


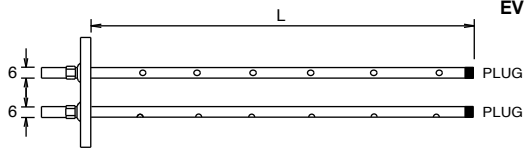
AIR VELOCITY / AVERAGING PITOT TUBES

EVP..

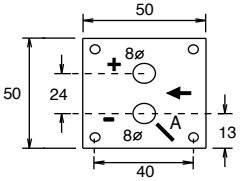
<p>These units consist of tubes with holes along the length which can be used to sense the average air velocity across air ducts. Suitable for use with our EDT.. Air Differential Pressure Transmitters.</p>	 <p style="text-align: center;">EVP..</p>	<p>INSTALLATION:</p> <p>For smaller ducts the tubes can be cut to length. The end plugs must then be refitted.</p> <p>Mount away from bends, elbows and turbulent areas.</p> <p>Each flange has a neoprene gasket.</p> <p>EVP-300 / EVP-500 - These units can be installed from outside the duct and the tubes are self-supporting.</p>
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Type	Length between flange(s) mm	Mounting	Pressure Connection	Tube Material
EVP-300	300	1 Flange	Brass 6mm Push-on	Brass 6mm OD
EVP-500	500	1 Flange	Brass 6mm Push-on	Brass 6mm OD

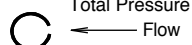
DIMENSIONS:

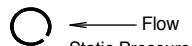


EVP..



- +** Senses total pressure. Holes must face air flow directly
- Senses static pressure. Rotate tube up or down towards position 'A' approx angle 36-42° to obtain correct Velocity Pressure for the required Air Velocity.
Velocity Pressure = Total Pressure - Static Pressure


Total Pressure
Ensure that the arrow on the flange plate points in the direction of air flow.


Static Pressure

CALCULATIONS:

To calculate the Air Velocity, use table below or the following equation:

$$\text{Air Velocity} = \sqrt{\frac{2 \times \text{Velocity Pressure}}{1.2}}$$

Example: Velocity Pressure is 62.42 Pa
This equates to **10.2m/s** Air Velocity *

When velocity pressure is established, the ADP Transmitter can be selected, ie with a range of 0 - 100 Pa.

TABLE OF VELOCITY PRESSURE IN PASCALS AGAINST VELOCITY IN METRES PER SECOND

m/s	0	0.1	0.2 *	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0	0.00	0.01	0.02	0.05	0.10	0.15	0.22	0.29	0.38	0.49
1	0.60	0.73	0.86	1.01	1.18	1.35	1.54	1.73	1.94	2.17
2	2.40	2.65	2.90	3.17	3.46	3.75	4.06	4.37	4.70	5.05
3	5.40	5.77	6.14	6.53	6.94	7.35	7.78	8.21	8.66	9.13
4	9.60	10.09	10.58	11.09	11.62	12.15	12.70	13.25	13.82	14.41
5	15.00	15.61	16.22	16.85	17.50	18.15	18.82	19.49	20.18	20.89
6	21.60	22.33	23.06	23.81	24.58	25.35	26.14	26.93	27.74	28.57
7	29.40	30.25	31.10	31.97	32.86	33.75	34.66	35.57	36.50	37.45
8	38.40	39.37	40.34	41.33	42.34	43.35	44.38	45.41	46.46	47.53
9	48.60	49.69	50.78	51.89	53.02	54.15	55.30	56.45	57.62	58.81
10 *	60.00	61.21	62.42 *	63.65	64.90	66.15	67.42	68.69	69.98	71.29
11	72.60	73.93	75.26	76.61	77.98	79.35	80.74	82.13	83.54	84.97
12	86.40	87.85	89.30	90.77	92.26	93.75	95.26	96.77	98.30	99.85
13	101.40	102.97	104.54	106.13	107.74	109.35	110.98	112.61	114.26	115.93
14	117.60	119.29	120.98	122.69	124.42	126.15	127.90	129.65	131.42	133.21
15	135.00	136.81	138.62	140.45	142.30	144.15	146.02	147.89	149.78	151.69
16	153.60	155.53	157.46	159.41	161.38	163.35	165.34	167.33	169.34	171.37
17	173.40	175.45	177.50	179.57	181.66	183.75	185.86	187.97	190.10	192.25
18	194.40	196.57	198.74	200.93	203.14	205.35	207.58	209.81	212.06	214.33
19	216.60	218.89	221.18	223.49	225.82	228.15	230.50	232.85	235.22	237.61
20	240.00	242.41	244.82	247.25	249.70	252.15	254.62	257.09	259.58	262.09
21	264.60	267.13	269.66	272.21	274.78	277.35	279.94	282.53	285.14	287.77
22	290.40	293.05	295.70	298.37	301.06	303.75	306.46	309.17	311.90	314.65
23	317.40	320.17	322.94	325.73	328.54	331.35	334.18	337.01	339.86	342.73
24	345.60	348.49	351.38	354.29	357.22	360.15	363.10	366.05	369.02	372.01
25	375.00	378.01	381.02	384.05	387.10	390.15	393.22	396.29	399.38	402.49
26	405.60	408.73	411.86	415.01	418.18	421.35	424.54	427.73	430.94	434.17
27	437.40	440.65	443.90	447.17	450.46	453.75	457.06	460.37	463.70	467.05
28	470.40	473.77	477.14	480.53	483.94	487.35	490.78	494.21	497.66	501.13
29	504.60	508.09	511.58	515.09	518.62	522.15	525.70	529.25	532.82	536.41
30	540.00	543.61	547.22	550.85	554.50	558.15	561.82	565.49	569.18	572.89