

Steel Models

VW, VG, VF, AG, AF, EF, ER

Venturi GPM Flow vs Differential Pressure

16 to 775 GPM



Engineering
GREAT Solutions

Steel Models

VW, VG, VF, AW, AG, AF, EF, ER

Differential Pressure: Inches W.C. 16 to 260 GPM

Differential Pressure: Inches W.C.													
Flow GPM	Models												
	200L	200H	250L	250H	300L	300H	400L	400H	500L	500H	600L	600H	800L
16	10												
18	13												
20	16												
22	19												
24	23												
26	27	10	11										
28	31	11	12										
30	36	13	14										
32	41	15	16										
34	46	17	18										
36	52	19	20										
38	58	21	23										
40	64	23	25										
42	71	26	28										
44	77	28	30										
46	85	31	33										
48	92	33	36										
50	100	36	39										
55	121	44	47		11								
60	144	52	56	11	14								
65	169	61	66	13	16								
70	196	71	77	15	18								
75	225	82	88	17	21								
80	256	93	100	20	24								
85	289	105	113	22	27								
90	324	118	127	25	30								
95	361	131	141	28	34		10						
100	400	145	156	31	38		11						
120		209	225	44	54	13	16						
130		245	264	52	64	15	19	10	11				
140		285	306	60	74	17	22	12	12				
150		327	352	69	85	20	25	13	14				
160		372	400	79	96	23	28	15	16				
170		420	452	89	109	26	32	17	18				
180		470		100	122	29	36	19	20				
190				111	136	32	40	21	23				
200				123	151	36	44	24	25				
220				149	182	43	54	29	30				
240				178	217	51	64	34	36		10		
260				209	254	60	75	40	42	10	12		

Steel Models

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Differential Pressure: Inches W.C. 280 to 775 GPM

Differential Pressure: Inches W.C.													
Flow GPM	Models												
	200L	200H	250L	250H	300L	300H	400L	400H	500L	500H	600L	600H	800L
280				242	295	70	87	47	49	12	14		
300				278	339	80	100	54	56	13	16		
325				326	396	94	117	63	66	16	19		
350				278	461	109	136	73	77	18	22		
375				434		125	156	84	88	21	25		
400				494		143	178	95	100	24	28		
425						161	201	107	113	27	32		11
450						180	225	120	127	30	36		12
475						201	251	134	141	33	40	10	13
500						223	278	149	156	37	44	11	15
525						246	305	164	172	40	48	13	16
550						270	336	180	189	44	53	14	18
575						295	367	197	207	49	58	15	19
600						321	400	214	225	53	63	16	21
625						348	434	232	244	57	69	18	23
650						376	469	251	264	62	74	19	25
675						406		271	285	67	80	21	27
700						437		291	306	72	86	22	29
725						468		313	329	77	92	24	31
750								335	352	83	99	26	33
775								357	375	88	106	27	35

Notes:

1. Permanent pressure loss equals 10 percent of differential pressure (DP).
2. The recommended ranges are shown in bold. All differentials have been rounded to the nearest inch.
3. Generally, the recommended low DP signal is 24" so it can be read on most HVAC instruments. DPs below 12" are not accurate on some sizes.
4. The upper DP limit is an effort to minimize the permanent pressure loss which is 10 percent of the DP signal. Any venturi can be operated above the recommended range if the permanent pressure drop is acceptable.
5. The DPs in the table were calculated using the following formula:

$$DP = \left(\frac{GPM * 17.3}{FF} \right)^2$$

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Differential Pressure: Inches W.C. 16 to 260 GPM

Differential Pressure: Inches W.C.												
Flow GPM	Models											
	500H	600L	600H	800L	800H	1000L	1000H	1200L	1200H	1400L	1400H	1600L
775	88	106	27	35		16						
800	94	113	29	38		17						
825	100	120	31	40		18						
850	106	127	33	42		20						
875	112	135	35	45	10	21						
900	119	143	37	47	11	22						
925	126	151	39	50	11	23						
950	133	159	41	53	12	24						
975	140	167	43	56	13	26						
1000	147	176	46	59	13	27						
1100	178	213	55	71	16	33		11				
1200	212	253	66	84	19	39		13				
1300	248	297	77	99	22	46	11	16				
1400	288	345	89	115	26	53	12	18		10		
1500	331	396	103	132	30	61	14	21		11		
1600	376	450	117	150	34	69	16	24	11	13		
1700	425		132	169	38	78	18	27	12	14		10
1800	476		148	190	43	88	20	30	14	16	10	12
1900			165	212	48	98	23	33	15	18	11	13
2000			183	235	53	109	25	37	17	20	12	14
2200			221	284	64	131	30	44	20	24	15	17
2400			263	338	76	156	36	53	24	29	17	21
2600			309	396	89	183	42	62	28	34	21	24
2800			358	460	104	213	49	72	33	39	24	28
3000			411		119	244	56	83	38	45	27	32
3200			467		135	278	64	94	43	51	31	37
3400					153	314	72	106	48	58	35	42
3600					171	352	81	119	54	65	39	47
3800					191	392	90	133	60	72	44	52
4000					212	434	100	147	67	80	49	58
4200					233	479	110	162	74	88	54	64
4400					256		121	178	81	97	59	70
4600					280		132	194	88	106	64	76
4800					305		144	212	96	115	70	83
5000					331		156	230	105	125	76	90
5500					400		189	278	127	151	92	109
6000					476		225	331	151	180	109	130

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Differential Pressure: Inches W.C. 6500 to 12500 GPM

Differential Pressure: Inches W.C.												
Flow GPM	Models											
	500H	600L	600H	800L	800H	1000L	1000H	1200L	1200H	1400L	1400H	1600L
6500							264	388	177	211	128	152
7000							306	450	205	245	149	176
7500							352		235	282	171	203
8000							400		268	320	194	230
8500							452		302	362	219	260
9000									339	405	246	292
9500									377	452	274	325
10000									418	500	304	360
10500									461		335	397
11000											367	436
11500											401	476
12000											437	
12500											474	

MODEL	200L	200H	250L	250H	300L	300H	400L	400H	500L	500H	600L
FF	86.5	143.6	138.4	311.4	282	580	519	709	692	1427	1304
MODEL	600H	800L	800H	1000L	1000H	1200L	1200H	1400L	1400H	1600L	
FF	2560	2259	4758	3322	6920	5709	8460	7733	9930	9117	

