

GENERAL

ALIAMAG AMF601 Series is a sanitary type electromagnetic flowmeter ideal for conductive liquids. It comes in sizes from 25mm to 100 mm. The AMF601 is widely used for drink water, milk, food & beverage juice and many other industrial fluid.

AMF601 Series electromagnetic flowmeter could be used in compact or separate model with AMC Series converter of electromagnetic flowmeter.

FEATURES

- ❑ Light and compact version
- ❑ Flow Velocity range: 0-12 m/s, precise in low flow applications
- ❑ IDF Tri-Clamp or Union screw Connection
- ❑ Excellent for high pressure application
- ❑ Protection class: IP68 available; sensor submersible
- ❑ PTFE Liner is suitable for vacuum tube
- ❑ High accuracy of $\pm 0.4\%$ value of reading (or $\pm 0.2\%$ value of reading)
- ❑ With Forward / Reverse flowrate measurement function

STANDARD SPECIFICATION



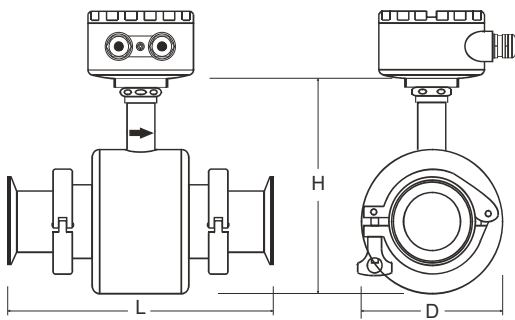
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|--------------------|---|------------------------|--|
| ● Size | : 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4" | ● Cable Entry | : Standard :PG11 Option:1/2"NPTF |
| ● Measuring Range | : Velocity 0-0.25 m/s min.
0-12 m/s max. | ● Ambient Temperature | : -13 ... 140 °F |
| ● Material | Tube & Connection : Stainless Steel 304 or 316
Coil Housing : Stainless Steel 304 (Standard)
: Stainless Steel 316 (Option)
Liner : PTFE
Electrode : Stainless Steel 316L
: Hastelloy B
: Hastelloy C
: Titanium
: Tantalum
: Tungsten Carbide
: Platinum | ● Process Connection | : IDF Tri-Clamp
: Union Screw |
| ● Protection Class | : Junction box IP67, Body IP68
: IP68 (Submersible) | ● Grounding Resistance | : Must be less than 10 |
| ● Conductivity | : More than 5 uS/cm | ● Accuracy | : $\pm 0.5\%$ reading (Velocity ≥ 0.5 m/s)
: $\pm 0.2\%$ reading
(Suitable for AMC3100 converter only)
: ± 0.0025 m/s (Velocity < 0.5 m/s) |
| | | ● Temperature | : -40 ... 302 °F |
| | | ● Max. Pressure | : 10 Kg/cm ² (Standard)
: 40 Kg/cm ² (Option) |
| | | ● Explosion Proof | : Exd(ib)ibqIIBT5
(with AMC3100/AMC3200 only) |

FLOW RANGE

Unit: M³/Hr

Normal Size		Flow Range & Velocity Table						
mm	Inch	Min. 0 - 0.25M/S	1.0 M/S	2.0 M/S	3.0 M/S	5.0 M/S	10.0 M/S	Max. 0 - 12 M/S
25	1"	0 to 0.44	1.77	3.53	5.30	8.84	17.7	0 to 21.2
32	1-1/4"	0 to 0.72	2.90	5.79	8.69	14.5	29.0	0 to 34.7
40	1-1/2"	0 to 1.13	4.52	9.05	13.6	22.6	45.2	0 to 54.3
50	2"	0 to 1.77	7.07	14.1	21.2	35.3	70.7	0 to 84.8
65	2-1/2"	0 to 2.99	11.9	23.9	35.8	59.7	119	0 to 143
80	3"	0 to 4.52	18.1	36.2	54.3	90.5	181	0 to 217
100	4"	0 to 7.07	28.3	56.5	84.8	141	283	0 to 339

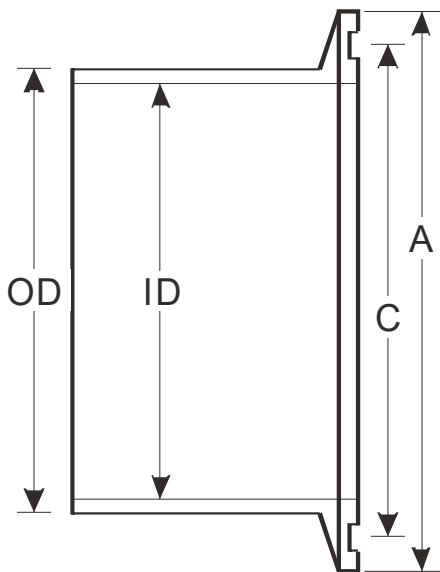
DIMENSIONS



Size		Dimensions (mm)			Weight
mm	Inch	L	D	H	lb
25	1"	220	99	160	5.7
32	1-1/4"	220	104	165	6.6
40	1-1/2"	220	104	165	7.9
50	2"	250	124	185	10.4
65	2-1/2"	250	144	205	13.2
80	3"	250	154	215	17.9
100	4"	290	192	253	19.5

TRI-CLAMP SPECIFICATIONS

Unit: mm

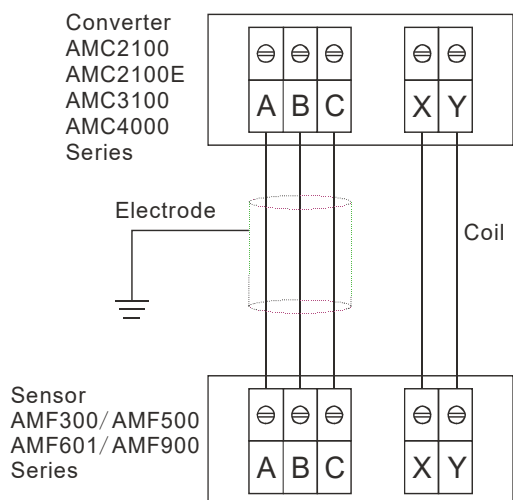


HAB							
Pipe Size	1"		1-1/2"	2"	2-1/2"	3"	4"
	25		40	50	65	80	100
ID	22.1		34.8	47.5	60.2	72.9	97.4
OD	25.4		38.1	50.8	63.5	76.2	101.6
A	50.4		50.4	64.0	77.4	91.0	118.9
C	43.6		43.6	56.3	70.6	83.3	110.3

HDB (DIN 32676)							
Pipe Size	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
	25	32	40	50	65	80	100
ID	26.0	32.0	38.0	50.0	66.0	81.0	100
OD	30.0	36.0	42.0	54.0	70.0	85.0	104
A	50.5	50.5	50.5	64.0	91.0	106	119
C	43.5	43.5	43.5	56.5	83.5	97.0	110

HKB (ISO 2852)							
Pipe Size	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
	25	32	40	50	65	80	100
ID	22.6	31.3	35.6	48.6	60.3	72.9	97.6
OD	25.6	34.3	38.6	51.6	64.1	76.7	102.5
A	50.5	50.5	50.5	64.0	77.5	91.0	119
C	43.5	43.5	43.5	56.5	70.5	83.5	110

WIRING DIAGRAM



MODEL SELECTION GUIDE

AMF601 Series									
Example:AMF601-080-SK6-030-X/P									
AMF601-	XXX	-X	X	-X	XXX	-X	Description		
Size	025 ~ 100						1"... 4"		
Electrode Material	-S						Stainless Steel 316L		
	-T						Titanium		
	-B						Hastelloy B		
	-C						Hastelloy C		
	-A						Tantalum		
	-P						Platinum		
	-U						Tungsten Carbide		
	-Z						Others		
Process Connection		A					Tri-Clamps, HAB		
		D					Tri-Clamps, HDB (DIN 32676)		
		K					Tri-Clamps, HKB (ISO2852)		
		S					Screw Unions (DIN 11851)		
Connections / Housing Material			-4				S.S.304 Connections / S.S.304 Housing		
			-6				S.S.316 Connections / S.S.304 Housing		
			-9				S.S.316 Connections / S.S.316 Housing		
Installation & Cable Length				NNN			Compact Version		
				010~300			Separate Version, Cable 33f ~ 985f		
Option						-N	None		
						-X	Explosion Proof, Exd(ib)ibqIIBT5 (with AMC3100/AMC3200 Only)		
						-P	Pressure Higher Than 10 Kg/cm2		
						-T1	Max. Temp.:248...284 °F		
						-T2	Max. Temp.:284...302 °F		
						-PT	Cable Entry 1/2" NPTF		

BUILD OPTIONS-(COMPACT OR REMOTE)

