

## Pitot Tube Readings Converted To Velocity (FPM)

VP = Velocity Pressure - In. Of Water Gauge      V = Velocity FPM - From:  $V = 4005 \times \text{Square Root Of VP}$

VP	V	VP	V	VP	V	VP	V	VP	V	VP	V	VP	V
0.050	896	0.600	3,102	1.150	4,295	1.700	5,222	2.250	6,007	2.800	6,702	3.350	7,330
0.075	1,097	0.625	3,166	1.175	4,341	1.725	5,260	2.275	6,041	2.825	6,731	3.375	7,358
0.100	1,266	0.650	3,229	1.200	4,387	1.750	5,298	2.300	6,074	2.850	6,761	3.400	7,385
0.125	1,416	0.675	3,290	1.225	4,433	1.775	5,336	2.325	6,107	2.875	6,791	3.425	7,412
0.150	1,551	0.700	3,351	1.250	4,478	1.800	5,373	2.350	6,140	2.900	6,820	3.450	7,439
0.175	1,675	0.725	3,410	1.275	4,522	1.825	5,410	2.375	6,172	2.925	6,850	3.475	7,466
0.200	1,791	0.750	3,468	1.300	4,566	1.850	5,447	2.400	6,205	2.950	6,879	3.500	7,493
0.225	1,900	0.775	3,526	1.325	4,610	1.875	5,484	2.425	6,237	2.975	6,908	3.525	7,519
0.250	2,003	0.800	3,582	1.350	4,653	1.900	5,521	2.450	6,269	3.000	6,937	3.550	7,546
0.275	2,100	0.825	3,638	1.375	4,696	1.925	5,557	2.475	6,301	3.025	6,966	3.575	7,573
0.300	2,194	0.850	3,692	1.400	4,739	1.950	5,593	2.500	6,332	3.050	6,994	3.600	7,599
0.325	2,283	0.875	3,746	1.425	4,781	1.975	5,628	2.525	6,364	3.075	7,023	3.625	7,625
0.350	2,369	0.900	3,799	1.450	4,823	2.000	5,664	2.550	6,395	3.100	7,052	3.650	7,652
0.375	2,453	0.925	3,852	1.475	4,864	2.025	5,699	2.575	6,427	3.125	7,080	3.675	7,678
0.400	2,533	0.950	3,904	1.500	4,905	2.050	5,734	2.600	6,458	3.150	7,108	3.700	7,704
0.425	2,611	0.975	3,955	1.525	4,946	2.075	5,769	2.625	6,489	3.175	7,136	3.725	7,730
0.450	2,687	1.000	4,005	1.550	4,986	2.100	5,804	2.650	6,520	3.200	7,164	3.750	7,756
0.475	2,760	1.025	4,055	1.575	5,026	2.125	5,838	2.675	6,550	3.225	7,192	3.775	7,781
0.500	2,832	1.050	4,104	1.600	5,066	2.150	5,872	2.700	6,581	3.250	7,220	3.800	7,807
0.525	2,902	1.075	4,152	1.625	5,105	2.175	5,907	2.725	6,611	3.275	7,248	3.825	7,833
0.550	2,970	1.100	4,200	1.650	5,145	2.200	5,940	2.750	6,642	3.300	7,275	3.850	7,858
0.575	3,037	1.125	4,248	1.675	5,183	2.225	5,974	2.775	6,672	3.325	7,303	3.875	7,884

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VP	V	VP	V	VP	V	VP	V	VP	V	VP	V	VP	V
0.050	896	0.600	3,102	1.150	4,295	1.700	5,222	2.250	6,007	2.800	6,702	3.350	7,330
0.075	1,097	0.625	3,166	1.175	4,341	1.725	5,260	2.275	6,041	2.825	6,731	3.375	7,358
0.100	1,266	0.650	3,229	1.200	4,387	1.750	5,298	2.300	6,074	2.850	6,761	3.400	7,385
0.125	1,416	0.675	3,290	1.225	4,433	1.775	5,336	2.325	6,107	2.875	6,791	3.425	7,412
0.150	1,551	0.700	3,351	1.250	4,478	1.800	5,373	2.350	6,140	2.900	6,820	3.450	7,439
0.175	1,675	0.725	3,410	1.275	4,522	1.825	5,410	2.375	6,172	2.925	6,850	3.475	7,466
0.200	1,791	0.750	3,468	1.300	4,566	1.850	5,447	2.400	6,205	2.950	6,879	3.500	7,493
0.225	1,900	0.775	3,526	1.325	4,610	1.875	5,484	2.425	6,237	2.975	6,908	3.525	7,519
0.250	2,003	0.800	3,582	1.350	4,653	1.900	5,521	2.450	6,269	3.000	6,937	3.550	7,546
0.275	2,100	0.825	3,638	1.375	4,696	1.925	5,557	2.475	6,301	3.025	6,966	3.575	7,573
0.300	2,194	0.850	3,692	1.400	4,739	1.950	5,593	2.500	6,332	3.050	6,994	3.600	7,599
0.325	2,283	0.875	3,746	1.425	4,781	1.975	5,628	2.525	6,364	3.075	7,023	3.625	7,625
0.350	2,369	0.900	3,799	1.450	4,823	2.000	5,664	2.550	6,395	3.100	7,052	3.650	7,652
0.375	2,453	0.925	3,852	1.475	4,864	2.025	5,699	2.575	6,427	3.125	7,080	3.675	7,678
0.400	2,533	0.950	3,904	1.500	4,905	2.050	5,734	2.600	6,458	3.150	7,108	3.700	7,704
0.425	2,611	0.975	3,955	1.525	4,946	2.075	5,769	2.625	6,489	3.175	7,136	3.725	7,730
0.450	2,687	1.000	4,005	1.550	4,986	2.100	5,804	2.650	6,520	3.200	7,164	3.750	7,756
0.475	2,760	1.025	4,055	1.575	5,026	2.125	5,838	2.675	6,550	3.225	7,192	3.775	7,781
0.500	2,832	1.050	4,104	1.600	5,066	2.150	5,872	2.700	6,581	3.250	7,220	3.800	7,807
0.525	2,902	1.075	4,152	1.625	5,105	2.175	5,907	2.725	6,611	3.275	7,248	3.825	7,833
0.550	2,970	1.100	4,200	1.650	5,145	2.200	5,940	2.750	6,642	3.300	7,275	3.850	7,858
0.575	3,037	1.125	4,248	1.675	5,183	2.225	5,974	2.775	6,672	3.325	7,303	3.875	7,884

### Pitot Tube Readings Converted To Velocity (FPM)

VP = Velocity Pressure - In. Of Water Gauge      V = Velocity FPM - From:  $V = 4005 \times \text{Square Root Of VP}$

VP	V	VP	V	VP	V	VP	V	VP	V	VP	V	VP	V
0.05	896	1.15	4,295	2.25	6,008	3.35	7,330	4.45	8,449	6.10	9,892	8.30	11,538
0.10	1,266	1.20	4,387	2.30	6,074	3.40	7,385	4.50	8,496	6.20	9,972	8.40	11,608
0.15	1,551	1.25	4,478	2.35	6,140	3.45	7,439	4.55	8,543	6.30	10,052	8.50	11,676
0.20	1,791	1.30	4,566	2.40	6,205	3.50	7,493	4.60	8,590	6.40	10,132	8.60	11,745
0.25	2,003	1.35	4,653	2.45	6,269	3.55	7,546	4.65	8,636	6.50	10,211	8.70	11,813
0.30	2,194	1.40	4,739	2.50	6,332	3.60	7,599	4.70	8,683	6.60	10,289	8.80	11,881
0.35	2,369	1.45	4,823	2.55	6,395	3.65	7,652	4.75	8,729	6.70	10,367	8.90	11,948
0.40	2,533	1.50	4,905	2.60	6,458	3.70	7,704	4.80	8,775	6.80	10,444	9.00	12,015
0.45	2,687	1.55	4,986	2.65	6,520	3.75	7,756	4.85	8,820	6.90	10,520	9.10	12,082
0.50	2,832	1.60	5,066	2.70	6,581	3.80	7,807	4.90	8,865	7.00	10,596	9.20	12,148
0.55	2,970	1.65	5,145	2.75	6,642	3.85	7,858	4.95	8,911	7.10	10,672	9.30	12,214
0.60	3,102	1.70	5,222	2.80	6,702	3.90	7,909	5.00	8,955	7.20	10,747	9.40	12,279
0.65	3,229	1.75	5,298	2.85	6,761	3.95	7,960	5.10	9,045	7.30	10,821	9.50	12,344
0.70	3,351	1.80	5,373	2.90	6,820	4.00	8,010	5.20	9,133	7.40	10,895	9.60	12,409
0.75	3,468	1.85	5,447	2.95	6,879	4.05	8,060	5.30	9,220	7.50	10,968	9.70	12,474
0.80	3,582	1.90	5,521	3.00	6,937	4.10	8,110	5.40	9,307	7.60	11,041	9.80	12,538
0.85	3,692	1.95	5,593	3.05	6,994	4.15	8,159	5.50	9,393	7.70	11,113	9.90	12,601
0.90	3,799	2.00	5,664	3.10	7,052	4.20	8,208	5.60	9,478	7.80	11,185	10.00	12,665
0.95	3,904	2.05	5,734	3.15	7,108	4.25	8,257	5.70	9,562	7.90	11,257	10.10	12,728
1.00	4,005	2.10	5,804	3.20	7,164	4.30	8,305	5.80	9,645	8.00	11,328	10.20	12,791
1.05	4,104	2.15	5,872	3.25	7,220	4.35	8,353	5.90	9,728	8.10	11,398	10.30	12,853
1.10	4,200	2.20	5,940	3.30	7,275	4.40	8,401	6.00	9,810	8.20	11,469	10.40	12,916

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0.05	896	1.15	4,295	2.25	6,008	3.35	7,330	4.45	8,449	6.10	9,892	8.30	11,538
0.10	1,266	1.20	4,387	2.30	6,074	3.40	7,385	4.50	8,496	6.20	9,972	8.40	11,608
0.15	1,551	1.25	4,478	2.35	6,140	3.45	7,439	4.55	8,543	6.30	10,052	8.50	11,676
0.20	1,791	1.30	4,566	2.40	6,205	3.50	7,493	4.60	8,590	6.40	10,132	8.60	11,745
0.25	2,003	1.35	4,653	2.45	6,269	3.55	7,546	4.65	8,636	6.50	10,211	8.70	11,813
0.30	2,194	1.40	4,739	2.50	6,332	3.60	7,599	4.70	8,683	6.60	10,289	8.80	11,881
0.35	2,369	1.45	4,823	2.55	6,395	3.65	7,652	4.75	8,729	6.70	10,367	8.90	11,948
0.40	2,533	1.50	4,905	2.60	6,458	3.70	7,704	4.80	8,775	6.80	10,444	9.00	12,015
0.45	2,687	1.55	4,986	2.65	6,520	3.75	7,756	4.85	8,820	6.90	10,520	9.10	12,082
0.50	2,832	1.60	5,066	2.70	6,581	3.80	7,807	4.90	8,865	7.00	10,596	9.20	12,148
0.55	2,970	1.65	5,145	2.75	6,642	3.85	7,858	4.95	8,911	7.10	10,672	9.30	12,214
0.60	3,102	1.70	5,222	2.80	6,702	3.90	7,909	5.00	8,955	7.20	10,747	9.40	12,279
0.65	3,229	1.75	5,298	2.85	6,761	3.95	7,960	5.10	9,045	7.30	10,821	9.50	12,344
0.70	3,351	1.80	5,373	2.90	6,820	4.00	8,010	5.20	9,133	7.40	10,895	9.60	12,409
0.75	3,468	1.85	5,447	2.95	6,879	4.05	8,060	5.30	9,220	7.50	10,968	9.70	12,474
0.80	3,582	1.90	5,521	3.00	6,937	4.10	8,110	5.40	9,307	7.60	11,041	9.80	12,538
0.85	3,692	1.95	5,593	3.05	6,994	4.15	8,159	5.50	9,393	7.70	11,113	9.90	12,601
0.90	3,799	2.00	5,664	3.10	7,052	4.20	8,208	5.60	9,478	7.80	11,185	10.00	12,665
0.95	3,904	2.05	5,734	3.15	7,108	4.25	8,257	5.70	9,562	7.90	11,257	10.10	12,728
1.00	4,005	2.10	5,804	3.20	7,164	4.30	8,305	5.80	9,645	8.00	11,328	10.20	12,791
1.05	4,104	2.15	5,872	3.25	7,220	4.35	8,353	5.90	9,728	8.10	11,398	10.30	12,853
1.10	4,200	2.20	5,940	3.30	7,275	4.40	8,401	6.00	9,810	8.20	11,469	10.40	12,916

## Smoke Tube Data Converted To Velocity (FPM)

Velocity = Distance (Ft.) / Time (Sec.) X 60 X 0.9 From Bulletin 589

Time Sec.	Velocity - FPM				Time Sec.	Velocity - FPM				Time Sec.	Velocity - FPM			
	5 Ft.	10 Ft.	15 Ft.	20 Ft.		5 Ft.	10 Ft.	15 Ft.	20 Ft.		5 Ft.	10 Ft.	15 Ft.	20 Ft.
5.0	54	108	162	216	15.5	17	35	52	70	26.0	10	21	31	42
5.5	49	98	147	196	16.0	17	34	51	68	26.5	10	20	31	41
6.0	45	90	135	180	16.5	16	33	49	65	27.0	10	20	30	40
6.5	42	83	125	166	17.0	16	32	48	64	27.5	10	20	29	39
7.0	39	77	116	154	17.5	15	31	46	62	28.0	10	19	29	39
7.5	36	72	108	144	18.0	15	30	45	60	28.5	9	19	28	38
8.0	34	68	101	135	18.5	15	29	44	58	29.0	9	19	28	37
8.5	32	64	95	127	19.0	14	28	43	57	29.5	9	18	27	37
9.0	30	60	90	120	19.5	14	28	42	55	30.0	9	18	27	36
9.5	28	57	85	114	20.0	14	27	41	54	30.5	9	18	27	35
10.0	27	54	81	108	20.5	13	26	40	53	31.0	9	17	26	35
10.5	26	51	77	103	21.0	13	26	39	51	31.5	9	17	26	34
11.0	25	49	74	98	21.5	13	25	38	50	32.0	8	17	25	34
11.5	23	47	70	94	22.0	12	25	37	49	32.5	8	17	25	33
12.0	23	45	68	90	22.5	12	24	36	48	33.0	8	16	25	33
12.5	22	43	65	86	23.0	12	23	35	47	33.5	8	16	24	32
13.0	21	42	62	83	23.5	11	23	34	46	34.0	8	16	24	32
13.5	20	40	60	80	24.0	11	23	34	45	34.5	8	16	23	31
14.0	19	39	58	77	24.5	11	22	33	44	35.0	8	15	23	31
14.5	19	37	56	74	25.0	11	22	32	43	35.5	8	15	23	30
15.0	18	36	54	72	25.5	11	21	32	42	36.0	8	15	23	30

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Velocity = Distance (Ft.) / Time (Sec.) X 60 X 0.9 From Bulletin 589

Time Sec.	Velocity - FPM				Time Sec.	Velocity - FPM				Time Sec.	Velocity - FPM			
	5 Ft.	10 Ft.	15 Ft.	20 Ft.		5 Ft.	10 Ft.	15 Ft.	20 Ft.		5 Ft.	10 Ft.	15 Ft.	20 Ft.
5.0	54	108	162	216	15.5	17	35	52	70	26.0	10	21	31	42
5.5	49	98	147	196	16.0	17	34	51	68	26.5	10	20	31	41
6.0	45	90	135	180	16.5	16	33	49	65	27.0	10	20	30	40
6.5	42	83	125	166	17.0	16	32	48	64	27.5	10	20	29	39
7.0	39	77	116	154	17.5	15	31	46	62	28.0	10	19	29	39
7.5	36	72	108	144	18.0	15	30	45	60	28.5	9	19	28	38
8.0	34	68	101	135	18.5	15	29	44	58	29.0	9	19	28	37
8.5	32	64	95	127	19.0	14	28	43	57	29.5	9	18	27	37
9.0	30	60	90	120	19.5	14	28	42	55	30.0	9	18	27	36
9.5	28	57	85	114	20.0	14	27	41	54	30.5	9	18	27	35
10.0	27	54	81	108	20.5	13	26	40	53	31.0	9	17	26	35
10.5	26	51	77	103	21.0	13	26	39	51	31.5	9	17	26	34
11.0	25	49	74	98	21.5	13	25	38	50	32.0	8	17	25	34
11.5	23	47	70	94	22.0	12	25	37	49	32.5	8	17	25	33
12.0	23	45	68	90	22.5	12	24	36	48	33.0	8	16	25	33
12.5	22	43	65	86	23.0	12	23	35	47	33.5	8	16	24	32
13.0	21	42	62	83	23.5	11	23	34	46	34.0	8	16	24	32
13.5	20	40	60	80	24.0	11	23	34	45	34.5	8	16	23	31
14.0	19	39	58	77	24.5	11	22	33	44	35.0	8	15	23	31
14.5	19	37	56	74	25.0	11	22	32	43	35.5	8	15	23	30
15.0	18	36	54	72	25.5	11	21	32	42	36.0	8	15	23	30