

## 概述

**ALIAMAG** AMF601HM系列是衛生配管的電磁流量計，主要應用於各種有導電度的液體，管徑範圍有10-80 mm。

AMF601HM系列電磁流量計可應用於各種流體，如飲用水，牛奶，食品，果汁等及各種工業用流體。

AMF601HM系列電磁流量計可以與AMC系列轉換器組成一體或分離型式。

## 特性

- 輕便的結構
- 流速範圍：0-12 m/s，並對於低流速的測量有極好的準確性
- IDF夾管式或螺紋式衛生配管
- 對於高壓應用有出色的表現
- 保護等級：IP68，流量感測器可沉水應用
- FEP內襯適用於真空管路
- 高精度度 $\pm 0.4\%$ 讀取值 (或 $\pm 0.2\%$ 讀取值)
- 可同時測量正向 / 反向流量

## 標準規格

- |          |  |        |   |
|----------|--|--------|---|
| ● 管徑     | : 10, 15, 20, 25, 32, 40, 50, 65, 80 mm  | ● 電氣接口 | : 標準：M20 選項：1/2" NPTF   |
|          | : 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3"   | ● 環境溫度 | : -25~60 °C   |
| ● 流量測量範圍 | : 流速0-0.25 m/s最小範圍<br>0-12 m/s最大範圍   | ● 接續方式 | : IDF Tri-Clamp (衛生配管夾管式)<br>Union Screw (衛生配管螺牙接口式)  |
| ● 材質     | 測量管和接續：S.S. 304 / 316 / 316L (不銹鋼304, 316, 316L)<br>線圈外殼：S.S. 304 (不銹鋼304，標準型)<br>: S.S. 316 (不銹鋼316，選用)<br>: S.S. 316 L (不銹鋼316L，選用)<br>內襯：FEP<br>電極材質：S.S. 316L (不銹鋼316L)<br>: Hastelloy B (哈氏B)<br>: Hastelloy C (哈氏C)<br>: Titanium (鈦)<br>: Tantalum (鉭)<br>: Tungsten Carbide (碳化鎢)<br>: Platinum (白金) | ● 接地電阻 | : <10 Ω   |
|          |  | ● 精確度  | : $\pm 0.5\%$ 讀取值 (流速 $\geq 0.5$ m/s)<br>: $\pm 0.2\%$ 讀取值 (適用於AMC3200HM / 3200E轉換器)<br>: $\pm 0.0025$ m/s (流速 $< 0.5$ m/s) |
| ● 防護等級   | : 接線盒：IP67 本體：IP68<br>: IP68 (沉水式)   | ● 溫度   | : -40~150 °C  |
| ● 導電度    | : $>5 \mu\text{S/cm}$  | ● 最大耐壓 | : 10 kgf/cm <sup>2</sup> (標準)<br>: 40 kgf/cm <sup>2</sup> (選用)  |
|          |  | ● 防爆等級 | : Ex d ia [ia] q IIC T6<br>(適用於AMC3200HM, AMC3200DF轉換器)   |

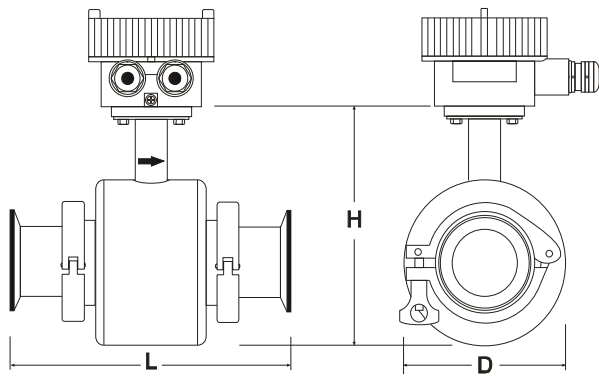


## 流量範圍

單位：m<sup>3</sup>/hr

| 管徑 |        | 流量範圍和流速表           |         |         |         |         |          |                  |
|----|--------|--------------------|---------|---------|---------|---------|----------|------------------|
| mm | Inch   | 最小範圍<br>0-0.25 m/s | 1.0 m/s | 2.0 m/s | 3.0 m/s | 5.0 m/s | 10.0 m/s | 最大範圍<br>0-12 m/s |
| 10 | 3/8"   | 0 to 0.07          | 0.28    | 0.57    | 0.85    | 1.41    | 2.8      | 0 to 3.4         |
| 15 | 1/2"   | 0 to 0.16          | 0.64    | 1.27    | 1.91    | 3.18    | 6.4      | 0 to 7.6         |
| 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         |

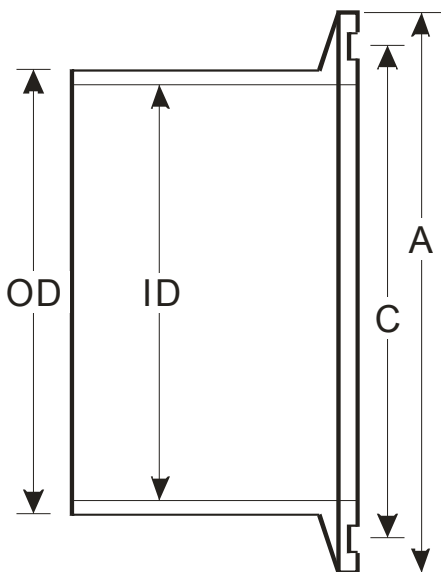
## 尺寸圖



| 管徑 |        | 尺寸圖 (mm) |     |     | 重量  |
|----|--------|----------|-----|-----|-----|
| mm | Inch   | L        | D   | H   | kg  |
| 10 | 3/8"   | 150      | 84  | 132 | 2.1 |
| 15 | 1/2"   | 150      | 84  | 132 | 2.1 |
| 20 | 3/4"   | 150      | 84  | 132 | 2.3 |
| 25 | 1"     | 150      | 99  | 147 | 2.7 |
| 32 | 1-1/4" | 150      | 99  | 147 | 3.0 |
| 40 | 1-1/2" | 150      | 99  | 147 | 4.0 |
| 50 | 2"     | 150      | 112 | 160 | 4.8 |
| 65 | 2-1/2" | 200      | 120 | 168 | 5.8 |
| 80 | 3"     | 200      | 137 | 185 | 7.8 |

## TRI-CLAMP規格

單位：mm

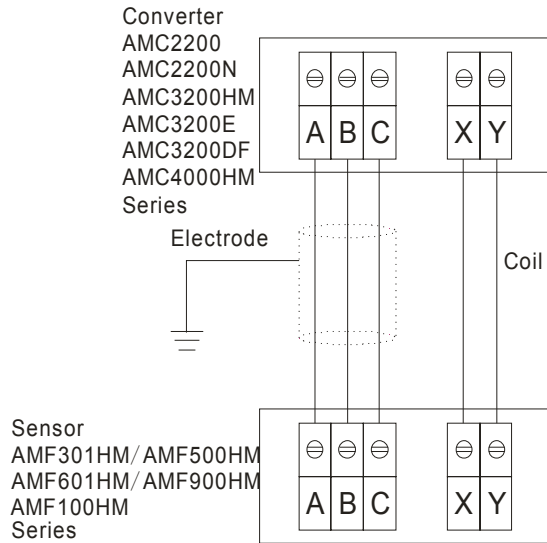


| HAB       |  |  |  |      |  |        |      |        |      |
|-----------|--|--|--|------|--|--------|------|--------|------|
| Pipe Size |  |  |  | 1"   |  | 1-1/2" | 2"   | 2-1/2" | 3"   |
|           |  |  |  | 25   |  | 40     | 50   | 65     | 80   |
| ID        |  |  |  | 22.1 |  | 34.8   |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

| HDB (DIN 32676) |      |      |      |      |        |        |      |        |      |
|-----------------|------|------|------|------|--------|--------|------|--------|------|
| Pipe Size       | 3/8" | 1/2" | 3/4" | 1"   | 1-1/4" | 1-1/2" | 2"   | 2-1/2" | 3"   |
|                 | 10   | 15   | 20   | 25   | 32     | 40     | 50   | 65     | 80   |
| ID              | 10.0 | 16.0 | 20.0 | 26.0 | 32.0   | 38.0   | 50.0 | 66.0   | 81.0 |
| OD              | 14.0 | 20.0 | 24.0 | 30.0 | 36.0   | 42.0   | 54.0 | 70.0   | 85.0 |
| A               | 34.0 | 34.0 | 34.0 | 50.5 | 50.5   | 50.5   | 64.0 | 91.0   | 106  |
| C               | 27.5 | 27.5 | 27.5 | 43.5 | 43.5   | 43.5   | 56.5 | 83.5   | 97.0 |

| HKB (ISO 2852) |      |      |      |      |        |        |      |        |      |
|----------------|------|------|------|------|--------|--------|------|--------|------|
| Pipe Size      | 3/8" | 1/2" | 3/4" | 1"   | 1-1/4" | 1-1/2" | 2"   | 2-1/2" | 3"   |
|                | 10   | 15   | 20   | 25   | 32     | 40     | 50   | 65     | 80   |
| ID             | 12.0 | 17.2 | 21.3 | 22.6 | 31.3   | 35.6   | 48.6 | 60.3   | 72.9 |
| OD             | 16.0 | 21.2 | 25.3 | 25.6 | 34.3   | 38.6   | 51.6 | 64.1   | 76.7 |
| A              | 34.0 | 34.0 | 34.0 | 50.5 | 50.5   | 50.5   | 64.0 | 77.5   | 91.0 |
| C              | 27.5 | 27.5 | 27.5 | 43.5 | 43.5   | 43.5   | 56.5 | 70.5   | 83.5 |

## 接線圖



## 型號選擇表

| AMF601HM系列                  |   |         |    |   |    |         |     |                        |   |                |  |  |  |
|-----------------------------|---|---------|----|---|----|---------|-----|------------------------|---|----------------|--|--|--|
| 範例：AMF601HM-F080-SK6-030-EX |   |         |    |   |    |         |     |                        |   |                |  |  |  |
| AMF601HM-                   | X | XXX     | -X | X | X- | XXX     | -XX | 規 格                    |   |                |  |  |  |
| 內襯                          | F |         |    |   |    |         |     | FEP                    |   |                |  |  |  |
| 管徑                          |   | 010-080 |    |   |    |         |     | 10-80 mm               |   |                |  |  |  |
| 電極材質                        |   |         | -S |   |    |         |     | S.S. 316L (不銹鋼316L)    |   |                |  |  |  |
|                             |   |         | -T |   |    |         |     | Titanium (鈦)           |   |                |  |  |  |
|                             |   |         | -B |   |    |         |     | Hastelloy B (哈氏B)      |   |                |  |  |  |
|                             |   |         | -C |   |    |         |     | Hastelloy C (哈式C)      |   |                |  |  |  |
|                             |   |         | -A |   |    |         |     | Tantalum (鉭)           |   |                |  |  |  |
|                             |   |         | -P |   |    |         |     | Platinum (白金)          |   |                |  |  |  |
|                             |   |         | -U |   |    |         |     | Tungsten Carbide (碳化鎢) |   |                |  |  |  |
|                             |   |         | -Z |   |    |         |     | 其它                     |   |                |  |  |  |
| 過程接續                        |   |         |    | A |    |         |     |                        | Tri-Clamps, HAB   |                |  |  |  |
|                             |   |         |    | D |    |         |     |                        | Tri-Clamps, HDB (DIN 32676)                               |                |  |  |  |
|                             |   |         |    | K |    |         |     |                        | Tri-Clamps, HKB (ISO 2852)                                |                |  |  |  |
|                             |   |         |    | S |    |         |     |                        | Screw Unions (DIN 11851) 螺紋式                              |                |  |  |  |
| 接續材質與外殼材質                   |   |         |    |   | 4- |         |     |                        | S.S. 304接續 / S.S. 304外殼                                   |                |  |  |  |
|                             |   |         |    |   | 6- |         |     |                        | S.S. 316接續 / S.S. 304外殼                                   |                |  |  |  |
|                             |   |         |    |   | 9- |         |     |                        | S.S. 316接續 / S.S. 316外殼                                   |                |  |  |  |
|                             |   |         |    |   | A- |         |     |                        | S.S. 316L接續 / S.S. 316L外殼                                 |                |  |  |  |
| 與轉換器連接方式及線長                 |   |         |    |   |    | NNN     |     |                        |   | 一體型            |  |  |  |
|                             |   |         |    |   |    | 010-300 |     |                        |   | 分離型，線長10-300 m |  |  |  |
| 其它                          |   |         |    |   |    |         |     | -NN                    | 無   |                |  |  |  |
|                             |   |         |    |   |    |         |     | -EX                    | 隔離防爆型, Ex d ia [ia] q IIC T6 (適用於AMC3200HM, AMC3200DF轉換器) |                |  |  |  |
|                             |   |         |    |   |    |         |     | -HP                    | 壓力高於10 kgf/cm <sup>2</sup>                                |                |  |  |  |
|                             |   |         |    |   |    |         |     | -T1                    | 最高溫度：120-140 °C   |                |  |  |  |
|                             |   |         |    |   |    |         |     | -T2                    | 最高溫度：140-150 °C   |                |  |  |  |
|                             |   |         |    |   |    |         |     | -PT                    | 電氣接口1/2"NPTF  |                |  |  |  |
|                             |   |         |    |   |    |         |     | -LR                    | 低阻值線圈 (僅適用於AMC3200DF轉換器)                                  |                |  |  |  |

➤結構選擇（一體或者分離）

