

GENERAL

ALIAMAG AMF100PE Series is an insertion type electromagnetic flowmeter ideal for conductive liquids. It comes in sizes from 150 to 6000 mm.

AMF100PE is widely used for tap-water, waste water, food & beverage, Pulp & Paper and many other industrial fluid.

AMF100PE Series electromagnetic flowmeter could be used in compact or separate type with AMC Series converter of electromagnetic flowmeter.

FEATURES

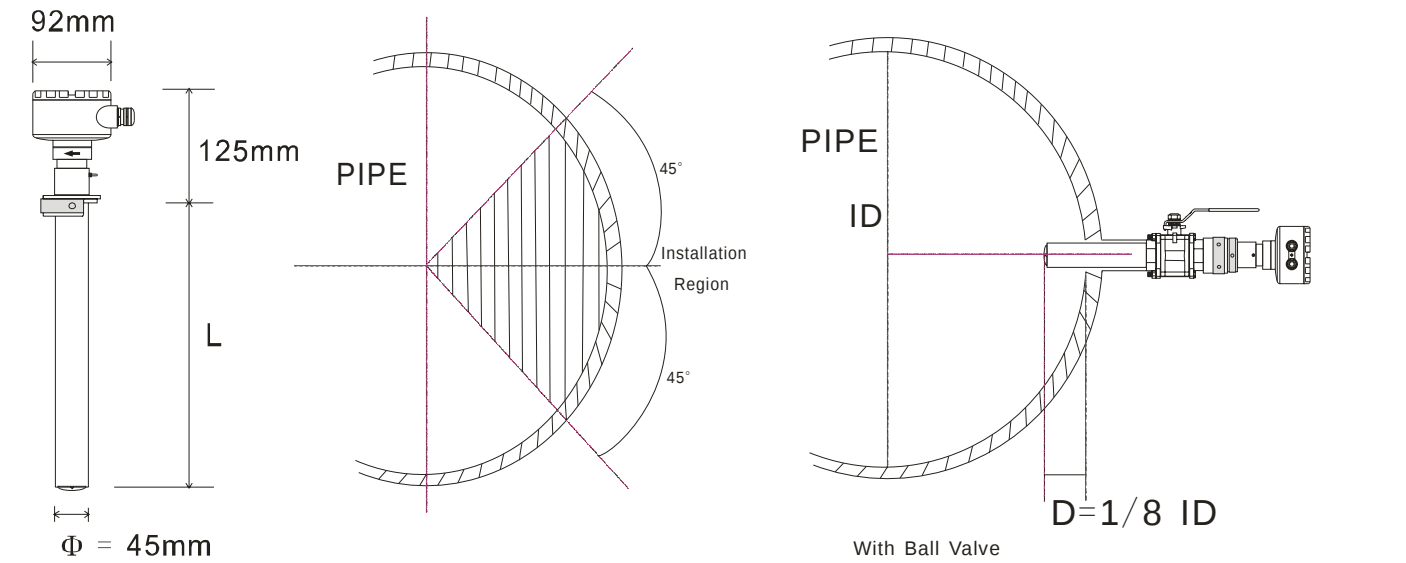
- ❑ Light and compact version
- ❑ Measuring range up to 12 m/s
- ❑ Suitable for permanent or temporary installation
- ❑ Price virtually independent of pipe diameter
- ❑ Hot-tap into pressurised pipe
- ❑ Good accuracy over wide operating flow range
- ❑ With Forward/Reverse flow rate measurement function
- ❑ Stable calibration and reliable operation

STANDARD SPECIFICATION

- | | | | |
|----------------------|--|------------------------|--|
| ● Size | : 150 , 200 , 250 , 300 , 350 , 400 , 450
500 , 600 , 700 6000 mm | ● Cable Entry | : Standard:M20 Option:1/2"NPTF |
| ● Measuring Range | : Velocity 0-0.25 m/s min.
0-12 m/s max. | ● Grounding Resistance | : Must be less than 10 Ω |
| ● Material | | ● Accuracy | : +/-2% of reading (Velocity $\geq$ 0.5 m/s)
: +/-0.8% of Full Scale (F.S.>2 m/s)
: +/-0.01 m/s (Velocity < 0.5 m/s) |
| Protection Tube | : Stainless Steel 316 | ● Repeatability | : +/-0.4% of reading |
| Screw | : Stainless Steel 316 | ● Process Temperature | : -10 ~ 80 $^{\circ}$ C |
| Electrode | : Stainless Steel 316L | ● Ambient Temperature | : -25 to +70 $^{\circ}$ C |
| Cap | : PTFE | ● Max. Pressure | : 10 Kg/cm ² |
| Ball Valve | : Stainless Steel 316 (Optional) | ● Conductivity | : More than 10 uS/cm |
| Hot-Tap Tool / Kit | : Stainless Steel 304 (Optional) | ● Weight | : 3 ~ 10 Kg |
| ● Mounting | : Compact or Separate | ● Coil Resistance | : 70 - 98 Ω |
| ● Process Connection | | ● Sensor Diameter | : 45 mm |
| Threaded | : Threaded, 2" BSP Female | ● Sensor Length | : 310mm (for 150 ~ 600mm pipe ID)
550mm (for 600 ~ 2400mm pipe ID)
800mm (for 2400 ~ 4200mm pipe ID)
1050mm (for 4200 ~ 6000mm pipe ID) |
| Flange | : Flange, JIS / ANSI / DIN | ● Option | : AM (Ambient Temperature Inspection) |
| ● Installation | : Direct insert to the pipe
: Insert with Ball Valve
: Hot-Tap into pressurised pipe | | |
| ● Protection Class | : IP 67
: IP 68 (Submersible) | | |
| ● Explosion Proof | : Exd (ib)qIIBT5
(with AMC3200PE only) | | |

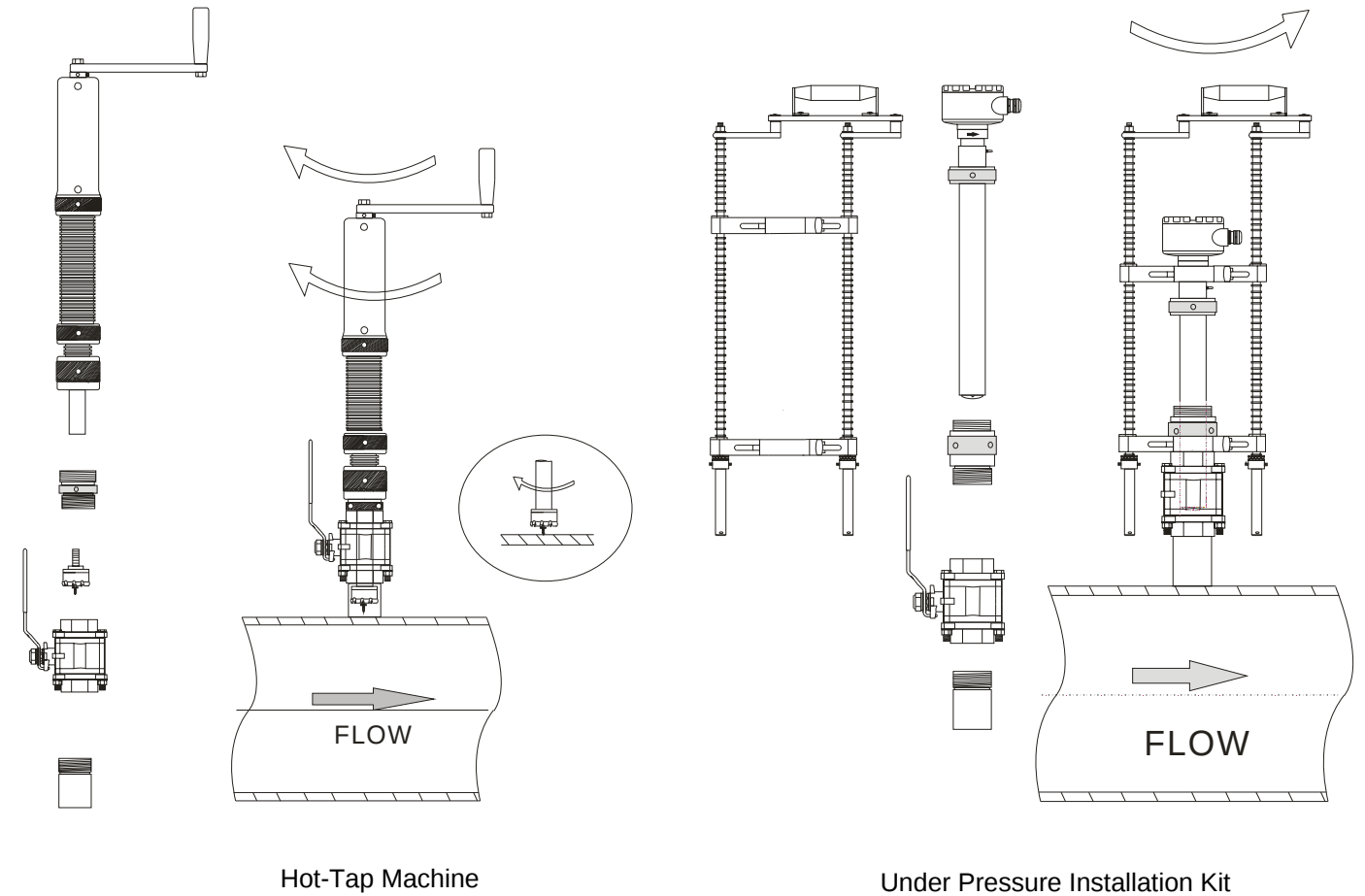


➤ DIMENSIONS



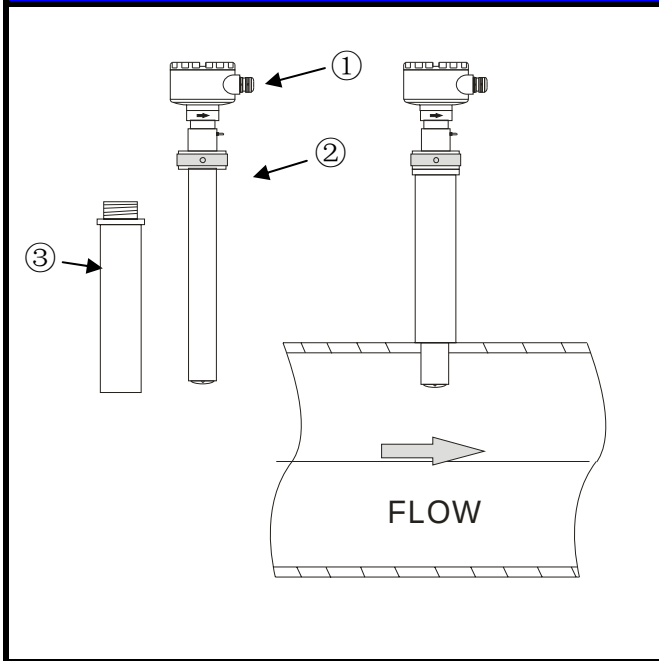
L (mm)	Direct install (Thread)	Direct install (Flange)	Install with Ball valve	Hot-Tap into pressurised pipe
310	DN 150 - 1800 mm	DN 150 - 1000 mm	DN 150 - 400 mm	DN 150 - 600 mm
550	DN 1800 - 3800 mm	DN 1000 - 2800 mm	DN 400 - 2200 mm	DN 600 - 2400 mm
800	DN 3800 - 6000 mm	DN 2800 - 4800 mm	DN 2200 - 4200 mm	DN 2400 - 4200 mm
1050		DN 4800 - 6000 mm	DN 4200 - 6000 mm	DN 4200 - 6000 mm

➤ HOT-TAP & UNDER PRESSURE INSTALLATION KIT

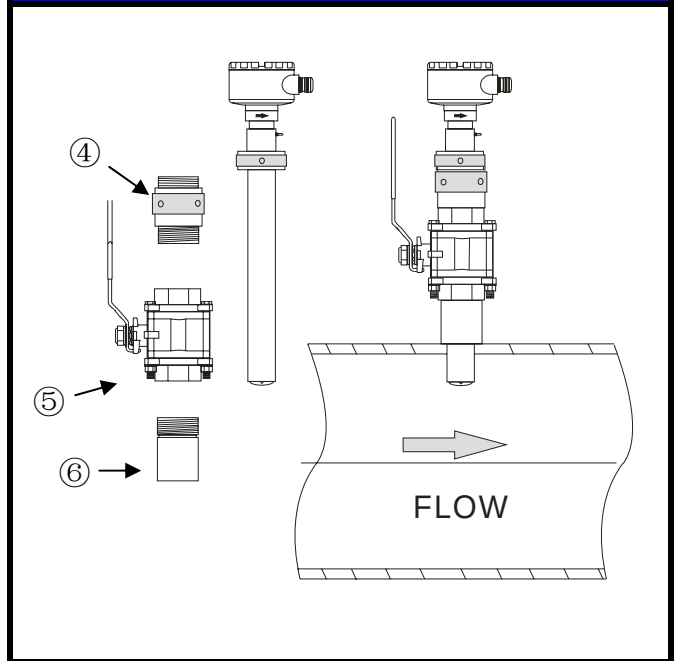


INSTALLATION

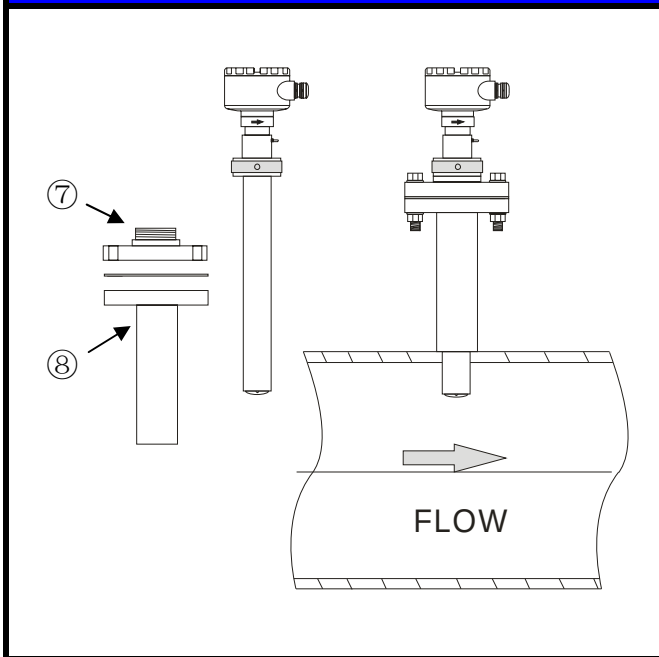
Direct Installation (M60 Thread)



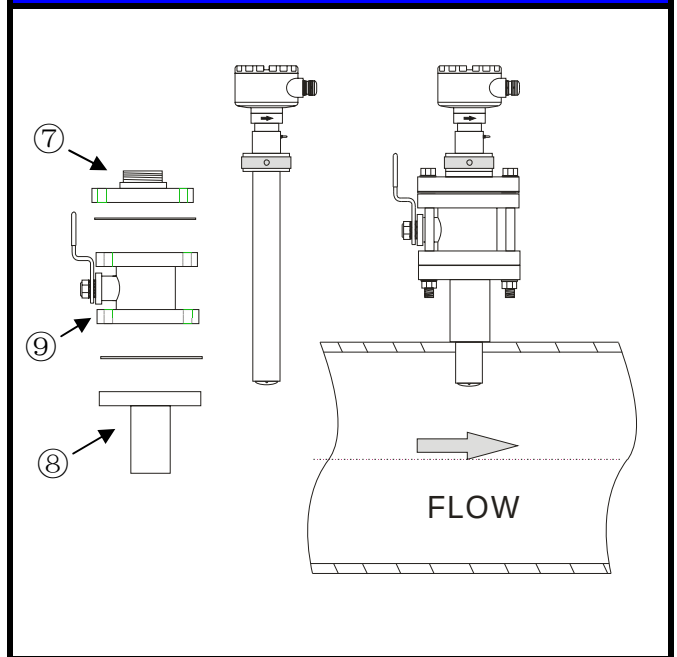
Install with Ball Valve (M60 Thread with Adaptor)



Direct Installation (Flange)



Install with Ball Valve (Flange)



①	Junction Box	Cable Entry PG11
②	Nut	M60 Thread (Female)
③	Extension Tube 1	M60 Thread (Male) / Welding (Optional)
④	Adapter 1	M60 Thread (Male) / 2" BSP (Male)
⑤	Ball Valve	2" BSP Female
⑥	Extension Tube 2	2" BSP (Male) / Welding (Optional)
⑦	Adapter 2	M60 Thread (Male) / Flange
⑧	Extension Tube 3	2" Flange / Welding (Optional)
⑨	Ball Valve	2" Flange End

MODEL SELECTION GUIDE

AMF100PE Series

Example:AMF100PE-T0350-1SN8-020-SV/EX/PT

AMF100PE-	X	XXXX	-X	X	X	X-	XXX	-XX	Description	
Fitting	T								Direct installation, M60 thread Female	
	F								Flange	
Pipe Size	0150 ~ 6000								0150 ~ 6000mm (internal diameter)	
Sensor Length			-1						310 mm	
			-2						550 mm	
			-3						800 mm	
			-4						1050 mm	
			-Z						Special length	
Electrode Material			S						Stainless Steel 316L	
			Z						Others	
Flange Specification					N				None	
					J				50A JIS 10K	
					A				2" ANSI 150#	
					P				DN50 PN10	
					Z				Others	
Protection Class						8-			Junction box IP67, Body IP68	
						9-			IP68 (Submersible, Separate with Converter Only)	
Installation & Cable Length							NNN		Compact Version (with AMC2100PE)	
							SSS		Compact Version (with AMC3200PE/AMC3200EPE/AMC4000PE)	
							010~300		Separate Version, Cable 10M ~ 300M	
Option									-NN	None
									-SV	Stainless Steel 316 Ball Valve 2" BSP Female + Adapter 1
									-FV	Stainless Steel 316 Ball Valve 2" Flange
									-HM	Hot-Tap Machine
									-EX	Explosion Proof, Exd (ib)ibqIIBT5 (with AMC3200PE only)
									-PT	Cable Entry 1/2" NPTF
									-PK	Under Pressure Installation Kit
									-ET	Extension Tube
									-AM	Ambient Temperature Inspection

The following information must be provided before order:

1. Pipe Inside Diameter (ID)
2. Pipe Outside Diameter (OD)
3. Pipe Material
4. Extension Length (L)
5. Flange type or 2"BSPM
6. Fluid Name
7. Op. Temperature
8. Op. Pressure

