

GENERAL

ALIAMAG AMF900PE Series is a flange type electromagnetic flowmeter ideal for conductive liquids. It comes in sizes from 10A to 2000mm.

AMF900PE is widely used for sewage, industrial waste, chemical, solvent, food & beverage, pulp & paper and many other industrial fluid.

AMF900PE Series electromagnetic flowmeter could be used in compact or separate model with AMC Series converter of electromagnetic flowmeter.

FEATURES

- ❑ Various liner and electrode satisfy most industrial applications
- ❑ Flow Velocity range: 0-12 m/s, precise in low flow applications
- ❑ It comes any flanges such as, ANSI, DIN, JIS... etc
- ❑ Excellent for high pressure application
- ❑ Protection class: IP68 available; sensor submersible
- ❑ FEP Liner is suitable for vacuum tube
- ❑ High accuracy of +/-0.4% value of reading (or +/-0.2% value of reading)
- ❑ With Forward/Reverse flowrate measurement function
- ❑ It has electrode cleaning function



STANDARD SPECIFICATION

- | | | | |
|--------------------|--|-------------------------|---|
| ● Size | : 10A,10,15,20, 25,32,40,50,65,80,100,125
150,200,250,300,350,400,450,500,600
700,800,900,1000,1200,1400,1600
1800,2000 mm | ● Electrode & Grounding | : Stainless Steel 316L
: Hastelloy B
: Hastelloy C
: Titanium
: Tantalum
: Platinum
: Tungsten Carbide |
| ● Measuring Range | : Velocity 0 - 0.25 m/s min.
0 - 12 m/s max. | ● Grounding Electrode | : DN10A/10: use Grounding Ring *1pc
: DN15-2000: 3 Electrodes |
| ● Material | Measuring Tube : Stainless Steel 304
Flange : Carbon Steel (Standard)
: Stainless Steel 304 (Option)
: Stainless Steel 316, 316L (Option) | ● Process Connection | : Flange |
| | Coil Housing : Carbon Steel (Standard)
: Stainless Steel 304 (Option)
: Stainless Steel 316,316L (Option) | ● Flange Type | : JIS 10K / JIS 20K / JIS 40K
ANSI 150# / ANSI 300# / ANSI 600#
DIN PN 10 / PN 16 / PN25 / PN 40 |
| ● Liner | : Polyurethane (25-400 mm)
: Neoprene (100-2000 mm)
: FEP (10A-300 mm)
: PTFE (10A-2000 mm)
: PFA (10A-300 mm) | ● Grounding Resistance | : Must be less than 10 Ω |
| ● Protection Class | : Junction box IP67, Body IP68
: IP 68 (Submersible) | ● Accuracy | : +/-0.4% of reading (Velocity ≥ 0.5 m/s)
: +/-0.0025 m/s (Velocity < 0.5 m/s)
: +/-0.2% of reading
(Suitable for AMC3200PE/3200EPE converter) |
| ● Conductivity | : More than 5 uS/cm | ● Temperature | : -10 ~ +60 °C(Polyurethane, PU)
: -20 ~ +70 °C(Neoprene)
: -40 ~ +120 °C(PTFE 3/8"to 10")
: -40~+140 °C(PTFE 3/8"to6", FEP 3/8"to12")
: -40~+180 °C(PTFE 3/8"to3", PFA3/8"to12") |
| ● Explosion Proof | : Exd (ib)IIBT5
(with AMC3200PE only) | ● Ambient Temperature | : -25 to +60 °C |
| ● Cable Entry | Standard:M20 Option:1/2"NPTF | ● Max. Pressure | : 350 Kg/cm2 |
| | | ● Option | : Ambient Temperature Inspection |

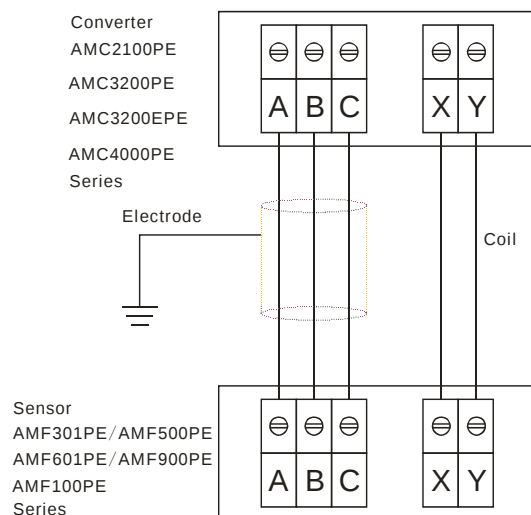


FLOW RANGE

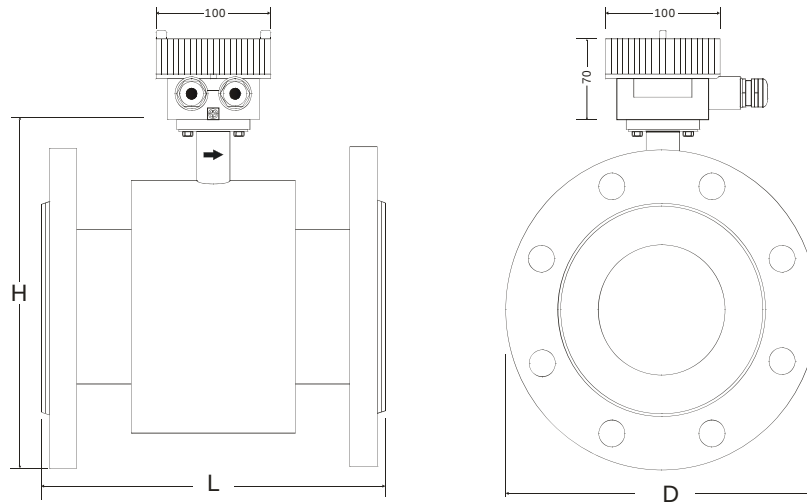
Unit: M3/Hr

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
10A	3/8"A	Applicable to 25-500L/Hr and accuracy +/-0.2~0.4% of reading (Depends on converter type)						
10	3/8"	0 to 0.071	0.28	0.57	0.85	1.41	2.83	0 to 3.39
15	1/2"	0 to 0.16	0.64	1.27	1.91	3.18	6.36	0 to 7.63
20	3/4"	0 to 0.28	1.13	2.26	3.39	5.65	11.3	0 to 13.6
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	141.4	283	0 to 339
125	5"	0 to 11.0	44.2	88.4	133	220.9	442	0 to 530
150	6"	0 to 15.9	63.6	127	191	318.1	636	0 to 763
200	8"	0 to 28.3	113	226	339	565.5	1131	0 to 1357
250	10"	0 to 44.2	177	353	530	883.6	1767	0 to 2121
300	12"	0 to 63.6	254	509	763	1272	2545	0 to 3054
350	14"	0 to 86.6	346	693	1039	1732	3464	0 to 4156
400	16"	0 to 113	452	905	1357	2262	4524	0 to 5429
450	18"	0 to 143	573	1145	1718	2863	5725	0 to 6871
500	20"	0 to 177	707	1414	2121	3534	7068	0 to 8482
600	24"	0 to 254	1018	2036	3054	5089	10179	0 to 12214
700	28"	0 to 346	1385	2771	4156	6927	13854	0 to 16625
800	32"	0 to 452	1810	3619	5429	9048	18095	0 to 21714
900	36"	0 to 573	2290	4580	6871	11451	22902	0 to 27482
1000	40"	0 to 707	2827	5655	8482	14137	28274	0 to 33928
1200	48"	0 to 1018	4071	8143	12214	20357	40714	0 to 48857
1400	56"	0 to 1385	5542	11083	16625	27708	55417	0 to 66500
1600	64"	0 to 1810	7238	14476	21714	36190	72381	0 to 86857
1800	72"	0 to 2290	9161	18321	27482	45803	91607	0 to 109928
2000	80"	0 to 2827	11309	22619	33928	56547	113095	0 to 135714

WIRING DIAGRAM



DIMENSIONS



Size	Standard Pressure	Liner Material				Dimensions (mm)			Weight
(mm)	Kg/cm2	FEP / PFA	Neoprene	Polyurethane	PTFE	L	D	H	Kg
10A	40	◎			◎	120	90	145	3.5
10		◎			◎	120			3.5
15		◎			◎	150	95	155	3.5
20		◎			◎		105	160	4.5
25		◎		◎	◎		115	166	4.5
32		◎		◎	◎		140	180	6.5
40		◎		◎	◎		150	190	7.0
50		◎		◎	◎	200	165	201	9.5
65		◎		◎	◎		185	220	12
80		◎		◎	◎		200	235	15
100	16	◎	◎	◎	◎	250	220	254	17
125		◎	◎	◎	◎		250	284	21
150		◎	◎	◎	◎	300	285	314	28
200	10	◎	◎	◎	◎	350	340	369	36
250		◎	◎	◎	◎	400	395	430	49
300		◎	◎	◎	◎	450	445	480	61
350			◎	◎	◎		505	540	79
400			◎	◎	◎	500	565	600	99
450			◎		◎	600	615	640	121
500			◎		◎		670	700	143
600			◎		◎		780	800	187
700			◎		◎	700	895	910	260
800			◎		◎	800	1015	1020	342
900			◎		◎	900	1115	1120	420
1000			◎		◎	1000	1230	1230	503
1200	6		◎		◎	1200	1405	1405	666
1400			◎		◎	1400	1630	1630	1036
1600			◎		◎	1600	1830	1830	1333
1800			◎		◎	1800	2045	2045	1720
2000			◎		◎	2000	2265	2265	2190

Note: ◎ Standard

Weight & Dimension D & H only for DIN flange

MODEL SELECTION GUIDE

AMF900PE Series

Example:AMF900PE-P0100-CAE84-010-T1

AMF900PE-	X	XXXX-	X	X	X	X	X-	XXX	-X	Description		
Liner	N									Chloroprene Rubber (Neoprene)(100 ~ 2000mm, 4" ~ 80")		
	F									FEP (10A ~ 300mm, 3/8"A ~ 12")		
	P									PTFE (10A ~ 2000mm, 3/8"A ~ 80")		
	A									PFA (10A ~ 300mm, 3/8"A ~ 12")		
	O									Polyurethane (25 ~ 400mm, 1" ~ 16")		
Size		10A ~ 2000								10A ~ 2000mm		
Electrode Material				-S						Stainless Steel 316L		
				-T						Titanium		
				-B						Hastelloy B		
				-C						Hastelloy C		
				-A						Tantalum		
				-P						Platinum (DN15 ~ DN2000)		
				-U						Tungsten Carbide		
				-Z						Others		
Process Connection				1						PN10		
				2						PN16		
				3						PN25		
				4						PN40		
				A						ANSI 150 #		
				B						ANSI 300 #		
				C						ANSI 600 #		
				J						JIS 10K		
				K						JIS 20K		
				L						JIS 40K		
				Z						Others		
Grounding				N						None		
				E						Grounding Electrode (3 Electrodes); Note: see page #1		
				R						Grounding Ring(Stainless Steel 316)		
				A						Grounding & Protection Ring (Stainless Steel 316)		
Protection Class						8					Junction box IP67, Body IP68	
						9					IP68 (Submersible, Separate with Converter Only)	
Flange & Housing						0-					Carbon Steel (Standard)	
						4-					S.S.304 Flange	
						6-					S.S.316 Flange	
						8-					S.S.304 Flange & Housing	
						9-					S.S.316 Flange & Housing	
Installation & Cable Length								NNN			Compact Version	
								010~300			Separate Version, Cable 10M ~ 300M	
Option										-N	None	
										-X	Explosion Proof, Exd (ib)ibqllBT5 (with AMC3200PE only)	
										-T1	Max. Temp.:120-140 °C	
										-T2	Max. Temp.:141-180 °C	
										-PT	Cable Entry 1/2" NPTF	
										-CD	Electrode Cleaning Device (Only for 2 Electrodes(316L), Size>=4")	
										-AM	Ambient Temperature Inspection	