FLO•WING®

"ACCURACY AT THE WELL" METER

Developed by ENERGYneering Solutions Inc.® to overcome the challenges of current wellhead technology, the Flo-Wing® Meter provides landfill operators the widest measurement range, unobstructed liquid passage and varied placement options. These attributes result in reduced maintenance costs, reduced facility down-time and increased confidence in flow measurement. Accuracy has been proven through calibration by Flow Dynamics Inc., Elkins Earthworks, the mechanical engineering department of George Fox University, and through field testing at landfill sites around the country. The Flo-Wing® Meter is compatible with any of today's commonly used monitoring instruments. ESI/ISCO is flexible in their manufacturing process to include a variety of custom options to best fit your application and save valuable field assembly time. The second generation of Flo-Wing® inserts are molded from Royalite thermoplastic, "a rigid, fire-rated [PVC/acrylic] alloy which combines very high impact strength, good abrasion resistance, stiffness and hardness with excellent formability and exceptional chemical resistance" (Spartech Plastics).

Design Advantages:

- Wide flow measurement
- Horizontal and vertical placement
- Unobstructed liquid passage
- Reduced maintenance and downtime
- Accurate flow measurements

Sizes:

	1" (Model #180)	2" (Model #264)	3" (Model #360)
Recommended Flow Measurement Range	0 to 10 scfm	3 to 120 scfm	100 to 300 scfm
Equivalent Orifice Size for use with GEM	0.55 in.	1.30 in	2.10 in
Pipe ID	0.92 in	1.91 in	2.86

Available Options:

- Piping Materials – PVC, CPVC, HDPE
- Standard Configurations – Vertical Wellhead, Horizontal Wellhead, Meter Run
- Custom Options – Valves, Monitoring Ports, Flanges, Unions, Fernco® Fittings, Kanaflex® Hose & Clamps, Centralizing Supports and Accessories.

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ENERGYNEERING SOLUTIONS INC

541.549.8766 • WWW.FLO-WING.COM

Patent Pending

FLO•WING®
METER

Flow Rate Reference Tables:

For those who prefer to measure flow using a manometer or differential pressure gauge.

FLO-WING 1" (Model #180)			
Diff. Pressure (inH2O)	*Flow Rate (SCFM)*	*Diff. Pressure (inH20)*	*Flow Rate (SCFM)*
0.01	0.38	6.50	9.69
0.02	0.54	7.00	10.05
0.03	0.66	7.50	10.40
0.04	0.76	8.00	10.75
0.05	0.85	8.50	11.08
0.10	1.20	9.00	11.40
0.20	1.70	9.50	11.71
0.40	2.40	10.00	12.01
0.60	2.94	10.50	12.31
0.80	3.40	11.00	12.60
1.00	3.80	11.50	12.88
1.20	4.16	12.00	13.16
1.40	4.50	12.50	13.43
1.60	4.81	13.00	13.70
1.80	5.10	13.50	13.96
2.00	5.37	14.00	14.22
2.20	5.64	14.50	14.47
2.40	5.89	15.00	14.71
2.60	6.13	15.50	14.96
2.80	6.36	16.00	15.20
3.00	6.58	16.50	15.43
3.20	6.80	17.00	15.66
3.40	7.01	17.50	15.89
3.60	7.21	18.00	16.12
3.80	7.41	18.50	16.34
4.00	7.60	19.00	16.56
4.20	7.79	19.50	16.78
4.40	7.97	20.00	16.99
4.60	8.15	20.50	17.20
4.80	8.32	21.00	17.41
5.00	8.50	21.50	17.62
5.20	8.66	22.00	17.82
5.40	8.83	22.50	18.02
5.60	8.99	23.00	18.22
5.80	9.15	23.50	18.42
6.00	9.31	24.00	18.61

FLO-WING 2" (Model #264)			
Diff. Pressure (inH2O)	*Flow Rate (SCFM)*	*Diff. Pressure (inH20)*	*Flow Rate (SCFM)*
0.01	2.8	6.50	72.1
0.02	4.0	7.00	74.8
0.03	4.9	7.50	77.5
0.04	5.7	8.00	80.0
0.05	6.3	8.50	82.5
0.10	8.9	9.00	84.9
0.20	12.7	9.50	87.2
0.40	17.9	10.00	89.5
0.60	21.9	10.50	91.7
0.80	25.3	11.00	93.8
1.00	28.3	11.50	95.9
1.20	31.0	12.00	98.0
1.40	33.5	12.50	100.0
1.60	35.8	13.00	102.0
1.80	38.0	13.50	103.9
2.00	40.0	14.00	105.8
2.20	42.0	14.50	107.7
2.40	43.8	15.00	109.6
2.60	45.6	15.50	111.4
2.80	47.3	16.00	113.1
3.00	49.0	16.50	114.9
3.20	50.6	17.00	116.6
3.40	52.2	17.50	118.3
3.60	53.7	18.00	120.0
3.80	55.1	18.50	121.7
4.00	56.6	19.00	123.3
4.20	58.0	19.50	124.9
4.40	59.3	20.00	126.5
4.60	60.7	20.50	128.1
4.80	62.0	21.00	129.6
5.00	63.3	21.50	131.2
5.20	64.5	22.00	132.7
5.40	65.7	22.50	134.2
5.60	66.9	23.00	135.7
5.80	68.1	23.50	137.1
6.00	69.3	24.00	138.6

FLO-WING 3" (Model #360)			
Diff. Pressure (inH2O)	*Flow Rate (SCFM)*	*Diff. Pressure (inH20)*	*Flow Rate (SCFM)*
0.01	6.7	6.50	171.3
0.02	9.5	7.00	177.7
0.03	11.6	7.50	184.0
0.04	13.4	8.00	190.0
0.05	15.0	8.50	195.9
0.10	21.2	9.00	201.5
0.20	30.0	9.50	207.1
0.40	42.5	10.00	212.4
0.60	52.0	10.50	217.7
0.80	60.1	11.00	222.8
1.00	67.2	11.50	227.8
1.20	73.6	12.00	232.7
1.40	79.5	12.50	237.5
1.60	85.0	13.00	242.2
1.80	90.1	13.50	246.8
2.00	95.0	14.00	251.4
2.20	99.6	14.50	255.8
2.40	104.1	15.00	260.2
2.60	108.3	15.50	264.5
2.80	112.4	16.00	268.7
3.00	116.4	16.50	272.9
3.20	120.2	17.00	277.0
3.40	123.9	17.50	281.0
3.60	127.5	18.00	285.0
3.80	131.0	18.50	288.9
4.00	134.4	19.00	292.8
4.20	137.7	19.50	296.7
4.40	140.9	20.00	300.4
4.60	144.1	20.50	304.2
4.80	147.2	21.00	307.9
5.00	150.2	21.50	311.5
5.20	153.2	22.00	315.1
5.40	156.1	22.50	318.7
5.60	159.0	23.00	322.2
5.80	161.8	23.50	325.7
6.00	164.6	24.00	329.1

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