	1.230	1.561	1.810	2.141	2.473	2.805	3.136	
	n/a	n/a	n/a	n/a	1.312	n/a	n/a	n/a	n/a	n/a	
1829	0.428	0.857	1.243	1.713	1.999	2.427	2.856	3.284	3.570	3.998	
	0.290	0.699	1.108	1.517	1.823	2.232	2.641	3.050	3.323	3.732	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
2134	0.470	0.939	1.409	1.878	2.348	2.661	3.131	3.600	4.070	4.539	
	0.319	0.769	1.219	1.670	2.120	2.458	2.908	3.358	3.808	4.258	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
2439	0.531	1.063	1.595	2.126	2.658	3.012	3.544	4.075	4.607	5.138	
	0.374	0.901	1.429	1.957	2.484	2.880	3.408	3.935	4.463	4.991	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
2744	0.609	1.218	1.827	2.436	3.045	3.451	4.060	4.669	5.278	5.887	
	0.429	1.034	1.639	2.244	2.849	3.303	3.908	4.513	5.118	5.723	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	

PERCENTAGE

		Width (inches)									
		12	24	36	48	60	72	84	96	108	120
Height (inches)	12	61.10	61.05	61.07	61.08	61.06	57.67	58.16	58.53	58.80	59.03
		28.50	34.35	36.33	37.30	37.88	36.60	37.11	37.51	37.81	38.05
		55.90	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	24	72.20	72.20	72.20	72.20	72.20	68.19	68.76	69.19	69.53	69.80
		43.75	52.78	55.78	57.28	58.18	56.21	57.00	57.60	58.07	58.44
		n/a	61.01	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	36	70.37	70.35	70.36	70.36	70.35	66.44	67.00	67.43	67.75	68.01
		48.87	58.92	62.27	63.94	64.95	62.74	63.63	64.30	64.81	65.23
		n/a	n/a	62.21	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	48	73.60	73.60	73.60	73.60	73.60	69.51	70.10	70.53	70.88	71.15
		49.93	60.20	63.63	65.34	66.37	64.11	65.02	65.70	66.23	66.66
		n/a	n/a	n/a	60.98	n/a	n/a	n/a	n/a	n/a	n/a
60	75.54	75.55	75.55	75.55	75.55	71.35	71.95	72.40	72.75	73.03	
	50.56	60.97	64.44	66.18	67.22	64.94	65.86	66.55	67.08	67.51	
	n/a	n/a	n/a	n/a	56.50	n/a	n/a	n/a	n/a	n/a	
72	76.85	76.84	76.84	76.85	71.72	72.58	73.19	73.64	71.15	71.72	
	51.97	62.68	66.24	68.02	65.42	66.75	67.70	68.40	66.24	66.95	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
84	72.21	72.21	72.21	72.21	72.21	68.20	68.77	69.20	69.53	69.80	
	49.04	59.14	62.50	64.19	65.19	62.98	63.88	64.55	65.07	65.48	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
96	71.51	71.52	71.52	71.52	71.52	67.54	68.11	68.54	68.87	69.13	
	50.29	60.64	64.09	65.82	66.86	64.59	65.50	66.19	66.72	67.15	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
108	72.83	72.83	72.83	72.83	72.83	68.78	69.36	69.79	70.13	70.40	
	51.26	61.81	65.33	67.09	68.14	65.83	66.77	67.47	68.01	68.45	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	

NOTE:

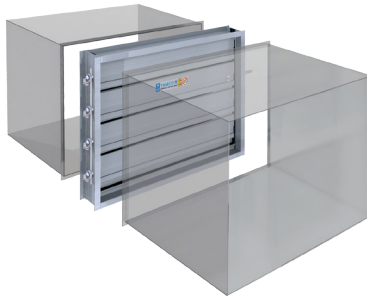
Series 9000 BF dampers are not available as Installed In Duct.

To reduce pressure drop, use Flanged to Duct install type for sizes under 9 ft² (0.83 m²).

SP dampers sized for duct openings exceeding 37 3/4" (959 mm) in height are equipped with a brace at mid-height, to strengthen and maintain air leakage tolerances.

FLANGED TO DUCT

DARK GREY LINE IN CHARTS



**INSTALLED
IN DUCT**

WHITE LINE IN CHARTS



**SQUARE TO ROUND
TRANSITION**

PALE GREY LINE IN CHARTS



NOTE:

Series 9000 BF dampers are not available as Installed In Duct.

To reduce pressure drop, use Flanged to Duct install type for sizes under 9 ft² (0.83 m²).

NP dampers sized for duct openings exceeding 35 3/4" (908 mm) in height are equipped with a brace at mid-height, to strengthen and maintain air leakage tolerances.

FEET SQUARED

		Width (inches)									
		12	24	36	48	60	72	84	96	108	120
Height (inches)	12	0.527	1.055	1.582	2.109	2.637	2.988	3.516	4.043	4.570	5.098
		0.285	0.687	1.090	1.492	1.894	2.196	2.598	3.001	3.403	3.805
		0.497	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
24	1.194	2.388	3.582	4.776	5.970	6.766	7.96	9.154	10.348	11.542	
	0.875	2.111	3.347	4.582	5.818	6.745	7.980	9.216	10.452	11.687	
	n/a	2.176	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
36	1.861	3.721	5.582	7.443	9.303	10.544	12.404	14.265	16.126	17.986	
	1.466	3.535	5.604	7.673	9.742	11.293	13.362	15.431	17.500	19.569	
	n/a	n/a	4.841	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
48	2.611	5.221	7.832	10.443	13.053	14.794	17.404	20.015	22.626	25.236	
	1.997	4.816	7.635	10.454	13.273	15.387	18.206	21.025	23.844	26.663	
	n/a	n/a	n/a	8.574	n/a	n/a	n/a	n/a	n/a	n/a	
60	3.277	6.555	9.832	13.109	16.387	18.572	21.849	25.126	28.404	31.681	
	2.528	6.097	9.666	13.235	16.804	19.481	23.050	26.619	30.188	33.757	
	n/a	n/a	n/a	n/a	12.371	n/a	n/a	n/a	n/a	n/a	

METERS SQUARED

		Width (mm)									
		305	610	915	1220	1525	1829	2134	2439	2744	3048
Height (mm)	305	0.049	0.098	0.147	0.196	0.245	0.278	0.327	0.376	0.425	0.474
		0.026	0.064	0.101	0.139	0.176	0.204	0.241	0.279	0.316	0.353
		0.046	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
610	0.111	0.222	0.333	0.444	0.555	0.629	0.740	0.850	0.961	1.072	
	0.081	0.196	0.311	0.426	0.541	0.627	0.741	0.856	0.971	1.086	
	n/a	0.202	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
915	0.173	0.346	0.519	0.691	0.864	0.980	1.152	1.325	1.498	1.671	
	0.136	0.328	0.521	0.713	0.905	1.049	1.241	1.434	1.626	1.818	
	n/a	n/a	0.450	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
1220	0.243	0.485	0.728	0.970	1.213	1.374	1.617	1.859	2.102	2.345	
	0.186	0.447	0.709	0.971	1.233	1.429	1.691	1.953	2.215	2.477	
	n/a	n/a	n/a	0.797	n/a	n/a	n/a	n/a	n/a	n/a	
1525	0.304	0.609	0.913	1.218	1.522	1.725	2.030	2.334	2.639	2.943	
	0.235	0.566	0.898	1.230	1.561	1.810	2.141	2.473	2.805	3.136	
	n/a	n/a	n/a	n/a	1.149	n/a	n/a	n/a	n/a	n/a	

PERCENTAGE

		Width (inches)									
		12	24	36	48	60	72	84	96	108	120
Height (inches)	12	52.70	52.75	52.73	52.73	52.74	49.80	56.86	50.54	50.78	50.98
		28.50	34.35	36.33	37.30	37.88	36.60	37.11	37.51	37.81	38.05
		49.70	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
24	59.70	59.70	59.70	59.70	59.70	56.38	56.86	57.21	57.49	57.71	
	43.75	52.78	55.78	57.28	58.18	56.21	57.00	57.60	58.07	58.44	
	n/a	54.39	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
36	62.03	62.02	62.02	62.03	62.02	58.58	59.07	59.44	59.73	59.95	
	48.87	58.92	62.27	63.94	64.95	62.74	63.63	64.30	64.81	65.23	
	n/a	n/a	53.79	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
48	65.28	65.26	65.27	65.27	65.27	61.64	62.16	62.55	62.85	63.09	
	49.93	60.20	63.63	65.34	66.37	64.11	65.02	65.70	66.23	66.66	
	n/a	n/a	n/a	53.59	n/a	n/a	n/a	n/a	n/a	n/a	
60	65.54	65.55	65.55	65.55	65.55	61.91	62.43	62.82	63.12	63.36	
	50.56	60.97	64.44	66.18	67.22	64.94	65.86	66.55	67.08	67.51	
	n/a	n/a	n/a	n/a	49.48	n/a	n/a	n/a	n/a	n/a	

FLANGED TO DUCT



FEET SQUARED

		Width (inches)									
		12	24	36	48	60	72	84	96	108	120
Height (inches)	12	0.791	1.582	2.374	3.165	3.956	4.483	5.274	6.066	6.857	7.648
	24	1.625	3.249	4.874	6.498	8.123	9.206	10.83	12.454	14.079	15.704
	36	2.291	4.582	6.874	9.165	11.456	12.983	15.274	17.566	19.857	22.148
	48	3.124	6.249	9.374	12.498	15.623	17.706	20.83	23.955	27.079	30.203
	60	3.958	7.916	11.874	15.831	19.789	22.428	26.386	30.343	34.301	38.259

METERS SQUARED

		Width (mm)									
		305	610	915	1220	1525	1829	2134	2439	2744	3048
Height (mm)	305	0.073	0.147	0.221	0.294	0.368	0.416	0.490	0.564	0.637	0.711
	610	0.151	0.302	0.453	0.604	0.755	0.855	1.006	1.157	1.308	1.459
	915	0.213	0.426	0.639	0.851	1.064	1.206	1.419	1.632	1.845	2.058
	1220	0.290	0.581	0.871	1.161	1.451	1.645	1.935	2.225	2.516	2.806
	1525	0.368	0.735	1.103	1.471	1.838	2.084	2.451	2.819	3.187	3.554

PERCENTAGE

		Width (inches)									
		12	24	36	48	60	72	84	96	108	120
Height (inches)	12	79.10	79.10	79.13	79.13	79.12	74.72	75.34	75.83	76.19	76.48
	24	81.25	81.23	81.23	81.23	81.23	76.72	77.36	77.84	78.22	78.52
	36	76.37	76.37	76.38	76.38	76.37	72.13	72.73	73.19	73.54	73.83
	48	78.10	78.11	78.12	78.11	78.12	73.78	74.39	74.86	75.22	75.51
	60	79.16	79.16	79.16	79.16	79.16	74.76	75.39	75.86	76.22	76.52

NOTE:

Series 9000 BF dampers are not available as WP – Wide Profile.

WP dampers sized for duct openings exceeding 37¾" (959 mm) in height are equipped with a brace at mid-height, to strengthen and maintain air leakage tolerances.



SPX ENGINEERED AIR MOVEMENT

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