



FLO-WING[®]

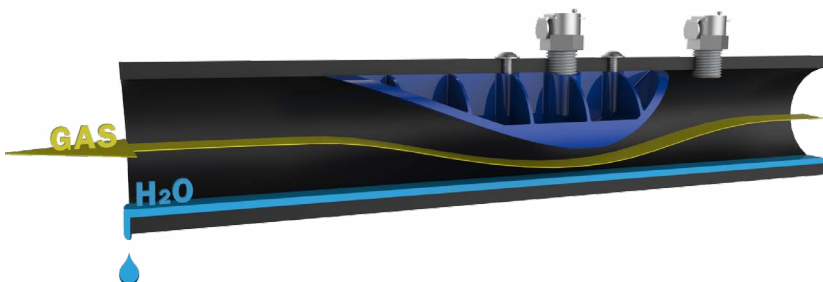
METER

Developed to overcome the challenges of previous wellhead technology, the Flo-Wing[®] Meter provides landfill operators the widest measurement range, unobstructed liquid passage and varied placement options. With thousands of units in operation, accuracy of the Flo-Wing[®] Meter is trusted at landfill sites throughout the country and around the globe. Calibration has been verified by multiple entities including Flow Dynamics Inc., Elkins Earthworks, and the mechanical engineering department at an Oregon university.

While it is programed specifically into the Envision™ Meter, the Flo-Wing[®] Meter is compatible with any of today's commonly used monitoring instruments through use of an equivalent orifice size. ISCO Industries is flexible in their manufacturing process to include a variety of options to best fit your application. With the exception of some custom applications, Flo-Wing[®] inserts are molded CPVC which is pre-installed in HDPE, PVC, or CPVC pipe. Custom materials and sizing available upon request.

DESIGN ADVANTAGES:

- Unobstructed liquid passage
- Accurate and dependable measurements
- Wide flow measurement range
- Geometry for low vacuum loss
- Horizontal and vertical placement



SIZES:

	1" FLO-WING [®]	2" FLO-WING [®]	3" FLO-WING [®]
Recommended Flow Range	0 to 10 scfm	3 to 120 scfm	100 to 300 scfm
Equivalent Orifice Size	0.55 in.	1.30 in	2.10 in
Pipe ID	0.92 in	1.91 in	2.86

AVAILABLE OPTIONS:

Standard Materials :

HDPE (DR-11), PVC (SCH 80), CPVC (SCH 80)

Custom Materials :

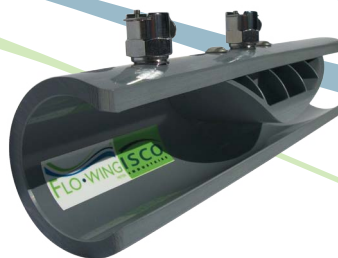
304 SS (.065" Wall), 316 SS (.065" Wall)

Standard Configurations :

Vertical Wellhead, Horizontal Wellhead, Meter Run



WELLHEAD ASSEMBLIES AVAILABLE THROUGH:



FLOW RATE REFERENCE TABLES:

1" FLO-WING® METER

Diff. Pressure (inH ₂ O)	Flow Rate (SCFM)	Diff. Pressure (inH ₂ O)	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

2" FLO-WING® METER

Diff. Pressure (inH ₂ O)	Flow Rate (SCFM)	Diff. Pressure (inH ₂ O)	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

3" FLO-WING® METER

Diff. Pressure (inH ₂ O)	Flow Rate (SCFM)	Diff. Pressure (inH ₂ O)	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

Note: Flow rate reference tables are generated based on assumed gas conditions of Temp = 100 °F and Pressure = (-10 inH₂O).

WELLHEAD ASSEMBLIES AVAILABLE THROUGH:



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www.FLO-WING.com

PATENT # 8,528,420