

# General Specifications

GS 01E20D01-01E

**AXF**  
**Magnetic Flowmeter**  
**Integral Flowmeter**  
**/Remote Flowtube**

**ADMAG AXF™**

The AXF magnetic flowmeter series are sophisticated products with outstanding reliability and ease of operation, developed on the basis of decades of field-proven experience.

The combination of a replaceable electrode and the diagnostic to detect adhesion level on the electrodes dramatically improves maintainability.

The AXF employs the fluid noise free "Dual Frequency Excitation Method" (for sizes up to 400 mm (16 in.)) and the newly added "Enhanced Dual Frequency Excitation Method" as an option for more difficult applications to ensure greater stability and quicker response.

Note: The "Dual Frequency Excitation Method" is Yokogawa's unique technology.



Integral Flowmeter

Remote Flowtube

## ■ FEATURES

### ● User-oriented Functionality

#### Fluid Adhesion Level Diagnosis

By constantly monitoring the level of insulating substance on the electrodes, it is possible to determine when maintenance is required.

With the utilization of an optional replaceable electrode, the electrodes can be easily removed from the flowmeter and cleaned.

#### Flexible Electrical Connection Direction

The converter or the terminal box can be rotated arbitrarily to change the directions of electrical connection on the site.

#### Clear and Versatile Indications

The LCD indicator employs a large, backlit full dot-matrix, that can facilitate various displays.

One to three lines are available. When there is an alarm condition, a full description of the countermeasure is indicated.

#### "Easy Setup" Parameters

The most frequently used parameters are arranged in a group at the top.

The infra-red switches enable the users to set parameters without opening the cover.

### ● Expansion of Product Lineup

#### Improved Accuracy Specification

The standard accuracy is 0.35% of reading. Also available is an optional high accuracy calibration rated at 0.2% of reading.

#### Extra Small Size Flange Type

The flange type is now available from a 2.5 mm size.

#### Various Sanitary Connections

A variety of sanitary connections are available, such as Tri-Clamp, ISO, DIN and SMS.

### ● Enhanced Performance and Specifications

#### Enhanced Dual Frequency Excitation Method

The "Enhanced Dual Frequency Excitation Method" can be optionally selected.

For difficult applications such as for high concentration slurries or low conductivity fluid, extremely stable measurements can be realized.

#### Improved Minimum Conductivity

The newly designed AXF converter permits the measurement of fluids with conductivity as low as 1 $\mu$ S/cm.

#### High-Speed Pulse Output:

The pulse rate now goes up to 10,000 pps (pulse/second) for use with high speed applications such as in short time batch processes.

#### Versatile Input/output Function Now Available for Integral Flowmeter

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## ■ STANDARD SPECIFICATIONS

### ● Converter (Integral flowmeter)

- \*1: Select two points from: one pulse output, one alarm output, one status input, or two status outputs.
- \*2: For models without an indicator, the hand-held terminal is necessary to set parameters.

#### Excitation Method:

- Standard dual frequency excitation:  
Size 2.5 to 400 mm (0.1 to 16 in.)
- Enhanced dual frequency excitation:  
Size 25 to 200 mm (1.0 to 8.0 in.)  
(Optional code HF1 or HF2)

#### Input Signal (\*1):

One Status Input: Dry contact  
Load Resistance: 200 Ω or less (ON), 100 kΩ or more (OFF)

#### Output Signals:

- One Current Output: 4 to 20 mA DC (load resistance: 750Ω maximum, including cable resistance)
- One Pulse Output (\*1):  
Transistor contact output (open collector)  
Contact capacity: 30 V DC (OFF), 200 mA (ON)  
Output rate 0.0001 to 10,000 pps (pulse/second)
- One Alarm Output (\*1):  
Transistor contact output (open collector)  
Contact capacity: 30 V DC (OFF), 200 mA (ON)
- Two Status Outputs (\*1):  
Transistor contact output (open collector)  
Contact capacity: 30 V DC (OFF), 200 mA (ON)

#### Communication Signals:

BRAIN or HART communication signal  
(Superimposed on the 4 to 20 mA DC signal)  
Distance from Power Line: 15 cm (6 in.) or more  
(Parallel wiring should be avoided.)

#### BRAIN:

##### Communication Distance:

Up to 2 km (1.25 miles), when polyethylene insulated PVC-sheathed cables (CEV cables) are used.  
Communication distance varies depending on the type of cable and wiring used.

##### Load Resistance:

250 to 600Ω (including cable resistance)

##### Load Capacitance:

0.22 μF or less

##### Load Inductance:

3.3 mH or less

##### Input Impedance of Communicating Device:

10 kΩ or more (at 24 kHz)

#### HART:

##### Communication Distance:

Up to 1.5 km (0.9 mile), when using multiple twisted pair cables. Communication distance varies depending on the type of cable used.

##### Load Resistance:

230 to 600Ω (including cable resistance)

##### Cable Length for Specific Applications:

Use the following formula to determine the cable length for specific applications.

$$L = \frac{65 \times 10^6}{(R \times C)} - \frac{(C_f + 10,000)}{C}$$

where:

L = length in meters or feet  
R = resistance in Ω (including barrier resistance)  
C = cable capacitance in pF/m or pF/ft  
Cf = maximum shunt capacitance of receiving devices in pF/m or pF/ft

Note: HART is a registered trademark of the HART Communication Foundation.

#### Data Security During Power Failure:

Data (parameters, totalizer value, etc.) storage by EEPROM. No back-up battery required.

#### Indicator (\*2):

Full dot-matrix LCD (32×132 pixels)

#### Lightning Protector:

The lightning protector is built into the current output and pulse/alarm/status input and output terminals. When optional code A is selected, the lightning protector is built into the power terminals.

#### Protection:

IP67, NEMA4X, JIS C0920 immersion-proof type

#### Coating:

Case and Cover: Polyurethane corrosion-resistant  
Coating Color: Mint green coating (Munsell 5.6 BG  
3.3/2.9 or its equivalent)

#### Converter Material:

Case and Cover : Aluminum alloy

#### Mounting/Shapes (Integral Flowmeter):

- Electrical Connection: ANSI 1/2 NPT female  
ISO M20 × 1.5 female  
JIS G1/2 (PF1/2) female
- Direction of Electrical Connection: The direction can be changed even after delivery.
- Terminal Connection: M4 size screw terminal

#### Grounding:

Grounding resistance 100 Ω or less

When optional code A is selected, grounding resistance 10 Ω or less shall be applied.

\* In case of explosion proof type, the protective grounding must be connected to a suitable IS grounding system.

\* In case of TIIIS Flame proof type, refer to description of "HAZARDOUS AREA CLASSIFICATION".

## Functions

### How to Set Parameters (\*2):

The indicator's LCD and three infra-red switches enable users to set parameters without opening the case cover. Parameters can also be set by means of the HHT (Handheld terminal).

### Displayed Languages (\*2):

Users can choose a language from among English, Japanese, German, French, Italian, and Spanish.

### Instantaneous Flow Rate/Totalized Value Display Functions (for models with an indicator) (\*2):

The full dot-matrix LCD enables user selections of displays from one line to three lines for:

- Instantaneous flow rate
- Instantaneous flow rate (%)
- Instantaneous flow rate (bar graph)
- Current output value (mA)
- Totalized value
- Tag No.
- Results of electrode adhesion diagnostics

### Totalizer Display Function (\*2):

The flow rate is counted one pulse at a time according to the setting of totalization pulse weights. For forward/reverse ranges, the totalized values of the flow direction (forward or reverse) and the flow rate are displayed on the indicator together with the units. The difference of totalized values between the forward and reverse flow rate can be displayed. The reverse flow rate is not counted for a forward range.

### Damping Time Constant (\*2):

Time constant can be set from 0.1 second to 200.0 seconds (63% response).

### Span Setting Function (\*2):

Span flows can be set in units such as volume flow rate, mass flow rate, time, or flow rate value. The velocity unit can also be set.

Volume Flow Rate Unit: kcf, cf, mcf, Mgal (US), kgal (US), gal (US), mgal (US), kbb (US)\*, bbl (US)\*, mbbl (US)\*,  $\mu$ bbl (US)\*, MI (megaliter),  $m^3$ , kl (kiloliter), l (liter),  $cm^3$

Mass Flow Rate Unit (Density must be set.): klb (US), lb (US), t (ton), kg, g

Velocity Unit: ft, m (meter)

Time Unit: s (sec), min, h (hour), d (day)

\* "US oil" or "US Beer" can be selected.

### Pulse Output (\*1)(\*2):

Scaled pulse can be output by setting a pulse weight.

Pulse Width: Duty 50% or fixed pulse width (0.05, 0.1, 0.5, 1, 20, 33, 50, 100 ms) can be selected.

Output Rate: 0.0001 to 10,000 pps (pulse/second)

### Multi-range Function (\*1)(\*2):

- Range switching via status input  
Status input enables the switching of up to two ranges.
- Automatic range switching  
When the flow rate exceeds 100 % of the range, transition to the next range (up to four ranges) is carried out automatically. Range switching can be confirmed by status outputs and indicator.

### Forward and Reverse Flow Measurement Functions (\*1)(\*2):

Flows in both forward and reverse directions can be measured. The reverse flow measurement can be confirmed by status output and indicator.

### Totalization Switch (\*1)(\*2):

The status output is carried out when a totalized value becomes equal to or greater than the set value.

### Preset Totalization (\*1)(\*2):

The parameter setting or status input enables a totalized value to be preset to a setting value or zero.

### 0% Signal Lock (\*1)(\*2):

Status input forcibly fixes the instantaneous flow rate display, current output, pulse output, and flow rate totalization to 0%.

### Alarm Selection Function (\*2):

Alarms are classified into the System Alarms (hard failures), Process Alarms (such as 'Empty Pipe', 'Signal Overflow' and 'Adhesion Alarm'), Setting Alarms, and Warnings.

Whether alarms should be generated or not can be selected for each item.

The current output generated for an alarm can be selected from among 2.4 mA or less, fixed to 4 mA, 21.6 mA or more, or HOLD.

### Alarm Output (\*1)(\*2):

Alarms are generated only for the items selected via the 'Alarm Selection Function' if relevant failures occur.

### Self Diagnostics Functions (\*2):

If alarms are generated, details of the System Alarms, Process Alarms, Setting Alarms and Warnings are displayed together with concrete descriptions of countermeasures.

### Flow Upper/Lower Limit Alarms (\*1)(\*2):

If a flow rate becomes greater or smaller than the set value, this alarm is generated. In addition, two upper limits (H, HH) and two lower limits (L, LL) can be set. If a flow rate becomes greater or smaller than any of the set values, the status is output.

### Electrode Adhesion Diagnostics Function (\*1) (\*2):

This function enables monitoring of the adhesion level of insulating substances to the electrodes. Depending on the status of adhesion, users are notified by a warning or an alarm via status outputs. If replaceable electrodes are used, they can be removed and cleaned when adhesion occurs.

## ● Flowtubes (Remote Flowtube/Integral Flowmeter)

### Size of AXF Flowtubes: AXF Standard (Lay length code 1)

Unit: mm (in.)

| Use                 | Process Connection | Lining              | Remote Flowtube  | Integral Flowmeter  | High Grade Accuracy 0.2% of Rate (*3)   | Enhanced Dual Frequency Excitation (Optional code HF1,HF2) (*3)   | Replaceable Electrode (Electrode structure code 2)  |
|---------------------|--------------------|---------------------|--|---|---|---|---|
| General-purpose Use | Wafer              | PFA                 | 2.5 (0.1), 5 (0.2), 10 (0.4), 15 (0.5), 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12)  | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0)   | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0)   | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12)                     |   |
|                     |                    | Polyurethane Rubber | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12)  | —   | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0)   | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12)                     |   |
|                     |                    | Natural Soft Rubber | 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12)   | —   | 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0)  | —   |   |
|                     |                    | EPDM Rubber         | 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12)   | —   | 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0)  | —   |   |
|                     |                    | Ceramics (*1)       | 15 (0.5), 25 (1.0), 40 (1.5), 50 (2.0), 80 (3.0), 100 (4.0), 150 (6.0), 200 (8.0)  | 25 (1.0), 40 (1.5), 50 (2.0), 80 (3.0), 100 (4.0), 150 (6.0), 200 (8.0)   | 25 (1.0), 40 (1.5), 50 (2.0), 80 (3.0), 100 (4.0), 150 (6.0), 200 (8.0)   | —   |   |
|                     | Flange             | PFA                 | 2.5 (0.1), 5 (0.2), 10 (0.4), 15 (0.5), 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12), 350 (14), 400 (16)  | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0)   | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12), 350 (14), 400 (16) | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12), 350 (14), 400 (16) |   |
|                     |                    | Polyurethane Rubber | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12), 350 (14), 400 (16), 500(20), 600 (24), 700 (28), 800 (32), 900(36), 1000(40), 1100(44), 1200(48), 1350(54), 1500(60), 1600(64), 1800(72), 2000(80), 2200(88), 2400(96), 2600(104) | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12), 350 (14), 400 (16) | —   | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0)   | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12), 350 (14), 400 (16) |
|                     |                    | Natural Soft Rubber | 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12), 350 (14), 400 (16)   | —   | 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0)  | —   |   |
|                     |                    | EPDM Rubber         | 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12), 350(14), 400(16)   | —   | 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0)  | —   |   |
|                     | Union Joint        | Ceramics (*2)       | 2.5 (0.1), 5 (0.2), 10 (0.4)   | —   | —   | —   |   |

**Size of AXF Flowtubes: AXF Standard (Lay length code 1) (continued)**

| Use              | Process Connection                                       | Lining              | Remote Flowtube  | Integral Flowmeter  | High Grade Accuracy 0.2% of Rate (*3)   | Enhanced Dual Frequency Excitation (Optional code HF1,HF2) (*3)   | Replaceable Electrode (Electrode structure code 2)  | Unit: mm (in.) |
|------------------|--|---------------------|--|---|---|---|---|----------------|
| Submersible Type | Wafer  | PFA                 | 15 (0.5), 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12)  | —   | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0) | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0) | —   |                |
|                  |  | Polyurethane Rubber | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12)  | —   | —   | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0) | —   |                |
|                  |  | Natural Soft Rubber | 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12)   | —   | —   | 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0)                                | —   |                |
|                  |  | EPDM Rubber         | 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12)   | —   | —   | 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0)                                | —   |                |
|                  | Flange   | PFA                 | 15 (0.5), 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12), 350 (14), 400 (16)  | —   | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0) | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0) | —   |                |
|                  |  | Polyurethane Rubber | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12), 350 (14), 400 (16), 500(20), 600 (24), 700 (28), 800 (32), 900(36), 1000(40), 1100(44), 1200(48), 1350(54), 1500(60), 1600(64), 1800(72), 2000(80), 2200(88), 2400(96), 2600(104) | —   | —   | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0) | —   |                |
|                  |  | Natural Soft Rubber | 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12), 350 (14), 400 (16)   | —   | —   | 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0)                                | —   |                |
|                  |  | EPDM Rubber         | 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12), 350 (14), 400 (16)   | —   | —   | 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0)                                | —   |                |
|                  | Wafer  | PFA                 | 2.5 (0.1), 5 (0.2), 10 (0.4), 15 (0.5), 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12)  | —   | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0) | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0) | —   |                |
|                  |  | Ceramics (*1)       | 15 (0.5), 25 (1.0), 40 (1.5), 50 (2.0), 80 (3.0), 100 (4.0), 150 (6.0), 200 (8.0)  | —   | 25 (1.0), 40 (1.5), 50 (2.0), 80 (3.0), 100 (4.0), 150 (6.0), 200 (8.0)                                 | 25(1.0),40(1.5),50(2.0),80(3.0),100(4.0),150(6.0),200(8.0)  | —   |                |
|                  |  | Flange              | PFA  | 2.5 (0.1), 5 (0.2), 10 (0.4), 15 (0.5), 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0), 250 (10), 300 (12), 350 (14), 400 (16) | —   | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0) | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0), 150 (6.0), 200 (8.0) | —              |
|                  | Union Joint  | Ceramics (*2)       | 2.5 (0.1), 5 (0.2), 10 (0.4)   | —   | —   | —   | —   |                |
| Sanitary Type    | Clamp:<br>Tri-Clamp (*4),<br>DIN32676<br>ISO2852/SMS3016 | PFA                 | 15 (0.5), 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0)  | —   | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0)                       | 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0)                       | —   |                |
|                  | Union:<br>DIN11851<br>ISO2853 (*5)<br>SMS1145 (*6)       | PFA                 | 15 (0.5), 25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0)  | —   | —   | —   | —   |                |
|                  | Butt Weld:<br>DIN11850, ISO203                           |                     |  |   |   |   |   |                |

\*1: AXF standard lay length dimensions for wafer type ceramics linings are the same as those for ADMAG ceramics linings.

\*2: AXF standard lay length dimensions for union joint type ceramics linings are the same as those for ADMAG ceramics linings.

\*3: Enhanced dual frequency excitation is not available for models with High grade accuracy.

\*4: Not available with 32 mm (1.25 in.), 125 mm (5.0 in.)

\*5: Not available with 125 mm (5.0 in.)

\*6: Not available with 15 mm (0.5 in.), 125 mm (5.0 in.)

T21.EPS

**Size of AXF Flowtubes: Replacement model for earlier ADMAG or ADMAG AE (Lay length code 2)**

| Unit: mm (in.)       |                    |                     |   |                    |   |  |  |
|----------------------|--------------------|---------------------|---|--------------------|---|--|--|
| Use                  | Process Connection | Lining              | Remote Flowtube   | Integral Flowmeter | High Grade Accuracy 0.2% of Rate  | Enhanced Dual Frequency Excitation (Optional code HF1,HF2) | Replaceable Electrode (Electrode structure code 2) |
| General-purpose use  | Wafer (*6)         | PFA                 | 2.5 (0.1), 5 (0.2), 10 (0.4), 15 (0.5), 25 (1.0), 40 (1.5), 50 (2.0), 80 (3.0), 100 (4.0), 150 (6.0), 200 (8.0) | —                  | 25 (1.0), 40 (1.5), 50 (2.0), 80 (3.0), 100 (4.0), 150 (6.0), 200 (8.0) | —  | —  |
|                      |                    | Polyurethane rubber | 25 (1.0), 40 (1.5), 50 (2.0), 80 (3.0), 100 (4.0), 150 (6.0), 200 (8.0)   | —                  | 25 (1.0), 40 (1.5), 50 (2.0), 80 (3.0), 100 (4.0), 150 (6.0), 200 (8.0) | —  | —  |
|                      | Flange (*7)        | PFA                 | 150 (6.0), 200 (8.0), 250 (10)  | —                  | 150 (6.0), 200 (8.0)  | 150 (6.0), 200 (8.0), 250 (10)                             | 150 (6.0), 200 (8.0), 250 (10)                     |
|                      |                    | Polyurethane rubber | 150 (6.0), 200 (8.0), 250 (10)  | —                  | 150 (6.0), 200 (8.0)  | 150 (6.0), 200 (8.0), 250 (10)                             | 150 (6.0), 200 (8.0), 250 (10)                     |
| Submersible Type     | Wafer (*6)         | PFA                 | 15 (0.5), 25 (1.0), 40 (1.5), 50 (2.0), 80 (3.0), 100 (4.0), 150 (6.0), 200 (8.0)                               | —                  | 25 (1.0), 40 (1.5), 50 (2.0), 80 (3.0), 100 (4.0), 150 (6.0), 200 (8.0) | —  | —  |
|                      |                    | Polyurethane rubber | 25 (1.0), 40 (1.5), 50 (2.0), 80 (3.0), 100 (4.0), 150 (6.0), 200 (8.0)   | —                  | 25 (1.0), 40 (1.5), 50 (2.0), 80 (3.0), 100 (4.0), 150 (6.0), 200 (8.0) | —  | —  |
|                      | Flange (*7)        | PFA                 | 150 (6.0), 200 (8.0), 250 (10)  | —                  | 150 (6.0), 200 (8.0)  | —  | —  |
|                      |                    | Polyurethane rubber | 150 (6.0), 200 (8.0), 250 (10)  | —                  | 150 (6.0), 200 (8.0)  | —  | —  |
| Explosion proof Type | Wafer (*6)         | PFA                 | 2.5 (0.1), 5 (0.2), 10 (0.4), 15 (0.5), 25 (1.0), 40 (1.5), 50 (2.0), 80 (3.0), 100 (4.0), 150 (6.0), 200 (8.0) | —                  | 25 (1.0), 40 (1.5), 50 (2.0), 80 (3.0), 100 (4.0), 150 (6.0), 200 (8.0) | —  | —  |
|                      | Flange (*7)        | PFA                 | 150 (6.0), 200 (8.0), 250 (10)  | —                  | 150 (6.0), 200 (8.0)  | —  | —  |

T22.EPS

\*6: ADMAG lay length dimensions for wafer type of 250 mm (10 in.), and 300 mm (12 in.) are the same as those for AXF Standard.

\*7: ADMAG lay length dimensions for flange type of 15 mm (0.5 in.) to 100 mm (4.0 in.), or 300 mm (12 in.) to 2600 mm (104 in.) are the same as those for AXF Standard.

**Protection:****General-Purpose Use/Sanitary Type/Explosion proof Type:**

IP67, NEMA4X , JIS C0920 immersion-proof type

**Submersible Type (only for Remote Flowtube):**

IP68 (can be used for temporary submergence)

**JIS C0920 Submersible Type**

Note: Test Condition: 50 m below the surface of the water, equivalent to 0.5 MPa hydraulic pressure, for one month.

Cable should be protected at customer site. In the case of installation always under water or corrosion fluid, contact Yokogawa office.

**Coating:****General-Purpose Use/Sanitary Type/Explosion proof Type:**

Size 2.5 to 125 mm (0.1 to 5.0 in.) (Wafer type),

Size 2.5 to 100 mm (0.1 to 4.0 in.) (Stainless steel flange type):

Housing: No coating (stainless steel surface)

Terminal Box and Cover (Remote Flowtube):

Polyurethane corrosion-resistant coating

Coating color: Mint green (Munsell 5.6 BG 3.3/2.9 or its equivalent)

Size 150 to 300 mm (6.0 to 12 in.) (Wafer type),

Size 125 to 400 mm (5.0 to 16 in.) (Stainless steel flange type),

Size 50 to 2600 mm (2.0 to 104 in.) (Carbon steel flange type):

Housing, Terminal Box and Cover (Remote Flowtube):

Polyurethane corrosion-resistant coating

Coating color: Mint green (Munsell 5.6 BG 3.3/2.9 or its equivalent)

**Submersible Type:** Non-tar epoxy coating (black)**Flowtube Material:****Size 2.5 mm (0.1 in.) to 15 mm (0.5 in.)**

| Part Name   | Material  |
|-------------|---|
| Housing     | Stainless steel-JIS SCS11                                     |
| Flange      | Stainless steel-JIS SUS304 (AISI 304 SS/EN 1.4301 equivalent) |
| Mini-Flange | Wafer Type PFA/Polyurethane Rubber lining                     |
|             | Wafer Type Ceramics lining [only for 15 mm (0.5 in.)]         |
|             | Sanitary Type [only for 15 mm (0.5 in.)]                      |
| Pipe        | Flange/Wafer Type PFA/Polyurethane Rubber lining              |
|             | Wafer Type/Union Joint Ceramics lining                        |
|             | Sanitary Type [only for 15 mm (0.5 in.)]                      |
|             | Terminal Box (Remote Flowtube)                                |

T03.EPS

**Size 25 mm (1.0 in.) to 125 mm (5.0 in.)**

| Part Name                      |  | Material   |
|--------------------------------|--|--|
| Housing                        |  | Stainless steel-JIS SUS304<br>(AISI 304 SS/EN 1.4301 equivalent)                                 |
| Flange                         | Process Connection code: B**   | Stainless steel-JIS SUS304<br>(AISI 304 SS/EN 1.4301 equivalent)                                 |
|                                | Process Connection code: C**<br>[(Size 50 mm (2.0 in.) to 125 mm (5.0 in.))]                                 | Carbon steel-JIS SS400   |
| Mini-Flange                    | Wafer Type<br>PFA/Polyurethane Rubber/<br>Natural Soft Rubber/<br>EPDM Rubber lining                         | Size<br>25 mm (1.0 in.)<br>SCS 13 equivalent   |
|                                |  | Size<br>32 mm (1.25 in.) to<br>125 mm (5.0 in.)<br>ASTM 4300/DIN<br>X6Cr17/EN 1.4016 equivalent) |
|                                | Wafer Type<br>Ceramics lining  | Size<br>25 mm (1.0 in.) to<br>50 mm (2.0 in.)<br>SUS316L (AISI 316L SS/EN 1.4404 equivalent)     |
|                                |  | Size<br>80 mm (3.0 in.),<br>100 mm (4.0 in.)<br>SUS304 (AISI 304 SS/EN 1.4301 equivalent)        |
| Pipe                           | Sanitary Type<br>Flange/Wafer Type<br>PFA/Polyurethane Rubber/<br>Natural Soft Rubber/<br>EPDM Rubber lining | Size<br>25 mm (1.0 in.)<br>SCS13 /EN 1.4308 equivalent   |
|                                |  | Size<br>32 mm (1.25 in.) to<br>125 mm (5.0 in.)<br>ASTM 4300/DIN<br>X6Cr17/EN 1.4016 equivalent) |
|                                | Wafer Type<br>Ceramics lining  | Size<br>25 mm (1.0 in.) to<br>100 mm (4.0 in.)<br>Alumina ceramics (99.9%)                       |
|                                | Sanitary Type  | Size<br>25 mm (1.0 in.)<br>SCS13 /EN 1.4308 equivalent   |
|                                |  | Size<br>32 mm (1.25 in.) to<br>125 mm (5.0 in.)<br>SUS304 (AISI 304 SS/EN 1.4301 equivalent)     |
| Terminal Box (Remote Flowtube) |  | Aluminum alloy   |

T04.EPS

**Size 500 mm (20 in.) to 2600 mm (104 in.)**

| Part Name                         |  | Material   |
|-----------------------------------|--|--|
| Housing                           |  | Carbon steel-JIS SPCC  |
| Flange                            |  | Carbon steel-JIS SS400   |
| Pipe                              |  | Stainless steel-JIS SUS304<br>(AISI 304 SS/EN 1.4301 equivalent) |
| Terminal Box<br>(Remote Flowtube) | Case, Cover<br>(500 to 1000 mm)<br>(20 to 40 in.)                                      | Aluminum alloy   |
|                                   | Case<br>(1100 to 2600 mm)<br>(44 to 104 in.)<br>Electrical connection:<br>Carbon steel | Stainless steel-JIS SUS304<br>(AISI 304 SS/EN 1.4301 equivalent) |
|                                   | Cover<br>(1100 to 2600 mm)<br>(44 to 104 in.)  | Aluminum alloy   |

T05-1.EPS

**Wetted Part Material:****Lining:**

Fluorocarbon PFA\*1 lining

Polyurethane Rubber lining

Natural Soft Rubber lining\*2

EPDM Rubber lining\*3

Alumina ceramics lining

\*1: PFA is FDA (U.S. Food and Drug Administration) approval material.

\*2: Natural soft rubber is a material which can reduce wear of the lining due to fluids mixed with slurries. If the concentration of mixed slurries is high, contact Yokogawa as necessary measures need to be taken separately for the electrodes.

\*3: EPDM rubber lining is superior in the ozone proof.

**Electrode:**

Stainless steel-JIS SUS316L (AISI 316L SS/EN 1.4404 equivalent), Hastelloy\*1 C276 equivalent, Titanium, Tantalum, Platinum-Iridium, Tungsten Carbide, Platinum-Alumina cermet(only for ceramics lining)  
Note : For size over 500 mm and sanitary type, SUS316L only.

**Grounding Ring/Grounding Electrode:**

- Grounding Ring(plate type)

Stainless steel-JIS SUS316 (AISI 316 SS/EN 1.4401 equivalent),

Stainless steel-JIS SUS316L (AISI 316L SS/EN 1.4404 equivalent),

Hastelloy\*1 C276 equivalent, Titanium,

Stainless steel-JIS SUS304 (AISI 304 SS/EN 1.4301 equivalent) for size 500 to 1000mm (20 to 40 in.) only,

SS400 carbon steel lined with stainless steel-JIS SUS316 (AISI 316 SS/EN 1.4404 equivalent) for size 1100 to 2600mm (44 to 104 in.) only.

- Grounding Electrode(electrode type)

Fluorocarbon PFA lining + grounding electrode (Tantalum, Platinum-Iridium)

\*1: Hastelloy is a registered trademark of Haynes International Inc.

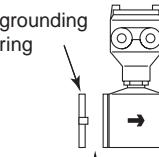
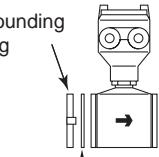
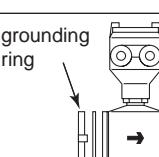
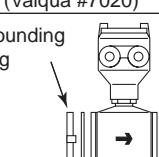
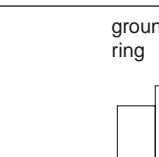
\*2: Available with sizes 2.5 to 200mm (0.1 to 8.0 in.), PFA and ceramics linings only.

**Size 150 mm (6.0 in.) to 400 mm (16 in.)**

| Part Name                      |  | Material   |
|--------------------------------|--|--|
| Housing                        |  | Carbon steel-JIS SPCC  |
| Flange                         | Process Connection code: B**   | Stainless steel-JIS SUS304 or SUS304F (AISI 304 SS/EN 1.4301 equivalent) |
|                                | Process Connection code: C**   | Carbon steel-JIS SS400   |
| Mini-Flange                    | Wafer Type<br>PFA/Polyurethane Rubber/Natural Soft Rubber/<br>EPDM Rubber lining             | Carbon steel-JIS SS400   |
|                                | Wafer Type<br>Ceramics lining [available with<br>150 mm (6.0 in.), 200 mm (8.0 in.)]         | Stainless steel-JIS SUS304 (AISI 304 SS/EN 1.4301 equivalent)            |
| Pipe                           | Flange Type/Wafer Type<br>PFA/Polyurethane Rubber/Natural Soft Rubber/<br>EPDM Rubber lining | Stainless steel-JIS SUS304 (AISI 304 SS/EN 1.4301 equivalent)            |
|                                | Wafer Type<br>Ceramics lining [available with<br>150 mm (6.0 in.), 200 mm (8.0 in.)]         | Alumina ceramics (99.9%)   |
| Terminal Box (Remote Flowtube) |  | Aluminum alloy   |

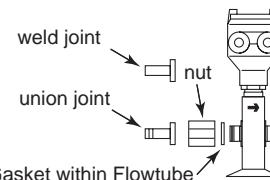
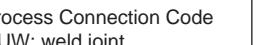
T05.EPS

**Gasket:**

| Use   | General-Purpose Use / Submersible Type / Explosion proof Type   |   |
|---|---|---|
| Lining  | PFA/Polyurethane Rubber/<br>Natural Soft Rubber/<br>EPDM Rubber   | Ceramics  |
| Standard  | grounding ring<br><br>No gasket within Flowtube  | grounding ring<br><br>Gasket within Flowtube |
|   | Gasket Material (within Flowtube)   |   |
|   | —   | Fluororesin with ceramic fillers<br>(Valqua #7020)  |
| Optional code<br>(GA, GC,<br>GD, or GF)<br><br>(Only when selecting the PFA lining/<br>ceramics lining) | grounding ring<br><br>Gasket within Flowtube   | grounding ring<br><br>Gasket within Flowtube |
|   | Gasket Material (within Flowtube)   |   |
|   | GA: Fluororubber for PVC pipes (Viton®)<br>GC: Acid-resistant fluororubber for PVC pipes (Viton®)<br>GD: Alkali-resistant fluororubber for PVC pipes (Viton®)<br>GF*: Fluoroelastomer with alkali-resistant carbons for metal pipes |   |
| *1: GF is applicable only for ceramics lining.  |   |   |
| Optional code<br>(BCF, BSF,<br>BCC, or<br>BSC)  | grounding ring<br><br>Flange of user's pipe  | Gasket for user's flange  |
|   | Gasket Material (for user's flange)   |   |
|   | BCF, BSF: PTFE-sheathed non-asbestos<br>BCC, BSC: Chloroprene rubber  |   |

T23-1.EPS

**Joints:**

| Lining  | Ceramics Weld / Union Joints (size 10 mm or less)  |   |
|---|--|---|
| Standard                                      | weld joint<br>             |   |
|   | union joint<br>            |   |
|   | Gasket within Flowtube<br> |   |
|   | Materials for Weld / Union Joint   |   |
| Process Connection Code GUW: weld joint       |  | Stainless steel (JIS SUS316L (ANSI 316L SS/EN 1.4404 equivalent)) |
| Process Connection Code GUN, GUR: union joint |  |   |

Note: Contact Yokogawa office if PVC union joint is required.

T23-3.EPS

| Use   | Sanitary Type  |
|---|--|
| Standard  | Adapter for clamp connection<br>      |
|   | Adapter for union connection<br>      |
|   | Adapter for butt weld connection<br> |
|   | Materials for Adapters (clamp, union, butt weld)   |
| Stainless steel-JIS SUS316L (AISI 316L SS/EN 1.4404 equivalent) |  |

T23-4.EPS

**O-Ring (Replaceable electrode type only):**

Fluororubber (Part number : G9303SE)

**Electrode Construction:****Non-replaceable Electrode Type**

General-Purpose Use/Submersible Type/Explosion proof Type:

PFA, Polyurethane Rubber lining:

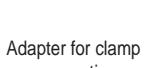
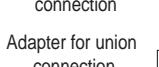
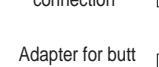
External insertion type

Natural Soft Rubber, EPDM Rubber lining:

Internal insertion type

Ceramics lining: Integral type

Sanitary Type: Internal insertion type

| Use                               | Sanitary Type   |
|-----------------------------------|---|
| Lining                            | PFA   |
| Standard                          | Adapter for clamp connection<br>     |
|                                   | Adapter for union connection<br>     |
|                                   | Adapter for butt weld connection<br> |
| Gasket within Flowtube            |   |
| Gasket Material (within Flowtube) |   |
| EPDM (ethylene propylene) rubber  |   |
| Optional code (GH)                | GH: Silicone rubber   |

T23-2.EPS

**Replaceable Electrode Type**

Electrode parts can be put into unit to facilitate replacement or mounting at customer site.  
The optional dedicated tool (F9807SK) is required.

**Replaceable electrodes are available for the following:**

**AXF standard:**

| Use                 | Process Connection | Available Size                  | Lining                         | Electrode Material  |
|---------------------|--------------------|---------------------------------|--------------------------------|---|
| General-Purpose Use | Wafer              | 25 to 300 mm<br>(1.0 to 12 in.) | PFA/<br>Polyurethane<br>Rubber | JIS SUS316L<br>(AISI 316L)<br>SS/EN<br>1.4404<br>equivalent) <sup>(*)1)</sup> |
|                     | Flange             | 25 to 400 mm<br>(1.0 to 16 in.) |                                |   |

T06.EPS

**Replacement model for earlier ADMAG or ADMAG AE:**

| Use                 | Process Connection | Available Size                   | Lining                         | Electrode Material  |
|---------------------|--------------------|----------------------------------|--------------------------------|---|
| General-Purpose Use | Flange             | 150 to 250 mm<br>(6.0 to 10 in.) | PFA/<br>Polyurethane<br>Rubber | JIS SUS316L<br>(AISI 316L)<br>SS/EN<br>1.4404<br>equivalent) <sup>(*)1)</sup> |

T07.EPS

\*1: If any other electrode materials are required, please contact Yokogawa office.

**Mounting/Shapes (Remote Flowtube):**

- Electrical Connection: ANSI 1/2 NPT female  
ISO M20 × 1.5 female  
JIS G1/2 (PF1/2) female
- Direction of Electrical Connection: The direction can be changed even after delivery.  
Note: In case of submersible types, an optional code DHC, and sizes of 1100 mm or larger, the direction can not be changed after delivery.
- Terminal Connection at Terminal Box: M4 size screw

**Grounding:**

Grounding resistance 100 Ω or less

- \* In case of explosion proof type, the protective grounding must be connected to a suitable IS grounding system.
- \* In case of TIIS Flame proof type, refer to description of "HAZARDOUS AREA CLASSIFICATION".

**Combined Converter:**

- A remote flowtube for sizes of up to 400 mm can be combined with the AXFA11 Converter or the AXFA14 Converter. If a combined converter is changed from AXFA11 to AXFA14 or vice versa, a new meter factor must be adjusted by flow calibrations.
- In case that size 250 mm (10 in.) or larger is used in low conductivity or high concentration slurries, please use the AXFA11 Converter.
- A remote flowtube for sizes of 500 mm or larger can be combined with the AXFA11 Converter only.
- Maximum Cable Length:  
Combination of AXF remote Flowtube and AXFA11:  
up to 200 m (660 ft)  
Combination of AXF remote Flowtube and AXFA14:  
up to 100 m (330 ft)

**■ HAZARDOUS AREA CLASSIFICATION****FM:**

\*AXF002C – AXF400C

**(Integral Flowmeter)**

Explosion proof for Class I, Division 1, Group A, B, C, & D.

Dust-ignition proof for Class II/III, Division1, Group E, F & G.

Intrinsically safe (electrodes) for Class I, Division 1,

Group A, B, C, & D.

"SEAL ALL CONDUITS WITHIN 18 INCHES"

"WHEN INSTALLED IN DIV. 2, SEALS NOT REQUIRED"

Electrode Circuit Um: 250 Vac/dc

Excitation Circuit: 140V max

Enclosure: NEMA 4X

| Temperature Code | Maximum Process Temperature | Minimum Process Temperature |
|------------------|-----------------------------|-----------------------------|
| T6               | +70°C (+158°F)              | -40°C (-40°F)               |
| T5               | +85°C (+185°F)              | -40°C (-40°F)               |
| T4               | +120°C (+248°F)             | -40°C (-40°F)               |
| T3               | +130°C (+266°F)             | -40°C (-40°F)               |

T27-1.EPS

Ambient Temp.: -40°C to +60°C (-40°F to +140°F)

**(Remote Flowtube)**

Explosion proof for Class I, Division 1, Group A, B, C, & D.

Dust-ignition proof for Class II/III, Division1, Group E, F & G.

Intrinsically safe (electrodes) for Class I, Division 1,

Group A, B, C, & D.

"SEAL ALL CONDUITS WITHIN 18 INCHES"

"WHEN INSTALLED IN DIV. 2, SEALS NOT REQUIRED"

Electrode Circuit Um: 250 Vac/dc

Excitation Circuit: 170V max

Enclosure: NEMA 4X

| Temperature Code | Maximum Process Temperature | Minimum Process Temperature |
|------------------|-----------------------------|-----------------------------|
| T6               | +70°C (+158°F)              | -40°C (-40°F)               |
| T5               | +85°C (+185°F)              | -40°C (-40°F)               |
| T4               | +120°C (+248°F)             | -40°C (-40°F)               |
| T3               | +150°C (+302°F)             | -40°C (-40°F)               |

T28-1.EPS

Ambient Temp.: -40°C to +60°C (-40°F to +140°F)

Note: Installation shall be in accordance with the manufacturer's instructions and National Electric code, ANSI/NFPA-70.

**CENELEC ATEX (KEMA):****No. KEMA 03ATEX2435**

\*AXF002C – AXF400C

**(Integral Flowmeter)****CENELEC ATEX (KEMA) Flame proof Type**

Group category: II 2G

EEx dme [ia] IIC T6...T3

Electrode Circuit Um: 250 Vac/dc

Excitation Circuit: 140V max

Enclosure: IP66, IP67

| Temperature Class | Maximum Process Temperature | Minimum Process Temperature |
|-------------------|-----------------------------|-----------------------------|
| T6                | +70°C (+158°F)              | -40°C (-40°F)               |
| T5                | +85°C (+185°F)              | -40°C (-40°F)               |
| T4                | +120°C (+248°F)             | -40°C (-40°F)               |
| T3                | +130°C (+266°F)             | -40°C (-40°F)               |

T27-2.EPS

Ambient Temp.: -40°C to +60°C (-40°F to +140°F)

**CENELEC ATEX (KEMA) Type of Protection "Dust"**

Group category: II 1D

Maximum surface temperature:

| Maximum Surface Temperature | Maximum Process Temperature |
|-----------------------------|-----------------------------|
| T75°C (+167°F)              | +70°C (+158°F)              |
| T85°C (+185°F)              | +85°C (+185°F)              |
| T100°C (+212°F)             | +120°C (+248°F)             |
| T110°C (+230°F)             | +130°C (+266°F)             |

T29.EPS

**(Remote Flowtube)****CENELEC ATEX (KEMA) Flame proof Type**

Group category: II 2G

EEx dme [ia] IIC T6...T3

Electrode Circuit Um: 250 Vac/dc

Excitation Circuit: 170V max

Enclosure: IP66, IP67

| Temperature Class | Maximum Process Temperature | Minimum Process Temperature |
|-------------------|-----------------------------|-----------------------------|
| T6                | +70°C (+158°F)              | -40°C (-40°F)               |
| T5                | +85°C (+185°F)              | -40°C (-40°F)               |
| T4                | +120°C (+248°F)             | -40°C (-40°F)               |
| T3                | +150°C (+302°F)             | -40°C (-40°F)               |

T28-2.EPS

Ambient Temp.: -40°C to +60°C (-40°F to +140°F)

**CENELEC ATEX (KEMA) Type of Protection "Dust"**

Group category: II 1D

Maximum surface temperature:

| Maximum Surface Temperature | Maximum Process Temperature |
|-----------------------------|-----------------------------|
| T75°C (+167°F)              | +70°C (+158°F)              |
| T85°C (+185°F)              | +85°C (+185°F)              |
| T100°C (+212°F)             | +120°C (+248°F)             |
| T115°C (+239°F)             | +150°C (+302°F)             |

T30.EPS

**CSA:**

\*AXF002C – AXF400C

**(Integral Flowmeter)****For CSA C22.2 Series**Explosion proof for Class I, Division 1, Group A, B, C, & D.  
Dust-ignition proof for Class II/III, Division 1, Group E, F & G.

Intrinsically safe (electrodes) for Class I, Division 1, Group A, B, C, &amp; D.

"SEAL ALL CONDUITS WITHIN 50 cm OF THE ENCLOSURE"

"WHEN INSTALLED IN DIV. 2, SEALS NOT REQUIRED"

**For CSA E79 Series**

Flame proof for Zone 1, Ex dme [ia] IIC T6...T3

Intrinsically safe (electrodes) for Zone 0, Ex ia IIC T6...T3

Electrode Circuit Um: 250 Vac/dc

Excitation Circuit: 140V max

Enclosure: Type 4X, IP66, IP67

| Temperature Code | Maximum Process Temperature | Minimum Process Temperature |
|------------------|-----------------------------|-----------------------------|
| T6               | +70°C (+158°F)              | -40°C (-40°F)               |
| T5               | +85°C (+185°F)              | -40°C (-40°F)               |
| T4               | +120°C (+248°F)             | -40°C (-40°F)               |
| T3               | +130°C (+266°F)             | -40°C (-40°F)               |

T27-1.EPS

Ambient Temp.: -40°C to +60°C (-40°F to +140°F)

**(Remote Flowtube)****For CSA C22.2 Series**Explosion proof for Class I, Division 1, Group A, B, C, & D.  
Dust-ignition proof for Class II/III, Division 1, Group E, F & G.

Intrinsically safe (electrodes) for Class I, Division 1, Group A, B, C, &amp; D.

"SEAL ALL CONDUITS WITHIN 50 cm OF THE ENCLOSURE"

"WHEN INSTALLED IN DIV. 2, SEALS NOT REQUIRED"

**For CSA E79 Series**

Flame proof for Zone 1, Ex dme [ia] IIC T6...T3

Intrinsically safe (electrodes) for Zone 0, Ex ia IIC T6...T3

Electrode Circuit Um: 250 Vac/dc

Excitation Circuit: 170V max

Enclosure: Type 4X, IP66, IP67

| Temperature Code | Maximum Process Temperature | Minimum Process Temperature |
|------------------|-----------------------------|-----------------------------|
| T6               | +70°C (+158°F)              | -40°C (-40°F)               |
| T5               | +85°C (+185°F)              | -40°C (-40°F)               |
| T4               | +120°C (+248°F)             | -40°C (-40°F)               |
| T3               | +150°C (+302°F)             | -40°C (-40°F)               |

T28-1.EPS

Ambient Temp.: -40°C to +60°C (-40°F to +140°F)

**TIIS:****(Integral Flowmeter)**

- Construction: Exde[ia] II CT4
  - : Converter, Terminal box ; Explosion proof
  - Flowtube ; Increased Safety
  - Signal Circuit ; Intrinsically Safe(ia)
- Ambient Temperature: -40 to 60°C (power supply code 1)  
-40 to 50°C (power supply code 2)
- Fluid Temperature: 120°C max
- Electrode Circuit: 250 V AC/DC
- Grounding: JIS Class C(grounding resistor 10Ω or less) or JIS Class A(grounding resistor 10Ω or less)

\*In case that ambient temperature exceeds 50°C, use heat-resistant cables with maximum allowable temperature of 70°C or above.

**(Remote Flowtube)**

- Construction: Exde[ia] II CT4
  - : Terminal box ; Explosion proof
  - Flowtube; Increased Safety
  - Electrode; Intrinsically Safe(ia)
- Ambient Temperature: -40 to 60°C
- Fluid Temperature: 120°C max
- Electrode Circuit: 250 V AC/DC
- Grounding: JIS Class C(grounding resistance 10Ω or less) or JIS Class A(grounding resistance 10Ω or less)

Note : In case of TIIS Flame proof type, a remote flowtube is available for combined use with the AXFA14 converter only.

\*In case that ambient temperature exceeds 50°C, use heat-resistant cables with maximum allowable temperature of 70°C or above.

## ■ STANDARD PERFORMANCE

**Reference Conditions:**

- Similar to BS EN 29104 (1993); ISO9104 (1991)
- Fluid temperature: +10°C to +30°C (+50°F to 68°F)
  - Ambient temperature: +20°C to +30°C (+68°F to +68°F)
  - Warm-up time: 30 min
  - Straight runs:
    - Upstream > 10 × DN
    - Downstream > 5 × DN
  - Properly grounded
  - Properly centered

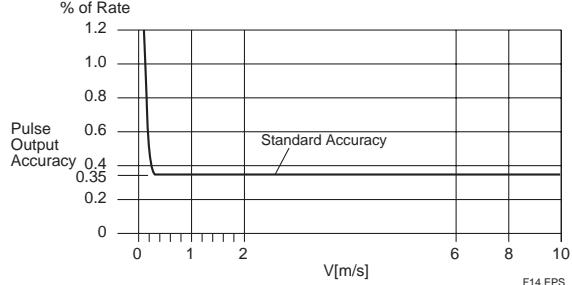
**Accuracy (at reference conditions)****Pulse Output:****PFA/Ceramics Lining:**

| Size mm<br>(in.)            | Flow Velocity<br>Vm/s (ft/s)   | Standard<br>Accuracy<br>(Calibration<br>code B) | Flow Velocity<br>Vm/s (ft/s)   | High Grade<br>Accuracy<br>(Calibration<br>code C) |
|-----------------------------|--------------------------------|---|--------------------------------|---|
| 2.5 (0.1)<br>to<br>15 (0.5) | V < 0.3 (1)                    | 1.0 mm/s  | V < 0.15 (0.5)                 | —   |
|                             | 0.3 ≤ V ≤ 10<br>(1)<br>(33)    | 0.35% of<br>Rate                                |                                |   |
| 25 (1.0)<br>to<br>200 (8.0) | V < 0.15 (0.5)                 | 0.5 mm/s  | 0.15 ≤ V < 1<br>(0.5)<br>(3.3) | 0.18% of Rate<br>+ 0.2mm/s                        |
|                             | 0.15 ≤ V ≤ 10<br>(0.5)<br>(33) | 0.35% of<br>Rate                                | 1 ≤ V ≤ 10<br>(3.3)<br>(33)    | 0.2% of Rate                                      |
|                             | V < 0.15 (0.5)                 | 0.5 mm/s  | 0.15 ≤ V ≤ 10<br>(0.5)<br>(33) | —   |
| 250 (10)<br>to<br>400 (16)  | 0.15 ≤ V ≤ 10<br>(0.5)<br>(33) | 0.35% of<br>Rate                                |                                |   |

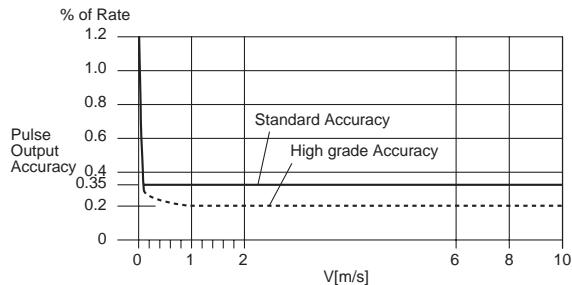
T08.EPS

Enhanced dual frequency excitation(Option code HF2):

Standard accuracy +1 mm/s

**Size 2.5 mm (0.1 in.) to 15 mm (0.5 in.)**

F14.EPS

**Size 25 mm (1.0 in.) to 400 mm (16 in.)**

F15.EPS

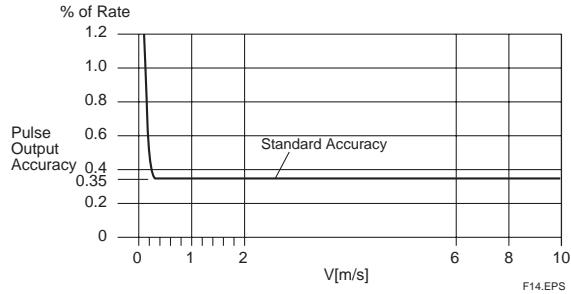
**Polyurethane Rubber /Natural Soft Rubber / EPDM Rubber Lining:**

| Size mm (in.)           | Flow Velocity V m/s (ft/s)      | Standard Accuracy (Calibration code B) |
|-------------------------|---------------------------------|--|
| 25 (1.0) to 400 (16)    | $V < 0.3$ (1.0)                 | 1.0 mm/s                               |
|                         | $0.3 \leq V \leq 10$ (1.0) (33) | 0.35% of Rate                          |
| 500 (20) to 1000 (40)   | $V < 0.3$ (1.0)                 | 1.75 mm/s                              |
|                         | $0.3 \leq V < 1$ (1.0) (3.3)    | 0.25% of Rate + 1 mm/s                 |
|                         | $1 \leq V \leq 10$ (3.3) (33)   | 0.35% of Rate                          |
| 1100 (44) to 2000 (80)  | $V < 0.3$ (1.0)                 | 2.2 mm/s                               |
|                         | $0.3 \leq V < 1$ (1.0) (3.3)    | 0.4% of Rate + 1 mm/s                  |
|                         | $1 \leq V \leq 10$ (3.3) (33)   | 0.5% of Rate                           |
| 2200 (88) to 2600 (104) | $V < 1$ (3.3)                   | 8.5 mm/s                               |
|                         | $1 \leq V \leq 10$ (3.3) (33)   | 0.85% of Rate                          |

T09.EPS

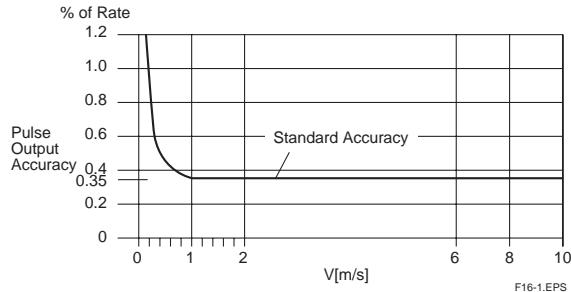
Enhanced dual frequency excitation(Option code HF2) : Standard accuracy +1 mm/s

**Size 25 mm (1.0 in.) to 400 mm (16 in.)**



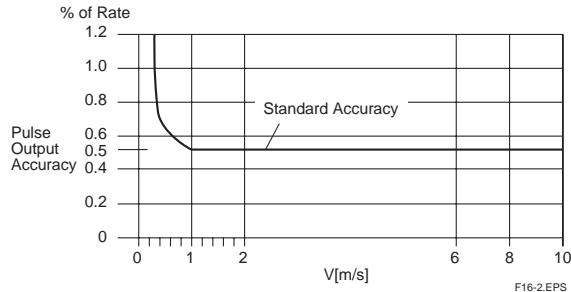
F14.EPS

**Size 500 mm (20 in.) to 1000 mm (40 in.)**



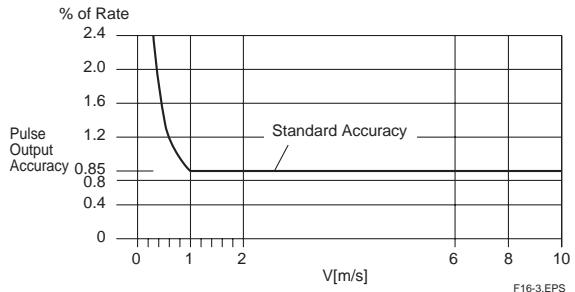
F16-1.EPS

**Size 1100 mm (44 in.) to 2000 mm (80 in.)**



F16-2.EPS

**Size 2200 mm (88 in.) to 2600 mm (104 in.)**



F16-3.EPS

**Current Output:** Pulse output accuracy plus 0.05% of Span

**Repeatability:**

0.1% of Rate ( $V \geq 1$  m/s (3.3 ft/s))

0.05% of Rate + 0.5 mm/s ( $V < 1$  m/s (3.3 ft/s))

**Maximum Power Consumption:**

Integral Flowmeter: 12W

Remote Flowtube: Combined with AXFA11: 20W  
Combined with AXFA14: 12W

**Insulation Resistance (\*1):**

Integral Flowmeter:

Between power supply terminals and ground terminal : 100MΩ at 500V DC

Between power supply terminals and input/output terminals : 100MΩ at 500V DC

Between ground terminal and input/output terminals : 20MΩ at 100V DC

Between input/output terminals : 20MΩ at 100V DC

Remote Flowtube:

Between excitation current terminal and signal / common terminals : 100MΩ at 500V DC

Between signal terminals : 100MΩ at 500V DC

Between signal terminals and common terminal (C) : 100MΩ at 500V DC

**Withstand Voltage (\*1):**

Integral Flowmeter:

Between power supply terminals and ground terminal : 1390V AC for 2 seconds

Between power supply terminals and input/output terminals : 1390V AC for 2 seconds

Remote Flowtube (option code JF3, KF2, and CF1)

Between excitation current terminal and ground terminal : 1500V AC for 1 minute

Between signal terminals and ground terminal :

1500V AC for 1 minute

Between signal terminals and excitation current terminal : 2000V AC for 1 minute

Remote Flowtube (option code FF1)

Between signal terminals and ground terminal : 500V AC for 1 minute or 600V AC for 1 second

Between signal terminals and excitation current terminal : 2000V AC for 1 minute or 2400V AC for 1 second.

**CAUTION**

- \*1:• When performing the Insulation Resistance Test or the Withstand Voltage Test please obey the following caution.
- Following the relevant test, wait for more than 10 seconds after the power supply has been turned off before removing the cover.
  - Remove all wires from terminals before testing.
  - When the power terminal has a lighting protector (optional code A), remove the short bar at the ground terminal.
  - After testing, be sure to discharge by using a resistance and return all wires and the short bar to its correct position.
  - Screws must be tightened to a torque of 1.18 N·m or more.
  - After closing the cover, the power supply can be restored.

**Safety Requirement Standards:**

EN61010

- Altitude at installation site: Max. 2000 m above sea level
- Installation category based on IEC1010:  
Overvoltage category II ("II" applies to electrical equipment which is supplied from the fixed installation like distribution board.)
- Pollution degree based on IEC1010  
Pollution degree 2 ("Pollution degree" describes the degree to which a solid, liquid, or gas which deteriorates dielectric strength or surface resistivity is adhering. "2" applies to a normal indoor atmosphere.)

**EMC Conformity Standards:**

EN61326

EN61000-3-2, EN61000-3-3

AS/NZS 2064

**Pressure Equipment Directive:**

Module: H

Type of Equipment: Piping

Type of Fluid: Liquid and Gas

Group of Fluid: 1 and 2

**General-Purpose Use/Submersible Type/Explosion proof Type:**

| MODEL       | DN<br>(mm) (*1) | PS<br>(MPa) (*1) | PS DN<br>(MPa · mm) | CATEGORY(*2)                   |
|-------------|-----------------|------------------|---------------------|--------------------------------|
| AXF002G/C   | 2.5             | 4                | 10                  | Article 3, (*3)<br>paragraph 3 |
| AXF005G/C   | 5               | 4                | 20                  | Article 3, (*3)<br>paragraph 3 |
| AXF010G/C   | 10              | 4                | 40                  | Article 3, (*3)<br>paragraph 3 |
| AXF015G/W/C | 15              | 4                | 60                  | Article 3, (*3)<br>paragraph 3 |
| AXF025G/W/C | 25              | 4                | 100                 | Article 3, (*3)<br>paragraph 3 |
| AXF032G/W/C | 32              | 4                | 128                 | II                             |
| AXF040G/W/C | 40              | 4                | 160                 | II                             |
| AXF050G/W/C | 50              | 4                | 200                 | II                             |
| AXF065G/W/C | 65              | 2                | 130                 | II                             |
| AXF080G/W/C | 80              | 2                | 160                 | II                             |
| AXF100G/W/C | 100             | 2                | 200                 | II                             |
| AXF125G/W/C | 125             | 2                | 250                 | II                             |
| AXF150G/W/C | 150             | 2                | 300                 | II                             |
| AXF200G/W/C | 200             | 2                | 400                 | III                            |
| AXF250G/W/C | 250             | 2                | 500                 | III                            |
| AXF300G/W/C | 300             | 2                | 600                 | III                            |
| AXF350G/W/C | 350             | 1                | 700                 | III                            |
| AXF400G/W/C | 400             | 1                | 800                 | III                            |

T10-1.EPS

**Sanitary Type:**

| MODEL   | DN<br>(mm) (*1) | PS<br>(MPa) (*1) | PS D<br>(MPa · mm) | CATEGORY (*2)                  |
|---------|-----------------|------------------|--------------------|--------------------------------|
| AXF015H | 15              | 1                | 15                 | Article 3, (*3)<br>paragraph 3 |
| AXF025H | 25              | 1                | 25                 | Article 3, (*3)<br>paragraph 3 |
| AXF032H | 32              | 1                | 32                 | I                              |
| AXF040H | 40              | 1                | 40                 | I                              |
| AXF050H | 50              | 1                | 50                 | I                              |
| AXF065H | 65              | 1                | 65                 | I                              |
| AXF080H | 80              | 1                | 80                 | I                              |
| AXF100H | 100             | 1                | 100                | I                              |
| AXF125H | 125             | 1                | 125                | I                              |

T10-2.EPS

Note : The sizes of 500 to 2600 mm (20 to 104 in.) are not attached CE marking of PED.

\*1: PS: Maximum allowable pressure for Flowtube  
DN: Nominal size

\*2: For details, see "Table 6 covered by ANNEX II of EC Directive on Pressure Equipment Directive 97/23/EC."

\*3: AXF002G/C to AXF025G/W/C, AXF015H and AXF025H are outside the scope of CE marking of PED.

## ■ NORMAL OPERATING CONDITIONS

### Ambient Temperature: -40° to +60°C (-40° to +140°F)

- \*1: Minimum temperature should also be limited according to minimum fluid temperature of linings.
- \*2: Indicator's operating range (integral flowmeter): -20° to +60°C (-4° to +140°F)
- \*3: Maximum temperature should be +50°C (+122°F) in the case of power supply code 2 (integral flowmeter).

### Ambient Humidity: 0 to 100%

Lengthy continuous operation at 95% or more is not recommended.

### Power Supply (integral flowmeter):

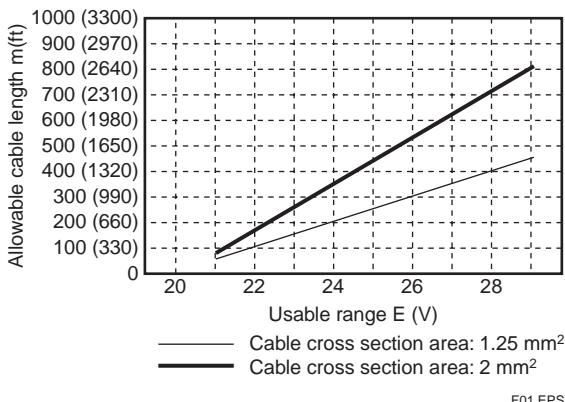
#### Power supply code 1:

- AC specifications  
Rated power supply: 100 to 240 V AC, 50/60 Hz  
(Operating voltage range: 80 to 264 V AC)
- DC specifications  
Rated power supply: 100 to 120 V DC  
(Operating voltage range: 90 to 130 V DC)

#### Power supply code 2:

- AC specifications  
Rated power supply: 24 V AC, 50/60 Hz  
(Operating voltage range: 20.4 to 28.8 V AC)
- DC specifications  
Rated power supply: 24 V DC  
(Operating voltage range: 20.4 to 28.8 V DC)

### Supplied Voltage and Cable Length for Power Supply Code 2



### Fluid Conductivity:

Size 2.5 to 10 mm (0.1 to 0.4 in.): 5 µS/cm or larger

Size 15 to 125 mm (0.5 to 5 in.): 1 µS/cm or larger

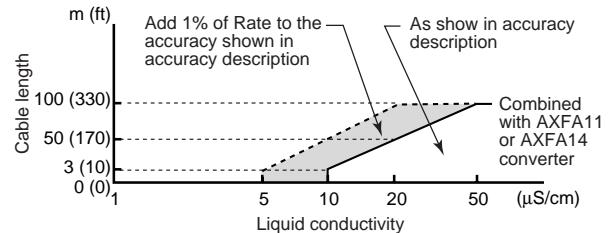
Size 150 to 400 mm (6 to 16 in.): 3 µS/cm or larger

Note: In the case of fluids which have large flow noise (pure water, pure alcohol or others), low conductivity and low viscosity, please contact Yokogawa office.

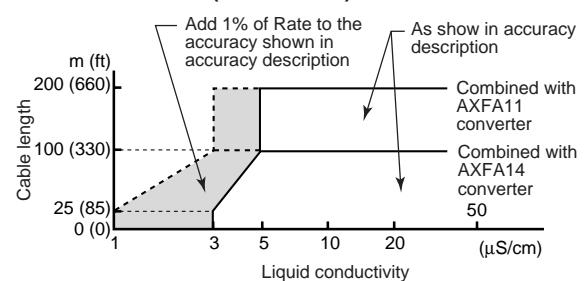
Size 500 to 2600 mm (20 to 104 in.) : 50 µS/cm or larger.

### Cable Length and Liquid Conductivity (Remote Flowtube):

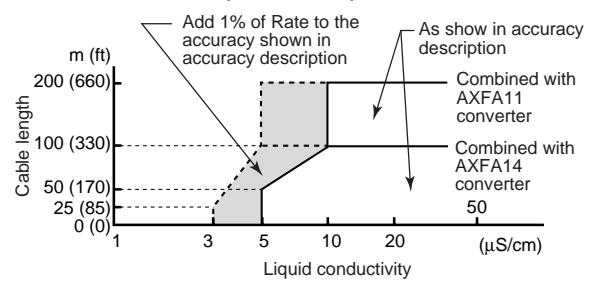
#### Size 2.5 to 10 mm (0.1 to 0.4 in.)



#### Size 15 to 125 mm (0.5 to 5.0 in.)



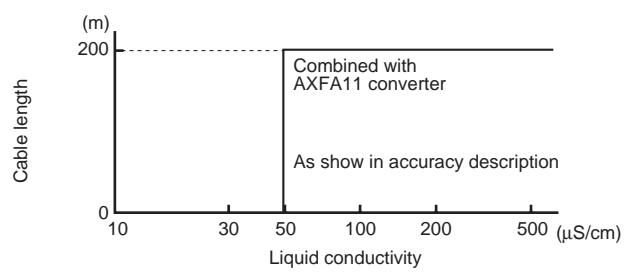
#### Size 150 to 400 mm (6.0 to 16 in.)



F03.EPS

Note: In case that size 250 or 300 mm (10 or 12 in.) is used for high conductivity fluid (ex. caustic soda, seawater), please use the flange type.

#### Size 500 to 2600 mm (20 to 104 in.)



F02.EPS

**Measurable Flow Rate Range:**SI Units (Size: mm, Flow rate: m<sup>3</sup>/h)

| Size<br>(mm) | 0 to Min. Span Flow Rate<br>(0.1 m/s) | 0 to Max. Span Flow Rate<br>(10 m/s) |
|--------------|---------------------------------------|--------------------------------------|
| 2.5          | 0 to 0.0018 m <sup>3</sup> /h         | 0 to 0.1767 m <sup>3</sup> /h        |
| 5            | 0 to 0.0071                           | 0 to 0.7068                          |
| 10           | 0 to 0.0283                           | 0 to 2.8274                          |
| 15           | 0 to 0.0637                           | 0 to 6.361                           |
| 25           | 0 to 0.1768                           | 0 to 17.671                          |
| 32           | 0 to 0.2897                           | 0 to 28.967                          |
| 40           | 0 to 0.4524                           | 0 to 45.23                           |
| 50           | 0 to 0.7069                           | 0 to 70.68                           |
| 65           | 0 to 1.1946                           | 0 to 119.45                          |
| 80           | 0 to 1.8096                           | 0 to 180.95                          |
| 100          | 0 to 2.8275                           | 0 to 282.74                          |
| 125          | 0 to 4.418                            | 0 to 441.7                           |
| 150          | 0 to 6.362                            | 0 to 636.1                           |
| 200          | 0 to 11.310                           | 0 to 1,130.9                         |
| 250          | 0 to 17.672                           | 0 to 1,767.1                         |
| 300          | 0 to 25.447                           | 0 to 2,544.6                         |
| 350          | 0 to 34.64                            | 0 to 3,463                           |
| 400          | 0 to 45.24                            | 0 to 4,523                           |
| 500          | 0 to 70.69                            | 0 to 7,068                           |
| 600          | 0 to 101.79                           | 0 to 10,178                          |
| 700          | 0 to 138.55                           | 0 to 13,854                          |
| 800          | 0 to 180.96                           | 0 to 18,095                          |
| 900          | 0 to 229.03                           | 0 to 22,902                          |
| 1000         | 0 to 282.75                           | 0 to 28,274                          |

T11.EPS

English Units (Size: in., Flow rate: GPM)

| Size<br>(in.) | 0 to Min. Span Flow Rate<br>(0.33ft/s) | 0 to Max. Span Flow Rate<br>(33ft/s) |
|---------------|--|--------------------------------------|
| 0.1           | 0 to 0.0081 GPM                        | 0 to 0.8031 GPM                      |
| 0.2           | 0 to 0.0322                            | 0 to 3.212                           |
| 0.4           | 0 to 0.1286                            | 0 to 12.850                          |
| 0.5           | 0 to 0.2008                            | 0 to 20.078                          |
| 1.0           | 0 to 0.8032                            | 0 to 80.31                           |
| 1.25          | 0 to 1.004                             | 0 to 100.39                          |
| 1.5           | 0 to 1.8071                            | 0 to 180.70                          |
| 2.0           | 0 to 3.213                             | 0 to 321.2                           |
| 2.5           | 0 to 5.020                             | 0 to 501.9                           |
| 3.0           | 0 to 7.229                             | 0 to 722.8                           |
| 4.0           | 0 to 12.851                            | 0 to 1,285.0                         |
| 5.0           | 0 to 20.079                            | 0 to 2,007.8                         |
| 6.0           | 0 to 28.914                            | 0 to 2,891.3                         |
| 8.0           | 0 to 51.41                             | 0 to 5,140                           |
| 10            | 0 to 80.32                             | 0 to 8,031                           |
| 12            | 0 to 115.66                            | 0 to 11,565                          |
| 14            | 0 to 157.42                            | 0 to 15,741                          |
| 16            | 0 to 205.61                            | 0 to 20,560                          |
| 20            | 0 to 321.3                             | 0 to 32,125                          |
| 24            | 0 to 462.7                             | 0 to 46,261                          |
| 28            | 0 to 629.7                             | 0 to 62,966                          |
| 32            | 0 to 822.5                             | 0 to 82,242                          |
| 36            | 0 to 1040.9                            | 0 to 104,082                         |
| 40            | 0 to 1285.1                            | 0 to 128,503                         |

T24.EPS

| Size<br>(mm) | 0 to Min. Span Flow Rate<br>(0.3 m/s) | 0 to Max. Span Flow Rate<br>(10 m/s) |
|--------------|---------------------------------------|--------------------------------------|
| 1100         | 0 to 1,026.4 m <sup>3</sup> /h        | 0 to 34,211 m <sup>3</sup> /h        |
| 1200         | 0 to 1,221.5                          | 0 to 40,715                          |
| 1350         | 0 to 1,545.9                          | 0 to 51,529                          |
| 1500         | 0 to 1,908.6                          | 0 to 63,617                          |
| 1600         | 0 to 2,171.5                          | 0 to 72,382                          |
| 1800         | 0 to 2,748.3                          | 0 to 91,608                          |
| 2000         | 0 to 3,393                            | 0 to 113,097                         |
| 2200         | 0 to 4,106                            | 0 to 136,847                         |
| 2400         | 0 to 4,886                            | 0 to 162,860                         |
| 2600         | 0 to 5,735                            | 0 to 191,134                         |

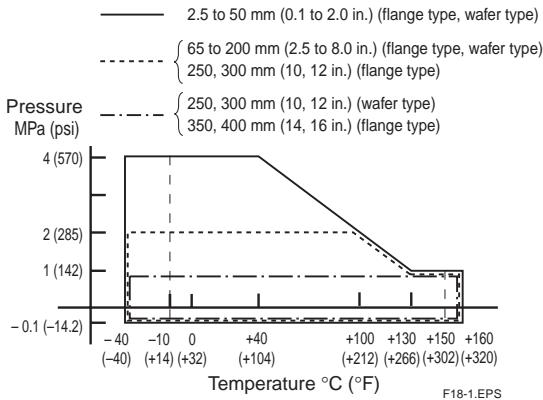
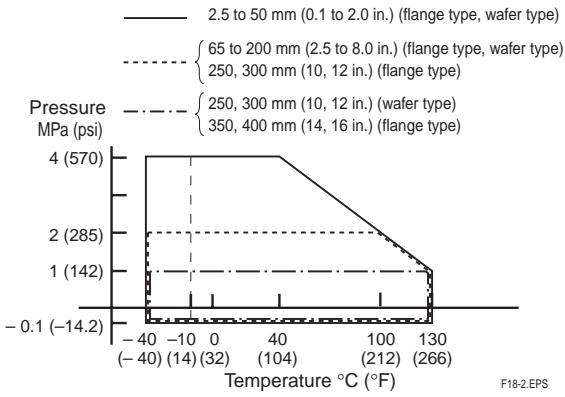
T11-1.EPS

| Size<br>(in.) | 0 to Min. Span Flow Rate<br>(1.0ft/s) | 0 to Max. Span Flow Rate<br>(33ft/s) |
|---------------|---------------------------------------|--------------------------------------|
| 44            | 0 to 4,665 GPM                        | 0 to 155,489 GPM                     |
| 48            | 0 to 5,552                            | 0 to 185,045                         |
| 54            | 0 to 7,026                            | 0 to 234,197                         |
| 60            | 0 to 8,674                            | 0 to 289,133                         |
| 64            | 0 to 9,870                            | 0 to 328,969                         |
| 72            | 0 to 12,491                           | 0 to 416,351                         |
| 80            | 0 to 15,421                           | 0 to 514,014                         |
| 88            | 0 to 18,659                           | 0 to 621,957                         |
| 96            | 0 to 22,206                           | 0 to 740,181                         |
| 104           | 0 to 26,061                           | 0 to 868,684                         |

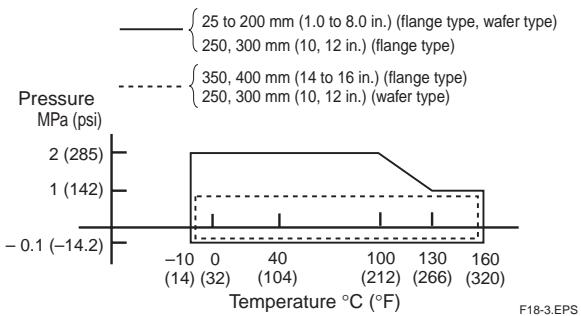
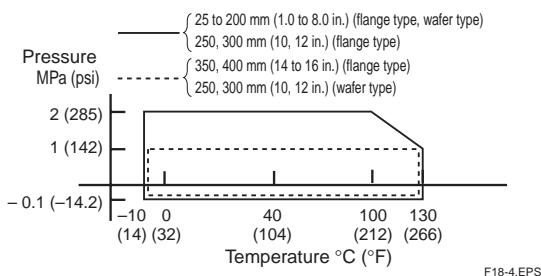
T24-1.EPS

**Fluid Temperature and Pressure:**

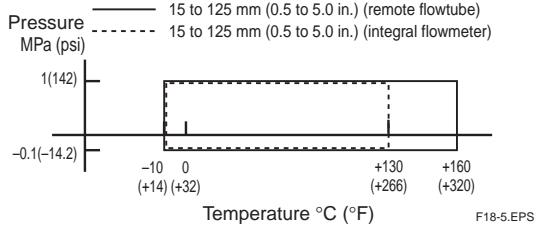
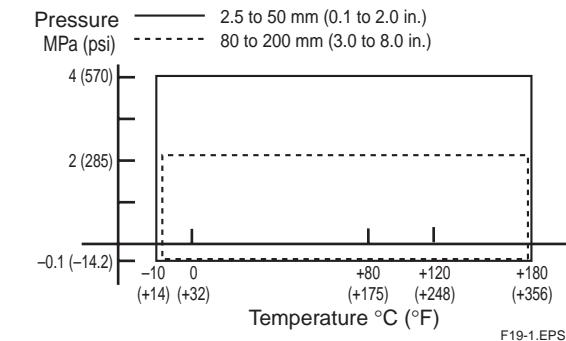
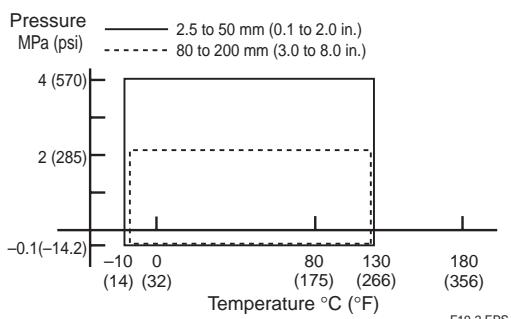
- Note \*1 The following figures show maximum allowable fluid pressure for the flowtube itself. Further fluid pressure should also be limited according to flange rating.
- \*2 For fluid temperature of the explosion proof type, refer to descriptions of "HAZARDOUS AREA CLASSIFICATION".

**PFA Lining (\*1)****General-Purpose Use, Submersible Type, Explosion proof Type, Remote Flowtube (electrode structure code 1: Non-replaceable electrode)****General-Purpose Use and Explosion proof Type, Integral Flowmeter (electrode structure code 1: Non-replaceable electrode)**

- \*1: For wafer types of 32 mm to 300 mm(1.25 to 12 in.), and for carbon steel flange types (process connection code: C\*\*) of 50 to 400 mm (2.0 to 16 in.) the minimum temperature is -10°C (+14°F).
- \*2: For fluid temperature of the explosion proof type, refer to descriptions of "HAZARDOUS AREA CLASSIFICATION".

**General-Purpose Use, Remote Flowtube (electrode structure code 2: replaceable electrode)****General-Purpose Use, Integral Flowmeter (electrode structure code 2: replaceable electrode)**

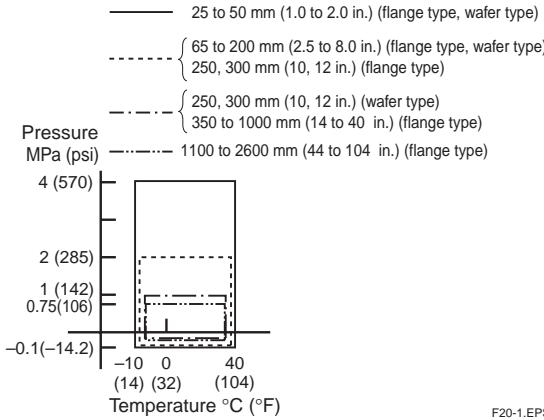
Note: For replaceable electrodes for fluid temperatures of 10°C (50°F) or less, please contact Yokogawa office.

**Sanitary Type (electrode structure code 1: Non-replaceable electrode)****Ceramics Lining****General-Purpose Use and Explosion proof Type, Remote Flowtube (electrode structure code 1: Non-replaceable electrode)****General-Purpose Use and Explosion proof Type, Integral flowmeter (electrode structure code 1: Non-replaceable electrode)**

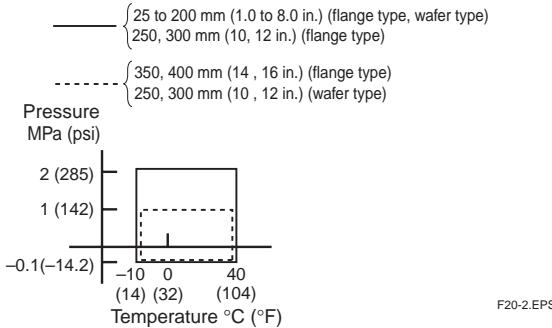
- \*1: For fluid temperature of the explosion proof type, refer to descriptions of "HAZARDOUS AREA CLASSIFICATION".

### Polyurethane Rubber Lining

**General-Purpose Use and Submersible Type,  
Remote Flowtube (electrode structure code 1: Non-replaceable electrode)**

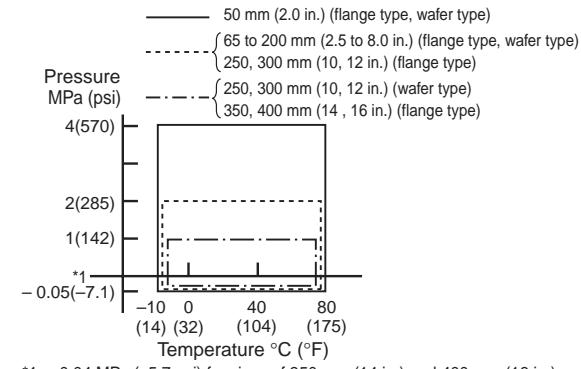


**General-Purpose Use, Integral Flowmeter (electrode structure code 2: replaceable electrode)**



### Natural Soft Rubber Lining

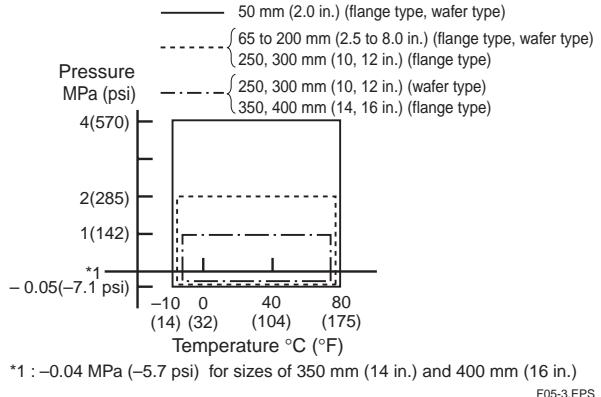
**General-Purpose Use and Submersible Type,  
Remote Flowtube (electrode structure code 1: Non-replaceable electrode)**



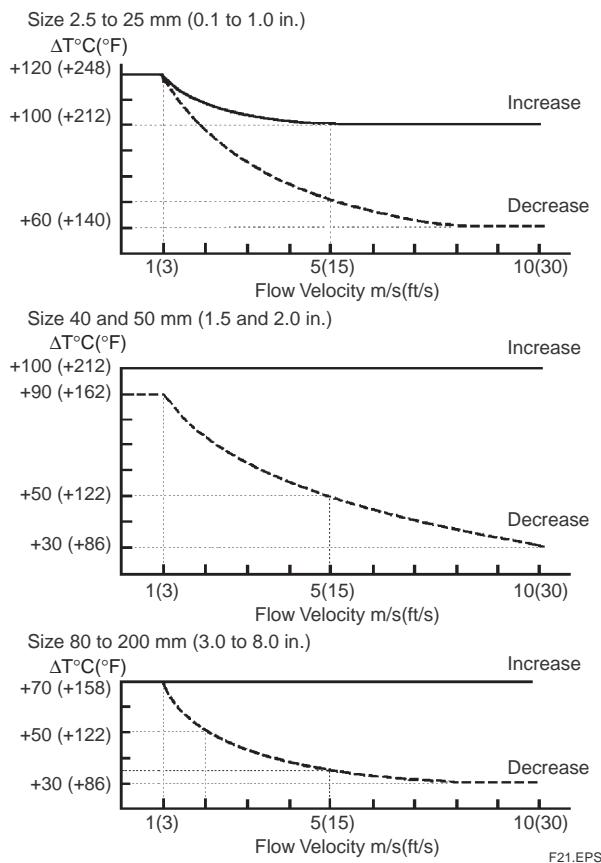
\*1 : -0.04 MPa (-5.7 psi) for sizes of 350 mm (14 in.) and 400 mm (16 in.)

### EPDM Rubber Lining

**General-Purpose Use and Submersible Type,  
Remote Flowtube (electrode structure code 1: Non-replaceable electrode)**



### Reasonable Figure for Thermal Shock of Creamics Lining:



"Decrease" means that the temperature of a measured fluid drops rapidly, while "increase" means that the temperature rises rapidly. The maximum allowable ranges in both cases are indicated by the curves shown in the diagrams, with the solid line indicating the maximum increase, and the broken line the maximum decrease.

ΔT: Change in temperature of measured fluid in one second

Flow velocity: flow velocity of the measured fluid

### Allowable Conditions for Cleaning Sanitary Type Linings

Steam or hot water cleaning: Max.temp.= +150 °C  
(+302°F), time= 60 minutes or less

### Vibration Conditions:

Level of vibration in conformity with IEC 60068-2-6 (SAMA 31.1-1980)

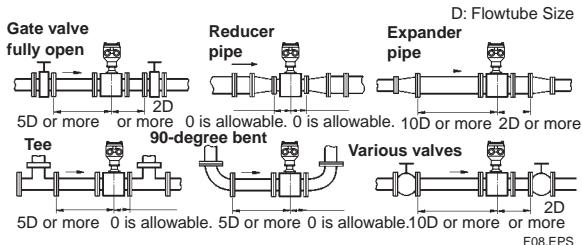
- Integral Flowmeter: 1 G or less (frequency 500 Hz or less)
- Remote Flowtube (size 2.5 to 400 mm (0.1 to 16 in.)): 2 G or less (frequency 500 Hz or less)

Note: Avoid locations with much vibration (where the pipe vibration frequency is 500 Hz or more), which may cause damage to the equipment.

## ■ CAUTIONS FOR INSTALLATION

### Mounting of Flowmeters and Required Lengths of Straight Runs

(See JIS B7554 "Electromagnetic flowmeters.")



#### Required straight runs

- \*1: Do not install anything in the vicinity that may interfere with the magnetic field, induced signal voltages, or flow velocity distributions of the flowmeter.
- \*2: A straight run may not be required on the downstream side of the flowmeter. However, if a downstream valve or other fitting causes irregularity or deviation in flows, provide a straight run of 2D to 3D on the downstream side.
- \*3: Highly recommend to mount valves on the downstream side so that deviated flows do not occur in the flowtube and to avoid startup from an empty condition.

### Maintaining Stable Fluid Conductivity

Do not install the flowmeter where fluid conductivity tends to become uneven. If chemicals are fed near the upstream side of a magnetic flowmeter, they may affect the flow-rate's indications. To avoid this situation, it is recommended that the chemical feed ports be located on the downstream side of the flowmeter. If it is unavoidable that chemicals must be fed on the upstream side, provide a sufficient length of straight run (approximately 50D) to ensure the proper mixture of fluids.

### Mounting Positions

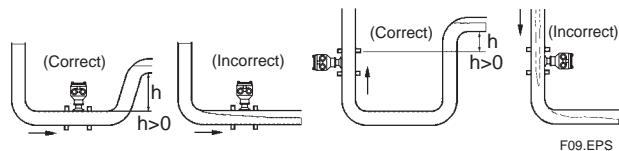
#### • Pipes must be fully filled with liquids.

It is essential that pipes remain fully filled at all times, otherwise flow rate indications may be affected and measurement errors may be caused.

Piping shall be designed so as to maintain the flowtube filled with fluids.

Vertical mounting is effective in such cases as when fluids tend to separate or solid matter may be precipitated. When employing vertical mounting, direct the

fluids from the bottom to the top to ensure that the pipes remain fully filled.



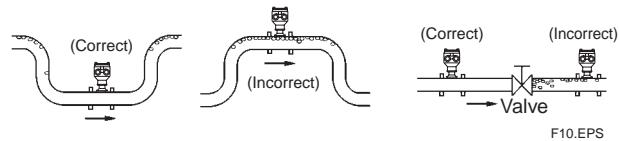
### Mounting Positions

#### • Avoid Air Bubbles.

If air bubbles enter a measurement pipe, flow rate indications may be affected and measurement errors may be caused.

In cases where fluids contain air bubbles, piping must be designed to prevent them from accumulating in the measurement pipe of a flowtube.

If a valve exists near the flowtube, try to mount the flowtube on the valve's upstream side in order to prevent a possible reduction of pressure inside the pipe, thereby avoiding the possibility of air bubbles.

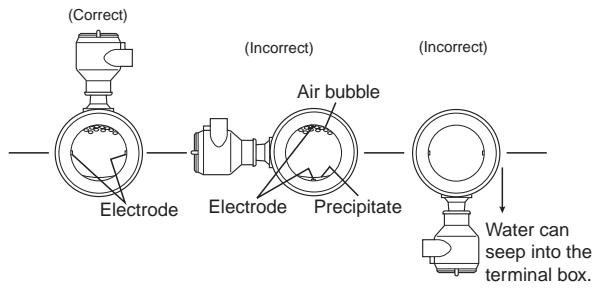


### Avoiding Air Bubbles

#### • Mounting Orientation

If electrodes are perpendicular to the ground, air bubbles near the top or precipitates at the bottom may cause measurement errors.

Ensure that the terminal box of a remote flowtube and converter of an integral flowmeter are mounted above the piping to prevent water from entering them.



### Mounting Orientation

## ■ INNER DIAMETER OF GROUNDING RING

Unit: mm (in.)

|               | AXF Standard  |            | Replacement Model for earlier ADMAG or ADMAG AE |
|---------------|---|------------|---|
| Size \ Lining | PFA /Polyurethane Rubber/Natural Soft Rubber/ EPDM Rubber | Ceramics   | PFA /Polyurethane Rubber                        |
| 2.5 (0.1)     | 15 (0.59)*1   | —          | 15 (0.59)                                       |
| 5 (0.2)       | 15 (0.59)*1   | —          | 15 (0.59)                                       |
| 10 (0.4)      | 15 (0.59)*1   | —          | 15 (0.59)                                       |
| 15 (0.5)      | 15 (0.59)   | 15 (0.59)  | 15 (0.59)                                       |
| 25 (1.0)      | 28 (1.10)   | 27 (1.06)  | 27 (1.06)                                       |
| 32 (1.25)     | 34 (1.34)   | —          | —   |
| 40 (1.5)      | 41 (1.61)   | 40 (1.57)  | 40 (1.57)                                       |
| 50 (2.0)      | 53 (2.09)   | 52 (2.05)  | 52 (2.05)                                       |
| 65 (2.5)      | 66 (2.60)   | —          | —   |
| 80 (3.0)      | 77 (3.03)   | 81 (3.19)  | 81 (3.19)                                       |
| 100 (4.0)     | 102 (4.02)  | 98 (3.86)  | 98 (3.86)                                       |
| 125 (5.0)     | 128 (5.04)  | —          | —   |
| 150 (6.0)     | 146.1 (5.75)  | 144 (5.67) | 140.7 (5.6)                                     |
| 200 (8.0)     | 193.6 (7.62)  | 192 (7.56) | 188.9 (7.5)                                     |
| 250 (10)      | Wafer: 243.7 (9.60)<br>Flange: 243 (9.57)                 | —          | 239.1 (9.41)                                    |
| 300 (12)      | Wafer: 294.7 (11.60)<br>Flange: 291.3 (11.47)             | —          | —   |
| 350 (14)      | 323.4 (12.73)   | —          | —   |
| 400 (16)      | 373.5 (14.70)   | —          | —   |

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\*1: The I.D. of the process connection code: DD4, DJ1, DJ2 is 12 mm (0.47 in.)

Note: Please ensure that the I.D. of the gasket does not protrude into the I.D. of the grounding ring.  
(This dimension is also applied to when no grounding ring is used).  
If the I.D. of the gasket is too large, however, fluid leakage may result.

| Size       | Lining              | Unit : mm (in.) |                 |
|------------|---------------------|-----------------|-----------------|
|            |                     | AXF Standard    |                 |
| 500 (20)   | Polyurethane Rubber | 468 (18.42)     | [485 (19.09)]*1 |
| 600 (24)   |                     | 563 (22.16)     | [589 (23.18)]*1 |
| 700 (28)   |                     | 665 (26.18)     | [689 (27.12)]*1 |
| 800 (32)   |                     | 765 (30.11)     | [788 (31.02)]*1 |
| 900 (36)   |                     | 855 (33.66)     | [888 (34.96)]*1 |
| 1000 (40)  |                     | 942 (37.08)     | [990 (38.97)]*1 |
| 1100 (44)  |                     | 1085 (42.71)    |                 |
| 1200 (48)  |                     | 1185 (46.65)    |                 |
| 1350 (54)  |                     | 1335 (52.55)    |                 |
| 1500 (60)  |                     | 1485 (58.46)    |                 |
| 1600 (64)  |                     | 1585 (62.40)    |                 |
| 1800 (72)  |                     | 1785 (70.27)    |                 |
| 2000 (80)  |                     | 1985 (78.14)    |                 |
| 2200 (88)  |                     | 2185 (86.02)    |                 |
| 2400 (96)  |                     | 2385 (93.89)    |                 |
| 2600 (104) |                     | 2585 (101.77)   |                 |

\*1: Values in brackets [ ] indicate a process connection code CG1.

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## ■ ACCESSORIES

### Remote Flowtube (size 2.5 to 1000 mm(0.1 to 40 in.)):

Centering device (wafer type only): 1 pc.

Hexagonal wrench: 2 pcs.

### Integral Flowmeter:

Centering device (wafer type only): 1 pc.

Fuse (T2.0A, 250 V): 1 pc.

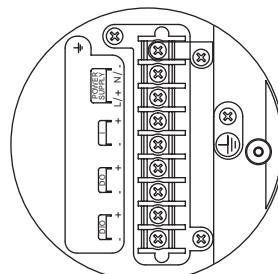
\*Time lag fuse

Hexagonal wrench: 2 pcs.

## ■ TERMINAL CONFIGURATION AND TERMINAL WIRING

### ● Integral Flowmeter

#### Terminal configuration



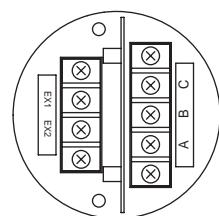
#### Terminal wiring

| Terminal Symbols | Description                                       |
|------------------|---|
|                  | Functional grounding                              |
|                  | Power supply                                      |
|                  | Current output 4 to 20mA DC                       |
|                  | Pulse output/Alarm output/<br>Status output       |
|                  | Alarm output/Status output<br>Status input        |
|                  | Protective grounding<br>(Outside of the terminal) |

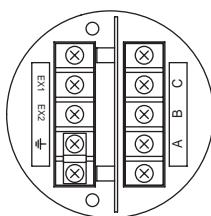
F41.EPS

## ● Remote Flowtube

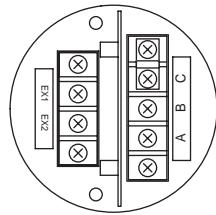
### Terminal configuration



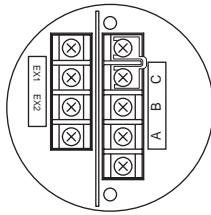
size 2.5 to 400 mm (0.1 to 16 in.)



(Only for Explosion proof type)



size 500 to 1000 mm (20 to 40 in.)



size 1100 to 2600 mm (44 to 104 in.)

### Terminal wiring

| Terminal Symbols | Description   |
|------------------|---|
| A<br>B<br>C      | Flow signal output                                      |
| EX1<br>EX2       | Excitation current input                                |
| $\perp$          | Functional grounding<br>(Only for explosion proof type) |
| $\ominus$        | Protective grounding<br>(Outside of the terminal)       |

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## ● Recommended Excitation, Power and Output Cable:

Use polyvinyl chloride insulated and sheathed portable power cables (JIS C3312) or equivalents.

- Outer Diameter: 6.5 to 12 mm (0.26 to 0.47 in.)  
10.5 or 11.5 mm (0.41 to 0.45 in.) for optional code EG, EU and EW.  
6.5 to 12 mm (0.26 to 0.47 in.) for optional code EP.
- Nominal Cross section (single wire): 0.5 to 2.5 mm<sup>2</sup>
- Nominal Cross section (standard wire): 0.5 to 1.5 mm<sup>2</sup>

## ■ MODEL AND SUFFIX CODE

### AXF STANDARD (Wafer Type)

**General-purpose Use/Submersible Type/Explosion proof Type, PFA/Polyurethane Rubber/Natural Soft Rubber/EPDM Rubber Lining**

| Model   | Suffix Code              | Description   | Applicable Model  |
|---|--------------------------|---|---|
| AXF002  | .....                    | Size 2.5 mm (0.1 in.) Integral Flowmeter/Remote Flowtube            |   |
| AXF005  | .....                    | Size 5 mm (0.2 in.) Integral Flowmeter/Remote Flowtube              |   |
| AXF010  | .....                    | Size 10 mm (0.4 in.) Integral Flowmeter/Remote Flowtube             |   |
| AXF015  | .....                    | Size 15 mm (0.5 in.) Integral Flowmeter/Remote Flowtube             |   |
| AXF025  | .....                    | Size 25 mm (1.0 in.) Integral Flowmeter/Remote Flowtube             |   |
| AXF032  | .....                    | Size 32 mm (1.25 in.) Integral Flowmeter/Remote Flowtube            |   |
| AXF040  | .....                    | Size 40 mm (1.5 in.) Integral Flowmeter/Remote Flowtube             |   |
| AXF050  | .....                    | Size 50 mm (2.0 in.) Integral Flowmeter/Remote Flowtube             |   |
| AXF065  | .....                    | Size 65 mm (2.5 in.) Integral Flowmeter/Remote Flowtube             |   |
| AXF080  | .....                    | Size 80 mm (3.0 in.) Integral Flowmeter/Remote Flowtube             |   |
| AXF100  | .....                    | Size 100 mm (4.0 in.) Integral Flowmeter/Remote Flowtube            |   |
| AXF125  | .....                    | Size 125 mm (5.0 in.) Integral Flowmeter/Remote Flowtube            |   |
| AXF150  | .....                    | Size 150 mm (6.0 in.) Integral Flowmeter/Remote Flowtube            |   |
| AXF200  | .....                    | Size 200 mm (8.0 in.) Integral Flowmeter/Remote Flowtube            |   |
| AXF250  | .....                    | Size 250 mm (10 in.) Integral Flowmeter/Remote Flowtube             |   |
| AXF300  | .....                    | Size 300 mm (12 in.) Integral Flowmeter/Remote Flowtube             |   |
| Use   | G .....                  | General-Purpose Use   |   |
|   | W .....                  | Submersible Type  | Size 15 mm (0.5 in.) to 300 mm (12 in.) Remote Flowtube only                                      |
|   | C .....                  | Explosion proof Type (*5)   | PFA lining only   |
| Converter Output                                | -D .....                 | Integral Flowmeter with 4 to 20mA DC Output and BRAIN Communication |   |
| Signal and Communication                        | -E .....                 | Integral Flowmeter with 4 to 20 mA DC Output and HART Communication |   |
|   | -N .....                 | Remote Flowtube for Combined Use with AXFA11                        |   |
|   | -P .....                 | Remote Flowtube for Combined Use with AXFA14                        |   |
| Power Supply                                    | 1 .....                  | Integral Flowmeter, 100 V to 240 V AC or 100 to 120 V DC            |   |
|   | 2 .....                  | Integral Flowmeter, 24V AC/DC                                       |   |
|   | N .....                  | Remote Flowtube   |   |
| Lining  | A .....                  | Fluorocarbon PFA  | Size 25 mm (1.0 in.) to 300 mm (12 in.)   |
|   | U .....                  | Polyurethane Rubber   | Size 50 mm (2.0 in.) to 300 mm (12 in.)   |
|   | D .....                  | Natural Soft Rubber   | Size 50 mm (2.0 in.) to 300 mm (12 in.)   |
|   | G .....                  | EPDM Rubber   |   |
| Electrode Material                              | L .....                  | JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)                     | PFA lining only   |
|   | P .....                  | Platinum-Iridium  |   |
|   | H .....                  | Hastelloy C276 Equivalent   |   |
|   | T .....                  | Tantalum  | PFA lining only   |
|   | V .....                  | Titanium  |   |
|   | W .....                  | Tungsten Carbide  | PFA/Polyurethane Rubber lining only   |
| Electrode Structure                             | 1 .....                  | Non-replaceable   | General-Purpose use, Size 25 mm (1.0 in.) to 300 mm (12 in.), PFA/Polyurethane Rubber lining only |
|   | 2 .....                  | Replaceable   | Electrode Material: JIS SUS316L only  |
| Grounding Ring and Grounding Electrode Material | N .....                  | None  |   |
|   | S .....                  | JIS SUS316 (AISI 316 SS/EN 1.4401 Equivalent)                       | Size 2.5 mm (0.1 in.) to 200 mm (8.0 in.), PFA lining only  |
|   | L .....                  | JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)                     |   |
|   | P .....                  | Platinum-Iridium  |   |
|   | H .....                  | Hastelloy C276 Equivalent   | Size 2.5 mm (0.1 in.) to 200 mm (8.0 in.), PFA lining only  |
|   | T .....                  | Tantalum  |   |
|   | V .....                  | Titanium  |   |
| Process Connection (*3)                         | -AA1 .....               | ANSI Class 150  | Wafer (*1) Size 2.5 mm (0.1 in.) to 300 mm (12 in.)   |
|   | -AA2 .....               | ANSI Class 300  | Wafer (*1) Size 2.5 mm (0.1 in.) to 200 mm (8.0 in.)  |
|   | -AD1 .....               | DIN PN 10   | Wafer (*2) Size 200 mm (8.0 in.) to 300 mm (12 in.)   |
|   | -AD2 .....               | DIN PN 16   | Wafer (*2) Size 65 mm (2.5 in.) to 300 mm (12 in.)  |
|   | -AD4 .....               | DIN PN 40   | Wafer (*1)(*2) Size 2.5 mm (0.1in.) to 50 mm (2.0 in.)  |
|   | -AJ1 .....               | JIS 10K   | Wafer (*1) Size 2.5 mm (0.1in.) to 300 mm (12 in.)  |
|   | -AJ2 .....               | JIS 20K   | Wafer (*1) Size 2.5 mm (0.1in.) to 200 mm (8.0 in.)   |
|   | -AG1 .....               | JIS F12 (JIS75M)  | Wafer Size 80 mm (3.0 in.) to 300 mm (12 in.)   |
| Lay Length                                      | 1 .....                  | Standard  |   |
| Electrical Connection (*6)                      | -0 .....                 | JIS G1/2 female   |   |
|   | -2 .....                 | ANSI 1/2 NPT female   | Not available for Submersible Type  |
|   | -4 .....                 | ISO M20×1.5 female  | Not available for Submersible Type  |
| Indicator (*4)(*7)                              | 1 .....                  | Integral Flowmeter with indicator (Horizontal)                      |   |
|   | 2 .....                  | Integral Flowmeter with indicator (Vertical)                        |   |
|   | N .....                  | Integral Flowmeter without indicator /Remote Flowtube               |   |
| Calibration                                     | B .....                  | Standard  |   |
|   | C .....                  | High Grade  | Size 25 mm (1.0 in.) to 200 mm (8.0 in.), PFA lining only   |
|   | <input type="checkbox"/> | Optional code (See the Table of Optional Specifications)            |   |

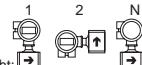
\*1: For a wafer type of 2.5 to 10 mm (0.1 to 0.4 in.), prepare 15 mm (0.5 in.) diameter nominal flanges on the process pipe side.  
(Process connection codes: AA1, AA2, AD4, AJ1, and AJ2)

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\*2: Even when DIN PN10 or 16 is required for a model of size 2.5 to 50 mm (0.1 to 2.0 in.), select PN40 because there is no difference in the dimensions of the mating faces. (Process connection codes:AD1,AD2, and AD4)

Even when DIN PN10 is required for a model of size 65 to 150 mm (2.5 to 6.0 in.), select PN16 because there is no difference in the dimensions of the mating faces. (Process connection codes: AD1 , AD2)

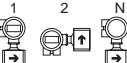
\*3: Mating dimensions are based on standards as follow:



ANSI/ASME B 16.5, DIN: DIN 2501, JIS: JIS B 2220 and JIS G 3451

\*4: N shall be always selected for remote flowtubes

In the case of an integral flowmeter, select from among the figures at the right:



\*5: For explosion proof types, specify types of explosion proof certification using the optional codes. In case of TIIS flame proof type, the remote flowtube is available only for combined use with the AXFA14. For the TIIS flame proof type with wiring using a flame proof packing adapter, select optional code G12 or G11. Available only for JIS G1/2 electrical connections.

\*6: JIS G1/2 Female electrical connection is available only for TIIS flame proof type.

\*7: In case of integral flowmeters of the TIIS flame proof type, select "with indicator"(code 1 or 2).

## AXF STANDARD (Wafer /Union Joint Type)

### General-purpose Use/Explosion proof Type, Ceramics Lining

| Model   | Suffix Code | Description  |                                    | Applicable Model                          |
|---|-------------|--|------------------------------------|---|
| AXF002  |             | Size 2.5 mm (0.1 in.)  | Integral Flowmeter/Remote Flowtube |   |
| AXF005  |             | Size 5 mm (0.2 in.)  | Integral Flowmeter/Remote Flowtube |   |
| AXF010  |             | Size 10 mm (0.4 in.)   | Integral Flowmeter/Remote Flowtube |   |
| AXF015  |             | Size 15 mm (0.5 in.)   | Integral Flowmeter/Remote Flowtube |   |
| AXF025  |             | Size 25 mm (1.0 in.)   | Integral Flowmeter/Remote Flowtube |   |
| AXF040  |             | Size 40 mm (1.5 in.)   | Integral Flowmeter/Remote Flowtube |   |
| AXF050  |             | Size 50 mm (2.0 in.)   | Integral Flowmeter/Remote Flowtube |   |
| AXF080  |             | Size 80 mm (3.0 in.)   | Integral Flowmeter/Remote Flowtube |   |
| AXF100  |             | Size 100 mm (4.0 in.)  | Integral Flowmeter/Remote Flowtube |   |
| AXF150  |             | Size 150 mm (6.0 in.)  | Integral Flowmeter/Remote Flowtube |   |
| AXF200  |             | Size 200 mm (8.0 in.)  | Integral Flowmeter/Remote Flowtube |   |
| Use   | G .....     | General-Purpose Use  |                                    |   |
|   | C .....     | Explosion proof Type(*5)   |                                    |   |
| Converter Output                                | -D .....    | Integral Flowmeter with 4 to 20 mA DC Output and BRAIN Communication       |                                    |   |
| Signal and Communication                        | -E .....    | Integral Flowmeter with 4 to 20 mA DC Output and HART Communication        |                                    |   |
|   | -N .....    | Remote Flowtube for Combined use with AXFA11                               |                                    |   |
|   | -P .....    | Remote Flowtube for Combined use with AXFA14                               |                                    |   |
| Power Supply                                    | 1 .....     | Integral Flowmeter, 100 V to 240 V AC or 100 to 120 V DC                   |                                    |   |
|   | 2 .....     | Integral Flowmeter, 24 V AC/DC   |                                    |   |
|   | N .....     | Remote Flowtube  |                                    |   |
| Lining  | C .....     | Ceramics   |                                    |   |
| Electrode Material                              | E .....     | Platinum-alumina Cermet  |                                    |   |
| Electrode Structure                             | 1 .....     | Non-replaceable  |                                    |   |
| Grounding Ring and Grounding Electrode Material | N .....     | None   |                                    | Size 2.5 mm (0.1 in.) to 200 mm (8.0 in.) |
|   | S .....     | JIS SUS316 (AISI 316 SS/EN 1.4401 Equivalent)                              |                                    | Size 15 mm (0.5 in.) to 200 mm (8.0 in.)  |
|   | L .....     | JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)                            |                                    | Size 15 mm (0.5 in.) to 200 mm (8.0 in.)  |
|   | P .....     | Platinum-iridium   |                                    | Size 15 mm (0.5 in.) to 200 mm (8.0 in.)  |
|   | H .....     | Hastelloy C276 Equivalent  |                                    | Size 15 mm (0.5 in.) to 200 mm (8.0 in.)  |
|   | T .....     | Tantalum   |                                    | Size 15 mm (0.5 in.) to 200 mm (8.0 in.)  |
|   | V .....     | Titanium   |                                    | Size 15 mm (0.5 in.) to 200 mm (8.0 in.)  |
| Process Connection (*2)                         | -AA1 .....  | ANSI Class 150   | Wafer                              | Size 15 mm (0.5 in.) to 200 mm (8.0 in.)  |
|   | -AA2 .....  | ANSI Class 300   | Wafer                              | Size 15 mm (0.5 in.) to 200 mm (8.0 in.)  |
|   | -AD1 .....  | DIN PN 10  | Wafer (*1)                         | Size 200 mm (8.0 in.) only                |
|   | -AD2 .....  | DIN PN 16  | Wafer (*1)                         | Size 80 mm (3.0 in.) to 200 mm (8.0 in.)  |
|   | -AD4 .....  | DIN PN 40  | Wafer (*1)                         | Size 15 mm (0.5 in.) to 50 mm (2.0 in.)   |
|   | -AJ1 .....  | JIS 10K  | Wafer                              | Size 15 mm (0.5 in.) to 200 mm (8.0 in.)  |
|   | -AJ2 .....  | JIS 20K  | Wafer                              | Size 15 mm (0.5 in.) to 200 mm (8.0 in.)  |
|   | -AG1 .....  | JIS F12 (JIS75M)   | Wafer                              | Size 80 mm (3.0 in.) to 200 mm (8.0 in.)  |
|   | -GUW .....  | Union Joint (Weld Joint)   |                                    | Size 2.5 mm (0.1 in.) to 10 mm (0.4 in.)  |
|   | -GUN .....  | Union Joint (1/4NPT Male for 2.5 or 5 mm dia.: 3/8NPT Male for 10 mm dia.) |                                    | Size 2.5 mm (0.1 in.) to 10 mm (0.4 in.)  |
|   | -GUR .....  | Union Joint (R1/4 Male for 2.5 or 5 mm dia.: R3/8 Male for 10mm dia.)      |                                    | Size 2.5 mm (0.1 in.) to 10 mm (0.4 in.)  |
| Lay Length (*3)                                 | 1 .....     | Standard   |                                    |   |
| Electrical Connection (*6)                      | -0 .....    | JIS G1/2 female  |                                    |   |
|   | -2 .....    | ANSI 1/2 NPT female  |                                    |   |
|   | -4 .....    | ISO M20×1.5 female   |                                    |   |
| Indicator (*4)(*7)                              | 1 .....     | Integral Flowmeter with indicator (Horizontal)                             |                                    |   |
|   | 2 .....     | Integral Flowmeter with indicator (Vertical)                               |                                    |   |
|   | N .....     | Integral Flowmeter without indicator /Remote Flowtube                      |                                    |   |
| Calibration                                     | B .....     | Standard   |                                    | Size 25 mm (1.0 in.) to 200mm (8.0 in.)   |
|   | C .....     | High Grade   |                                    |   |
|   | /□          | Optional code (See the Table of Optional Specifications)                   |                                    |   |

\*1: For a wafer type of 2.5 to 10 mm (0.1 to 0.4 in.), prepare 15 mm (0.5 in.) diameter nominal flanges on the process pipe side.  
 (Process connection codes: AA1, AA2, AD4, AJ1, and AJ2)

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\*2: Even when DIN PN10 or 16 is required for a model of size 2.5 to 50 mm (0.1 to 2.0 in.), select PN40 because there is no difference in the dimensions of the mating faces. (Process connection codes: AD1, AD2, and AD4)

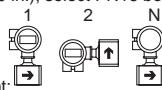
Even when DIN PN10 is required for a model of size 65 to 150 mm (2.5 to 6.0 in.), select PN16 because there is no difference in the dimensions of the mating faces. (Process connection codes: AD1, AD2)

\*3: Mating dimensions are based on standards as follow:

ANSI:ASME B 16.5, DIN: DIN 2501, JIS:JIS B 2220 and JIS G 3451

\*4: N shall be always selected for remote flowtubes

In the case of an integral flowmeter, select from among the figures at the right.



\*5: For explosion proof types, specify types of explosion proof certification using the optional codes. In case of TIIS flame proof type, the remote flowtube is available only for combined use with the AXFA14. For the TIIS flame proof type with wiring using a flame proof packing adapter, select optional code G12 or G11. Available only for JIS G1/2 electrical connections.

\*6: JIS G1/2 Female electrical connection available only for TIIS flame proof type.

\*7: In case of integral flowmeters of the TIIS flame proof type, select "with indicator"(code 1 or 2).

**AXF STANDARD (Flange Type) Size 2.5 mm (0.1 in.) to 400 mm (16 in.)**  
**General-purpose Use/Submersible Type/Explosion proof Type, PFA/Polyurethane Rubber /Natural Soft Rubber/EPDM Rubber Lining**

| Model                      | Suffix Code              | Description  | Applicable Model  |
|----------------------------|--------------------------|--|---|
| AXF002                     |                          | Size 2.5 mm (0.1 in.) Integral Flowmeter/Remote Flowtube             |   |
| AXF005                     |                          | Size 5 mm (0.2 in.) Integral Flowmeter/Remote Flowtube               |   |
| AXF010                     |                          | Size 10 mm (0.4 in.) Integral Flowmeter/Remote Flowtube              |   |
| AXF015                     |                          | Size 15 mm (0.5 in.) Integral Flowmeter/Remote Flowtube              |   |
| AXF025                     |                          | Size 25 mm (1.0 in.) Integral Flowmeter/Remote Flowtube              |   |
| AXF032                     |                          | Size 32 mm (1.25 in.) Integral Flowmeter/Remote Flowtube             |   |
| AXF040                     |                          | Size 40 mm (1.5 in.) Integral Flowmeter/Remote Flowtube              |   |
| AXF050                     |                          | Size 50 mm (2.0 in.) Integral Flowmeter/Remote Flowtube              |   |
| AXF065                     |                          | Size 65 mm (2.5 in.) Integral Flowmeter/Remote Flowtube              |   |
| AXF080                     |                          | Size 80 mm (3.0 in.) Integral Flowmeter/Remote Flowtube              |   |
| AXF100                     |                          | Size 100 mm (4.0 in.) Integral Flowmeter/Remote Flowtube             |   |
| AXF125                     |                          | Size 125 mm (5.0 in.) Integral Flowmeter/Remote Flowtube             |   |
| AXF150                     |                          | Size 150 mm (6.0 in.) Integral Flowmeter/Remote Flowtube             |   |
| AXF200                     |                          | Size 200 mm (8.0 in.) Integral Flowmeter/Remote Flowtube             |   |
| AXF250                     |                          | Size 250 mm (10 in.) Integral Flowmeter/Remote Flowtube              |   |
| AXF300                     |                          | Size 300 mm (12 in.) Integral Flowmeter/Remote Flowtube              |   |
| AXF350                     |                          | Size 350 mm (14 in.) Integral Flowmeter/Remote Flowtube              |   |
| AXF400                     |                          | Size 400 mm (16 in.) Integral Flowmeter/Remote Flowtube              |   |
| Use                        | G .....                  | General-Purpose Use  |   |
|                            | W .....                  | Submersible Type   | Size 15 mm (0.5 in.) to 400 mm (16 in.), Remote Flowtube only               |
|                            | C .....                  | Explosion proof Type (*6)  | PFA lining only   |
| Converter Output           | -D .....                 | Integral Flowmeter with 4 to 20 mA DC Output and BRAIN Communication |   |
| Signal and                 | -E .....                 | Integral Flowmeter with 4 to 20 mA DC Output and HART Communication  |   |
| Communication              | -N .....                 | Remote Flowtube for Combined Use with AXFA11                         |   |
|                            | -P .....                 | Remote Flowtube for Combined Use with AXFA14                         |   |
| Power Supply               | 1 .....                  | Integral Flowmeter, 100 V to 240 V AC or 100 to 120 V DC             |   |
|                            | 2 .....                  | Integral Flowmeter, 24 V AC/DC                                       |   |
|                            | N .....                  | Remote Flowtube  |   |
| Lining                     | A .....                  | Fluorocarbon PFA   | Size 25 mm (1.0 in.) to 400 mm (16 in.)                                     |
|                            | U .....                  | Polyurethane Rubber  | Size 50 mm (2.0 in.) to 400 mm (16 in.)                                     |
|                            | D .....                  | Natural Soft Rubber  | Size 50 mm (2.0 in.) to 400 mm (16 in.)                                     |
|                            | G .....                  | EPDM Rubber  |   |
| Electrode Material         | L .....                  | JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)                      | PFA lining only   |
|                            | P .....                  | Platinum-Iridium   |   |
|                            | H .....                  | Hastelloy C276 Equivalent  |   |
|                            | T .....                  | Tantalum   | PFA lining only   |
|                            | V .....                  | Titanium   |   |
|                            | W .....                  | Tungsten Carbide   | PFA/Polyurethane Rubber lining only   |
| Electrode Structure        | 1 .....                  | Non-replaceable  | General-Purpose use, Size 25 mm (1.0 in.) to 400 mm (16 in.)                |
|                            | 2 .....                  | Replaceable  | PFA/Polyurethane Rubber lining only<br>Electrode Material: JIS SUS316L only |
| Grounding Ring and         | N .....                  | None   |   |
| Grounding Electrode        | S .....                  | JIS SUS316 (AISI 316 SS/EN 1.4401 Equivalent)                        |   |
| Material                   | L .....                  | JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)                      | Size 2.5 mm (0.1 in.) to 200 mm (8.0 in.), PFA lining only                  |
|                            | P .....                  | Platinum-Iridium   |   |
|                            | H .....                  | Hastelloy C276 Equivalent  | Size 2.5mm (0.1 in.) to 200 mm (8.0 in.), PFA lining only                   |
|                            | T .....                  | Tantalum   |   |
|                            | V .....                  | Titanium   |   |
| Process Connection (*4)    | -BA1 .....               | ANSI Class 150 Flange (Stainless Steel)(*1)                          | Size 2.5 mm (0.1 in.) to 400 mm (16 in.)                                    |
|                            | -BA2 .....               | ANSI Class 300 Flange (Stainless Steel)(*1)                          | Size 2.5 mm (0.1 in.) to 300 mm (12 in.)                                    |
|                            | -BD1 .....               | DIN PN 10 Flange (Stainless Steel)(*2)                               | Size 200 mm (8.0 in.) to 400 mm (16 in.)                                    |
|                            | -BD2 .....               | DIN PN 16 Flange (Stainless Steel)(*2)                               | Size 65 mm (2.5 in.) to 300 mm (12 in.)                                     |
|                            | -BD4 .....               | DIN PN 40 Flange (Stainless Steel)(*1)(*2)                           | Size 2.5 mm (0.1 in.) to 50 mm (2.0 in.)                                    |
|                            | -BU1 .....               | JIS 10K Flange (Stainless Steel)(*1)                                 | Size 2.5 mm (0.1 in.) to 400 mm (16 in.)                                    |
|                            | -BU2 .....               | JIS 20K Flange (Stainless Steel)(*1)                                 | Size 2.5 mm (0.1 in.) to 300 mm (12 in.)                                    |
|                            | -BG1 .....               | JIS F12 (JIS75M) Flange (Stainless Steel)                            | Size 80 mm (3.0 in.) to 400 mm (16 in.)                                     |
|                            | -CA1 .....               | ANSI Class 150 Flange (Carbon Steel)                                 | Size 50 mm (2 in.) to 400 mm (16 in.)                                       |
|                            | -CA2 .....               | ANSI Class 300 Flange (Carbon Steel)                                 | Size 50 mm (2 in.) to 300 mm (12 in.)                                       |
|                            | -CD1 .....               | DIN PN 10 Flange (Carbon Steel)(*2)                                  | Size 200 mm (8.0 in.) to 400 mm (16 in.)                                    |
|                            | -CD2 .....               | DIN PN 16 Flange (Carbon Steel)(*2)                                  | Size 65 mm (2.5 in.) to 300 mm (12 in.)                                     |
|                            | -CD4 .....               | DIN PN 40 Flange (Carbon Steel)(*2)                                  | Size 50 mm (2.0 in.) only   |
|                            | -CJ1 .....               | JIS 10K Flange (Carbon Steel)  | Size 50 mm (2.0 in.) to 400 mm (16 in.)                                     |
|                            | -CJ2 .....               | JIS 20K Flange (Carbon Steel)  | Size 50 mm (2.0 in.) to 300 mm (12 in.)                                     |
|                            | -CG1 .....               | JIS F12 (JIS75M) Flange (Carbon Steel)                               | Size 80 mm (3.0 in.) to 400 mm (16 in.)                                     |
|                            | -DD4 .....               | DIN PN 40 Flange (Stainless Steel), DN10(*2)(*3)                     | Size 2.5 mm (0.1 in.) to 10 mm (0.4 in.)                                    |
|                            | -DJ1 .....               | JIS 10K Flange (Stainless Steel), 10 mm Diameter Nominal (*3)        | Size 2.5 mm (0.1 in.) to 10 mm (0.4 in.)                                    |
|                            | -DJ2 .....               | JIS 20K Flange (Stainless Steel), 10 mm Diameter Nominal (*3)        | Size 2.5 mm (0.1 in.) to 10 mm (0.4 in.)                                    |
| Lay Length                 | 1 .....                  | Standard   |   |
| Electrical Connection (*7) | -0 .....                 | JIS G1/2 female  |   |
|                            | -2 .....                 | ANSI 1/2 NPT female  | Not available for Submersible Type  |
|                            | -4 .....                 | ISO M20×1.5 female   | Not available for Submersible Type  |
| Indicator (*5)(*8)         | 1 .....                  | Integral Flowmeter with indicator (Horizontal)                       |   |
|                            | 2 .....                  | Integral Flowmeter with indicator (Vertical)                         |   |
|                            | N .....                  | Integral Flowmeter without indicator /Remote Flowtube                |   |
| Calibration                | B .....                  | Standard   |   |
|                            | C .....                  | High Grade   | Size 25 mm (1.0 in.) to 200 mm (8.0 in.),<br>PFA lining only                |
|                            | <input type="checkbox"/> | Optional code (See the Table of Optional Specifications)             |   |

\*1: For a wafer type of 2.5 to 10 mm (0.1 to 0.4 in.), prepare 15 mm (0.5 in.) diameter nominal flanges on the process pipe side.

(Process connection codes: AA1, AA2, AD4, AJ1, and AJ2)

\*2: Even when DIN PN10 or 16 is required for a model of size 2.5 to 50 mm (0.1 to 2.0 in.), select PN40 because there is no difference in the dimensions of the mating faces. (Process connection codes: AD1, AD2, and AD4)

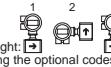
Even when DIN PN10 is required for a model of size 65 to 150 mm (2.5 to 6.0 in.), select PN16 because there is no difference in the dimensions of the mating faces. (Process connection codes: AD1, AD2)

\*3: For a flange type of 2.5 to 10 mm (0.1 to 0.4 in.), prepare 10 mm (0.4 in.) diameter nominal flanges on the process pipe side. (Process connection codes: DJ1, DJ2, and DD4).

\*4: Mating dimensions are based on standards as follow:

ANSI/ASME B 16.5, DIN: DIN 2501, JIS: JIS B 2220 and JIS G 3451

\*5: N shall be always selected for remote flowtubes

In the case of an integral flowmeter, select from among the figures at the right: 

\*6: For explosion proof types, specify types of explosion proof certification using the optional codes. In case of T1IS flame proof type, the remote flowtube is available only for combined use with the AXFA14. For the T1IS flame proof type with wiring using a flame proof packing adapter, select optional code G12 or G11. Available only for JIS G1/2 electrical connections.

\*7: JIS G1/2 Female electrical connection is available only for T1IS flame proof type.

\*8: In case of integral flowmeters of the T1IS flame proof type, select "with indicator"(code 1 or 2).

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**AXF STANDARD (Flange Type) Size 500 mm (20 in.) to 2600 mm (104 in.)**  
**General-purpose Use/Submersible Type, Polyurethane Rubber Lining**

| Model                   | Suffix Code | Description   | Applicable Model   |
|-------------------------|-------------|---|--|
| AXF500                  |             | Size 500 mm (20 in.) Remote Flowtube  |  |
| AXF600                  |             | Size 600 mm (24 in.) Remote Flowtube  |  |
| AXF700                  |             | Size 700 mm (28 in.) Remote Flowtube  |  |
| AXF800                  |             | Size 800 mm (32 in.) Remote Flowtube  |  |
| AXF900                  |             | Size 900 mm (36 in.) Remote Flowtube  |  |
| AXF10L                  |             | Size 1000 mm (40 in.) Remote Flowtube   |  |
| AXF11L                  |             | Size 1100 mm (44 in.) Remote Flowtube   |  |
| AXF12L                  |             | Size 1200 mm (48 in.) Remote Flowtube   |  |
| AXF13L                  |             | Size 1350 mm (54 in.) Remote Flowtube   |  |
| AXF15L                  |             | Size 1500 mm (60 in.) Remote Flowtube   |  |
| AXF16L                  |             | Size 1600 mm (64 in.) Remote Flowtube   |  |
| AXF18L                  |             | Size 1800 mm (72 in.) Remote Flowtube   |  |
| AXF20L                  |             | Size 2000 mm (80 in.) Remote Flowtube   |  |
| AXF22L                  |             | Size 2200 mm (88 in.) Remote Flowtube   |  |
| AXF24L                  |             | Size 2400 mm (96 in.) Remote Flowtube   |  |
| AXF26L                  |             | Size 2600 mm (104 in.) Remote Flowtube  |  |
| Use                     | G .....     | General-Purpose Use   |  |
|                         | W .....     | Submersible Type  |  |
| Converter               | -N .....    | Remote Flowtube for Combined Use with AXFA11  |  |
| Power Supply            | N .....     | Remote Flowtube   |  |
| Lining                  | U .....     | Polyurethane Rubber   |  |
| Electrode Material      | L .....     | JIS SUS316L(AISI 316L SS/EN 1.4404 Equivalent)  |  |
| Electrode Structure     | 1 .....     | Non-replaceable   |  |
| Grounding Ring material | S .....     | JIS SUS304 (AISI 304 SS/EN 1.4301 Equivalent)<br>SS400 Carbon Steel lined with Stainless Steel SUS316 | Size 500 mm (20 in.) to 1000 mm (40 in.)<br>Size 1100 mm (44 in.) to 2600 mm (104 in.) |
| Process Connection (*1) | -CA1 .....  | ANSI Class 150 Flange (Carbon Steel) (*2)   | Size 500 mm (20 in.), 600 mm (24 in.)  |
|                         | -CD1 .....  | DIN PN10 Flange (Carbon Steel) (*2)   | Size 500 mm (20 in.) to 1000 mm (40 in.)   |
|                         | -CJ1 .....  | JIS 10K Flange (Carbon Steel) (*2)  | Size 500 mm (20 in.) to 1000 mm (40 in.)   |
|                         | -CG1 .....  | JIS F12 (JIS 75M) Flange (Carbon Steel) (*2)(*3)  | Size 500 mm (20 in.) to 2600 mm (104 in.)  |
| Lay Length              | 1 .....     | AXF Standard  |  |
| Electrical Connection   | -0 .....    | JIS G1/2 female   |  |
|                         | -2 .....    | ANSI 1/2 NPT female   | Size 500 mm (20 in.) to 1000 mm (40 in.), Not available for Submersible Type           |
|                         | -4 .....    | ISO M20×1.5 female  | Size 500 mm (20 in.) to 1000 mm (40 in.), Not available for Submersible Type           |
| Indicator               | N .....     | None  |  |
| Calibration             | B .....     | Standard  |  |
| Options                 | /□          | Optional code (See the Table of Optional Specifications)  |  |

\*1: Mating dimensions are based on standards as follows:

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ANSI:ASME B 16.5, DIN: DIN 2501, JIS:JIS B 2220 and JIS G 3451

\*2: Carbon steel Flange Material: JIS SS400(EN S275 Equivalent)

\*3: There are no differences in dimensions of mating faces between JIS F12(JIS 75M) and JIS 7.5K.

**AXF STANDARD (Clamp/Union/Butt Weld Connection)****Sanitary Type , PFA Lining**

| Model                    | Suffix Code | Description  | Applicable Model   |
|--------------------------|-------------|--|--|
| AXF015                   | .....       | Size 15 mm (0.5 in.), Integral Flowmeter/Remote Flowtube                             |  |
| AXF025                   | .....       | Size 25 mm (1.0 in.), Integral Flowmeter/Remote Flowtube                             |  |
| AXF032                   | .....       | Size 32 mm (1.25 in.), Integral Flowmeter/Remote Flowtube                            |  |
| AXF040                   | .....       | Size 40 mm (1.5 in.), Integral Flowmeter/Remote Flowtube                             |  |
| AXF050                   | .....       | Size 50 mm (2.0 in.), Integral Flowmeter/Remote Flowtube                             |  |
| AXF065                   | .....       | Size 65 mm (2.5 in.), Integral Flowmeter/Remote Flowtube                             |  |
| AXF080                   | .....       | Size 80 mm (3.0 in.), Integral Flowmeter/Remote Flowtube                             |  |
| AXF100                   | .....       | Size 100 mm (4.0 in.), Integral Flowmeter/Remote Flowtube                            |  |
| AXF125                   | .....       | Size 125 mm (5.0 in.), Integral Flowmeter/Remote Flowtube                            |  |
| Use                      | H .....     | Sanitary Type  |  |
| Converter Output         | -D .....    | Integral Flowmeter with 4 to 20 mA DC Output and BRAIN Communication                 |  |
| Signal and Communication | -E .....    | Integral Flowmeter with 4 to 20 mA DC Output and HART Communication                  |  |
|                          | -N .....    | Remote Flowtube for Combined use with AXFA11   |  |
|                          | -P .....    | Remote Flowtube for Combined use with AXFA14   |  |
| Power Supply             | 1 .....     | Integral Flowmeter, 100 V to 240 V AC or 100 to 120 V DC                             |  |
|                          | 2 .....     | Integral Flowmeter, 24 V AC/DC   |  |
|                          | N .....     | Remote Flowtube  |  |
| Lining                   | A .....     | Fluorocarbon PFA   |  |
| Electrode Material       | L .....     | JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)                                      |  |
| Electrode Structure      | 1 .....     | Non-replaceable  |  |
| Grounding Ring           | N .....     | None   |  |
| Process Connection (*2)  | -HAB .....  | Tri-Clamp (3A), JIS SUS316L (AISI 316L SS/EN1.4404 Equivalent)(*1)                   | Size 15 mm (0.5 in.) to 100 mm (4.0in.), except 32 mm (1.25 in.) |
|                          | -HDB .....  | DIN32676 Clamp, JIS SUS316L (AISI 316L SS/EN1.4404 Equivalent)                       | Size 15 mm (0.5 in.) to 125 mm (5.0 in.)                         |
|                          | -HKB .....  | ISO2852/SMS3016 Clamp, JIS SUS316L (AISI 316L SS/EN1.4404 Equivalent)                | Size 15 mm (0.5 in.) to 125 mm (5.0 in.)                         |
|                          | -JDB .....  | DIN11851 Union, SUS316L (AISI 316L SS/EN1.4404 Equivalent)                           | Size 15 mm (0.5 in.) to 125 mm (5.0 in.)                         |
|                          | -JKB .....  | ISO2853 Union, SUS316L (AISI 316L SS/EN1.4404 Equivalent)                            | Size 15 mm (0.5 in.) to 100 mm (4.0 in.)                         |
|                          | -JSB .....  | SMS1145 Union, SUS316L (AISI 316L SS/EN1.4404 Equivalent)                            | Size 25 mm (1.0 in.) to 100 mm (4.0 in.)                         |
|                          | -KDB .....  | Butt Weld for DIN 11850 Pipe Connection (SUS316L [AISI 316L SS/EN1.4404 Equivalent]) | Size 15 mm (0.5 in.) to 125 mm (5.0 in.)                         |
|                          | -KKB .....  | Butt Weld for ISO 2037 Pipe Connection (SUS316L [AISI 316L SS/EN1.4404 Equivalent])  | Size 15 mm (0.5 in.) to 125 mm (5.0 in.)                         |
| Lay Length               | 1 .....     | Standard   |  |
| Electrical Connection    | -0 .....    | JIS G1/2 female  |  |
|                          | -2 .....    | ANSI 1/2 NPT female  |  |
|                          | -4 .....    | ISO M20×1.5 female   |  |
| Indicator (*3)           | 1 .....     | Integral Flowmeter with indicator (Horizontal)                                       |  |
|                          | 2 .....     | Integral Flowmeter with indicator (Vertical)   |  |
|                          | N .....     | Integral Flowmeter without indicator /Remote Flowtube                                |  |
| Calibration              | B .....     | Standard   |  |
|                          | C .....     | High Grade   | Size 25 mm (1.0 in.) to 125 mm (5.0 in.)                         |
|                          | /□          | Optional code (See the Table of Optional Specifications)                             |  |

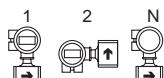
\*1: For a tri-clamp type of size15 mm (0.5 in.), prepare a 3/4 in. tri-clamp on the process pipe side. (Process connection code: HAB).

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\*2: The detail dimensions of process connections (clamp/union/butt weld) are shown in the 'EXTERNAL DIMENSIONS' section of the sanitary type.

\*3: N shall be always selected for remote flowtubes.

In the case of an integral flowmeter, select from among the following figures.



**REPLACEMENT MODEL FOR EARLIER ADMAG OR ADMAG AE (Wafer Type)****General-purpose Use/Submersible Type/Explosion proof Type, PFA/Polyurethane Rubber Lining**

For the Wafer Types of size 250 mm (10 in.), 300 mm (12 in.), AXF Standard shall be selected.

| Model   | Suffix Code | Description  | Applicable Model   |
|---|-------------|--|--|
| AXF002  | .....       | Size 2.5 mm (0.1 in.) Integral Flowmeter/Remote Flowtube               |  |
| AXF005  | .....       | Size 5 mm (0.2 in.) Integral Flowmeter/Remote Flowtube                 |  |
| AXF010  | .....       | Size 10 mm (0.4 in.) Integral Flowmeter/Remote Flowtube                |  |
| AXF015  | .....       | Size 15 mm (0.5 in.) Integral Flowmeter/Remote Flowtube                |  |
| AXF025  | .....       | Size 25 mm (1.0 in.) Integral Flowmeter/Remote Flowtube                |  |
| AXF040  | .....       | Size 40 mm (1.5 in.) Integral Flowmeter/Remote Flowtube                |  |
| AXF050  | .....       | Size 50 mm (2.0 in.) Integral Flowmeter/Remote Flowtube                |  |
| AXF080  | .....       | Size 80 mm (3.0 in.) Integral Flowmeter/Remote Flowtube                |  |
| AXF100  | .....       | Size 100 mm (4.0 in.) Integral Flowmeter/Remote Flowtube               |  |
| AXF150  | .....       | Size 150 mm (6.0 in.) Integral Flowmeter/Remote Flowtube               |  |
| AXF200  | .....       | Size 200 mm (8.0 in.) Integral Flowmeter/Remote Flowtube               |  |
| Use   | G .....     | General-Purpose Use  |  |
|   | W .....     | Submersible Type   | Size 15 mm (0.5 in.) to 200 mm (8.0 in.), Remote Flowtube only |
|   | C .....     | Explosion proof Type (*5)  | PFA lining only  |
| Converter Output                                | -D .....    | Integral Flowmeter with 4 to 20 mA DC Output and BRAIN Communication   |  |
| Signal and Communication                        | -E .....    | Integral Flowmeter with 4 to 20 mA DC Output and HART Communication    |  |
|   | -N .....    | Remote Flowtube for Combined Use with AXFA11                           |  |
|   | -P .....    | Remote Flowtube for Combined Use with AXFA14                           |  |
| Power Supply                                    | 1 .....     | Integral Flowmeter, 100 V to 240 V AC or 100 to 120 V DC               |  |
|   | 2 .....     | Integral Flowmeter, 24 V AC/DC   |  |
|   | N .....     | Remote Flowtube  |  |
| Lining  | A .....     | Fluorocarbon PFA   | Size 25 mm (1.0 in.) to 200 mm (8.0 in.)                       |
|   | U .....     | Polyurethane Rubber  |  |
| Electrode Material                              | L .....     | JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)                        |  |
|   | P .....     | Platinum-iridium   | PFA lining only  |
|   | H .....     | Hastelloy C276 Equivalent  |  |
|   | T .....     | Tantalum   | PFA lining only  |
|   | V .....     | Titanium   |  |
|   | W .....     | Tungsten Carbide   |  |
| Electrode Structure                             | 1 .....     | Non-replaceable  |  |
| Grounding Ring and Grounding Electrode Material | N .....     | None   | Size 25 mm (1.0 in.) to 200 mm (8.0 in.)(*5)                   |
|   | S .....     | JIS SUS316 (AISI 316 SS/EN 1.4401 Equivalent)                          |  |
|   | L .....     | JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)                        |  |
|   | P .....     | Platinum-iridium   | PFA lining only  |
|   | H .....     | Hastelloy C276 Equivalent  |  |
|   | T .....     | Tantalum   | PFA lining only  |
|   | V .....     | Titanium   |  |
| Process Connection (*3)                         | -AA1 .....  | ANSI Class 150 Wafer(*1)   | Size 2.5 mm (0.1 in.) to 200 mm (8.0 in.)                      |
|   | -AA2 .....  | ANSI Class 300 Wafer(*1)   | Size 2.5 mm (0.1 in.) to 200 mm (8.0 in.)                      |
|   | -AD1 .....  | DIN PN 10 Wafer(*2)  | Size 200 mm(8.0 in.) only                                      |
|   | -AD2 .....  | DIN PN 16 Wafer(*2)  | Size 80 mm (3.0 in.) to 200 mm (8.0 in.)                       |
|   | -AD4 .....  | DIN PN 40 Wafer(*1)(*2)  | Size 2.5 mm (0.1 in.) to 50 mm (2.0 in.)                       |
|   | -AJ1 .....  | JIS 10K Wafer(*1)  | Size 2.5 mm (0.1 in.) to 200 mm (8.0 in.)                      |
|   | -AJ2 .....  | JIS 20K Wafer(*1)  | Size 2.5 mm (0.1 in.) to 200 mm (8.0 in.)                      |
|   | -AG1 .....  | JIS F12 (JIS75M) Wafer   | Size 80 mm (3.0 in.) to 200 mm (8.0 in.)                       |
| Lay Length                                      | 2 .....     | Matches an Earlier ADMAG Flowmeter (ADMAG or ADMAG AE) for Replacement |  |
| Electrical Connection (*6)                      | -0 .....    | JIS G1/2 female  |  |
|   | -2 .....    | ANSI 1/2 NPT female  | Not available for Submersible Type                             |
|   | -4 .....    | ISO M20×1.5 female   | Not available for Submersible Type                             |
| Indicator (*4)(*7)                              | 1 .....     | Integral Flowmeter with indicator(Horizontal)                          |  |
|   | 2 .....     | Integral Flowmeter with indicator(Vertical)                            |  |
|   | N .....     | Integral Flowmeter without indicator /Remote Flowtube                  |  |
| Calibration                                     | B .....     | Standard   |  |
|   | /□          | Optional code (See the Table of Optional Specifications)               |  |

\*1: For a wafer type of 2.5 to 10 mm (0.1 to 0.4 in.), prepare 15 mm (0.5 in.) diameter nominal flanges on the process pipe side.  
(Process connection codes: AA1, AA2, AD4, AJ1, and AJ2)

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\*2: Even when DIN PN10 or 16 is required for a model of size 2.5 to 50 mm (0.1 to 2.0 in.), select PN40 because there is no difference in the dimensions of the mating faces. (Process connection codes: AD1, AD2, and AD4)

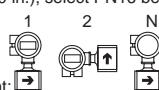
Even when DIN PN10 is required for a model of size 65 to 150 mm (2.5 to 6.0 in.), select PN16 because there is no difference in the dimensions of the mating faces. (Process connection codes: AD1, AD2)

\*3: Mating dimensions are based on standards as follow:

ANSI:ASME B 16.5, DIN: DIN 2501, JIS:JIS B 2220 and JIS G 3451

\*4: N shall be always selected for remote flowtubes

In the case of an integral flowmeter, select from among the figures at the right:



\*5: For explosion proof types, specify types of explosion proof certification using the optional codes. In case of TIIS flame proof type, the remote flowtube is available only for combined use with the AXFA14. For the TIIS flame proof type with wiring using a flame proof packing adapter, select optional code G12 or G11. Available only for JIS G1/2 electrical connections.

\*6: JIS G1/2 Female electrical connection is available only for TIIS flame proof type.

\*7: In case of integral flowmeters of the TIIS flame proof type, select "with indicator"(code 1 or 2).

**REPLACEMENT MODEL FOR EARLIER ADMAG OR ADMAG AE (Flange Type)****General-purpose Use/Submersible Type/Explosion proof Type, PFA/Polyurethane Rubber Lining**

For Flange Types of size 15 mm (0.5 in.) to 100 mm (4.0 in.), 300 mm (12 in.) to 2600 mm (104 in.), **AXF Standard** shall be selected.

| Model   | Suffix Code                   | Description  |                           | Applicable Model   |
|---|-------------------------------|--|---------------------------|--|
| AXF150  |                               | Size 150 mm (6.0 in.) Integral Flowmeter/Remote Flowtube               |                           |  |
| AXF200  |                               | Size 200 mm (8.0 in.) Integral Flowmeter/Remote Flowtube               |                           |  |
| AXF250  |                               | Size 250 mm (10 in.) Integral Flowmeter/Remote Flowtube                |                           |  |
| Use   | G .....<br>W .....<br>C ..... | General-Purpose Use<br>Submersible Type<br>Explosion proof Type (*4)   |                           | Remote Flowtube only<br>PFA lining only                    |
| Converter Output                                | -D .....                      | Integral Flowmeter with 4 to 20 mA DC Output and BRAIN Communication   |                           |  |
| Signal and Communication                        | -E .....                      | Integral Flowmeter with 4 to 20 mA DC Output and HART Communication    |                           |  |
|   | -N .....                      | Remote Flowtube for Combined Use with AXFA11                           |                           |  |
|   | -P .....                      | Remote Flowtube for Combined Use with AXFA14                           |                           |  |
| Power Supply                                    | 1 .....                       | Integral Flowmeter, 100 V to 240 V AC or 100 to 120 V DC               |                           |  |
|   | 2 .....                       | Integral Flowmeter, 24 V AC/DC   |                           |  |
|   | N .....                       | Remote Flowtube  |                           |  |
| Lining  | A .....                       | Fluorocarbon PFA   |                           |  |
|   | U .....                       | Polyurethane Rubber  |                           |  |
| Electrode Material                              | L .....                       | JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)                        |                           |  |
|   | P .....                       | Platinum-Iridium   |                           | PFA lining only  |
|   | H .....                       | Hastelloy C276 Equivalent  |                           |  |
|   | T .....                       | Tantalum   |                           | PFA lining only  |
|   | V .....                       | Titanium   |                           |  |
|   | W .....                       | Tungsten Carbide   |                           |  |
| Electrode Structure                             | 1 .....                       | Non-replaceable  |                           |  |
|   | 2 .....                       | Replaceable  |                           | General-Purpose use, Electrode Material : JIS SUS316L only |
| Grounding Ring and Grounding Electrode Material | N .....                       | None   |                           |  |
|   | S .....                       | JIS SUS316 (AISI 316 SS/EN 1.4401 Equivalent)                          |                           |  |
|   | L .....                       | JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)                        |                           |  |
|   | P .....                       | Platinum-Iridium   |                           | Size 150 mm (6.0 in.), 200 mm (8.0 in.), PFA lining only   |
|   | H .....                       | Hastelloy C276 Equivalent  |                           |  |
|   | T .....                       | Tantalum   |                           | Size 150 mm (6.0 in.), 200 mm (8.0 in.), PFA lining only   |
|   | V .....                       | Titanium   |                           |  |
| Process Connection (*2)                         | -CA1 .....                    | ANSI Class 150   | Flange (Carbon Steel)     | Size 150 mm (6.0 in.) to 250 mm (10 in.)                   |
|   | -CA2 .....                    | ANSI Class 300   | Flange (Carbon Steel)     | Size 150 mm (6.0 in.) to 250 mm (10 in.)                   |
|   | -CD1 .....                    | DIN PN 10  | Flange (Carbon Steel)(*1) | Size 200 mm (8.0 in.) to 250 mm (10 in.)                   |
|   | -CD2 .....                    | DIN PN 16  | Flange (Carbon Steel)(*1) | Size 150 mm (6.0 in.) to 250 mm (10 in.)                   |
|   | -CJ1 .....                    | JIS 10K  | Flange (Carbon Steel)     | Size 150 mm (6.0 in.) to 250 mm (10 in.)                   |
|   | -CJ2 .....                    | JIS 20K  | Flange (Carbon Steel)     | Size 150 mm (6.0 in.) to 250 mm (10 in.)                   |
|   | -CG1 .....                    | JIS F12 (JIS75M)   | Flange (Carbon Steel)     | Size 150 mm (6.0 in.) to 250 mm (10 in.)                   |
| Lay Length                                      | 2 .....                       | Matches an Earlier ADMAG Flowmeter (ADMAG or ADMAG AE) for Replacement |                           |  |
| Electrical Connection (*5)                      | -0 .....                      | JIS G1/2 female  |                           |  |
|   | -2 .....                      | ANSI 1/2 NPT female  |                           | Not available for Submersible Type                         |
|   | -4 .....                      | ISO M20×1.5 female   |                           | Not available for Submersible Type                         |
| Indicator (*3)(*6)                              | 1 .....                       | Integral Flowmeter with indicator (Horizontal)                         |                           |  |
|   | 2 .....                       | Integral Flowmeter with indicator (Vertical)                           |                           |  |
|   | N .....                       | Integral Flowmeter without indicator /Remote Flowtube                  |                           |  |
| Calibration                                     | B .....                       | Standard   |                           |  |
|   | <input type="checkbox"/>      | Optional code (See the Table of Optional Specifications)               |                           |  |

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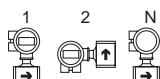
\*1: Even when DIN PN10 is required for a 150 (6.0 in.)-mm model, select PN16 because there is no difference in the dimensions of the mating faces. (Process connection codes: CD1, CD2)

\*2: Mating dimensions are based on standards as follow:

ANSI: ASME B 16.5, DIN:DIN 2501, JIS:JIS B 2220 and JIS G 3451

\*3: N shall be always selected for remote flowtubes.

In the case of an integral, select from among the following figures:



\*4: For explosion proof types, specify types of explosion proof certification using the optional codes. In case of TIIIS flame proof type, the remote flowtube is available only for combined use with the AXFA14. For the TIIIS flame proof type with wiring using a flame proof packing adapter, select optional code G12 or G11. Available only for JIS G1/2 electrical connections.

\*5: JIS G1/2 Female electrical connection is available only for TIIIS flame proof type.

\*6: In case of integral flowmeters of the TIIIS flame proof type, select "with indicator"(code 1 or 2).

## ■ OPTIONAL SPECIFICATIONS FOR FLOWTUBES

### ● Table of Optional Specifications (Size 2.5 mm (0.1 in.) to 400 mm (16 in.))

○: Available    -: Not available

| Item   | Specifications   | Applicable Model   |                        |                        |                        |                        |                        |                        | Code |  |
|--|--|--|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------|--|
|  |  | General  |                        | Explosion proof        |                        | Submersible            | Sanitary               |                        |      |  |
|  |  | Integral Flowmeter   | Remote Flowtube        | Integral Flowmeter     | Remote Flowtube        | Remote Flowtube        | Integral Flowmeter     | Remote Flowtube        |      |  |
|  |  | AXF***G-D<br>AXF***G-E   | AXF***G-N<br>AXF***G-P | AXF***C-D<br>AXF***C-E | AXF***C-N<br>AXF***C-P | AXF***W-N<br>AXF***W-P | AXF***H-D<br>AXF***H-E | AXF***H-N<br>AXF***H-P |      |  |
| For District Heating and Cooling or Condensation-proof | Urethane resin potting is applied in the terminal box of a remote flowtube. Select JIS G1/2 for the electrical connections. 30-m signal and excitation cables are pre-wired and waterproof glands with union joints are attached at factory.   | -  | ○                      | -                      | -                      | -                      | -                      | ○                      | DHC  |  |
| User-specified Signal and Excitation Cable Length      | Available for the submersible type and a model with optional code DHC. The cable length is limited up to 200 meters when combined with an AXFA11 converter, or 100 meters when combined with an AXFA14 converter. Following "L," specify the cable length in three digits as a multiple of 1 meter (e.g., 001, 002, or 005) for a length up to 5 m, or as a multiple of 5 meters (i.e., 005, 010, 015, or the like) for a length of 5 meters or more.  | -  | ○                      | -                      | -                      | ○                      | -                      | ○                      | L*** |  |
| Lightning Protector                                    | A lightning protector is built into the power terminals.   | ○  | -                      | ○                      | -                      | -                      | ○                      | -                      | A    |  |
| DC Noise Cut Circuit                                   | The DC Noise Cut Circuit is built in. Available for 15 mm (0.5 in.) and larger sizes, and for fluids with the conductivity of 50 $\mu$ S/cm or higher. Nullifies the empty check and electrode adhesion diagnostic function  | ○  | -                      | ○                      | -                      | -                      | ○                      | -                      | ELC  |  |
| Burn Out Down  | The output level is set to 0 mA during a CPU failure and is set 2.4 mA or less during an alarm. Standard products are delivered with a setting 25 mA during a CPU failure and 21.6 mA or more during an alarm.   | ○  | -                      | ○                      | -                      | -                      | ○                      | -                      | C1   |  |
| NAMUR NE43 Compliance                                  | Output signal limits: 3.8 to 20.5 mA   | Failure alarm down-scale: The output level is set to 0 mA during a CPU failure and is set 2.4 mA (-10%) or less during an alarm.<br><br>Failure alarm up-scale: The output level is set to 25 mA during a CPU failure and is set 21.6 mA (110%) or more during an alarm. | ○                      | -                      | ○                      | -                      | -                      | ○                      | C2   |  |
|  |  |  | ○                      | -                      | ○                      | -                      | -                      | ○                      | C3   |  |
| Active Pulse Output                                    | Active pulses are output in order to drive an external electromagnetic or electronic counter directly using the converter's internal power supply. (Nullifies the standard transistor contact pulse output.)<br><br>Output voltage: 24 V DC $\pm$ 20%<br><br>Pulse specifications: <ul style="list-style-type: none"><li>• The drive current of 30 to 150 mA</li><li>• Pulse rate: 0.0001 to 2 pps (pulse/second); Pulse width: 20, 33, 50, or 100 ms</li></ul>  | ○  | -                      | ○                      | -                      | -                      | ○                      | -                      | EM   |  |
| Mass Unit Setting                                      | The flow rate span, output pulse weight, and totalizer display pulse weight can be set in terms of mass. Specify the density of the process fluid when ordering in addition to the flow rate span, output pulse weight, and totalizer display pulse weight. The mass flow rate span must not exceed 32000 when ignoring the decimal point.<br><br>When ordering a remote flowtube, parameters for 'Mass Unit Setting' will be set in the corresponding converter before shipment.<br><br>Available mass units: t, kg, g, klb, lb<br>Available time units: /d, /h, /min, /s<br>Available density units: kg/m <sup>3</sup> , lb/gal, lb/cf | ○  | ○                      | ○                      | ○                      | ○                      | ○                      | ○                      | MU   |  |
| G3/4 Female Waterproof Glands                          | Waterproof glands for G3/4 conduits or flexible tubes are attached to the electrical connections. Available only for JIS G1/2 electric connections.  | -  | ○                      | -                      | -                      | -                      | -                      | ○                      | EW   |  |
| Waterproof Glands                                      | Waterproof glands are attached to the electrical connections. Available only for JIS G1/2 electric connections.  | ○  | ○                      | -                      | -                      | -                      | ○                      | ○                      | EG   |  |
| Waterproof Glands with Union Joints                    | Waterproof glands with union joints are attached to the electrical connections. Available only for JIS G1/2 electric connections.  | ○  | ○                      | -                      | -                      | -                      | ○                      | ○                      | EU   |  |
| Plastic Glands   | Plastic glands are attached to the electrical connections. Available only for JIS G1/2 electric connections.   | ○  | ○                      | -                      | -                      | -                      | ○                      | ○                      | EP   |  |

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● Table of Optional Specifications (Size 2.5 mm (0.1 in.) to 400 mm (16 in.)) (continued)

| Item   | Specifications   | Applicable Model   |                        |                        |                        |                        |                        |                        |                        | Code |  |
|--|--|--|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------|--|
|  |  | General  |                        | Explosion proof        |                        | Submersible            |                        | Sanitary               |                        |      |  |
|  |  | Integral Flowmeter   | Remote Flowtube        | Integral Flowmeter     | Remote Flowtube        | Remote Flowtube        | Integral Flowmeter     | Remote Flowtube        | Remote Flowtube        |      |  |
|  |  | AxF***G-D<br>AxF***G-E   | AxF***G-N<br>AxF***G-P | AxF***C-D<br>AxF***C-E | AxF***C-N<br>AxF***C-P | AxF***W-N<br>AxF***W-P | AxF***H-D<br>AxF***H-E | AxF***H-N<br>AxF***H-P | AxF***H-N<br>AxF***H-P |      |  |
| Mirror Finished PFA Lining                         | Mirror finishing on the PFA lining inside of the tube to the smoothness lying between 0.05 and 0.15 µm of Ra. Available for 15 mm (0.5 in.) and larger sizes.  | ○  | ○                      | ○                      | ○                      | ○                      | ○                      | ○                      | ○                      | PM   |  |
| Mirror Finished Ceramics                           | Mirror finishing on the inside of the ceramics tube to Rmax ≤ 1 µm. Available for 5 mm (0.2 in.) and larger sizes.   | ○  | ○                      | ○                      | ○                      | -                      | -                      | -                      | -                      | CM   |  |
| Stainless Steel Tag Plate                          | A pendant tag plate of JIS SUS304 (AISI 304 SS/EN 1.4301 equivalent) is provided. Choose this option when a pendant tag plate is required in addition to the standard nameplate with the tag number inscribed on it.       | ○  | ○                      | ○                      | ○                      | ○                      | ○                      | ○                      | ○                      | SCT  |  |
| Direction change of the electrical connection (*1) | +90 degrees rotated converter (or terminal box) to change the direction of the electrical connection.  | ○  | ○                      | ○                      | ○                      | ○                      | ○                      | ○                      | ○                      | RA   |  |
|  | +180 degrees rotated converter (or terminal box) to change the direction of the electrical connection.   | ○  | ○                      | ○                      | ○                      | ○                      | ○                      | ○                      | ○                      | RB   |  |
|  | -90 degrees rotated converter (or terminal box) to change the direction of the electrical connection.  | ○  | ○                      | ○                      | ○                      | ○                      | ○                      | ○                      | ○                      | RC   |  |
| Bolts, Nuts, and Gaskets (*2)                      | Bolts, nuts, and gaskets are provided for wafer connections.   | Bolts and nuts: Carbon steel; Gaskets: Chloroprene rubber  | ○                      | ○                      | ○                      | ○                      | ○                      | -                      | -                      | BCC  |  |
|  | Available only for ANSI 150, JIS10K, or, JIS20K wafer connections.   | Bolts and nuts: Carbon steel; Gaskets: PTFE-sheathed non-asbestos  | ○                      | ○                      | ○                      | ○                      | ○                      | -                      | -                      | BCF  |  |
|  |  | Bolts: JIS SUS304 (AISI 304 SS stainless steel equivalent); Nuts: JIS SUS403 (AISI 403SS stainless steel equivalent) ; Gaskets: Chloroprene rubber         | ○                      | ○                      | ○                      | ○                      | ○                      | -                      | -                      | BSC  |  |
|  |  | Bolts: JIS SUS304 (AISI 304 SS stainless steel equivalent); Nuts: JIS SUS403 (AISI 403SS stainless steel equivalent) ; Gaskets: PTFE-sheathed non-asbestos | ○                      | ○                      | ○                      | ○                      | ○                      | -                      | -                      | BSF  |  |
| Special Gaskets (*3)                               | Viton® gaskets for use with a PFA or ceramics lining with PVC piping. Valqua #4010, special fluororubber not mixed. Available for 2.5 mm (0.1 in.) to 200 mm (8.0 in.).  | ○  | ○                      | ○                      | ○                      | ○                      | -                      | -                      | -                      | GA   |  |
|  | Acid-resistant Viton® gaskets for use with a PFA or ceramics lining with PVC piping. Valqua #4010, special fluororubber mixed (mixing #RCD470). Available for 2.5 mm (0.1 in.) to 200 mm (8.0 in.).                        | ○  | ○                      | ○                      | ○                      | ○                      | -                      | -                      | -                      | GC   |  |
|  | Alkali-resistant Viton® gaskets for use with a PFA or ceramics lining with PVC piping. Valqua #4010, special fluororubber mixed (mixing #RCD970). Available for 2.5 mm (0.1 in.) to 200 mm (8.0 in.).                      | ○  | ○                      | ○                      | ○                      | ○                      | -                      | -                      | -                      | GD   |  |
|  | Alkali-resistant carbonized fluororesin gaskets for use with a ceramics lining with metal piping. Valqua #7026.  | ○  | ○                      | ○                      | ○                      | -                      | -                      | -                      | -                      | GF   |  |
|  | Silicon rubber gaskets for Sanitary Type, provided between the lining and the adapter. Available for the condition of fluid temp. over 120°C (248°F), 160°C (320°F) max.   | -  | -                      | -                      | -                      | -                      | ○                      | ○                      | ○                      | GH   |  |
|  | Electrodes, linings, and grounding rings are assembled and packed with polyethylene after being cleaned with water and trichloroethylene and dried with air. The label 'OIL FREE' is affixed.                              | ○  | ○                      | ○                      | ○                      | -                      | -                      | -                      | -                      | K1   |  |
| Oil-Prohibited Use with Dehydrating Treatment      | Electrodes, linings, and grounding rings are assembled and packed with polyethylene including desiccants after being cleaned with water and trichloroethylene and dried with air. The label 'OIL & WATER FREE' is affixed. | ○  | ○                      | ○                      | ○                      | -                      | -                      | -                      | -                      | K5   |  |
| Painting Color Change                              | Coated in black (Munsell N1.5 or its equivalent.)  | ○  | ○                      | ○                      | ○                      | -                      | ○                      | ○                      | ○                      | P1   |  |
|  | Coated in jade green (Munsell 7.5 BG 4/1.5 or its equivalent.)   | ○  | ○                      | ○                      | ○                      | -                      | ○                      | ○                      | ○                      | P2   |  |
|  | Coated in metallic silver.   | ○  | ○                      | ○                      | ○                      | -                      | ○                      | ○                      | ○                      | P7   |  |

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● Table of Optional Specifications (Size 2.5 mm (0.1 in.) to 400 mm (16 in.)) (continued)

| Item                                    | Specifications  | Applicable Model       |                        |                        |                        |                        |                        |                        | Code |  |
|---|---|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------|--|
|   |   | General                |                        | Explosion proof        |                        | Submersible            | Sanitary               |                        |      |  |
|   |   | Integral Flowmeter     | Remote Flowtube        | Integral Flowmeter     | Remote Flowtube        | Remote Flowtube        | Integral Flowmeter     | Remote Flowtube        |      |  |
|   |   | AxF***G-D<br>AxF***G-E | AxF***G-N<br>AxF***G-P | AxF***G-D<br>AxF***G-E | AxF***C-P<br>AxF***C-N | AxF***W-N<br>AxF***W-P | AxF***H-D<br>AxF***H-E | AxF***H-N<br>AxF***H-L |      |  |
| Epoxy Resin Coating                     | Epoxy resin coating instead of standard polyurethane resin coating. The color is same as standard type.   | ○                      | ○                      | ○                      | ○                      | -                      | -                      | -                      | X1   |  |
| High Anti-corrosion Coating             | Three-layer coating (urethane coating on two-layer epoxy resin coating) in the same range as that for the standard coating. The color is same as standard type. Salt/alkali/acid/weather-resistance.  | ○                      | ○                      | ○                      | ○                      | -                      | -                      | -                      | X2   |  |
| Material Certificate                    | Reproduced material certificates for:<br>PFA/polyurethane: Pipe, electrodes, grounding rings/grounding electrodes, mini flanges (for wafer type), flanges (for flange type)<br>Ceramics: only grounding rings or grounding electrodes   | ○                      | ○                      | ○                      | ○                      | ○                      | ○                      | ○                      | M01  |  |
| Hydrostatic Test                        | The test verifies the absence of leaks by applying the following water pressures (which are determined under process connection conditions) to linings for ten minutes. Test results are described in the Note column of a test certificate (QIC).<br><br><b>Process Connection:</b><br>ANSI Class 150, DIN PN10, JIS 10K<br>ANSI Class 300, DIN PN16, JIS 20K<br>DIN PN40, Union joint (Ceramics lining)<br>JIS F12<br><br><b>Water Pressure:</b><br>1.5 MPa<br>3.0 MPa<br>6.0 MPa<br>1.25 MPa   | ○                      | ○                      | ○                      | ○                      | ○                      | -                      | -                      | T01  |  |
| Calibration Certificate                 | Level 2: The Declaration and the Calibration Equipment List are issued.   | ○                      | ○                      | ○                      | ○                      | ○                      | ○                      | ○                      | L2   |  |
|   | Level 3: The Declaration and the Primary Standard List are issued.  | ○                      | ○                      | ○                      | ○                      | ○                      | ○                      | ○                      | L3   |  |
|   | Level 4: The Declaration and the Yokogawa Measuring Instruments Control System are issued.  | ○                      | ○                      | ○                      | ○                      | ○                      | ○                      | ○                      | L4   |  |
| Vent Hole                               | With a vent hole provided for permeable fluids (such as nitric acid, hydrofluoric acid, or aqueous sodium hydroxide at high temperature). Available only for a PFA lining flange type tube.   | ○                      | ○                      | ○                      | ○                      | -                      | -                      | -                      | H    |  |
| Enhanced Dual Frequency Excitation (*4) | Available for 25 to 200 mm (1.0 to 8.0 in.) sizes.<br>Products are delivered with the Standard dual frequency excitation mode and the Enhanced dual frequency excitation mode enabled.<br>As flow calibration is not performed for optional code HF1 while in Enhanced dual frequency excitation. Excitation mode select optional code HF2 when an accurate flow measurement is required.<br><br>Available for 25 to 200 mm (1.0 to 8.0 in.) sizes.<br>Products are delivered with the Standard dual frequency excitation mode and the Enhanced dual frequency excitation mode enabled.<br>The meter factor for the Enhanced dual frequency excitation obtained by flow calibration is inscribed on the nameplate and set into the combined converter in addition to the meter factor for the Standard dual frequency excitation. | ○                      | ○                      | ○                      | ○                      | ○                      | ○                      | ○                      | HF1  |  |
|   | ○   | ○                      | ○                      | ○                      | ○                      | ○                      | ○                      | HF2                    |      |  |

T26-3.EPS

● Table of Optional Specifications (Size 2.5 mm (0.1 in.) to 400 mm (16 in.)) (continued)

| Item  | Specifications  | Applicable Model       |                           |                              |                                     |                                     |                        |                            |     | Code                        |    |                             |     |                             |     |                              |       |   |   |   |   |   |   |   |    |
|---|---|------------------------|---------------------------|------------------------------|-------------------------------------|-------------------------------------|------------------------|----------------------------|-----|-----------------------------|----|-----------------------------|-----|-----------------------------|-----|------------------------------|-------|---|---|---|---|---|---|---|----|
|   |   | General                |                           | Explosion proof              |                                     | Submersible                         |                        | Sanitary                   |     |                             |    |                             |     |                             |     |                              |       |   |   |   |   |   |   |   |    |
|   |   | Integral Flowmeter     | Remote Flowtube           | Integral Flowmeter           | Remote Flowtube                     | Remote Flowtube                     | Integral Flowmeter     | Remote Flowtube            |     |                             |    |                             |     |                             |     |                              |       |   |   |   |   |   |   |   |    |
|   |   | AXF***G-D<br>AXF***G-E | AXF***G-N<br>AXF***G-P    | AXF***C-D<br>AXF***C-E       | AXF***C-P<br>AXF***W-N<br>AXF***W-P | AXF***C-N<br>AXF***W-N<br>AXF***W-P | AXF***H-D<br>AXF***H-E | AXF***H-N<br>AXF***H-P     |     |                             |    |                             |     |                             |     |                              |       |   |   |   |   |   |   |   |    |
| Five-point Calibration in User-specified Span                 | A flow test based on the comparison method is performed at five points near 0, 25, 50, 75, and 100% of the user-specified span, and a test certificate (QIC) is submitted. Specify the span (100% flow rate) whose corresponding flow velocity lies between 0.1 to 10 m/s (limits imposed by the flowtube performance) and that is less than the maximum line capacity shown below.<br><br><table border="1"> <thead> <tr> <th>Size</th> <th>Max. line capacity (m3/h)</th> </tr> </thead> <tbody> <tr> <td>2.5 to 5 mm (0.1 to 0.2 in.)</td> <td>0.6</td> </tr> <tr> <td>10 mm (0.4 in.)</td> <td>0.8</td> </tr> <tr> <td>15 to 25 mm (0.5 to 1 in.)</td> <td>5.3</td> </tr> <tr> <td>32 to 50 mm (1.25 to 2 in.)</td> <td>36</td> </tr> <tr> <td>65 to 100 mm (2.5 to 4 in.)</td> <td>155</td> </tr> <tr> <td>125 to 250 mm (5 to 10 in.)</td> <td>800</td> </tr> <tr> <td>300 to 400 mm (12 to 16 in.)</td> <td>1,500</td> </tr> </tbody> </table> | Size                   | Max. line capacity (m3/h) | 2.5 to 5 mm (0.1 to 0.2 in.) | 0.6                                 | 10 mm (0.4 in.)                     | 0.8                    | 15 to 25 mm (0.5 to 1 in.) | 5.3 | 32 to 50 mm (1.25 to 2 in.) | 36 | 65 to 100 mm (2.5 to 4 in.) | 155 | 125 to 250 mm (5 to 10 in.) | 800 | 300 to 400 mm (12 to 16 in.) | 1,500 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | SC |
| Size  | Max. line capacity (m3/h)   |                        |                           |                              |                                     |                                     |                        |                            |     |                             |    |                             |     |                             |     |                              |       |   |   |   |   |   |   |   |    |
| 2.5 to 5 mm (0.1 to 0.2 in.)                                  | 0.6   |                        |                           |                              |                                     |                                     |                        |                            |     |                             |    |                             |     |                             |     |                              |       |   |   |   |   |   |   |   |    |
| 10 mm (0.4 in.)   | 0.8   |                        |                           |                              |                                     |                                     |                        |                            |     |                             |    |                             |     |                             |     |                              |       |   |   |   |   |   |   |   |    |
| 15 to 25 mm (0.5 to 1 in.)                                    | 5.3   |                        |                           |                              |                                     |                                     |                        |                            |     |                             |    |                             |     |                             |     |                              |       |   |   |   |   |   |   |   |    |
| 32 to 50 mm (1.25 to 2 in.)                                   | 36  |                        |                           |                              |                                     |                                     |                        |                            |     |                             |    |                             |     |                             |     |                              |       |   |   |   |   |   |   |   |    |
| 65 to 100 mm (2.5 to 4 in.)                                   | 155   |                        |                           |                              |                                     |                                     |                        |                            |     |                             |    |                             |     |                             |     |                              |       |   |   |   |   |   |   |   |    |
| 125 to 250 mm (5 to 10 in.)                                   | 800   |                        |                           |                              |                                     |                                     |                        |                            |     |                             |    |                             |     |                             |     |                              |       |   |   |   |   |   |   |   |    |
| 300 to 400 mm (12 to 16 in.)                                  | 1,500   |                        |                           |                              |                                     |                                     |                        |                            |     |                             |    |                             |     |                             |     |                              |       |   |   |   |   |   |   |   |    |
| FM Approval   | FM Explosion proof<br>See "HAZARDOUS AREA CLASSIFICATION"   | -                      | -                         | ○                            | ○                                   | -                                   | -                      | -                          | -   | FF1                         |    |                             |     |                             |     |                              |       |   |   |   |   |   |   |   |    |
| CENELEC ATEX Certification (KEMA Approval)                    | ATEX Explosion proof<br>See "HAZARDOUS AREA CLASSIFICATION"   | -                      | -                         | ○                            | ○                                   | -                                   | -                      | -                          | -   | KF2                         |    |                             |     |                             |     |                              |       |   |   |   |   |   |   |   |    |
| CSA Certification   | CSA Explosion proof<br>See "HAZARDOUS AREA CLASSIFICATION"  | -                      | -                         | ○                            | ○                                   | -                                   | -                      | -                          | -   | CF1                         |    |                             |     |                             |     |                              |       |   |   |   |   |   |   |   |    |
| TIIS Certification  | TIIS Flame proof<br>See "HAZARDOUS AREA CLASSIFICATION"   | -                      | -                         | ○                            | △ (*6)                              | -                                   | -                      | -                          | -   | JF3                         |    |                             |     |                             |     |                              |       |   |   |   |   |   |   |   |    |
| Flame proof packing adapter for TIIS<br>Flame proof Type (*5) | Two flame proof packing adapters  | -                      | -                         | ○                            | ○                                   | -                                   | -                      | -                          | -   | G12                         |    |                             |     |                             |     |                              |       |   |   |   |   |   |   |   |    |
|   | One flame proof packing adapter and one blind plug.<br>Available for integral flowmeter and only when a four-wire cable is used for power input and signal output with a DC power supply.   | -                      | -                         | ○                            | -                                   | -                                   | -                      | -                          | -   | G11                         |    |                             |     |                             |     |                              |       |   |   |   |   |   |   |   |    |

| *1:                | Standard              | +90-degree rotation   | +180-degree rotation  | -90-degree rotation   |
|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                    |                       | Optional Code RA      | Optional Code RB      | Optional Code RC      |
| Integral Flowmeter | Electrical Connection | Indicator             | Electrical Connection | Indicator             |
| Remote Flowtube    |                       | Electrical Connection |                       | Electrical Connection |

\*2: When specifying the optional code BCC or BSC for a PFA or ceramics lining, it is advisable to specify the optional code GA, GC, or GD at the same time to prevent potential leakage caused by the difference in elasticity between the flowtube and chloroprene gaskets.

\*3: Special gaskets are inserted between the flowtube and the grounding ring or grounding electrode.

\*4: Enhanced dual frequency excitation is not available for models with calibration code C (High Grade Accuracy).

\*5: Select optional code G12 or G11 when TIIS Flame proof type with wiring using a flame proof packing adapter. Available only for JIS G1/2 electric connection.

\*6: The TIIS flame proof type is only available for AXF\*\*\*C-P (remote flowtube for combined use with AXFA14).

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● **Table of Optional Specifications (Size 500 mm (20 in.) to 2600 mm (104 in.)) (continued)**

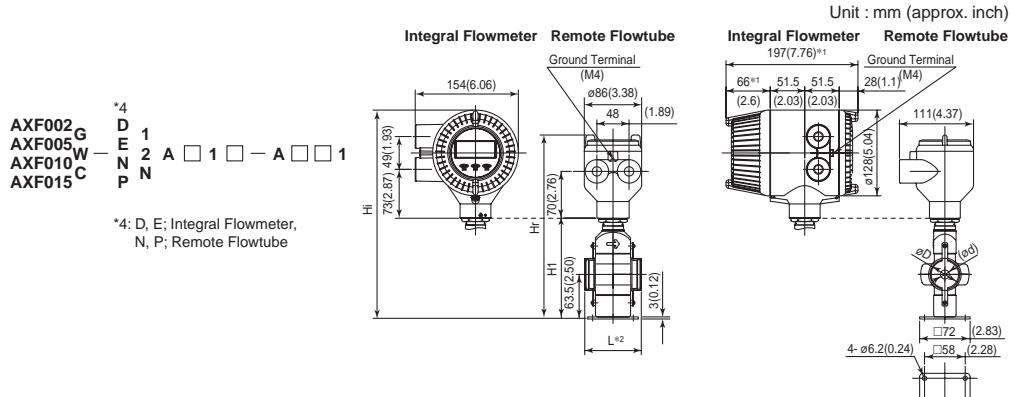
| Item   | Specifications   | Applicable Model      |                       | Code |
|--|--|-----------------------|-----------------------|------|
|  |  | General               | Submersible           |      |
|  |  | Remote Flowtube       | Remote Flowtube       |      |
|  |  | AXF***GN              | AXF***WN              |      |
| For District Heating and Cooling or Condensation-proof | Urethane resin potting is applied in the terminal box of a remote flowtube. Select JIS G1/2 for the electrical connections. 30-m dedicated and excitation cables are pre-wired and waterproof glands with union joints are attached at factory.  | <input type="radio"/> | <input type="radio"/> | DHC  |
| User-specified Signal and Excitation Cable Length      | Available for the submersible type and a model with optional code DHC. The cable length is limited up to 200 meters when combined with an AXFA11 converter. Following "L" specify the cable length in three digits as a multiple of 1 meter (e.g., 001, 002, or 005) for a length up to 5 meters, or as a multiple of 5 meters (i.e., 005, 010, 015, or the like) for a length of 5 meters or more.  | <input type="radio"/> | <input type="radio"/> | L*** |
| Mass Unit Setting                                      | The flow rate span, output pulse weight, and totalizer display pulse weight can be set in terms of mass. Specify the density of the process fluid when ordering in addition to the flow rate span, output pulse weight, and totalizer display pulse weight. The mass flow rate span must not exceed 32000 when ignoring the decimal point.<br><br>When ordering a remote flowtube, parameters for 'Mass Unit Setting' will be set in the corresponding converter before shipment.<br><br>Available mass units: t, kg, g, klb, lb<br>Available time units: /d, /h, /min, /s<br>Available density units: kg/m <sup>3</sup> , lb/gal, lb/cf | <input type="radio"/> | <input type="radio"/> | MU   |
| G3/4 Female Waterproof Glands                          | Waterproof glands for G3/4 conduits or flexible tubes are attached to the electrical connections. Available only for JIS G1/2 electric connections.  | <input type="radio"/> | <input type="radio"/> | EW   |
| Waterproof Glands                                      | Waterproof glands are attached to the electrical connections. Available only for JIS G1/2 electric connections.  | <input type="radio"/> | <input type="radio"/> | EG   |
| Waterproof Glands with Union Joints                    | Waterproof glands with union joints are attached to the electrical connections. Available only for JIS G1/2 electric connections.  | <input type="radio"/> | <input type="radio"/> | EU   |
| Stainless Steel Tag Plate                              | Screwed JIS SUS304 (AISI 304 SS/EN 1.4301 stainless steel equivalent) stainless steel tag plate for size 1100 to 2600 mm, or a pendant tag plate of JIS SUS304 is provided for size 500 to 1000 mm. Choose this option when a SS tag plate is required in addition to the standard nameplate with the tag number inscribed on it.  | <input type="radio"/> | <input type="radio"/> | SCT  |
| Direction Change of Electrical Connection (*1)         | +90 degrees rotated terminal box to change the direction of the electrical connection. Available for 1000 mm (40 in.) and smaller sizes.   | <input type="radio"/> | <input type="radio"/> | RA   |
|  | +180 degrees rotated terminal box to change the direction of the electrical connection. Available for 1000 mm (40 in.) and smaller sizes.  | <input type="radio"/> | <input type="radio"/> | RB   |
|  | -90 degrees rotated terminal box to change the direction of the electrical connection. Available for 1000 mm (40 in.) and smaller sizes.   | <input type="radio"/> | <input type="radio"/> | RC   |
| Material Certificate                                   | Material certificates are provided for linings, electrodes, grounding rings, and flanges.  | <input type="radio"/> | <input type="radio"/> | M01  |
| Hydrostatic Test                                       | The test verifies the absence of leaks by applying the following water pressures (which are determined under process connection conditions) to lining for ten minutes. Test results are described in the Note column of a test certificate(QIC).<br><br><b>Process Connection:</b><br>JIS 10K, ANSI Class 150, DIN PN10<br>JIS F12<br><b>Water Pressure:</b><br>1.5 MPa<br>1.25 MPa  | <input type="radio"/> | <input type="radio"/> | T01  |
| Calibration Certificate                                | Level 2: The Declaration and the Calibration Equipment List are issued.  | <input type="radio"/> | <input type="radio"/> | L2   |
|  | Level 3: The Declaration and the Primary Standard List are issued.   | <input type="radio"/> | <input type="radio"/> | L3   |
|  | Level 4: The Declaration and the Yokogawa Measuring Instruments Control System are issued.   | <input type="radio"/> | <input type="radio"/> | L4   |
| Five-point Calibration in User-specified Span          | A flow test based on the comparison method is performed at five points near 0, 25, 50, 75, and 100% of the user-specified span, and a test certificate (QIC) is submitted. Specify the span (100% flow rate) that is within the span setting range and is less than the maximum line capacity shown below.   | <input type="radio"/> | <input type="radio"/> | SC   |
|  | <b>Size</b> <b>Max. line capacity (m<sup>3</sup>/h)</b> <b>Span setting range (m/s)</b>  |                       |                       |      |
|  | 500 to 1000 mm(20 to 40 in.)   | 8500                  | 0.1 to 10             |      |
|  | 1100 to 2600 mm(44 to 104 in.)   | 30000                 | 0.3 to 10             |      |

| *1:             | Standard  | +90-degree rotation  | +180-degree rotation  | -90-degree rotation  |
|-----------------|---|--|---|--|
|                 |   | Optional Code RA   | Optional Code RB  | Optional Code RC   |
| Remote Flowtube |  | Electrical Connection<br> |  | <br>Electrical Connection |

T26-5.EPS

## ■ EXTERNAL DIMENSIONS

### ● AXF Standard, AXF002-AXF015, Wafer Type, PFA Lining



| Model              | Size code                        |  | 002      | 005                 | 010     | 015     |
|--------------------|----------------------------------|--|----------|---------------------|---------|---------|
|                    | Size                             |  | 2.5(0.1) | 5(0.2)              | 10(0.4) | 15(0.5) |
|                    | Lining code                      |  | A        | A                   | A       | A       |
| Remote flowtube    | Face-to-face length              |  |          | $L_3^{*2}$ 81(3.19) |         |         |
| Integral flowmeter | Outside dia.                     |  |          | $\phi D$ 44(1.73)   |         |         |
| Integral flowmeter | Inner diameter of Grounding ring |  |          | $\phi d$ 15(0.59)   |         |         |
| Integral flowmeter | Height                           |  |          | H1 144(5.67)        |         |         |
| Remote flowtube    | Max. Height                      |  |          | Hr 268(10.55)       |         |         |
| Integral flowmeter | Weight kg (lb) <sup>*3</sup>     |  |          | 2.4(5.3)            |         |         |
| Integral flowmeter | Max. Height                      |  |          | Hi 306(12.03)       |         |         |
| Integral flowmeter | Weight kg (lb)                   |  |          | 4.1(9.0)            |         |         |

\*1: When indicator code N is selected, subtract 12 mm (0.47 inch) from the value in the figure.

In case of explosion proof type with indicator, add 5 mm (0.2 inch) to it.

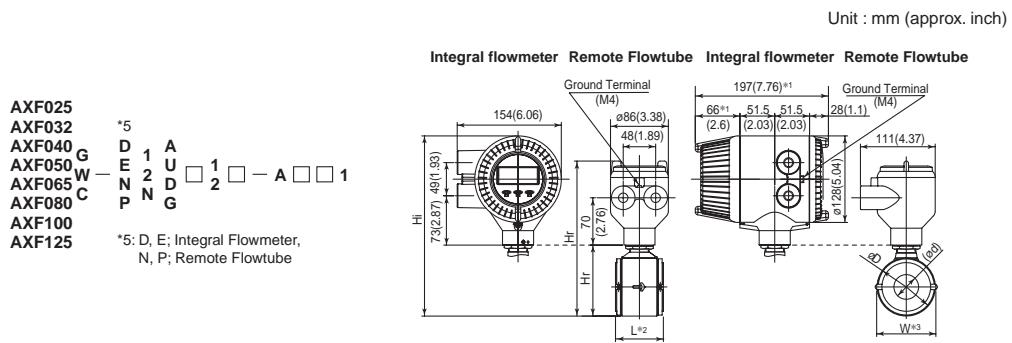
\*2: Depending on the selection of grounding ring code and optional code, add the following value to L (face-to-face length).

| Grounding Ring Code             | S, L, H, V | P, T      | N                  |
|---------------------------------|------------|-----------|--------------------|
| Option Code                     | None       | +0        | +26(1.02) -2(0.08) |
| GA, GC, GD<br>(Special Gaskets) | +6(0.24)   | +28(1.10) | -                  |

\*3: When submersible type or option code DHC is selected, waterproof glands and a 30m long cable are attached. Add 9.5kg(20.9lb) to the weight in the table.

F22.EPS

### ● AXF Standard, AXF025-AXF125, Wafer Type, PFA /Polyurethane Rubber /Natural Soft Rubber /EPDM Rubber Lining



| Model              | Size code                        |            | 025        | 032        | 040        | 050        | 065        | 080        | 100        | 125        |
|--------------------|----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                    | Size                             |            | 25(1)      | 32(1.25)   | 40(1.5)    | 50(2)      | 65(2.5)    | 80(3)      | 100(4)     | 125(5)     |
|                    | Lining code                      |            | A,U        | A,U        | A,U        | A,U<br>D,G | A,U<br>D,G | A,U<br>D,G | A,U<br>D,G | A,U<br>D,G |
| Remote flowtube    | Face-to-face length              | $L_3^{*2}$ | 60(2.36)   | 70(2.76)   | 70(2.76)   | 80(3.15)   | 100(3.94)  | 120(4.72)  | 150(5.91)  | 200(7.87)  |
| Integral flowmeter | Outside dia.                     | $\phi D$   | 67.5(2.66) | 73(2.87)   | 86(3.39)   | 99(3.90)   | 117(4.61)  | 129(5.08)  | 155(6.10)  | 183(7.20)  |
| Integral flowmeter | Inner diameter of Grounding ring | $\phi d$   | 28(1.10)   | 34(1.34)   | 41(1.61)   | 53(2.09)   | 66(2.60)   | 77(3.03)   | 102(4.02)  | 128(5.04)  |
| Integral flowmeter | Width                            | $W^{*3}$   | 67.5(2.66) | 73(2.87)   | 86(3.39)   | 99(3.90)   | 117(4.61)  | 129(5.08)  | 155(6.10)  | 183(7.20)  |
| Integral flowmeter | Height                           | H1         | 92(3.62)   | 97(3.82)   | 111(4.37)  | 129(5.08)  | 146(5.75)  | 157(6.18)  | 183(7.20)  | 212(8.35)  |
| Remote flowtube    | Max. Height                      | Hr         | 216(8.50)  | 221(8.70)  | 235(9.25)  | 253(9.96)  | 270(10.63) | 281(11.06) | 307(12.09) | 336(13.23) |
| Remote flowtube    | Weight kg (lb) <sup>*3</sup>     |            | 1.9(4.1)   | 2.0(4.5)   | 2.2(4.9)   | 2.7(5.8)   | 3.4(7.6)   | 4.1(9.1)   | 5.6(12.3)  | 9.3(20.4)  |
| Integral flowmeter | Max. Height                      | Hi         | 254(9.98)  | 259(10.18) | 273(10.73) | 291(11.44) | 308(12.11) | 319(12.54) | 345(13.56) | 374(14.70) |
| Integral flowmeter | Weight kg (lb)                   |            | 3.6(7.8)   | 3.7(8.2)   | 3.9(8.7)   | 4.4(9.6)   | 5.1(11.3)  | 5.8(12.9)  | 7.3(16.0)  | 11.0(24.2) |

\*1: When indicator code N is selected, subtract 12 mm (0.47 inch) from the value in the figure. In case of explosion proof type with indicator, add 5 mm (0.2 inch) to it.

\*2: Depending on the selection of grounding ring code and optional code, add the following value to L (face-to-face length).

| Grounding Ring Code             | S, L, H, V | P, T      | N                  |
|---------------------------------|------------|-----------|--------------------|
| Option Code                     | None       | +0        | +26(1.02) -2(0.08) |
| GA, GC, GD<br>(Special Gaskets) | +8(0.31)   | +30(1.18) | -                  |

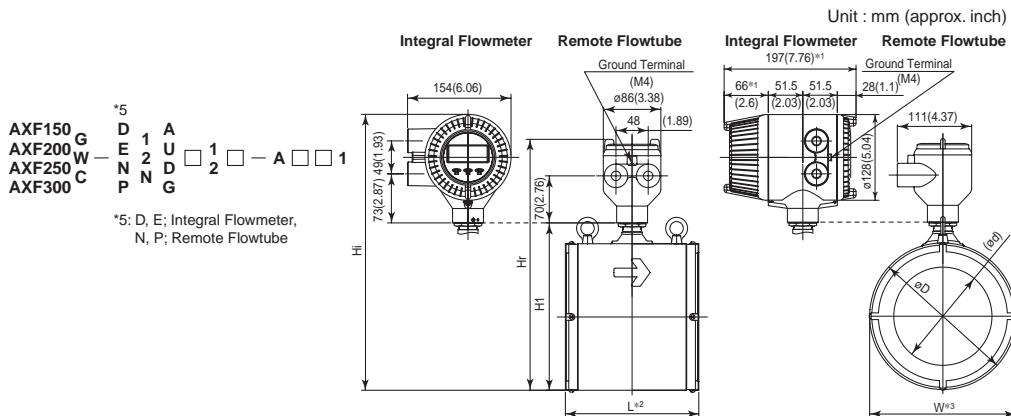
\*3: When electrode structure 2 is selected, add the following value to W (width).

| Nominal Size | 25          | 32, 40, 50 | 65, 80    | 100       | 125       |
|--------------|-------------|------------|-----------|-----------|-----------|
| W            | +52.5(2.06) | +52(2.05)  | +49(1.93) | +48(1.89) | +47(1.85) |

\*4: When submersible type or option code DHC is selected, waterproof glands and a 30m long cable are attached. Add 9.5kg(20.9lb) to the weight in the table.

F23.EPS

● AXF Standard, AXF150-AXF300, Wafer Type, PFA /Polyurethane Rubber /Natural Soft Rubber /EPDM Rubber Lining



| Model              | Size code                        |                             | 150                     | 200                     | 250                      | 300                      |
|--------------------|----------------------------------|-----------------------------|-------------------------|-------------------------|--------------------------|--------------------------|
|                    | Size                             |                             | 150(6)                  | 200(8)                  | 250(10)                  | 300(12)                  |
|                    | Lining code                      |                             | A.U<br>D.G              | A.U<br>D.G              | A.U<br>D.G               | A.U<br>D.G               |
| Remote flowtube    | Face-to-face length              | L <sup>g</sup> <sup>2</sup> | 200 <sup>g</sup> (7.87) | 250 <sup>g</sup> (9.84) | 300 <sup>g</sup> (11.81) | 350 <sup>g</sup> (13.78) |
|                    | Outside dia.                     | øD                          | 202(7.95)               | 252(9.92)               | 310(12.20)               | 358(14.09)               |
|                    | Inner diameter of Grounding ring | ød                          | 146.1(5.75)             | 193.6(7.62)             | 243.7(9.59)              | 294.7(11.60)             |
|                    | Width                            | W <sup>a</sup>              | 202(7.95)               | 252(9.92)               | 310(12.20)               | 358(14.09)               |
| Integral flowmeter | Height                           | H1                          | 243(9.57)               | 293(11.54)              | 351(13.82)               | 399(15.71)               |
|                    | Max. Height                      | Hr                          | 367(14.45)              | 417(16.42)              | 475(18.70)               | 523(20.59)               |
|                    | Weight kg (lb) <sup>b</sup>      |                             | 14.5(32.0)              | 22.1(48.7)              | 39.0(86.0)               | 48.3(106.5)              |
| Integral flowmeter | Max. Height                      | Hi                          | 405(15.93)              | 455(17.89)              | 513(20.18)               | 561(22.07)               |
|                    | Weight kg (lb)                   |                             | 16.2(35.7)              | 23.8(52.4)              | 40.7(89.7)               | 50.0(110.2)              |

\*1: When indicator code N is selected, subtract 12 mm (0.47 inch) from the value in the figure.

In case of explosion proof type with indicator, add 5 mm (0.2 inch) to it.

\*2: Depending on the selection of grounding ring code and optional code, add the following value to L (face-to-face length).

| Nominal Size: 150 to 200mm |            |           |          |
|----------------------------|------------|-----------|----------|
| Grounding Ring Code        | S, L, H, V | P, T      | N        |
| None                       | +0         | +34(1.34) | -2(0.08) |

| Nominal Size: 250 to 300mm                       |            |           |   |
|--|------------|-----------|---|
| Grounding Ring Code                              | S, L, H, V | P, T      | N |
| Option Code<br>(GA, GC, GD<br>(Special Gaskets)) | +10(0.39)  | +40(1.57) | - |

\*3: When electrode structure 2 is selected, add the following value to W(width).

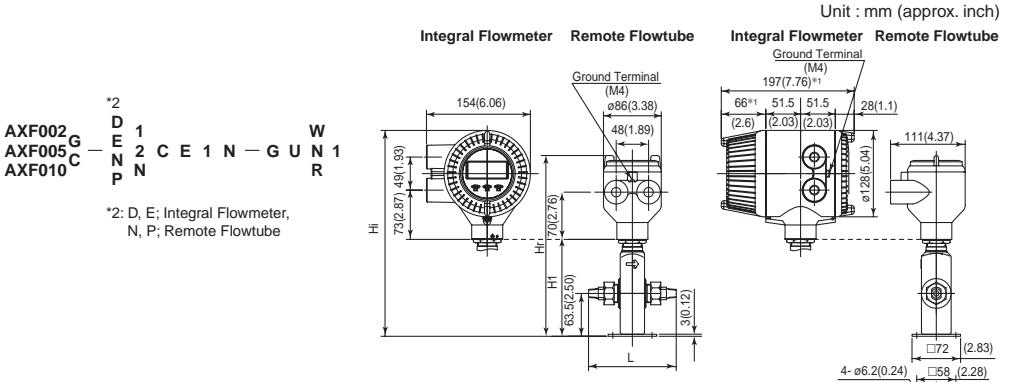
| Nominal size | 150       | 200       | 250       | 300       |
|--------------|-----------|-----------|-----------|-----------|
| W            | +49(1.93) | +50(1.97) | +49(1.93) | +53(2.09) |

\*4: When submersible type or option code DHC is selected, waterproof glands and a 30m long cable are attached.

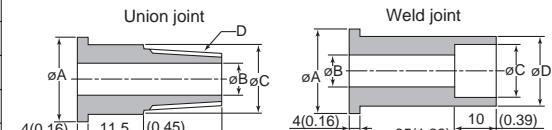
Add 9.5kg(20.9lb) to the weight in the table.

F24.EPS

● AXF Standard, AXF002-AXF010, Weld - Union Joint, Ceramics Lining



| Model              | Process connection  |                             | GUW (Welding type) |            |             | GUN/GUR (Union joint type) |            |             |
|--------------------|---------------------|-----------------------------|--------------------|------------|-------------|----------------------------|------------|-------------|
|                    | Size code           |                             | 002                | 005        | 010         | 002                        | 005        | 010         |
|                    | Size                |                             | 2.5<br>(0.1)       | 5<br>(0.2) | 10<br>(0.4) | 2.5<br>(0.1)               | 5<br>(0.2) | 10<br>(0.4) |
| Remote flowtube    | Face-to-face length | L <sup>g</sup> <sup>2</sup> | 140(5.51)          |            | 130(5.12)   |                            |            |             |
|                    | Height              | H1                          | 144(5.67)          |            | 144(5.67)   |                            |            |             |
| Integral flowmeter | Max. Height         | Hr                          | 268(10.55)         |            | 268(10.55)  |                            |            |             |
|                    | Weight kg (lb)      |                             | 2.3(5.1)           |            | 2.3(5.1)    |                            |            |             |
| Integral flowmeter | Max. Height         | Hi                          | 306(12.03)         |            | 306(12.03)  |                            |            |             |
|                    | Weight kg (lb)      |                             | 4(8.8)             |            | 4(8.8)      |                            |            |             |



| Size         | A        | B        | C          | D      |
|--------------|----------|----------|------------|--------|
| 2.5<br>(0.1) | 22(0.87) | 80(3.1)  | 18.5(0.73) | R1/4   |
| 5<br>(0.2)   | 22(0.87) | 80(3.1)  | 18.5(0.73) | NPT1/4 |
| 10<br>(0.4)  | 25(0.98) | 100(3.9) | 22.5(0.89) | R3/8   |
|              |          |          |            | NPT3/8 |

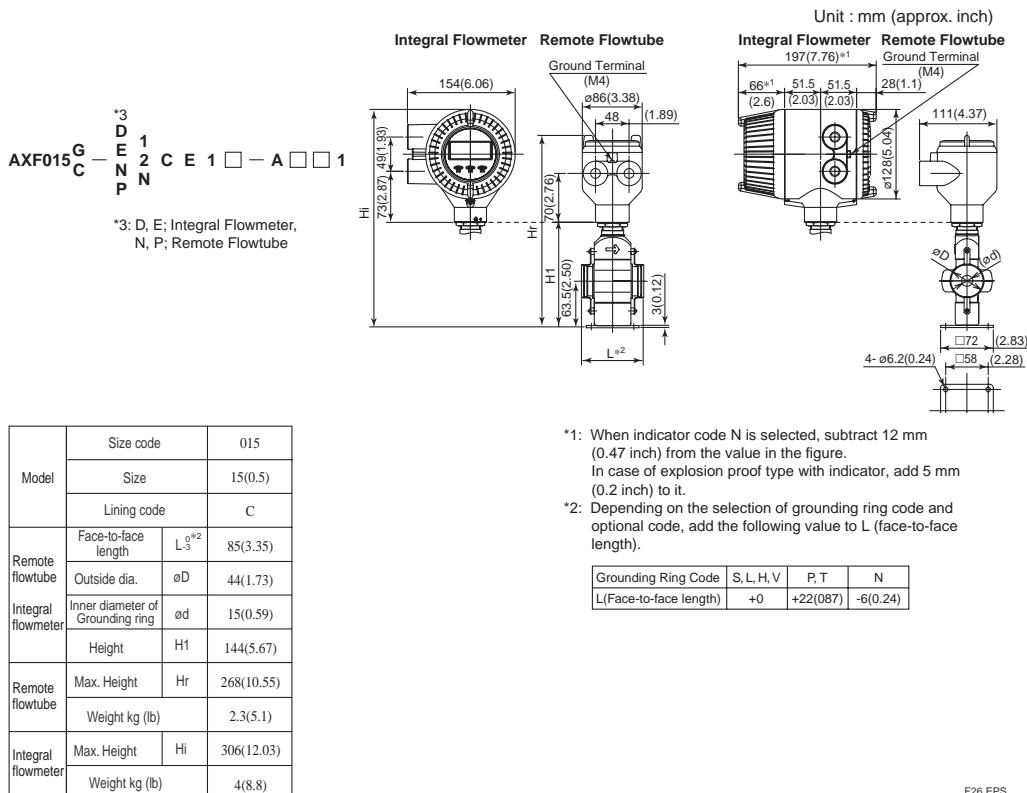
| Size     | A        | B        | C          | D          |
|----------|----------|----------|------------|------------|
| 2.5(0.1) | 22(0.87) | 80(3.1)  | 14.3(0.56) | 18.5(0.73) |
| 5(0.2)   | 22(0.87) | 80(3.1)  | 14.3(0.56) | 18.5(0.73) |
| 10(0.4)  | 25(0.98) | 100(3.9) | 17.8(0.70) | 22.5(0.89) |

\*1: When indicator code N is selected, subtract 12 mm (0.47 inch) from the value in the figure.

In case of explosion proof type with indicator, add 5 mm (0.2 inch) to it.

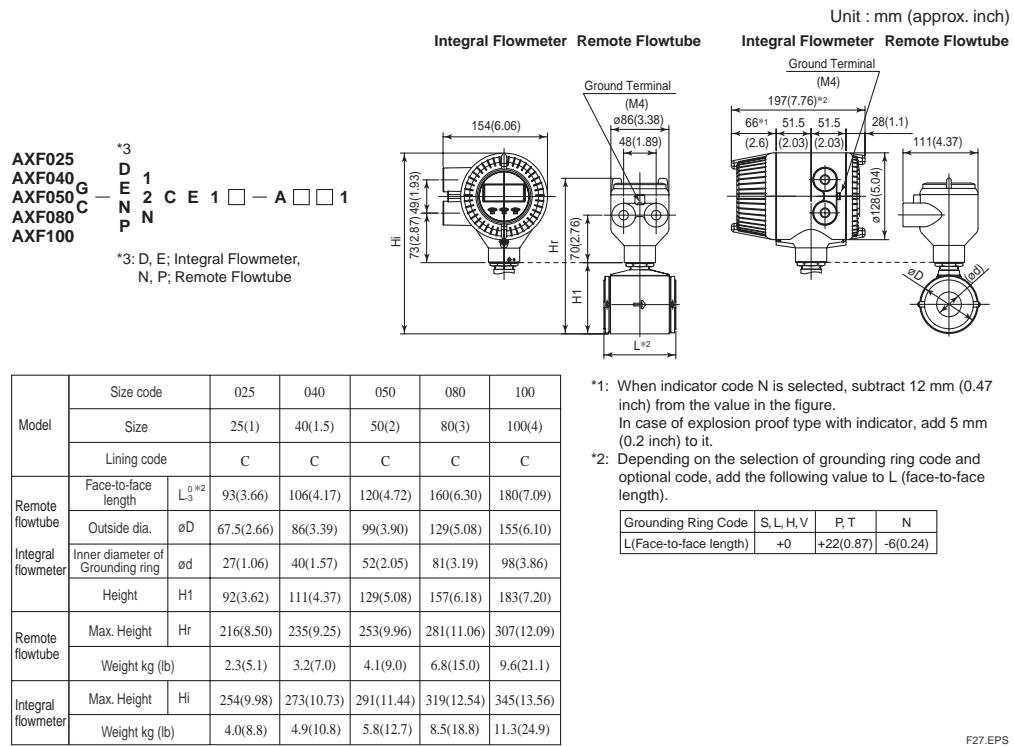
F25.EPS

## ● AXF Standard, AXF015, Wafer Type, Ceramics Lining



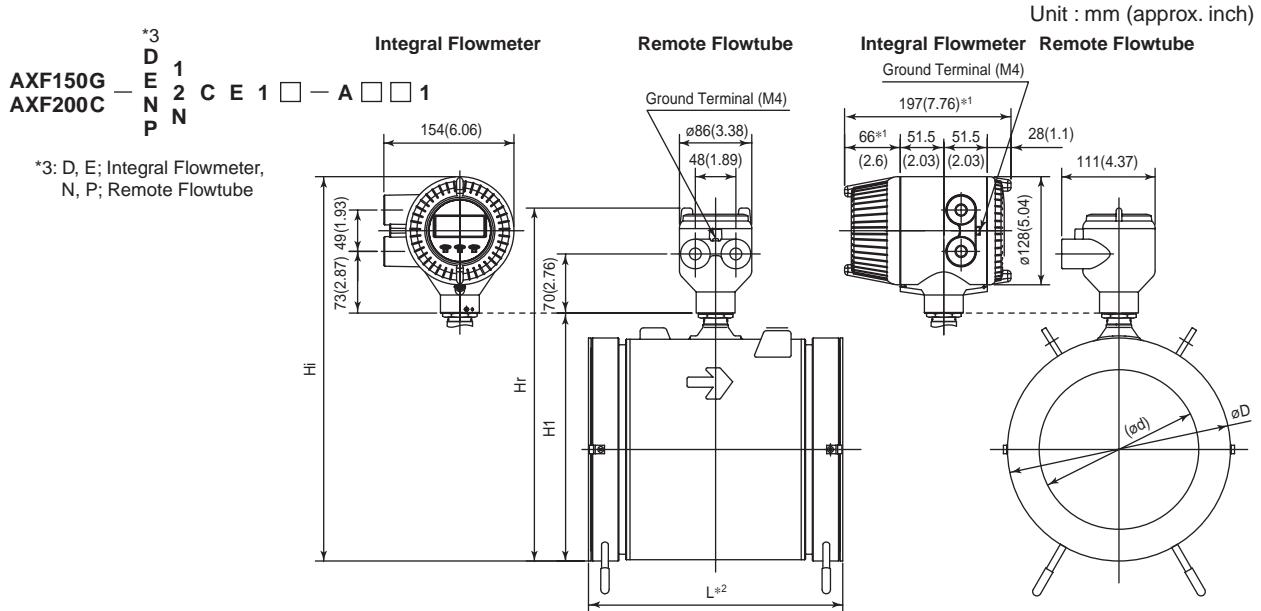
F26.EPS

## ● AXF Standard, AXF025-AXF100, Wafer Type, Ceramics Lining



F27.EPS

### ● AXF Standard, AXF150, AXF200, Wafer Type, Ceramics Lining



| Model              | Size code                        |                                | 150        | 200        |
|--------------------|----------------------------------|--------------------------------|------------|------------|
|                    | Size                             |                                | 150(6)     | 200(8)     |
|                    | Lining code                      |                                | C          | C          |
| Remote Flowtube    | Face-to-face length              | L <sup>0*2</sup> <sub>-3</sub> | 232(9.13)  | 302(11.89) |
|                    | Outside dia.                     | ØD                             | 214(8.43)  | 264(10.39) |
| Integral Flowmeter | Inner diameter of Grounding ring | Ød                             | 144(5.67)  | 192(7.56)  |
|                    | Height                           | H1                             | 254(10.00) | 304(11.97) |
| Remote Flowtube    | Max. Height                      | Hr                             | 378(14.88) | 428(16.85) |
|                    | Weight kg (lb)                   |                                | 20.2(44.5) | 33.5(73.9) |
| Integral Flowmeter | Max. Height                      | Hi                             | 416(16.36) | 466(18.33) |
|                    | Weight kg (lb)                   |                                | 21.9(48.3) | 35.2(77.6) |

\*1: When indicator code N is selected, subtract 12 mm (0.47 inch) from the value in the figure.

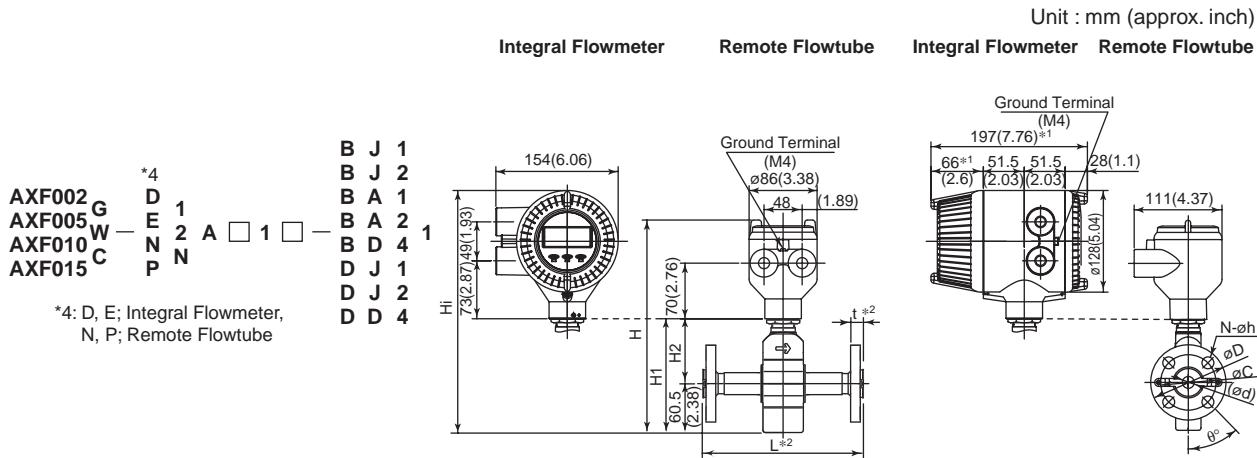
In case of explosion proof type with indicator, add 5 mm (0.2 inch) to it.

\*2: Depending on the selection of grounding ring code and optional code, add the following value to L (face-to-face length).

| Grounding Ring Code    | S, L, H, V | P, T      | N        |
|------------------------|------------|-----------|----------|
| L(Face-to-face length) | +0         | +30(1.18) | -6(0.24) |

F28.EPS

### ● AXF Standard, AXF002-AXF015, JIS/ANSI/DIN Flange Type, PFA Lining



| Model              | Process Connection                   |                            | BJ1(JIS10K)  |               |             |                            | BJ2(JIS20K)  |                      |             |                            | BA1(ANSI Class 150) |                |             |                            | BA2(ANSI Class 300) |                |             |                            | BD4(DIN PN40) |               |             |                            | DJ1(JIS10K)  |                            |             |                            | DJ2(JIS20K)  |                            |             |             |
|--------------------|--------------------------------------|----------------------------|--------------|---------------|-------------|----------------------------|--------------|----------------------|-------------|----------------------------|---------------------|----------------|-------------|----------------------------|---------------------|----------------|-------------|----------------------------|---------------|---------------|-------------|----------------------------|--------------|----------------------------|-------------|----------------------------|--------------|----------------------------|-------------|-------------|
|                    | Size code                            |                            | 002          | 005           | 010         | 015                        | 002          | 005                  | 010         | 015                        | 002                 | 005            | 010         | 015                        | 002                 | 005            | 010         | 015                        | 002           | 005           | 010         | 015                        | 002          | 005                        | 010         | 015                        | 002          | 005                        | 010         | 015         |
|                    | Size                                 |                            | 2.5<br>(0.1) | 5<br>(0.2)    | 10<br>(0.4) | 15<br>(0.5)                | 2.5<br>(0.1) | 5<br>(0.2)           | 10<br>(0.4) | 15<br>(0.5)                | 2.5<br>(0.1)        | 5<br>(0.2)     | 10<br>(0.4) | 15<br>(0.5)                | 2.5<br>(0.1)        | 5<br>(0.2)     | 10<br>(0.4) | 15<br>(0.5)                | 2.5<br>(0.1)  | 5<br>(0.2)    | 10<br>(0.4) | 15<br>(0.5)                | 2.5<br>(0.1) | 5<br>(0.2)                 | 10<br>(0.4) | 15<br>(0.5)                | 2.5<br>(0.1) | 5<br>(0.2)                 | 10<br>(0.4) | 15<br>(0.5) |
| Lining code        |                                      | A                          | A            | A             | A           | A                          | A            | A                    | A           | A                          | A                   | A              | A           | A                          | A                   | A              | A           | A                          | A             | A             | A           | A                          | A            | A                          | A           | A                          | A            | A                          | A           | A           |
| Remote flowtube    | Face-to-face length  L               | *2 150(5.91)               |              | 200<br>(7.87) |             | 150(5.91)                  |              | 200<br>(7.87)        |             | 150(5.91)                  |                     | 200<br>(7.87)  |             | 150(5.91)                  |                     | 200<br>(7.87)  |             | 150(5.91)                  |               | 200<br>(7.87) |             | 150(5.91)                  |              | 150(5.91)                  |             | 150(5.91)                  |              | 150(5.91)                  |             |             |
|                    | Outside dia.  øD                     | 95(3.74)                   |              | 95(3.74)      |             | 88.9(3.50)                 |              | 95.3(3.75)           |             | 95(3.74)                   |                     | 90(3.54)       |             | 90(3.54)                   |                     | 90(3.54)       |             | 90(3.54)                   |               | 90(3.54)      |             | 90(3.54)                   |              | 90(3.54)                   |             | 90(3.54)                   |              | 90(3.54)                   |             |             |
|                    | Thickness  t                         | 18 to 22<br>(0.71 to 0.87) |              | 16<br>(0.63)  |             | 20 to 24<br>(0.79 to 0.94) |              | 18<br>(0.71 to 0.87) |             | 17 to 22<br>(0.67 to 0.87) |                     | 15.2<br>(0.60) |             | 20 to 25<br>(0.79 to 0.98) |                     | 18.2<br>(0.72) |             | 21 to 25<br>(0.83 to 0.98) |               | 20<br>(0.79)  |             | 21 to 22<br>(0.71 to 0.87) |              | 20 to 24<br>(0.79 to 0.94) |             | 21 to 25<br>(0.83 to 0.98) |              | 21 to 25<br>(0.83 to 0.98) |             |             |
|                    | Inner diameter of Grounding ring  ød | 15(0.59)                   |              | 15(0.59)      |             | 15(0.59)                   |              | 15(0.59)             |             | 15(0.59)                   |                     | 15(0.59)       |             | 15(0.59)                   |                     | 15(0.59)       |             | 12(0.47)                   |               | 12(0.47)      |             | 12(0.47)                   |              | 12(0.47)                   |             | 12(0.47)                   |              |                            |             |             |
| Integral flowmeter | Pitch circle dia.  øC                | 70(2.76)                   |              | 70(2.76)      |             | 60.5(2.38)                 |              | 66.5(2.62)           |             | 65(2.56)                   |                     | 65(2.56)       |             | 65(2.56)                   |                     | 65(2.56)       |             | 60(2.36)                   |               | 60(2.36)      |             | 60(2.36)                   |              | 60(2.36)                   |             | 60(2.36)                   |              |                            |             |             |
|                    | Bolt hole interval  øh               | 45                         |              | 45            |             | 45                         |              | 45                   |             | 45                         |                     | 45             |             | 45                         |                     | 45             |             | 45                         |               | 45            |             | 45                         |              | 45                         |             | 45                         |              |                            |             |             |
|                    | Hole dia.  øh                        | 15(0.59)                   |              | 15(0.59)      |             | 15.7(0.62)                 |              | 15.7(0.62)           |             | 14(0.55)                   |                     | 14(0.55)       |             | 15(0.59)                   |                     | 15(0.59)       |             | 14(0.55)                   |               | 14(0.55)      |             | 14(0.55)                   |              | 14(0.55)                   |             | 14(0.55)                   |              |                            |             |             |
| Remote flowtube    | Number of holes  N                   | 4                          |              | 4             |             | 4                          |              | 4                    |             | 4                          |                     | 4              |             | 4                          |                     | 4              |             | 4                          |               | 4             |             | 4                          |              | 4                          |             | 4                          |              |                            |             |             |
|                    | Height  H1                           | 141(5.54)                  |              | 141(5.54)     |             | 141(5.54)                  |              | 141(5.54)            |             | 141(5.54)                  |                     | 141(5.54)      |             | 141(5.54)                  |                     | 141(5.54)      |             | 141(5.54)                  |               | 141(5.54)     |             | 141(5.54)                  |              | 141(5.54)                  |             | 141(5.54)                  |              |                            |             |             |
| Remote flowtube    | Height  H2                           | 80(3.15)                   |              | 80(3.15)      |             | 80(3.15)                   |              | 80(3.15)             |             | 80(3.15)                   |                     | 80(3.15)       |             | 80(3.15)                   |                     | 80(3.15)       |             | 80(3.15)                   |               | 80(3.15)      |             | 80(3.15)                   |              | 80(3.15)                   |             | 80(3.15)                   |              |                            |             |             |
|                    | Max. Height  Hr                      | 265(10.43)                 |              | 265(10.43)    |             | 265(10.43)                 |              | 265(10.43)           |             | 265(10.43)                 |                     | 265(10.43)     |             | 265(10.43)                 |                     | 265(10.43)     |             | 265(10.43)                 |               | 265(10.43)    |             | 265(10.43)                 |              | 265(10.43)                 |             | 265(10.43)                 |              |                            |             |             |
| Integral flowmeter | Max. Height  Hi                      | 302(11.89)                 |              | 302(11.89)    |             | 302(11.89)                 |              | 302(11.89)           |             | 302(11.89)                 |                     | 302(11.89)     |             | 302(11.89)                 |                     | 302(11.89)     |             | 302(11.89)                 |               | 302(11.89)    |             | 302(11.89)                 |              | 302(11.89)                 |             | 302(11.89)                 |              |                            |             |             |
|                    | Weight kg (lb)                       | 5.2(11.5)                  |              | 5.4(11.9)     |             | 5.0(10.9)                  |              | 5.4(11.9)            |             | 5.6(12.4)                  |                     | 5.3(11.7)      |             | 5.5(12.1)                  |                     | 5.7(12.5)      |             | 5.7(12.5)                  |               | 5.7(12.5)     |             | 5.7(12.5)                  |              | 5.7(12.5)                  |             | 5.7(12.5)                  |              |                            |             |             |

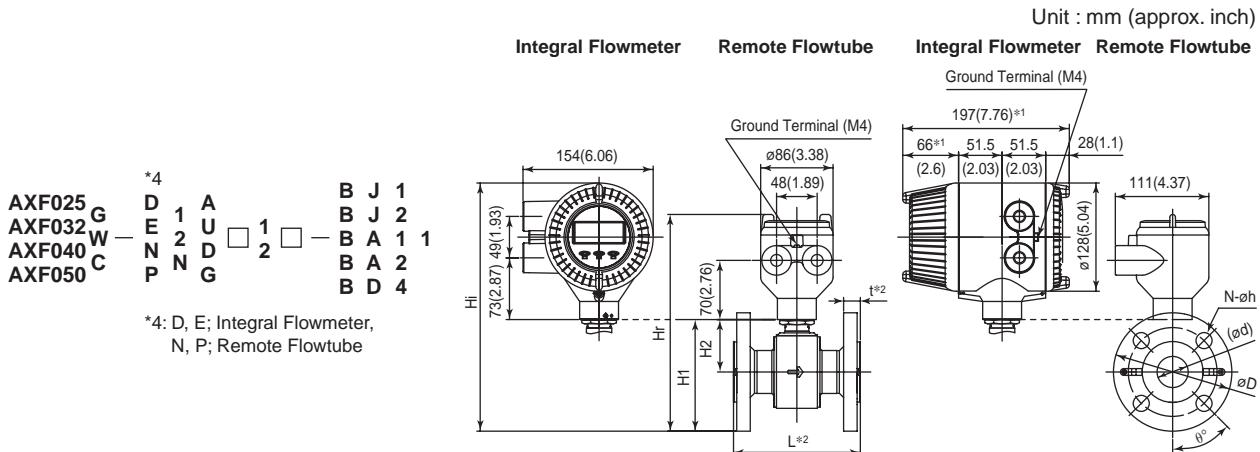
\*1: When indicator code N is selected, subtract 12 mm (0.47 inch) from the value in the figure.

In case of explosion proof type with indicator, add 5 mm (0.2 inch) to it.

\*2: Depending on the selection of grounding ring code and optional code, add the following value to "L" (face-to-face length) and "t" (thickness of flange).

|                     | L                               | t        | L        | t         | L         | t        |
|---------------------|---------------------------------|----------|----------|-----------|-----------|----------|
| Grounding Ring Code | S, L, H, V                      |          | P, T     |           | N         |          |
| Option Code         | None                            | +0       | +0       | +26(1.02) | +13(0.51) | -2(0.08) |
|                     | GA, GC, GD<br>(Special Gaskets) | +8(0.31) | +4(0.16) | +30(1.18) | +15(0.59) | -        |

● AXF Standard, AXF025-AXF050, JIS/ANSI/DIN Flange Type, PFA /Polyurethane Rubber /Natural Soft Rubber /EPDM Rubber Lining



| Model              | Process Connection               |                  | BJ1(JIS10K)    |                |                |                |  | BJ2(JIS20K)    |                |                |                |  | BA1(ANSI Class 150) |                 |                 |                 |                 | BA2(ANSI Class 300) |                 |                 |                |                | BD4(DIN PN40)  |                |                |               |               |              |  |  |
|--------------------|----------------------------------|------------------|----------------|----------------|----------------|----------------|--|----------------|----------------|----------------|----------------|--|---------------------|-----------------|-----------------|-----------------|-----------------|---------------------|-----------------|-----------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|--------------|--|--|
|                    | Size code                        |                  | 025            | 032            | 040            | 050            |  | 025            | 032            | 040            | 050            |  | 025                 | 032             | 040             | 050             | 025             | 032                 | 040             | 050             | 025            | 032            | 040            | 050            | 025            | 032           | 040           | 050          |  |  |
|                    | Size                             |                  | 25<br>(1)      | 32<br>(1.25)   | 40<br>(1.5)    | 50<br>(2)      |  | 25<br>(1)      | 32<br>(1.25)   | 40<br>(1.5)    | 50<br>(2)      |  | 25<br>(1)           | 32<br>(1.25)    | 40<br>(1.5)     | 50<br>(2)       | 25<br>(1)       | 32<br>(1.25)        | 40<br>(1.5)     | 50<br>(2)       | 25<br>(1)      | 32<br>(1.25)   | 40<br>(1.5)    | 50<br>(2)      | 25<br>(1)      | 32<br>(1.25)  | 40<br>(1.5)   | 50<br>(2)    |  |  |
| Remote flowtube    | Face-to-face length              | L <sup>0*2</sup> | 200<br>(7.87)  | 200<br>(7.87)  | 200<br>(7.87)  | 200<br>(7.87)  |  | 200<br>(7.87)  | 200<br>(7.87)  | 200<br>(7.87)  | 200<br>(7.87)  |  | 200<br>(7.87)       | 200<br>(7.87)   | 200<br>(7.87)   | 200<br>(7.87)   | 200<br>(7.87)   | 200<br>(7.87)       | 200<br>(7.87)   | 200<br>(7.87)   | 200<br>(7.87)  | 200<br>(7.87)  | 200<br>(7.87)  | 200<br>(7.87)  | 200<br>(7.87)  | 200<br>(7.87) | 200<br>(7.87) |              |  |  |
|                    | Outside dia.                     | øD               | 125<br>(4.92)  | 135<br>(5.31)  | 140<br>(5.51)  | 155<br>(6.10)  |  | 125<br>(4.92)  | 135<br>(5.31)  | 140<br>(5.51)  | 155<br>(6.10)  |  | 108.0<br>(4.25)     | 117.3<br>(4.62) | 127.0<br>(5.00) | 132.4<br>(4.88) | 133.4<br>(5.25) | 155.4<br>(6.12)     | 165.1<br>(6.50) | 115<br>(4.53)   | 140<br>(5.51)  | 150<br>(6.50)  |                |                |                |               |               |              |  |  |
|                    | Thickness                        | t <sup>*2</sup>  | 18<br>(0.71)   | 20<br>(0.79)   | 20<br>(0.79)   | 20<br>(0.79)   |  | 22<br>(0.79)   | 22<br>(0.87)   | 22<br>(0.87)   | 22<br>(0.87)   |  | 18.2<br>(0.72)      | 19.7<br>(0.78)  | 21.5<br>(0.85)  | 23.1<br>(0.91)  | 21.5<br>(0.85)  | 23.1<br>(0.91)      | 24.6<br>(0.97)  | 26.4<br>(1.04)  | 22<br>(0.87)   | 22<br>(0.87)   | 22<br>(0.87)   | 24<br>(0.94)   |                |               |               |              |  |  |
|                    | Inner diameter of Grounding ring | ød               | 28<br>(1.10)   | 34<br>(1.34)   | 41<br>(1.61)   | 53<br>(2.09)   |  | 28<br>(1.10)   | 34<br>(1.34)   | 41<br>(1.61)   | 53<br>(2.09)   |  | 41<br>(2.09)        | 53<br>(1.34)    | 53<br>(1.61)    | 53<br>(1.61)    | 28<br>(2.09)    | 34<br>(2.09)        | 41<br>(1.34)    | 53<br>(2.09)    | 34<br>(1.61)   | 41<br>(1.34)   | 53<br>(2.09)   |                |                |               |               |              |  |  |
|                    | Pitch circle dia.                | øC               | 90<br>(3.54)   | 100<br>(3.94)  | 105<br>(4.13)  | 120<br>(4.72)  |  | 90<br>(3.54)   | 100<br>(3.94)  | 105<br>(4.13)  | 120<br>(4.72)  |  | 120<br>(3.12)       | 88.9<br>(3.50)  | 98.6<br>(3.88)  | 120<br>(4.75)   | 88.9<br>(3.50)  | 98.6<br>(3.88)      | 114.3<br>(4.50) | 127.0<br>(5.00) | 82<br>(3.35)   | 100<br>(3.94)  | 110<br>(4.33)  | 125<br>(4.92)  |                |               |               |              |  |  |
|                    | Bolt hole interval               | ø'               | 45             | 45             | 45             | 45             |  | 45             | 45             | 45             | 45             |  | 22.5                | 45              | 45              | 45              | 45              | 45                  | 45              | 45              | 45             | 45             | 45             | 45             | 45             | 45            | 45            | 45           |  |  |
| Integral flowmeter | Hole dia.                        | øh               | 19<br>(0.75)   | 19<br>(0.75)   | 19<br>(0.75)   | 19<br>(0.75)   |  | 19<br>(0.75)   | 19<br>(0.75)   | 19<br>(0.75)   | 19<br>(0.75)   |  | 19<br>(0.62)        | 19<br>(0.62)    | 19<br>(0.62)    | 19<br>(0.62)    | 19<br>(0.75)    | 19<br>(0.75)        | 19<br>(0.75)    | 19<br>(0.75)    | 19<br>(0.75)   | 19<br>(0.75)   | 19<br>(0.75)   | 19<br>(0.75)   | 19<br>(0.75)   | 19<br>(0.75)  | 19<br>(0.75)  | 19<br>(0.75) |  |  |
|                    | Number of holes                  | N                | 4              | 4              | 4              | 4              |  | 4              | 4              | 4              | 4              |  | 8                   | 4               | 4               | 4               | 4               | 4                   | 4               | 4               | 4              | 4              | 4              | 4              | 4              | 4             | 4             | 4            |  |  |
|                    | Height                           | H1               | 120<br>(4.74)  | 128<br>(5.05)  | 138<br>(5.43)  | 157<br>(6.16)  |  | 120<br>(4.74)  | 128<br>(5.05)  | 138<br>(5.43)  | 157<br>(6.16)  |  | 112<br>(4.40)       | 120<br>(4.71)   | 131<br>(5.17)   | 155<br>(5.71)   | 155<br>(5.17)   | 171<br>(6.11)       | 171<br>(4.72)   | 171<br>(5.02)   | 171<br>(5.73)  | 162<br>(6.36)  | 115<br>(4.54)  | 131<br>(5.15)  | 143<br>(5.63)  | 162<br>(6.36) |               |              |  |  |
| Remote flowtube    | Height                           | H2               | 58<br>(2.28)   | 61<br>(2.40)   | 68<br>(2.67)   | 79<br>(3.11)   |  | 58<br>(2.28)   | 61<br>(2.40)   | 68<br>(2.67)   | 79<br>(3.11)   |  | 61<br>(2.28)        | 68<br>(2.40)    | 79<br>(2.67)    | 81<br>(3.11)    | 81<br>(2.28)    | 81<br>(2.40)        | 61<br>(2.67)    | 68<br>(3.11)    | 79<br>(2.28)   | 81<br>(2.40)   | 61<br>(2.67)   | 79<br>(3.11)   | 61<br>(2.28)   | 68<br>(2.40)  | 79<br>(2.67)  | 81<br>(3.11) |  |  |
|                    | Max. Height                      | Hr               | 244<br>(9.62)  | 252<br>(9.94)  | 262<br>(10.31) | 281<br>(11.04) |  | 244<br>(9.62)  | 252<br>(9.94)  | 262<br>(10.31) | 281<br>(11.04) |  | 236<br>(9.28)       | 244<br>(9.59)   | 255<br>(10.05)  | 279<br>(10.99)  | 244<br>(9.60)   | 252<br>(9.90)       | 270<br>(10.61)  | 286<br>(11.24)  | 239<br>(9.42)  | 255<br>(10.03) | 267<br>(10.51) | 286<br>(11.24) |                |               |               |              |  |  |
| Integral flowmeter | Weight kg (lb) <sup>*3</sup>     |                  | 4.4<br>(9.8)   | 5.3<br>(11.7)  | 5.7<br>(12.6)  | 6.8<br>(14.9)  |  | 4.8<br>(10.5)  | 5.7<br>(12.6)  | 6.2<br>(13.6)  | 7.0<br>(15.4)  |  | 3.9<br>(8.5)        | 4.5<br>(9.9)    | 5.4<br>(11.9)   | 7.4<br>(16.4)   | 5.0<br>(11.0)   | 5.8<br>(12.9)       | 7.8<br>(17.1)   | 9.0<br>(19.8)   | 4.7<br>(6.4)   | 6.1<br>(7.8)   | 6.9<br>(8.6)   | 8.7<br>(10.4)  |                |               |               |              |  |  |
|                    | Max. Height                      | Hi               | 282<br>(11.09) | 290<br>(11.41) | 299<br>(11.79) | 318<br>(12.52) |  | 282<br>(11.09) | 290<br>(11.41) | 299<br>(11.79) | 318<br>(12.52) |  | 299<br>(10.76)      | 318<br>(11.33)  | 321<br>(12.47)  | 273<br>(11.07)  | 281<br>(11.38)  | 291<br>(12.09)      | 289<br>(12.72)  | 301<br>(10.90)  | 323<br>(11.51) | 271<br>(11.98) | 292<br>(12.72) | 304<br>(11.51) | 323<br>(12.72) |               |               |              |  |  |
|                    | Weight kg (lb)                   |                  | 6.1<br>(13.5)  | 7.0<br>(15.5)  | 7.4<br>(16.4)  | 8.5<br>(18.6)  |  | 6.5<br>(14.3)  | 7.4<br>(16.4)  | 7.9<br>(17.4)  | 8.7<br>(19.1)  |  | 5.6<br>(12.2)       | 6.2<br>(13.6)   | 7.1<br>(15.7)   | 9.1<br>(20.1)   | 6.7<br>(14.7)   | 7.5<br>(16.6)       | 9.5<br>(20.8)   | 10.7<br>(23.6)  | 6.4<br>(8.1)   | 7.8<br>(9.5)   | 8.6<br>(10.3)  | 10.4<br>(12.1) |                |               |               |              |  |  |

\*1: When indicator code N is selected, subtract 12 mm (0.47 inch) from the value in the figure.

In case of explosion proof type with indicator, add 5 mm (0.2 inch) to it.

\*2: Depending on the selection of grounding ring code and optional code, add the following value to "L" (face-to-face length) and "t" (thickness of flange).

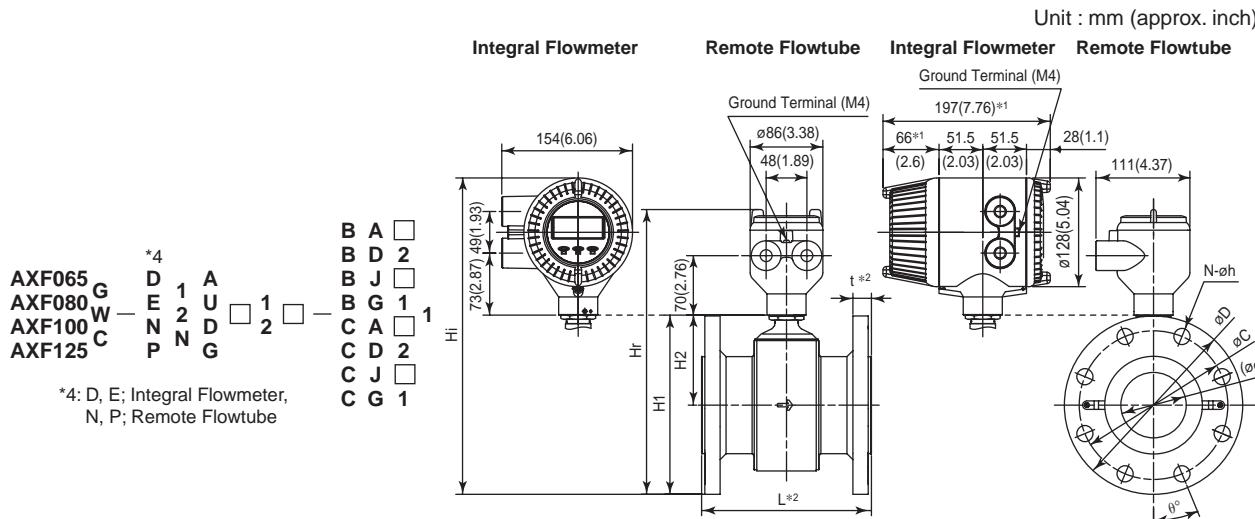
| Grounding Ring Code             | L        | t        | L         | t         | L        | t        |
|---------------------------------|----------|----------|-----------|-----------|----------|----------|
| S, L, H, V                      |          |          | P, T      |           |          | N        |
| None                            | +0       | +0       | +26(1.02) | +13(0.51) | -2(0.08) | -1(0.04) |
| GA, GC, GD<br>(Special Gaskets) | +8(0.31) | +4(0.16) | +30(1.18) | +15(0.59) | -        | -        |

\*3: When submersible type or option code DHC is selected, waterproof glands and a 30m long cable are attached.

Add 9.5kg(20.9lb) to the weight in the table.

F30.EPS

● AXF Standard, AXF065-AXF125, JIS/ANSI/DIN Flange Type, PFA /Polyurethane Rubber /Natural Soft Rubber /EPDM Rubber Lining



| Model              | Process Connection               | BJ1,CJ1(JIS10K)                     |                |                |                | BJ2,CJ2(JIS20K) |                |                |                 | BG1,CG1(JIS F12) |                |                |                | BA1,CA1(ANSI Class 150) |                 |                 |                 | BA2,CA2(ANSI Class 300) |                 |                 |                 | BD2,CD2(DIN PN16) |                 |                 |                 |                 |                 |                 |                 |                |                |
|--------------------|----------------------------------|-------------------------------------|----------------|----------------|----------------|-----------------|----------------|----------------|-----------------|------------------|----------------|----------------|----------------|-------------------------|-----------------|-----------------|-----------------|-------------------------|-----------------|-----------------|-----------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|
|                    |                                  | Size code                           |                | 065            | 080            | 100             | 125            | 065            |                 | 080              | 100            | 125            | 080            |                         | 100             | 125             | 065             |                         | 080             | 100             | 125             | 065               |                 | 080             | 100             | 125             |                 |                 |                 |                |                |
|                    |                                  | Size                                |                | 65<br>(2.5)    | 80<br>(3)      | 100<br>(4)      | 125<br>(2.5)   | 65<br>(2.5)    | 80<br>(3)       | 100<br>(4)       | 125<br>(2.5)   | 80<br>(3)      | 100<br>(4)     | 125<br>(2.5)            | 80<br>(3)       | 100<br>(4)      | 125<br>(2.5)    | 65<br>(2.5)             | 80<br>(3)       | 100<br>(4)      | 125<br>(2.5)    | 65<br>(2.5)       | 80<br>(3)       | 100<br>(4)      | 125<br>(2.5)    | 65<br>(2.5)     | 80<br>(3)       | 100<br>(4)      | 125<br>(2.5)    |                |                |
| Remote flowtube    | Lining code                      | A.U<br>D.G                          | A.U<br>D.G     | A.U<br>D.G     | A.U<br>D.G     | A.U<br>D.G      | A.U<br>D.G     | A.U<br>D.G     | A.U<br>D.G      | A.U<br>D.G       | A.U<br>D.G     | A.U<br>D.G     | A.U<br>D.G     | A.U<br>D.G              | A.U<br>D.G      | A.U<br>D.G      | A.U<br>D.G      | A.U<br>D.G              | A.U<br>D.G      | A.U<br>D.G      | A.U<br>D.G      | A.U<br>D.G        | A.U<br>D.G      | A.U<br>D.G      | A.U<br>D.G      | A.U<br>D.G      |                 |                 |                 |                |                |
|                    | Face-to-face length              | $L_{-3}^{0.02}$<br>(7.87)<br>(7.87) | 200<br>(7.87)  | 200<br>(7.87)  | 250<br>(9.84)  | 250<br>(9.84)   | 250<br>(9.84)  | 250<br>(9.84)  | 200<br>(7.87)   | 250<br>(9.84)    | 250<br>(9.84)  | 250<br>(9.84)  | 200<br>(7.87)  | 250<br>(9.84)           | 250<br>(9.84)   | 250<br>(9.84)   | 200<br>(7.87)   | 250<br>(9.84)           | 250<br>(9.84)   | 250<br>(9.84)   | 200<br>(7.87)   | 250<br>(9.84)     | 250<br>(9.84)   | 250<br>(9.84)   | 200<br>(7.87)   | 250<br>(9.84)   | 250<br>(9.84)   |                 |                 |                |                |
|                    | Outside dia.                     | $\phi D$<br>(6.89)<br>(6.89)        | 75<br>(2.87)   | 75<br>(2.87)   | 100<br>(3.94)  | 100<br>(3.94)   | 120<br>(4.73)  | 120<br>(4.73)  | 120<br>(4.73)   | 120<br>(4.73)    | 120<br>(4.73)  | 120<br>(4.73)  | 120<br>(4.73)  | 120<br>(4.73)           | 120<br>(4.73)   | 120<br>(4.73)   | 120<br>(4.73)   | 120<br>(4.73)           | 120<br>(4.73)   | 120<br>(4.73)   | 120<br>(4.73)   | 120<br>(4.73)     | 120<br>(4.73)   | 120<br>(4.73)   | 120<br>(4.73)   | 120<br>(4.73)   | 120<br>(4.73)   |                 |                 |                |                |
|                    | Thickness                        | $t^{0.02}$<br>(0.87)<br>(0.87)      | 22<br>(0.87)   | 22<br>(0.87)   | 22<br>(0.87)   | 24<br>(0.94)    | 24<br>(0.94)   | 26<br>(1.10)   | 26<br>(1.10)    | 26<br>(1.10)     | 26<br>(1.10)   | 26<br>(1.10)   | 26<br>(1.10)   | 26<br>(1.10)            | 26<br>(1.10)    | 26<br>(1.10)    | 26<br>(1.10)    | 26<br>(1.10)            | 26<br>(1.10)    | 26<br>(1.10)    | 26<br>(1.10)    | 26<br>(1.10)      | 26<br>(1.10)    | 26<br>(1.10)    | 26<br>(1.10)    | 26<br>(1.10)    |                 |                 |                 |                |                |
|                    | Inner diameter of Grounding ring | $\phi d$<br>(2.60)<br>(2.60)        | 66<br>(3.03)   | 77<br>(3.02)   | 102<br>(4.02)  | 128<br>(5.04)   | 66<br>(2.60)   | 77<br>(3.03)   | 102<br>(4.02)   | 128<br>(5.04)    | 77<br>(3.03)   | 102<br>(4.02)  | 128<br>(5.04)  | 66<br>(2.60)            | 77<br>(3.03)    | 102<br>(4.02)   | 128<br>(5.04)   | 66<br>(2.60)            | 77<br>(3.03)    | 102<br>(4.02)   | 128<br>(5.04)   | 66<br>(2.60)      | 77<br>(3.03)    | 102<br>(4.02)   | 128<br>(5.04)   | 66<br>(2.60)    | 77<br>(3.03)    | 102<br>(4.02)   |                 |                |                |
|                    | Pitch circle dia.                | $\phi C$<br>(5.51)<br>(5.51)        | 140<br>(5.91)  | 150<br>(6.89)  | 175<br>(8.27)  | 210<br>(9.84)   | 140<br>(5.91)  | 160<br>(6.89)  | 185<br>(8.27)   | 225<br>(9.84)    | 168<br>(8.27)  | 195<br>(9.84)  | 220<br>(10.63) | 139.7<br>(7.00)         | 152.4<br>(7.00) | 190.5<br>(7.00) | 213.9<br>(7.00) | 190.5<br>(7.00)         | 213.9<br>(7.00) | 190.5<br>(7.00) | 213.9<br>(7.00) | 190.5<br>(7.00)   | 213.9<br>(7.00) | 190.5<br>(7.00) | 213.9<br>(7.00) | 190.5<br>(7.00) | 213.9<br>(7.00) | 190.5<br>(7.00) | 213.9<br>(7.00) |                |                |
| Integral flowmeter | Bolt hole interval               | $\theta^\circ$                      | 45             | 22.5           | 22.5           | 22.5            | 22.5           | 22.5           | 22.5            | 45               | 45             | 30             | 45             | 45                      | 22.5            | 22.5            | 22.5            | 22.5                    | 22.5            | 22.5            | 45              | 22.5              | 22.5            | 22.5            | 22.5            | 22.5            | 22.5            | 22.5            | 22.5            |                |                |
|                    | Hole dia.                        | $\phi h$                            | 19<br>(0.75)   | 19<br>(0.75)   | 19<br>(0.75)   | 23<br>(0.91)    | 19<br>(0.75)   | 23<br>(0.91)   | 23<br>(0.91)    | 25<br>(0.98)     | 19<br>(0.75)   | 19<br>(0.75)   | 19<br>(0.75)   | 19<br>(0.75)            | 19<br>(0.75)    | 19<br>(0.75)    | 19<br>(0.75)    | 19<br>(0.75)            | 19<br>(0.75)    | 19<br>(0.75)    | 22.4<br>(0.88)  | 22.4<br>(0.88)    | 22.4<br>(0.88)  | 22.4<br>(0.88)  | 18<br>(0.71)    | 18<br>(0.71)    | 18<br>(0.71)    | 18<br>(0.71)    |                 |                |                |
| Remote flowtube    | Number of holes                  | N                                   | 4              | 8              | 8              | 8               | 8              | 8              | 8               | 4                | 4              | 6              | 4              | 4                       | 8               | 8               | 8               | 8                       | 8               | 8               | 4               | 8                 | 8               | 8               | 8               | 8               | 8               | 8               |                 |                |                |
|                    | Height                           | H1                                  | 175<br>(6.87)  | 185<br>(7.29)  | 211<br>(8.30)  | 245<br>(9.65)   | 175<br>(6.87)  | 193<br>(7.59)  | 218<br>(8.59)   | 255<br>(10.04)   | 198<br>(7.80)  | 225<br>(8.85)  | 252<br>(9.90)  | 176<br>(6.93)           | 188<br>(7.40)   | 220<br>(8.66)   | 247<br>(9.72)   | 182<br>(7.18)           | 197<br>(7.77)   | 233<br>(9.16)   | 260<br>(10.22)  | 180<br>(7.07)     | 193<br>(7.59)   | 216<br>(8.49)   | 245<br>(9.65)   | 180<br>(7.07)   | 193<br>(7.59)   | 216<br>(8.49)   | 245<br>(9.65)   |                |                |
|                    | Height                           | H2                                  | 87<br>(3.43)   | 93<br>(3.65)   | 106<br>(4.16)  | 120<br>(4.73)   | 87<br>(3.43)   | 93<br>(3.65)   | 106<br>(4.16)   | 120<br>(4.73)    | 93<br>(3.43)   | 106<br>(4.16)  | 120<br>(4.73)  | 87<br>(3.43)            | 93<br>(3.65)    | 106<br>(4.16)   | 120<br>(4.73)   | 87<br>(3.43)            | 93<br>(3.65)    | 106<br>(4.16)   | 120<br>(4.73)   | 87<br>(3.43)      | 93<br>(3.65)    | 106<br>(4.16)   | 120<br>(4.73)   | 87<br>(3.43)    | 93<br>(3.65)    | 106<br>(4.16)   | 120<br>(4.73)   |                |                |
|                    | Max. Height                      | Hr                                  | 299<br>(11.75) | 309<br>(12.17) | 335<br>(13.18) | 369<br>(14.53)  | 299<br>(11.75) | 317<br>(12.47) | 342<br>(13.47)  | 379<br>(14.92)   | 322<br>(12.68) | 349<br>(13.73) | 376<br>(14.79) | 300<br>(11.81)          | 312<br>(12.28)  | 344<br>(13.54)  | 371<br>(14.61)  | 306<br>(12.06)          | 321<br>(12.65)  | 357<br>(14.04)  | 384<br>(15.11)  | 304<br>(11.95)    | 317<br>(12.47)  | 340<br>(13.37)  | 369<br>(14.53)  | 304<br>(11.95)  | 317<br>(12.47)  | 340<br>(13.37)  | 369<br>(14.53)  |                |                |
| Integral flowmeter | Weight kg (lb)*3                 | 9.0<br>(4.07)                       | 9.6<br>(4.36)  | 12.4<br>(5.65) | 17.4<br>(7.81) | 9.3<br>(4.16)   | 12.4<br>(5.65) | 16.9<br>(7.61) | 24.7<br>(10.61) | 12.2<br>(5.45)   | 15.5<br>(6.91) | 19.5<br>(8.17) | 10.8<br>(4.71) | 12.9<br>(5.45)          | 17.7<br>(7.35)  | 20.8<br>(8.86)  | 12.6<br>(5.45)  | 16.6<br>(7.01)          | 20.8<br>(8.86)  | 24.4<br>(10.61) | 26.8<br>(11.95) | 34.9<br>(15.52)   | 34.9<br>(15.52) | 10.4<br>(4.63)  | 11.9<br>(5.33)  | 14.5<br>(6.02)  | 19.3<br>(8.49)  | 10.4<br>(4.63)  | 11.9<br>(5.33)  | 14.5<br>(6.02) | 19.3<br>(8.49) |
|                    | Max. Height                      | H1                                  | 336<br>(13.23) | 344<br>(13.65) | 374<br>(14.01) | 390<br>(14.39)  | 332<br>(13.23) | 352<br>(14.01) | 380<br>(14.39)  | 398<br>(14.95)   | 349<br>(16.40) | 376<br>(15.21) | 395<br>(16.08) | 343<br>(13.28)          | 361<br>(13.76)  | 389<br>(15.02)  | 407<br>(16.08)  | 341<br>(13.28)          | 361<br>(13.76)  | 389<br>(15.02)  | 407<br>(16.08)  | 341<br>(13.28)    | 361<br>(13.76)  | 389<br>(15.02)  | 407<br>(16.08)  | 341<br>(13.28)  | 361<br>(13.76)  | 389<br>(15.02)  | 407<br>(16.08)  |                |                |
| Integral flowmeter | Weight kg (lb)                   | 10.7<br>(23.5)                      | 11.3<br>(25.0) | 14.1<br>(31.0) | 19.1<br>(42.0) | 11.0<br>(24.3)  | 14.1<br>(31.0) | 18.6<br>(41.0) | 26.4<br>(58.3)  | 13.9<br>(30.7)   | 17.2<br>(37.8) | 21.2<br>(46.8) | 12.5<br>(27.5) | 14.6<br>(32.2)          | 19.4<br>(42.8)  | 22.5<br>(49.6)  | 14.3<br>(31.4)  | 18.3<br>(40.4)          | 22.5<br>(49.6)  | 26.6<br>(62.8)  | 36.6<br>(80.7)  | 12.3<br>(27.1)    | 13.6<br>(29.9)  | 16.2<br>(35.7)  | 21.0<br>(46.2)  | 12.3<br>(27.1)  | 13.6<br>(29.9)  | 16.2<br>(35.7)  | 21.0<br>(46.2)  |                |                |

\*1: When indicator code N is selected, subtract 12 mm (0.47 inch) from the value in the figure.

In case of explosion proof type with indicator, add 5 mm (0.2 inch) to it.

\*2: Depending on the selection of grounding ring code and optional code, add the following value to "L" (face-to-face length) and "t" (thickness of flange).

|                     | L                               | t        | L        | t                  | L        | t        |
|---------------------|---------------------------------|----------|----------|--------------------|----------|----------|
| Grounding Ring Code | S, L, H, V                      |          | P, T     |                    | N        |          |
| Option Code         | None                            | +0       | +0       | +26(1.02)+13(0.51) | -2(0.08) | -1(0.04) |
|                     | GA, GC, GD<br>(Special Gaskets) | +8(0.31) | +4(0.16) | +30(1.18)+15(0.59) | -        | -        |

\*3: When submersible type or option code DHC is selected, waterproof glands and a 30m long cable are attached.

Add 9.5kg(20.9lb) to the weight in the table.

F31.EPS

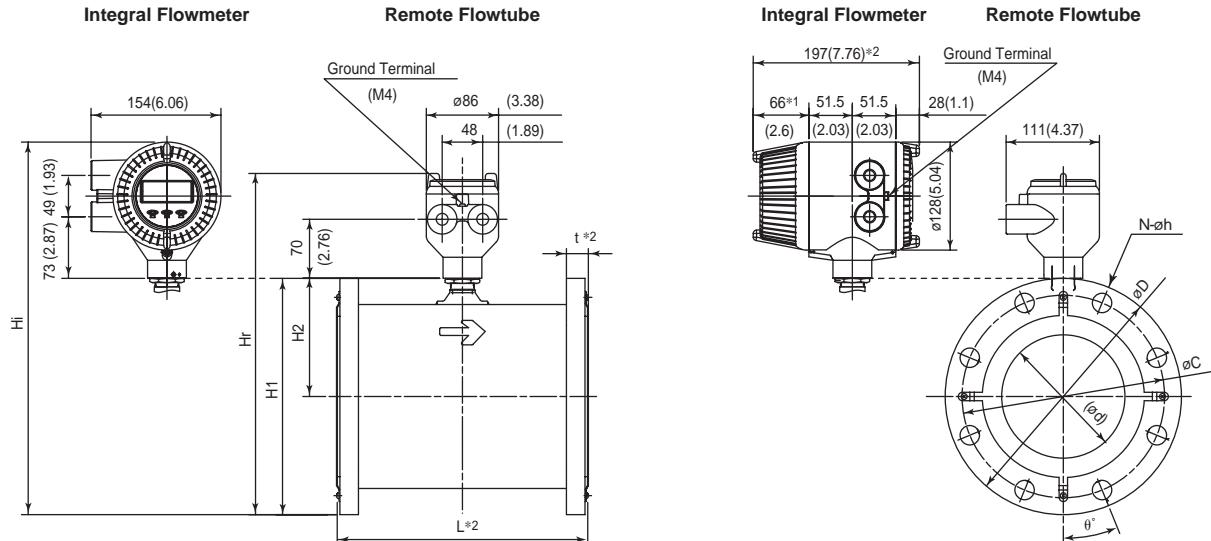
● AXF Standard, AXF150, AXF200, JIS/ANSI/DIN Flange Type, PFA /Polyurethane Rubber /Natural Soft Rubber /EPDM Rubber Lining

AXF150 G D E 1 A U 1  
 AXF200 W N 2 D 2  
 C P N G

\*4: D, E; Integral Flowmeter,  
 N, P; Remote Flowtube

B A □  
 B D □  
 B J □  
 B G 1 1  
 C A □  
 C D □  
 C J □  
 C G 1

Unit : mm (approx. inch)



| Model              | Process Connection               | BJ1/CJ1(JIS10K) |                 | BJ2/CJ2(JIS20K) |                 | BG1/CG1(JIS F12) |                 | BA1/CA1(ANSI Class 150) |                  | BA2/CA2(ANSI Class 300) |                  | BD1/CD1(DIN PN10) |                 | BD2/CD2(DIN PN16) |                 |
|--------------------|----------------------------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|-------------------------|------------------|-------------------------|------------------|-------------------|-----------------|-------------------|-----------------|
|                    |                                  | Size code       |                 | Size            |                 | 150              |                 | 200                     |                  | 150                     |                  | 200               |                 | 200               |                 |
|                    |                                  | Size            |                 | 150<br>(6)      | 200<br>(8)      | 150<br>(6)       | 200<br>(8)      | 150<br>(6)              | 200<br>(8)       | 150<br>(6)              | 200<br>(8)       | 150<br>(6)        | 200<br>(8)      | 200<br>(6)        | 150<br>(8)      |
| Remote flowtube    | Face-to-face length              | L *2            | 300<br>(11.81)  | 350<br>(13.78)  | 300<br>(11.81)  | 350<br>(13.78)   | 300<br>(11.81)  | 350<br>(13.78)          | 300<br>(11.81)   | 350<br>(13.78)          | 300<br>(11.81)   | 350<br>(13.78)    | 350<br>(13.78)  | 300<br>(11.81)    | 350<br>(13.78)  |
|                    | Outside dia.                     | øD              | 280<br>(11.02)  | 330<br>(12.99)  | 305<br>(12.01)  | 350<br>(13.78)   | 290<br>(11.42)  | 342<br>(13.46)          | 279.4<br>(11.00) | 342.9<br>(13.50)        | 317.5<br>(12.50) | 381.0<br>(15.00)  | 340<br>(13.39)  | 285<br>(11.22)    | 340<br>(13.39)  |
|                    | Thickness                        | t *2            | 27<br>(1.06)    | 27<br>(1.06)    | 33<br>(1.30)    | 35<br>(1.38)     | 27<br>(1.06)    | 29<br>(1.14)            | 30.4<br>(1.20)   | 33.4<br>(1.20)          | 43.5<br>(1.31)   | 46.1<br>(1.71)    | 29<br>(1.14)    | 27<br>(1.06)      | 29<br>(1.14)    |
|                    | Inner diameter of Grounding ring | ød              | 146.1<br>(5.75) | 193.6<br>(7.62) | 146.1<br>(5.75) | 193.6<br>(7.62)  | 146.1<br>(5.75) | 193.6<br>(7.62)         | 146.1<br>(5.75)  | 193.6<br>(7.62)         | 146.1<br>(5.75)  | 193.6<br>(7.62)   | 193.6<br>(5.75) | 146.1<br>(7.62)   | 193.6<br>(7.62) |
|                    | Pitch circle dia.                | øC              | 240<br>(9.55)   | 290<br>(11.42)  | 260<br>(10.24)  | 305<br>(12.01)   | 247<br>(9.72)   | 299<br>(11.77)          | 241.3<br>(9.50)  | 298.5<br>(11.75)        | 269.7<br>(10.62) | 330.2<br>(13.00)  | 295<br>(9.45)   | 240<br>(11.61)    | 295<br>(11.61)  |
| Integral flowmeter | Bolt hole interval               | θ °             | 22.5            | 15              | 15              | 15               | 30              | 22.5                    | 22.5             | 22.5                    | 15               | 15                | 22.5            | 22.5              | 15              |
|                    | Hole dia.                        | øh              | 23<br>(0.91)    | 23<br>(0.91)    | 25<br>(0.98)    | 25<br>(0.98)     | 19<br>(0.75)    | 19<br>(0.75)            | 22.4<br>(0.88)   | 22.4<br>(0.88)          | 22.4<br>(0.88)   | 25.4<br>(1.00)    | 22<br>(0.87)    | 22<br>(0.87)      | 22<br>(0.87)    |
|                    | Number of holes                  | N               | 8               | 12              | 12              | 12               | 6               | 8                       | 8                | 8                       | 12               | 12                | 8               | 8                 | 12              |
| Remote flowtube    | Height                           | H1              | 281<br>(11.06)  | 331<br>(13.03)  | 294<br>(11.56)  | 341<br>(13.43)   | 286<br>(11.26)  | 337<br>(13.27)          | 281<br>(11.05)   | 337<br>(13.29)          | 300<br>(11.80)   | 357<br>(14.04)    | 336<br>(13.23)  | 284<br>(11.16)    | 336<br>(13.23)  |
|                    | Height                           | H2              | 141<br>(5.55)   | 166<br>(6.54)   | 141<br>(5.55)   | 166<br>(6.54)    | 141<br>(5.55)   | 166<br>(6.54)           | 141<br>(5.55)    | 166<br>(6.54)           | 141<br>(5.55)    | 166<br>(6.54)     | 141<br>(5.55)   | 166<br>(6.54)     | 141<br>(5.55)   |
|                    | Max. Height                      | Hr              | 405<br>(15.94)  | 455<br>(17.91)  | 418<br>(16.44)  | 465<br>(18.31)   | 410<br>(16.14)  | 461<br>(18.15)          | 403<br>(15.93)   | 461<br>(18.17)          | 424<br>(16.68)   | 481<br>(18.92)    | 460<br>(18.11)  | 408<br>(16.04)    | 460<br>(18.11)  |
| Integral flowmeter | Weight kg (lb) *3                |                 | 27.8<br>(61.3)  | 37.3<br>(82.2)  | 37.3<br>(81.8)  | 51.9<br>(114.4)  | 29.9<br>(65.9)  | 43.2<br>(95.3)          | 30.9<br>(68.0)   | 49.2<br>(108.4)         | 52.5<br>(115.7)  | 78.8<br>(173.7)   | 42.5<br>(93.7)  | 28.7<br>(63.2)    | 41.9<br>(92.5)  |
|                    | Max. Height                      | Hi              | 443<br>(17.42)  | 493<br>(19.39)  | 455<br>(17.91)  | 503<br>(19.78)   | 448<br>(19.62)  | 499<br>(19.63)          | 442<br>(17.41)   | 499<br>(19.64)          | 461<br>(18.16)   | 518<br>(20.39)    | 498<br>(19.59)  | 445<br>(17.52)    | 498<br>(19.59)  |
|                    | Weight kg (lb)                   |                 | 29.5<br>(65.0)  | 39.0<br>(86.0)  | 38.8<br>(85.5)  | 53.6<br>(118.2)  | 31.6<br>(69.7)  | 44.9<br>(99.0)          | 32.6<br>(71.8)   | 50.9<br>(112.2)         | 54.2<br>(119.5)  | 80.5<br>(177.5)   | 44.2<br>(97.5)  | 30.4<br>(66.9)    | 43.6<br>(96.2)  |

\*1: When indicator code N is selected, subtract 12 mm (0.47 inch) from the value in the figure.

In case of explosion proof type with indicator, add 5 mm (0.2 inch) to it.

\*2: Depending on the selection of grounding ring code and optional code, add the following value to "L" (face-to-face length) and "t" (thickness of flange).

|                     | L                               | t         | L        | t                  | L        | t        |
|---------------------|---------------------------------|-----------|----------|--------------------|----------|----------|
| Grounding Ring Code | S, L, H, V                      |           | P, T     |                    | N        |          |
| Option Code         | None                            | +0        | +0       | +34(1.34)+17(0.67) | -2(0.08) | -1(0.04) |
|                     | GA, GC, GD<br>(Special Gaskets) | +10(0.39) | +5(0.20) | +40(1.57)+20(0.79) | -        | -        |

\*3: When submersible type or option code DHC is selected, waterproof glands and a 30m long cable are attached.

Add 9.5kg(20.9lb) to the weight in the table.

F32.EPS

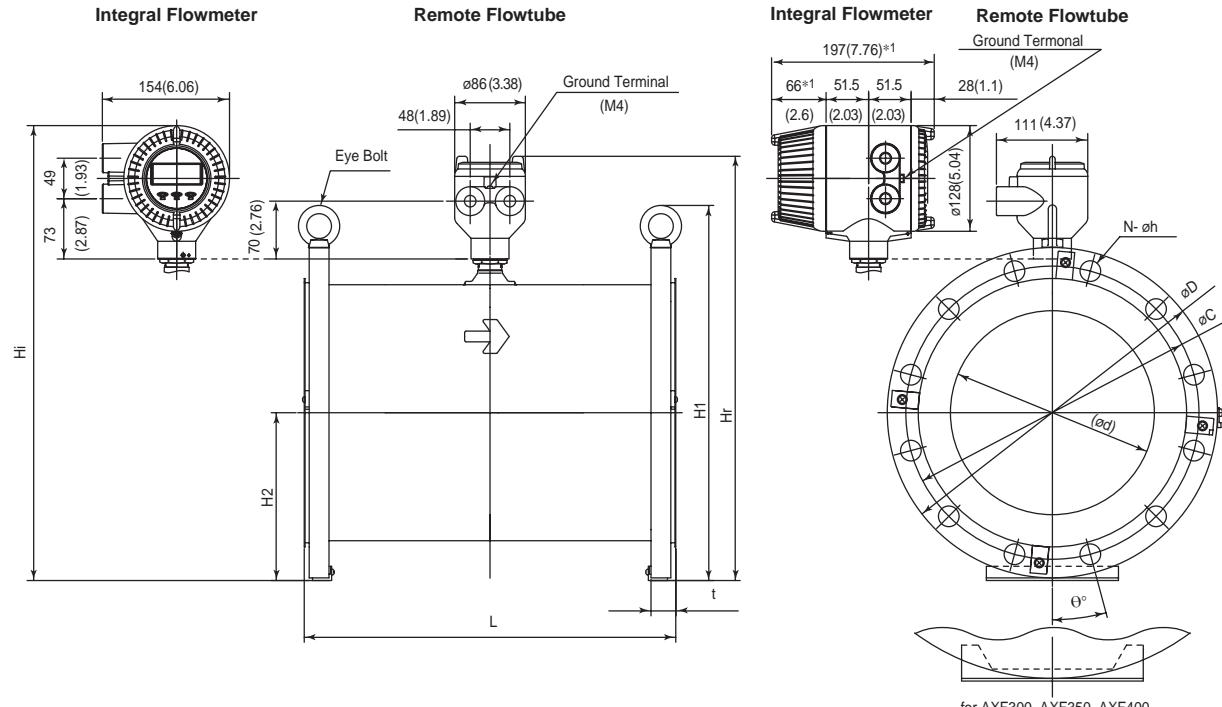
● AXF Standard, AXF250-AXF400, JIS/ANSI/DIN Flange Type, PFA /Polyurethane Rubber /Natural Soft Rubber /EPDM Rubber Lining

AXF250 G D 1 A  
 AXF300 E 1 U 1  
 AXF350 W — N 2 D 2 —  
 AXF400 C P N G

\*4: D, E; Integral Flowmeter,  
N, P; Remote Flowtube

|   |   |   |
|---|---|---|
| B | A | □ |
| B | D | □ |
| B | J | □ |
| B | G | 1 |
| C | A | □ |
| C | D | □ |
| C | J | □ |
| C | G | 1 |

Unit : mm (approx. inch)



| Model                            | Process Connection |                   | BJ1/CJ1(JIS10K) |               |               | BJ2/CJ2(JIS20K) |               |               | BG1/CG1(JIS F12) |               |               | BA1/CA1(ANSI Class 150) |               |               | BA2/CA2(ANSI Class 300) |               |               | BD1/CD1(DIN PN10) |               |               | BD2/CD2(DIN PN16) |               |              |               |               |              |              |
|----------------------------------|--------------------|-------------------|-----------------|---------------|---------------|-----------------|---------------|---------------|------------------|---------------|---------------|-------------------------|---------------|---------------|-------------------------|---------------|---------------|-------------------|---------------|---------------|-------------------|---------------|--------------|---------------|---------------|--------------|--------------|
|                                  | Size code          |                   | 250             | 300           | 350           | 400             | 250           | 300           | 350              | 400           | 250           | 300                     | 350           | 400           | 250                     | 300           | 350           | 400               | 250           | 300           | 350               | 400           | 250          | 300           |               |              |              |
|                                  | Size               |                   | 250 (10)        | 300 (12)      | 350 (14)      | 400 (16)        | 250 (10)      | 300 (12)      | 350 (14)         | 400 (16)      | 250 (10)      | 300 (12)                | 350 (14)      | 400 (16)      | 250 (10)                | 300 (12)      | 350 (14)      | 400 (16)          | 250 (10)      | 300 (12)      | 350 (14)          | 400 (16)      | 250 (10)     | 300 (12)      | 350 (14)      |              |              |
| Lining code                      |                    | A,U               | A,U             | A,U           | A,U           | A,U             | A,U           | A,U           | A,U              | A,U           | A,U           | A,U                     | A,U           | A,U           | A,U                     | A,U           | A,U           | A,U               | A,U           | A,U           | A,U               | A,U           | A,U          | A,U           |               |              |              |
| Face-to-face length              |                    | L <sup>o</sup> *2 | 450 (17.72)     | 500 (19.69)   | 550 (21.65)   | 600 (23.62)     | 450 (17.72)   | 500 (19.69)   | 550 (21.65)      | 600 (23.62)   | 450 (17.72)   | 500 (19.69)             | 550 (21.65)   | 600 (23.62)   | 450 (17.72)             | 500 (19.69)   | 550 (21.65)   | 600 (23.62)       | 450 (17.72)   | 500 (19.69)   | 550 (21.65)       | 600 (23.62)   | 450 (17.72)  | 500 (19.69)   | 550 (21.65)   |              |              |
| Outer dia.                       |                    | øD                | 400 (15.75)     | 445 (17.52)   | 490 (19.29)   | 560 (22.05)     | 430 (16.93)   | 480 (18.90)   | 410 (16.14)      | 464 (18.27)   | 530 (20.87)   | 582 (22.91)             | 406.4 (16.00) | 482.6 (19.00) | 533.4 (21.00)           | 596.9 (21.65) | 444.5 (23.62) | 520.7 (23.50)     | 395 (17.52)   | 445 (17.52)   | 505 (17.52)       | 565 (17.52)   | 405 (17.52)  | 460 (17.52)   | 505 (17.52)   | 565 (17.52)  |              |
| Thickness t                      |                    | t <sup>o</sup> 2  | 32 (1.26)       | 34 (1.34)     | 36 (1.42)     | 38 (1.50)       | 42 (1.65)     | 44 (1.73)     | 32 (1.26)        | 34 (1.34)     | 36 (1.42)     | 36 (1.50)               | 38.2 (1.56)   | 39.7 (1.56)   | 45.0 (1.56)             | 46.5 (1.56)   | 55.7 (1.83)   | 58.8 (2.19)       | 34 (1.34)     | 34 (1.34)     | 36 (1.42)         | 36 (1.42)     | 34 (1.42)    | 36 (1.42)     | 34 (1.42)     | 36 (1.42)    |              |
| Inner diameter of Grounding ring |                    | ød                | 243 (9.57)      | 291.3 (11.47) | 323.4 (12.73) | 373.5 (14.70)   | 243 (9.57)    | 291.3 (11.47) | 323.4 (12.73)    | 373.5 (14.70) | 243 (9.57)    | 291.3 (11.47)           | 323.4 (12.73) | 373.5 (14.70) | 243 (9.57)              | 291.3 (11.47) | 323.4 (12.73) | 373.5 (14.70)     | 243 (9.57)    | 291.3 (11.47) | 323.4 (12.73)     | 373.5 (14.70) | 243 (9.57)   | 291.3 (11.47) | 323.4 (12.73) |              |              |
| Pitch circle dia.                |                    | øC                | 355 (13.98)     | 400 (15.75)   | 445 (17.52)   | 510 (20.08)     | 380 (14.96)   | 430 (16.93)   | 360 (14.17)      | 414 (16.30)   | 472 (18.58)   | 524 (20.63)             | 362.0 (14.25) | 431.8 (17.00) | 476.3 (18.75)           | 539.8 (21.25) | 387.4 (15.25) | 450.9 (17.75)     | 505 (15.75)   | 400 (15.75)   | 460 (15.75)       | 515 (15.75)   | 335 (15.75)  | 410 (15.75)   | 400 (15.75)   | 335 (15.75)  |              |
| Bolt hole interval               |                    | Ø*                | 15              | 11.25         | 11.25         | 11.25           | 11.25         | 22.5          | 18               | 18            | 15            | 15                      | 15            | 15            | 15                      | 15            | 11.25         | 11.25             | 15            | 15            | 11.25             | 11.25         | 15           | 15            | 15            |              |              |
| Hole dia.                        |                    | øh                | 25 (0.98)       | 25 (0.98)     | 25 (0.98)     | 27 (1.06)       | 27 (1.06)     | 23 (0.91)     | 23 (0.91)        | 25 (0.98)     | 25 (1.00)     | 25 (1.00)               | 25 (1.12)     | 25 (1.12)     | 25 (1.12)               | 25 (1.12)     | 22 (0.87)     | 22 (0.87)         | 22 (0.87)     | 22 (0.87)     | 26 (1.02)         | 26 (1.02)     | 26 (1.02)    | 26 (1.02)     | 26 (1.02)     |              |              |
| Number of holes                  |                    | N                 | 12              | 16            | 16            | 16              | 12            | 16            | 8                | 10            | 10            | 12                      | 12            | 12            | 12                      | 16            | 16            | 16                | 12            | 12            | 16                | 16            | 12           | 12            | 12            |              |              |
| Height H1                        |                    | H1                | 447 (17.60)     | 494 (19.45)   | 541 (21.30)   | 602 (23.70)     | 462 (18.19)   | 511 (19.80)   | 503 (20.12)      | 561 (20.43)   | 613 (21.72)   | 450 (20.16)             | 563 (22.09)   | 620 (22.17)   | 563 (24.41)             | 445 (18.46)   | 494 (20.91)   | 549 (17.52)       | 604 (19.45)   | 450 (21.61)   | 501 (23.78)       | 501 (17.72)   | 501 (19.69)  | 501 (23.78)   | 501 (19.69)   |              |              |
| Height H2                        |                    | H2                | 196 (7.72)      | 220 (8.66)    | 236 (9.29)    | 262 (10.30)     | 196 (7.72)    | 220 (8.66)    | 236 (9.29)       | 262 (10.30)   | 196 (7.72)    | 220 (8.66)              | 236 (9.29)    | 262 (10.30)   | 196 (7.72)              | 220 (8.66)    | 236 (9.29)    | 262 (10.30)       | 196 (7.72)    | 220 (8.66)    | 236 (9.29)        | 262 (10.30)   | 196 (7.72)   | 220 (8.66)    | 236 (9.29)    | 262 (10.30)  |              |
| Max. Height Hr                   |                    | Hr                | 520 (20.47)     | 567 (22.30)   | 605 (23.82)   | 666 (26.20)     | 535 (21.06)   | 584 (20.67)   | 525 (22.68)      | 576 (24.61)   | 625 (26.64)   | 577 (26.00)             | 523 (23.04)   | 585 (24.68)   | 684 (26.93)             | 542 (21.35)   | 604 (23.79)   | 518 (20.37)       | 567 (22.30)   | 613 (24.12)   | 668 (26.30)       | 523 (20.57)   | 574 (22.60)  | 523 (20.57)   | 612 (22.60)   |              |              |
| Weight kg (lb)*3                 |                    | 70.0 (154.3)      | 78.0 (172.0)    | 107.0 (235.9) | 135.0 (297.6) | 98.5 (217.2)    | 114.5 (252.4) | 73.4 (161.7)  | 85.0 (187.4)     | 121.2 (267.2) | 137.0 (301.9) | 83.4 (218.0)            | 104.5 (301.8) | 151.5 (230.4) | 180.7 (240.6)           | 176.7 (293.1) | 176.7 (293.1) | 176.7 (293.1)     | 176.7 (293.1) | 79.4 (174.9)  | 79.4 (174.9)      | 79.4 (174.9)  | 79.4 (174.9) | 87.9 (248.0)  | 87.9 (248.0)  | 87.9 (248.0) | 87.9 (248.0) |
| Max. Height Hhi                  |                    | Hhi               | 558 (21.95)     | 604 (23.78)   | 643 (25.30)   | 703 (27.68)     | 573 (22.47)   | 622 (22.15)   | 614 (24.15)      | 663 (26.08)   | 714 (28.11)   | 561 (22.07)             | 623 (24.52)   | 664 (26.15)   | 722 (28.41)             | 580 (22.27)   | 642 (21.85)   | 555 (23.78)       | 604 (25.59)   | 650 (27.78)   | 706 (27.78)       | 560 (22.05)   | 612 (24.07)  | 612 (24.07)   | 612 (24.07)   |              |              |
| Weight kg (lb)                   |                    | 71.7 (158.1)      | 79.7 (175.7)    | 108.7 (239.6) | 136.7 (301.4) | 100.2 (220.9)   | 116.2 (256.2) | 75.1 (165.5)  | 86.7 (191.2)     | 122.9 (270.9) | 138.7 (305.7) | 85.1 (187.6)            | 106.2 (234.2) | 153.2 (337.8) | 186.6 (411.4)           | 134.7 (296.9) | 178.4 (393.3) | 178.4 (393.3)     | 178.4 (393.3) | 81.1 (164.7)  | 114.2 (251.7)     | 131.4 (289.6) | 76.5 (168.7) | 89.6 (197.6)  | 89.6 (197.6)  | 89.6 (197.6) |              |

\*1: When indicator code N is selected, subtract 12 mm (0.47 inch) from the value in the figure.

In case of explosion proof type with indicator, add 5 mm (0.2 inch) to it.

\*2: Depending on the selection of grounding ring code and optional code, add the following value to "L" (face-to-face length) and "t" (thickness of flange).

| Nominal Size: 250 mm to 300 mm |    |    |                  | Nominal Size: 350 mm to 400 mm |                       |    |    |
|--------------------------------|----|----|------------------|--------------------------------|-----------------------|----|----|
| Grounding Ring Code            | L  | t  | L                | t                              | Grounding Ring Code   | L  | t  |
| S, L, H, V                     |    |    | N                |                                | S, L, H, V            |    |    |
| Option Code is "None"          | +0 | +0 | -6(0.24)-3(0.12) |                                | Option Code is "None" | +0 | +0 |

\*3: When submersible type or option code DHC is selected, waterproof glands and a 30m long cable are attached.

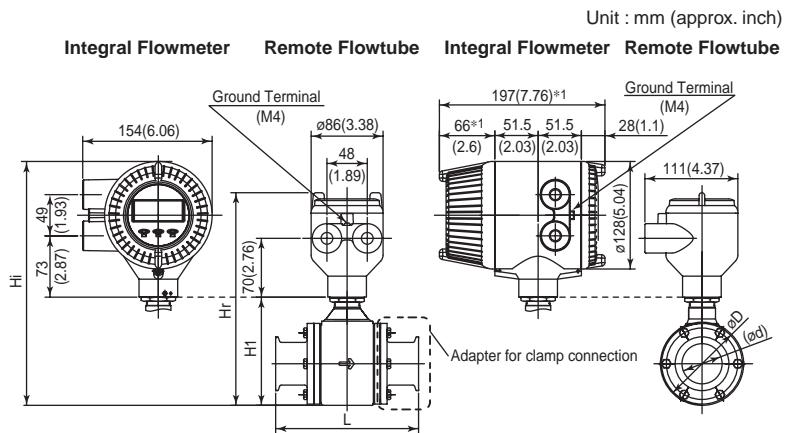
Add 9.5kg(20.9lb) to the weight in the table.

F33.EPS

## ● AXF Standard, AXF015-AXF125, Sanitary for Clamp Connection, PFA Lining

AXF015  
 AXF025  
 AXF032  
 AXF040  
 AXF050 H — \*3 D E 1 N 2 A L 1 N — H D B 1  
 AXF065 P N H K B  
 AXF080  
 AXF100  
 AXF125

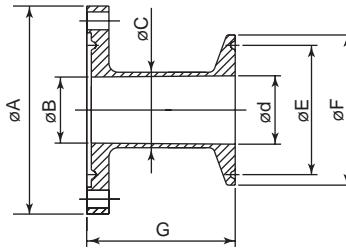
\*3: D, E; Integral Flowmeter,  
N, P; Remote Flowtube



| Model              | Process Connection  |                  | HAB (Tri-Clamp) / HDB (DIN 32676 Clamp) / HKB (ISO2852 Clamp) |                |                |                |                |                |                |                |                 |
|--------------------|---------------------|------------------|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|
|                    | Size code           |                  | 015   | 025            | 032            | 040            | 050            | 065            | 080            | 100            | 125             |
|                    | Size                |                  | 15<br>(0.5)   | 25<br>(1)      | 32<br>(1.3)    | 40<br>(1.5)    | 50<br>(2)      | 65<br>(2.6)    | 80<br>(3)      | 100<br>(4)     | 125<br>(5)      |
|                    | Lining code         |                  | A   | A              | A              | A              | A              | A              | A              | A              | A               |
| Remote flowtube    | Face-to-face length | L <sub>3</sub>   | 166<br>(6.55)   | 166<br>(6.55)  | 166<br>(6.55)  | 166<br>(6.55)  | 176<br>(6.94)  | 196<br>(7.73)  | 216<br>(8.52)  | 246<br>(9.70)  | 316<br>(12.46)  |
|                    | Outside dia.        | ØD               | 73<br>(2.87)  | 73<br>(2.87)   | 73<br>(2.87)   | 86<br>(3.39)   | 99<br>(3.90)   | 117<br>(4.61)  | 129<br>(5.08)  | 155<br>(6.10)  | 183<br>(7.20)   |
|                    | Inner dia.          | HAB              | —<br>(0.87)   | 22.1<br>(1.37) | —<br>(1.37)    | 34.8<br>(1.37) | 47.5<br>(1.87) | 60.2<br>(2.37) | 72.9<br>(2.87) | 97.4<br>(3.83) | —               |
|                    |                     | Ød               | 16<br>(0.63)  | 26<br>(1.02)   | 32<br>(1.26)   | 38<br>(1.50)   | 50<br>(1.97)   | 66<br>(2.60)   | 81<br>(3.19)   | 100<br>(3.94)  | 125<br>(4.92)   |
| Integral flowmeter | Height              | HDB              | 15.2<br>(0.60)  | 22.6<br>(0.89) | 31.3<br>(1.23) | 35.6<br>(1.40) | 48.6<br>(1.91) | 60.3<br>(2.37) | 72.9<br>(2.87) | 97.6<br>(3.84) | 135.7<br>(5.34) |
|                    |                     | HKB              | —<br>(0.87)   | —<br>(1.37)     |
|                    | Height              | H1               | 97<br>(3.82)  | 97<br>(3.82)   | 97<br>(3.82)   | 111<br>(4.37)  | 129<br>(5.08)  | 146<br>(5.75)  | 157<br>(6.18)  | 183<br>(7.20)  | 212<br>(8.35)   |
|                    |                     | Hr               | 221<br>(8.70)   | 221<br>(8.70)  | 221<br>(8.70)  | 235<br>(9.25)  | 253<br>(9.96)  | 270<br>(10.63) | 281<br>(11.06) | 307<br>(12.09) | 336<br>(13.23)  |
| Remote flowtube    | Max. Height         | Weight kg (lb)*2 | 2.7<br>(6.0)  | 2.5<br>(5.5)   | 2.6<br>(5.7)   | 2.9<br>(6.4)   | 3.6<br>(7.9)   | 4.8<br>(10.6)  | 5.7<br>(12.6)  | 8.1<br>(17.9)  | 12.1<br>(26.7)  |
|                    | Max. Height         | Hi               | 259<br>(10.18)  | 259<br>(10.18) | 259<br>(10.18) | 273<br>(10.73) | 291<br>(11.44) | 308<br>(12.11) | 319<br>(12.54) | 345<br>(13.56) | 374<br>(14.70)  |
| Integral flowmeter | Max. Height         | Weight kg (lb)   | 4.4<br>(9.7)  | 4.2<br>(9.3)   | 4.3<br>(9.5)   | 4.6<br>(10.1)  | 5.3<br>(11.7)  | 6.5<br>(14.3)  | 7.4<br>(16.3)  | 9.8<br>(21.6)  | 13.8<br>(30.4)  |
|                    | Max. Height         |                  | —<br>(—)  | —<br>(—)       | —<br>(—)       | —<br>(—)       | —<br>(—)       | —<br>(—)       | —<br>(—)       | —<br>(—)       | —<br>(—)        |

\*1: When indicator code N is selected, subtract 12 mm (0.47 inch) from the value in the figure.

\*2: When option code DHC is selected, waterproof glands and a 30m long cable are attached.



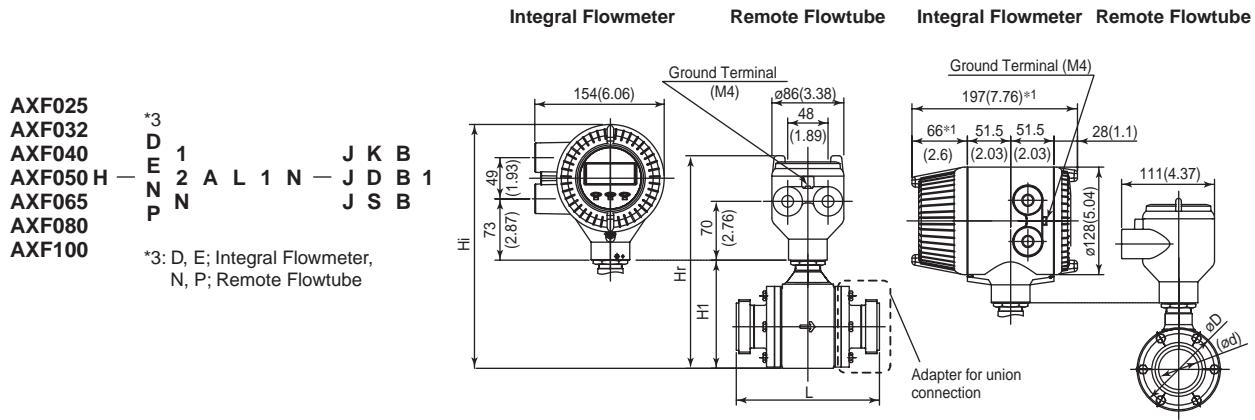
Adapter for clamp connection

| Process Connection | HAB (Tri-Clamp) |                |                |                |                | HDB (DIN 32676 Clamp) |                |                |                |                | HKB (ISO2852 Clamp) |                |                |               |               |             |             |             |             |             |             |             |             |
|--------------------|-----------------|----------------|----------------|----------------|----------------|-----------------------|----------------|----------------|----------------|----------------|---------------------|----------------|----------------|---------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                    | 25              | 40             | 50             | 65             | 80             | 100                   | 15             | 25             | 32             | 40             | 50                  | 65             | 80             | 100           | 125           |             |             |             |             |             |             |             |             |
| ØA                 | 70<br>(2.76)    | 83<br>(3.27)   | 96<br>(3.78)   | 114<br>(4.49)  | 126<br>(4.96)  | 152<br>(5.98)         | 70<br>(2.76)   | 70<br>(2.76)   | 70<br>(2.76)   | 83<br>(3.27)   | 96<br>(4.49)        | 114<br>(4.96)  | 126<br>(5.98)  | 152<br>(7.09) | 180<br>(7.09) |             |             |             |             |             |             |             |             |
| ØB                 | 22.2<br>(0.87)  | 34.6<br>(1.36) | 47.6<br>(1.87) | 59.5<br>(2.34) | 72.3<br>(2.85) | 97<br>(3.82)          | 16<br>(0.63)   | 22.2<br>(1.02) | 29.4<br>(1.26) | 34.6<br>(1.36) | 47.6<br>(1.87)      | 59.5<br>(2.34) | 72.3<br>(2.85) | 97<br>(3.82)  | 123<br>(4.84) |             |             |             |             |             |             |             |             |
| ØC                 | 25.4<br>(1.00)  | 38.1<br>(2.00) | 50.8<br>(2.50) | 63.5<br>(3.00) | 76.2<br>(4.00) | 101.6<br>(4.79)       | 20<br>(0.79)   | 30<br>(1.18)   | 36<br>(1.42)   | 42<br>(1.56)   | 54<br>(2.13)        | 70<br>(2.76)   | 85<br>(3.35)   | 104<br>(4.09) | 129<br>(5.08) |             |             |             |             |             |             |             |             |
| Ød                 | 22.1<br>(0.87)  | 34.8<br>(1.37) | 47.5<br>(1.87) | 60.2<br>(2.37) | 72.9<br>(2.87) | 97.4<br>(3.83)        | 16<br>(0.63)   | 26<br>(1.02)   | 32<br>(1.26)   | 38<br>(1.50)   | 50<br>(1.97)        | 66<br>(2.60)   | 81<br>(3.19)   | 100<br>(3.94) | 125<br>(4.92) |             |             |             |             |             |             |             |             |
| ØE                 | 43.6<br>(1.72)  | 43.6<br>(1.72) | 56.3<br>(2.22) | 70.6<br>(2.78) | 83.3<br>(3.28) | 110.3<br>(4.34)       | 27.5<br>(1.08) | 43.5<br>(1.71) | 43.5<br>(1.71) | 43.5<br>(1.71) | 56.5<br>(2.22)      | 83.5<br>(3.29) | 97<br>(3.82)   | 110<br>(4.33) | 146<br>(5.75) |             |             |             |             |             |             |             |             |
| ØF                 | 50.4<br>(1.98)  | 50.4<br>(1.98) | 64<br>(2.52)   | 77.4<br>(3.05) | 91<br>(3.58)   | 118.9<br>(4.68)       | 34<br>(1.34)   | 50.5<br>(1.99) | 50.5<br>(1.99) | 50.5<br>(1.99) | 64<br>(2.52)        | 91<br>(3.58)   | 106<br>(4.17)  | 119<br>(4.69) | 155<br>(6.10) |             |             |             |             |             |             |             |             |
| G                  | 50<br>(1.97)    | 50<br>(1.97)   | 50<br>(1.97)   | 50<br>(1.97)   | 50<br>(1.97)   | 50<br>(1.97)          | 50<br>(1.97)   | 50<br>(1.97)   | 50<br>(1.97)   | 50<br>(1.97)   | 50<br>(1.97)        | 50<br>(1.97)   | 50<br>(1.97)   | 60<br>(2.36)  | 74<br>(3.05)  |             |             |             |             |             |             |             |             |
| Parts No.          | F9811<br>HV     | F9811<br>HX    | F9811<br>HY    | F9811<br>HZ    | F9811<br>JA    | F9811<br>JB           | F9811<br>JD    | F9811<br>JE    | F9811<br>JF    | F9811<br>JG    | F9811<br>JJ         | F9811<br>JK    | F9811<br>JL    | F9811<br>JM   | F9811<br>JN   | F9811<br>JP | F9811<br>JQ | F9811<br>JR | F9811<br>JS | F9811<br>JT | F9811<br>JU | F9811<br>JV | F9811<br>JW |

F34.EPS

### ● AXF Standard, AXF015-AXF125, Sanitary for Union Connection, PFA Lining

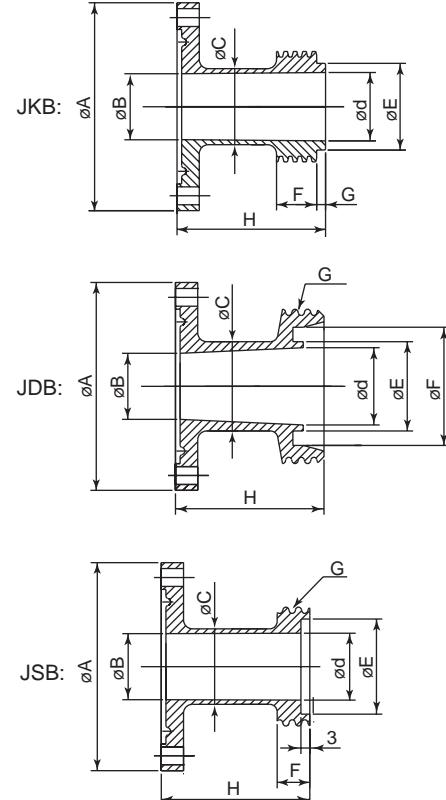
Unit : mm (approx. inch)



| Model              | Process Connection                 |     | JKB (ISO2853 Union) / JDB (DIN 11851 Union) / JSB (SMS1145 Union) |                |                |                |                |                |                |                |                |  |
|--------------------|------------------------------------|-----|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|
|                    | Size code                          |     | 015   | 025            | 032            | 040            | 050            | 065            | 080            | 100            | 125            |  |
|                    | Size                               |     | 15<br>(0.5)   | 25<br>(1)      | 32<br>(1.3)    | 40<br>(1.5)    | 50<br>(2)      | 65<br>(2.6)    | 80<br>(3)      | 100<br>(4)     | 125<br>(5)     |  |
| Remote flowtube    | Face-to-face length L <sup>0</sup> | JKB | 166<br>(6.55)   | 166<br>(6.55)  | 166<br>(6.55)  | 166<br>(6.55)  | 176<br>(6.94)  | 196<br>(7.73)  | 216<br>(8.52)  | 246<br>(9.70)  | —              |  |
|                    |                                    | JDB | 166<br>(6.55)   | 166<br>(6.55)  | 166<br>(6.55)  | 166<br>(6.55)  | 176<br>(6.94)  | 196<br>(7.73)  | 236<br>(9.31)  | 266<br>(10.49) | 326<br>(12.85) |  |
|                    |                                    | JSB | —   | 166<br>(6.55)  | 166<br>(6.55)  | 166<br>(6.55)  | 176<br>(6.94)  | 196<br>(7.73)  | 216<br>(8.52)  | 276<br>(10.88) | —              |  |
| Integral flowmeter | Outside dia.                       | ØD  | 73<br>(2.87)  | 73<br>(2.87)   | 73<br>(2.87)   | 86<br>(3.39)   | 99<br>(3.90)   | 117<br>(4.61)  | 129<br>(5.08)  | 155<br>(6.10)  | 183<br>(7.20)  |  |
|                    | Inside dia.                        | JKB | 15.2<br>(0.60)  | 22.6<br>(0.89) | 31.3<br>(1.23) | 35.6<br>(1.40) | 48.6<br>(1.91) | 60.3<br>(2.37) | 72.9<br>(2.87) | 97.6<br>(3.84) | —              |  |
|                    |                                    | JDB | 16<br>(0.63)  | 26<br>(1.02)   | 32<br>(1.26)   | 38<br>(1.50)   | 50<br>(1.97)   | 66<br>(2.60)   | 81<br>(3.19)   | 100<br>(3.94)  | 125<br>(4.92)  |  |
|                    |                                    | JSB | —   | 22.5<br>(0.89) | 29.6<br>(1.17) | 35.5<br>(1.40) | 48.5<br>(1.91) | 60.5<br>(2.38) | 72.9<br>(2.87) | 97.6<br>(3.84) | —              |  |
| Remote flowtube    | Height                             | H1  | 97<br>(3.82)  | 97<br>(3.82)   | 97<br>(3.82)   | 111<br>(4.37)  | 129<br>(5.08)  | 146<br>(5.75)  | 157<br>(6.18)  | 183<br>(7.20)  | 212<br>(8.35)  |  |
|                    | Max. Height                        | Hr  | 221<br>(8.70)   | 221<br>(8.70)  | 221<br>(8.70)  | 235<br>(9.25)  | 253<br>(9.96)  | 270<br>(10.63) | 281<br>(11.06) | 307<br>(12.09) | 336<br>(13.23) |  |
|                    | Weight kg (lb)*2                   |     | 2.6<br>(5.7)  | 2.6<br>(5.7)   | 2.7<br>(6.0)   | 3<br>(6.6)     | 3.8<br>(8.4)   | 4.9<br>(10.8)  | 5.9<br>(13.0)  | 8.2<br>(18.1)  | 13<br>(28.7)   |  |
| Integral flowmeter | Max. Height                        | Hi  | 259<br>(10.18)  | 259<br>(10.18) | 259<br>(10.18) | 273<br>(10.73) | 291<br>(11.44) | 308<br>(12.11) | 319<br>(12.54) | 345<br>(13.56) | 374<br>(14.70) |  |
|                    | Weight kg (lb)                     |     | 4.3<br>(9.5)  | 4.3<br>(9.5)   | 4.4<br>(9.7)   | 4.7<br>(10.4)  | 5.5<br>(12.1)  | 6.6<br>(14.6)  | 7.6<br>(16.8)  | 9.9<br>(21.8)  | 14.7<br>(32.4) |  |

\*1: When indicator code N is selected, subtract 12 mm (0.47 inch) from the value in the figure.

\*2: When option code DHC is selected, waterproof glands and a 30m long cable are attached.



Adapters for union connection

| Process Connection | JKB (ISO2853 Union) |                |                |                |                |                |                |                 |                |                | JDB (DIN 11851 Union) |                |                |                 |                 |               |               |                |                |                | JSB (SMS1145 Union) |                |                |                 |              |              |  |  |  |  |
|--------------------|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|-----------------------|----------------|----------------|-----------------|-----------------|---------------|---------------|----------------|----------------|----------------|---------------------|----------------|----------------|-----------------|--------------|--------------|--|--|--|--|
|                    | 15                  | 25             | 32             | 40             | 50             | 65             | 80             | 100             | 15             | 25             | 32                    | 40             | 50             | 65              | 80              | 100           | 125           | 25             | 32             | 40             | 50                  | 65             | 80             | 100             |              |              |  |  |  |  |
| Nominal Size       | 70<br>(2.76)        | 70<br>(2.76)   | 70<br>(2.76)   | 83<br>(3.27)   | 96<br>(3.78)   | 114<br>(4.49)  | 126<br>(4.96)  | 152<br>(5.98)   | 70<br>(2.76)   | 70<br>(2.76)   | 70<br>(2.76)          | 83<br>(3.27)   | 96<br>(3.78)   | 114<br>(4.49)   | 126<br>(4.96)   | 152<br>(5.98) | 180<br>(7.09) | 70<br>(2.76)   | 70<br>(2.76)   | 83<br>(3.27)   | 96<br>(3.78)        | 114<br>(4.49)  | 126<br>(4.96)  | 152<br>(5.98)   |              |              |  |  |  |  |
| ØA                 | 70<br>(2.76)        | 70<br>(2.76)   | 70<br>(2.76)   | 83<br>(3.27)   | 96<br>(3.78)   | 114<br>(4.49)  | 126<br>(4.96)  | 152<br>(5.98)   | 70<br>(2.76)   | 70<br>(2.76)   | 70<br>(2.76)          | 83<br>(3.27)   | 96<br>(3.78)   | 114<br>(4.49)   | 126<br>(4.96)   | 152<br>(5.98) | 180<br>(7.09) | 70<br>(2.76)   | 70<br>(2.76)   | 83<br>(3.27)   | 96<br>(3.78)        | 114<br>(4.49)  | 126<br>(4.96)  | 152<br>(5.98)   |              |              |  |  |  |  |
| ØB                 | 16<br>(0.63)        | 22.2<br>(0.87) | 29.4<br>(1.16) | 34.6<br>(1.36) | 47.6<br>(1.87) | 59.5<br>(2.34) | 72.3<br>(2.85) | 97<br>(3.82)    | 16<br>(0.63)   | 22.2<br>(0.87) | 29.4<br>(1.16)        | 34.6<br>(1.36) | 47.6<br>(2.34) | 59.5<br>(2.85)  | 72.3<br>(3.82)  | 97<br>(3.82)  | 123<br>(4.84) | 22.2<br>(0.87) | 29.4<br>(1.16) | 34.6<br>(1.36) | 47.6<br>(1.87)      | 59.5<br>(2.34) | 72.3<br>(2.85) | 97<br>(3.82)    |              |              |  |  |  |  |
| ØC                 | 18<br>(0.71)        | 25.6<br>(1.01) | 34.3<br>(1.35) | 38.6<br>(1.52) | 51.6<br>(2.03) | 64.1<br>(2.52) | 76.7<br>(3.02) | 102.5<br>(4.04) | 20<br>(0.79)   | 30<br>(1.18)   | 36<br>(1.42)          | 42<br>(1.65)   | 54<br>(2.13)   | 70<br>(3.55)    | 85<br>(3.55)    | 104<br>(4.09) | 129<br>(5.08) | 25.4<br>(1.00) | 32<br>(1.26)   | 38.1<br>(1.50) | 51<br>(2.01)        | 63.5<br>(2.50) | 76.2<br>(3.00) | 102.5<br>(4.04) |              |              |  |  |  |  |
| Ød                 | 15.2<br>(0.60)      | 22.6<br>(0.89) | 31.3<br>(1.23) | 35.6<br>(1.40) | 48.6<br>(1.91) | 60.3<br>(2.37) | 72.9<br>(2.87) | 97.6<br>(3.84)  | 16<br>(0.63)   | 26<br>(1.02)   | 32<br>(1.26)          | 38<br>(1.50)   | 50<br>(1.97)   | 66<br>(2.60)    | 81<br>(3.19)    | 100<br>(3.94) | 125<br>(4.92) | 22.5<br>(0.89) | 29.6<br>(1.17) | 35.5<br>(1.40) | 48.5<br>(1.91)      | 60.5<br>(2.38) | 72.9<br>(2.87) | 97.6<br>(3.84)  |              |              |  |  |  |  |
| ØE                 | 21.2<br>(0.83)      | 29.2<br>(1.15) | 38.2<br>(1.50) | 42.7<br>(1.68) | 56.2<br>(2.21) | 69.9<br>(2.75) | 82.6<br>(3.25) | 108.7<br>(4.28) | 18<br>(0.71)   | 30<br>(1.18)   | 36<br>(1.42)          | 42<br>(1.65)   | 54<br>(2.13)   | 71<br>(2.80)    | 85<br>(3.35)    | 104<br>(4.09) | 130<br>(5.12) | 32<br>(1.26)   | 40<br>(1.57)   | 48<br>(1.89)   | 61<br>(2.40)        | 73.5<br>(2.89) | 86<br>(3.39)   | 120<br>(4.72)   |              |              |  |  |  |  |
| ØF                 | 13.5<br>(0.53)      | 13.5<br>(0.53) | 13.5<br>(0.53) | 13.5<br>(0.53) | 13.5<br>(0.53) | 13.5<br>(0.53) | 25.8<br>(1.02) | 39.8<br>(1.57)  | 45.8<br>(1.80) | 51.8<br>(2.04) | 63.8<br>(2.51)        | 80.8<br>(3.18) | 94.8<br>(3.73) | 113.8<br>(4.48) | 141.8<br>(5.58) | 11<br>(0.43)  | 13<br>(0.51)  | 15<br>(0.59)   | 15<br>(0.75)   | 19<br>(0.75)   | 30<br>(1.18)        | 30<br>(1.18)   | 30<br>(1.18)   |                 |              |              |  |  |  |  |
| G                  | 3<br>(0.12)         | 3<br>(0.12)    | 3<br>(0.12)    | 3<br>(0.12)    | 3<br>(0.12)    | 3<br>(0.12)    | 3<br>(0.12)    | RD34<br>x1/8"   | RD52<br>x1/6"  | RD65<br>x1/6"  | RD78<br>x1/6"         | RD95<br>x1/6"  | RD110<br>x1/4" | RD130<br>x1/4"  | RD160<br>x1/6"  | RD40<br>x1/6" | RD48<br>x1/6" | RD60<br>x1/6"  | RD70<br>x1/6"  | RD85<br>x1/6"  | RD99<br>x1/6"       | RD132<br>x1/6" |                |                 |              |              |  |  |  |  |
| H                  | 50<br>(1.97)        | 50<br>(1.97)   | 50<br>(1.97)   | 50<br>(1.97)   | 50<br>(1.97)   | 50<br>(1.97)   | 50<br>(1.97)   | 50<br>(1.97)    | 50<br>(1.97)   | 50<br>(1.97)   | 50<br>(1.97)          | 50<br>(1.97)   | 50<br>(1.97)   | 50<br>(1.97)    | 50<br>(1.97)    | 50<br>(1.97)  | 60<br>(2.36)  | 60<br>(2.36)   | 65<br>(2.56)   | 50<br>(1.97)   | 50<br>(1.97)        | 50<br>(1.97)   | 50<br>(1.97)   | 50<br>(1.97)    | 50<br>(1.97) | 50<br>(1.97) |  |  |  |  |
| Parts No.          | F9811<br>LA         | F9811<br>LB    | F9811<br>LC    | F9811<br>LD    | F9811<br>LE    | F9811<br>LF    | F9811<br>LG    | F9811<br>LH     | F9811<br>KR    | F9811<br>KS    | F9811<br>KT           | F9811<br>KU    | F9811<br>KV    | F9811<br>KW     | F9811<br>KX     | F9811<br>KZ   | F9811<br>LL   | F9811<br>LM    | F9811<br>LN    | F9811<br>LP    | F9811<br>LR         |                |                |                 |              |              |  |  |  |  |

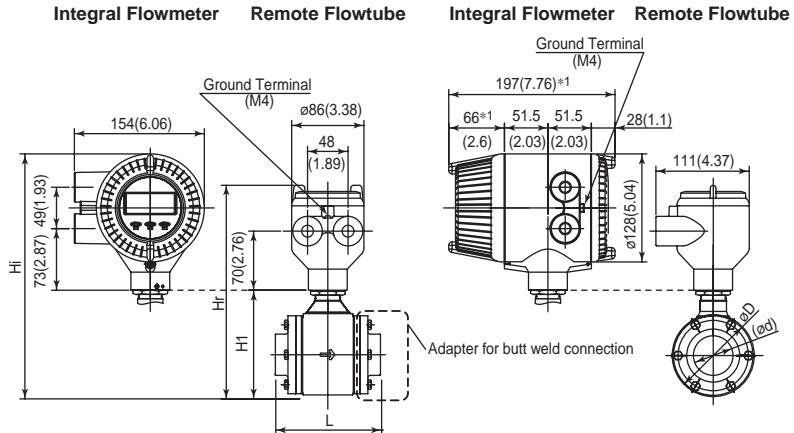
F35.EPS

## ● AXF Standard, AXF015-AXF125, Sanitary for Butt Weld, PFA Lining

Unit : mm (approx. inch)

**AXF015**  
**AXF032** \*3  
**AXF040** D 1  
**AXF050** H - E 2 A L 1 N - K K B 1  
**AXF065** N N  
**AXF080** P  
**AXF100**  
**AXF125**

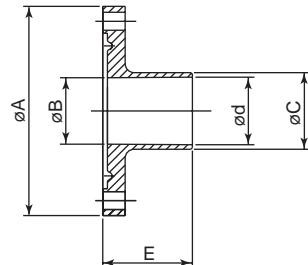
\*3: D, E; Integral Flowmeter,  
N, P; Remote Flowtube



| Model              | Process Connection  |                | KKB (ISO2037 Butt Weld) / KDB (DIN 1185 Butt Weld) |             |             |             |             |             |             |             |              |
|--------------------|---------------------|----------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
|                    | Size code           |                | 015  | 025         | 032         | 040         | 050         | 065         | 080         | 100         | 125          |
|                    | Size                |                | 15 (0.5)   | 25 (1)      | 32 (1.3)    | 40 (1.5)    | 50 (2)      | 65 (2.6)    | 80 (3)      | 100 (4)     | 125 (5)      |
| Remote flowtube    | Lining code         |                | A  | A           | A           | A           | A           | A           | A           | A           | A            |
|                    | Face-to-face length | L <sub>3</sub> | 126 (4.98)   | 126 (4.98)  | 126 (4.98)  | 126 (4.98)  | 136 (5.37)  | 156 (6.16)  | 176 (6.94)  | 206 (8.13)  | 276 (10.88)  |
|                    | Outside dia.        | øD             | 73 (2.87)  | 73 (2.87)   | 73 (2.87)   | 86 (3.39)   | 99 (3.90)   | 117 (4.61)  | 129 (5.08)  | 155 (6.10)  | 183 (7.20)   |
|                    | Inner dia.          | ød             | KKB (0.60)<br>(0.89)                               | 22.6 (1.23) | 31.3 (1.40) | 35.6 (1.91) | 48.6 (2.37) | 60.3 (2.87) | 72.9 (3.84) | 97.6 (5.34) | 135.7 (5.34) |
| Integral flowmeter | Height              | H1             | 97 (3.82)  | 97 (3.82)   | 97 (3.82)   | 111 (4.37)  | 129 (5.08)  | 146 (5.75)  | 157 (6.18)  | 183 (7.20)  | 212 (8.35)   |
|                    | Max. Height         | Hr             | 221 (8.70)   | 221 (8.70)  | 221 (8.70)  | 235 (9.25)  | 253 (9.96)  | 270 (10.63) | 281 (11.06) | 307 (12.09) | 336 (13.23)  |
| Remote flowtube    | Weight kg (lb)*2    |                | 2.6 (5.7)  | 2.3 (5.1)   | 2.5 (5.5)   | 2.8 (6.2)   | 3.4 (7.5)   | 4.5 (9.9)   | 5.3 (11.7)  | 7.1 (15.7)  | 11 (24.3)    |
|                    | Max. Height         | Hi             | 259 (10.18)  | 259 (10.18) | 259 (10.18) | 273 (10.73) | 291 (11.44) | 308 (12.11) | 319 (12.54) | 345 (13.56) | 374 (14.70)  |
| Integral flowmeter | Weight kg (lb)      |                | 4.3 (9.5)  | 4 (8.8)     | 4.2 (9.3)   | 4.5 (9.9)   | 5.1 (11.2)  | 6.2 (13.7)  | 7 (15.4)    | 8.8 (19.4)  | 12.7 (28.0)  |

\*1: When indicator code N is selected, subtract 12 mm (0.47 inch) from the value in the figure.

\*2: When option code DHC is selected, waterproof glands and a 30m long cable are attached.

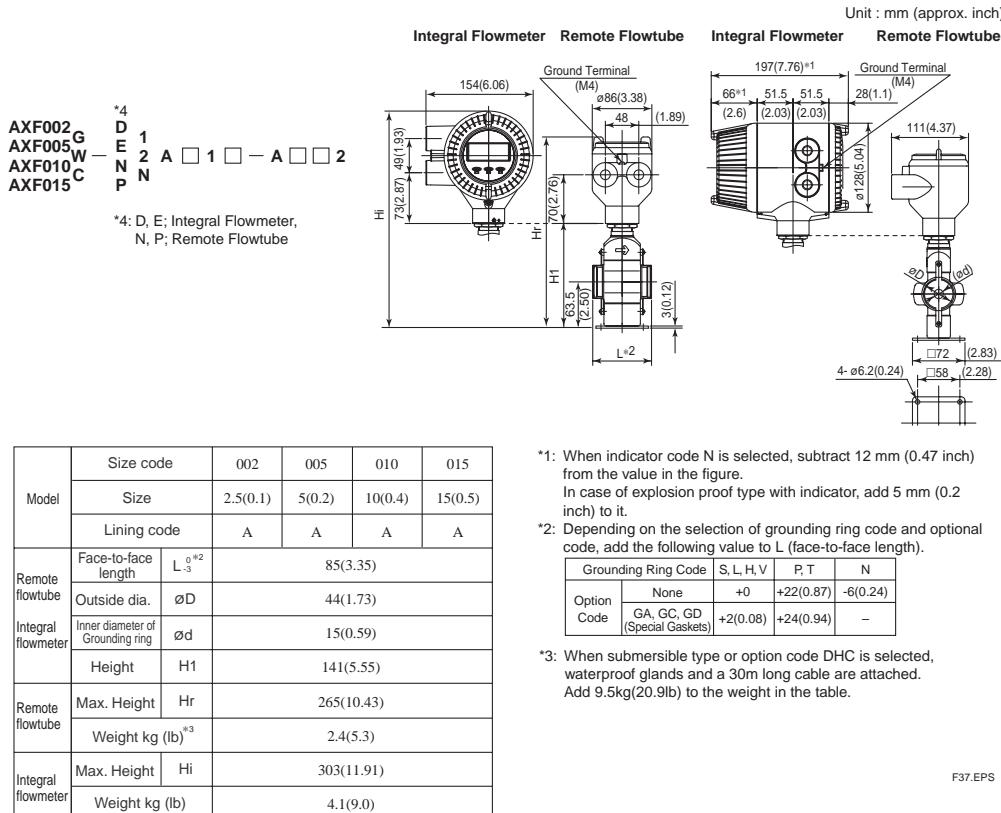


Adapter for butt weld connection

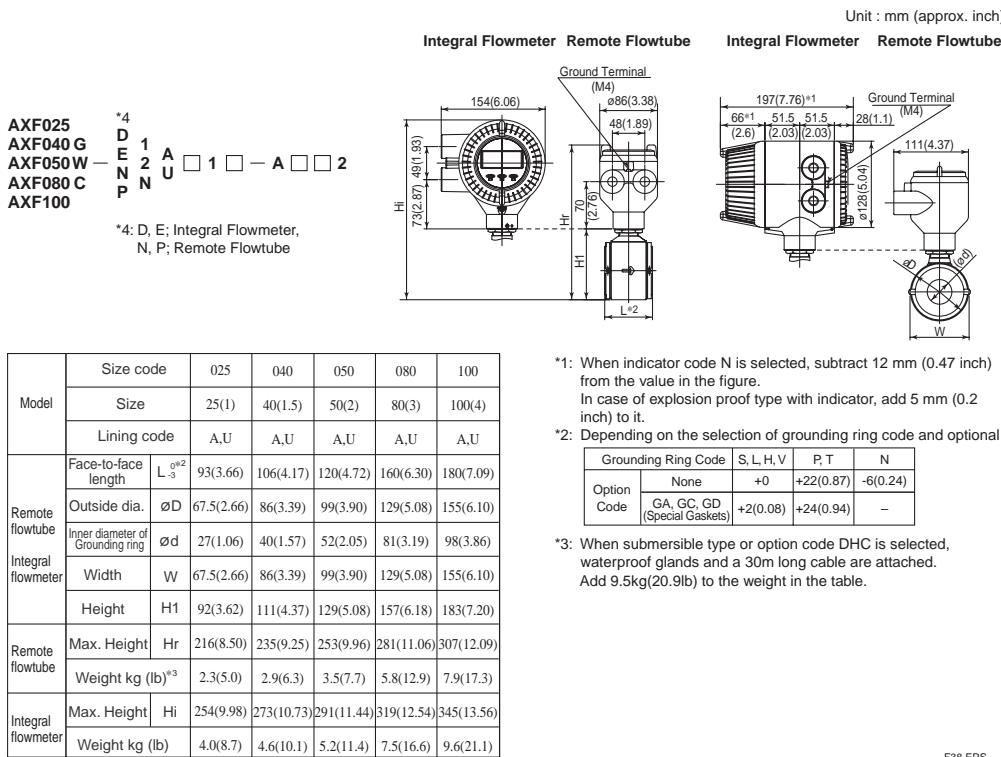
| Process Connection | KKB (ISO2037 Butt Weld) |                |                |                |                |                |                |                 |                 | KDB (DIN 1185 Butt Weld) |                |                |                |                |                |                |               |     |
|--------------------|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|-----|
|                    | 15                      | 25             | 32             | 40             | 50             | 65             | 80             | 100             | 125             | 15                       | 25             | 32             | 40             | 50             | 65             | 80             | 100           | 125 |
| øA<br>(2.76)       | 70<br>(2.76)            | 70<br>(2.76)   | 70<br>(3.27)   | 83<br>(3.78)   | 96<br>(4.49)   | 114<br>(4.96)  | 126<br>(5.98)  | 152<br>(7.09)   | 180<br>(2.76)   | 70<br>(2.76)             | 70<br>(2.76)   | 83<br>(3.27)   | 96<br>(3.78)   | 114<br>(4.49)  | 126<br>(4.96)  | 152<br>(5.98)  | 180<br>(7.09) |     |
| øB<br>(0.63)       | 16<br>(0.87)            | 22.2<br>(1.16) | 29.4<br>(1.36) | 34.6<br>(1.87) | 47.6<br>(2.34) | 59.5<br>(2.85) | 72.3<br>(3.82) | 97<br>(4.84)    | 123<br>(0.63)   | 16<br>(0.87)             | 22.2<br>(1.16) | 29.4<br>(1.36) | 34.6<br>(1.87) | 47.6<br>(2.34) | 59.5<br>(2.85) | 72.3<br>(3.82) | 97<br>(4.84)  |     |
| øC<br>(0.71)       | 18<br>(1.01)            | 25.6<br>(1.35) | 34.3<br>(1.52) | 38.6<br>(2.03) | 51.6<br>(2.52) | 64.1<br>(3.02) | 76.7<br>(4.04) | 102.5<br>(5.56) | 141.2<br>(0.79) | 20<br>(1.18)             | 30<br>(1.42)   | 36<br>(1.65)   | 42<br>(2.13)   | 54<br>(2.76)   | 70<br>(3.35)   | 85<br>(4.09)   | 104<br>(5.08) |     |
| ød<br>(0.60)       | 15.2<br>(0.89)          | 22.6<br>(1.23) | 31.3<br>(1.40) | 35.6<br>(1.91) | 48.6<br>(2.37) | 60.3<br>(2.87) | 72.9<br>(3.84) | 97.6<br>(5.34)  | 135.7<br>(0.63) | 16<br>(1.02)             | 26<br>(1.26)   | 32<br>(1.50)   | 38<br>(1.97)   | 50<br>(2.60)   | 66<br>(3.19)   | 81<br>(3.94)   | 100<br>(4.92) |     |
| E                  | 30<br>(1.18)            | 30<br>(1.18)   | 30<br>(1.18)   | 30<br>(1.18)   | 30<br>(1.18)   | 30<br>(1.18)   | 30<br>(1.18)   | 30<br>(1.18)    | 40<br>(1.57)    | 30<br>(1.18)             | 30<br>(1.18)   | 30<br>(1.18)   | 30<br>(1.18)   | 30<br>(1.18)   | 30<br>(1.18)   | 30<br>(1.18)   | 40<br>(1.57)  |     |
| Parts No.          | F9811<br>NN             | F9811<br>NP    | F9811<br>NQ    | F9811<br>NR    | F9811<br>NS    | F9811<br>NT    | F9811<br>NU    | F9811<br>NV     | F9811<br>NW     | F9811<br>ND              | F9811<br>NE    | F9811<br>NG    | F9811<br>NH    | F9811<br>NJ    | F9811<br>NK    | F9811<br>NL    | F9811<br>NM   |     |

F36.EPS

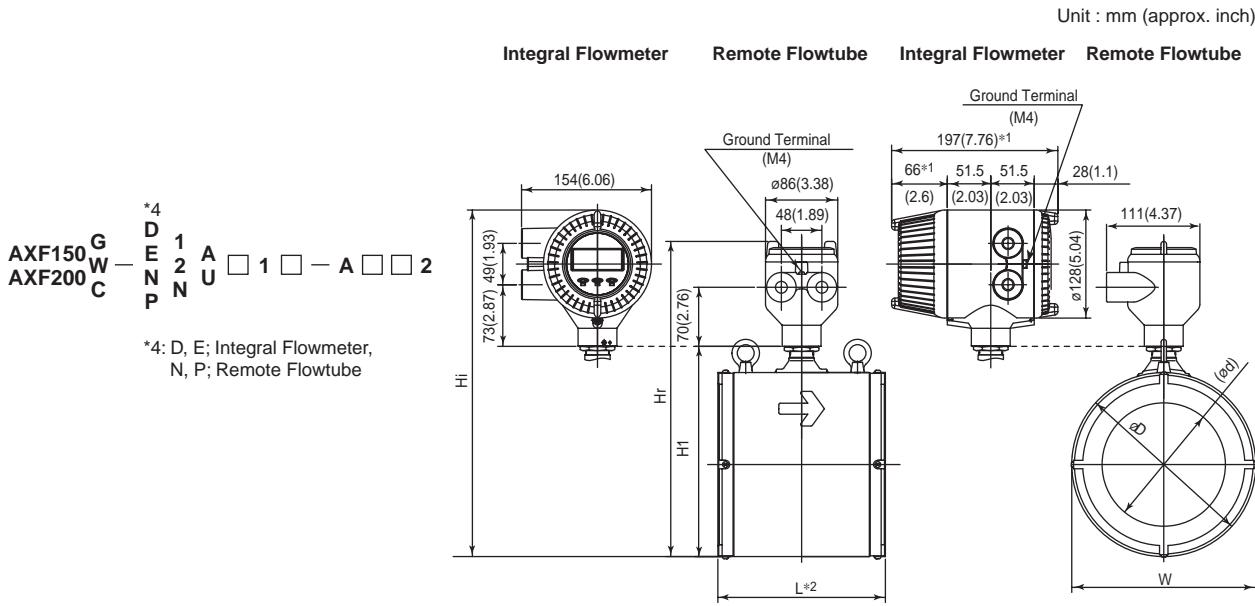
## ● Replacement model for Earlier ADMAG or ADMAG AE, AXF002-AXF015, Wafer Type, PFA Lining



## ● Replacement model for Earlier ADMAG or ADMAG AE, AXF025-AXF100, Wafer Type, PFA /Polyurethane Rubber Lining



● Replacement model for Earlier ADMAG or ADMAG AE, AXF150, AXF200, Wafer Type,  
PFA /Polyurethane Rubber Lining



| Model              | Size code                        |  | 150         | 200         |
|--------------------|----------------------------------|--|-------------|-------------|
|                    | Size                             |  | 150(6)      | 200(8)      |
|                    | Lining code                      |  | A,U         | A,U         |
| Remote flowtube    | Face-to-face length              | L <sup>0</sup> <sup>*2</sup> <sub>-3</sub> | 230(9.06)   | 300(11.81)  |
|                    | Outside dia.                     | ØD   | 202(7.95)   | 252(9.92)   |
|                    | Inner diameter of Grounding ring | Ød   | 140.7(5.54) | 188.9(7.44) |
|                    | Width                            | W  | 202(7.95)   | 252(9.92)   |
|                    | Height                           | H1   | 243(9.57)   | 293(11.54)  |
| Remote flowtube    | Max. Height                      | Hr   | 367(14.45)  | 417(16.42)  |
|                    | Weight kg (lb) <sup>*3</sup>     |  | 17.9(39.5)  | 26.8(59.1)  |
| Integral flowmeter | Max. Height                      | Hi   | 405(15.93)  | 455(17.89)  |
|                    | Weight kg (lb)                   |  | 19.6(43.2)  | 28.5(62.8)  |

\*1: When indicator code N is selected, subtract 12 mm (0.47 inch) from the value in the figure.

In case of explosion proof type with indicator, add 5 mm (0.2 inch) to it.

\*2: Depending on the selection of grounding ring code and optional code, add the following value to L (face-to-face length).

| Grounding Ring Code | S, L, H, V                      | P, T      | N         |
|---------------------|---------------------------------|-----------|-----------|
| Option Code         | None                            | +0        | +30(1.18) |
|                     | GA, GC, GD<br>(Special Gaskets) | +2(0.08)  | -6(0.24)  |
|                     |                                 | +32(1.26) | -         |

\*3: When submersible type or option code DHC is selected, waterproof glands and a 30m long cable are attached. Add 9.5kg(20.9lb) to the weight in the table.

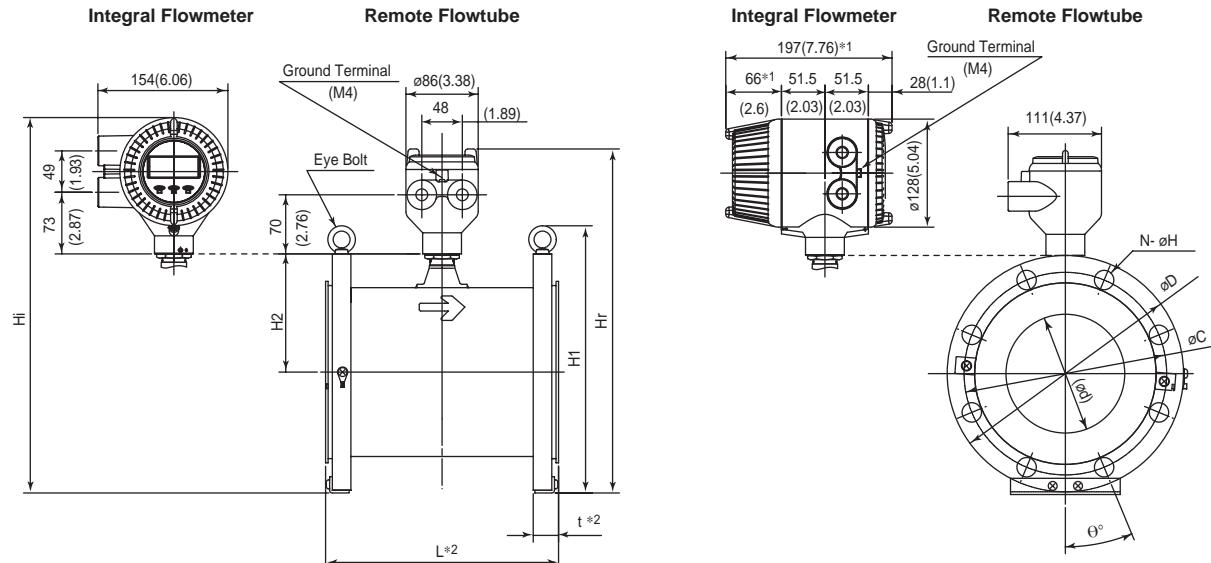
F39.EPS

● Replacement model for Earlier ADMAG or ADMAG AE, AXF150-AXF250, JIS/ANSI/DIN Flange Type, PFA /Polyurethane Rubber Lining

\*4  
 AXF150 G D 1 A 1 C A □  
 AXF200 W E 2 A □ 2 C D □  
 AXF250 C N N U □ 2 C J □  
 AXF250 C P N C G 1 C G 1  
 N, P; Remote Flowtube

\*4: D, E; Integral Flowmeter,  
N, P; Remote Flowtube

Unit : mm (approx. inch)



| Model              | Process Connection               |                | CJ1(JIS10K)      |                  |                  | CJ2(JIS20K)      |                  |                  | CG1(JIS F12)     |                  |                  | CA1(ANSI Class 150) |                  |                  | CA2(ANSI Class 300) |                  |                  | CD1(DIN PN10)    |                  |                  | CD2(DIN PN16)    |                  |                |
|--------------------|----------------------------------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---------------------|------------------|------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------|
|                    | Size code                        |                | 150              | 200              | 250              | 150              | 200              | 250              | 150              | 200              | 250              | 150                 | 200              | 250              | 150                 | 200              | 250              | 200              | 250              | 150              | 200              | 250              |                |
|                    | Size                             |                | 150<br>(6)       | 200<br>(8)       | 250<br>(10)      | 150<br>(6)       | 200<br>(8)       | 250<br>(10)      | 150<br>(6)       | 200<br>(8)       | 250<br>(10)      | 150<br>(6)          | 200<br>(8)       | 250<br>(10)      | 150<br>(6)          | 200<br>(8)       | 250<br>(10)      | 200<br>(8)       | 250<br>(10)      | 150<br>(6)       | 200<br>(8)       | 250<br>(10)      |                |
| Remote flowtube    | Lining code                      |                | A.U                 | A.U              | A.U              | A.U                 | A.U              | A.U              | A.U              | A.U              | A.U              | A.U              | A.U              |                |
|                    | Face-to-face length              | L*2<br>(10.63) | 270.9<br>(13.39) | 340.9<br>(16.93) | 430.9<br>(10.63) | 270.9<br>(13.39) | 340.9<br>(16.93) | 430.9<br>(10.63) | 270.9<br>(13.39) | 340.9<br>(16.93) | 430.9<br>(10.63) | 270.9<br>(13.39)    | 340.9<br>(16.93) | 430.9<br>(10.63) | 270.9<br>(13.39)    | 340.9<br>(16.93) | 430.9<br>(10.63) | 270.9<br>(13.39) | 340.9<br>(16.93) | 430.9<br>(10.63) | 270.9<br>(13.39) | 340.9<br>(16.93) |                |
|                    | Outside dia.                     | øD<br>(11.02)  | 280<br>(12.99)   | 330<br>(15.75)   | 400<br>(12.01)   | 305<br>(13.78)   | 350<br>(16.93)   | 430<br>(11.42)   | 290<br>(13.46)   | 342<br>(16.14)   | 410<br>(11.00)   | 279.4<br>(13.50)    | 342.9<br>(16.00) | 406.4<br>(12.50) | 317.5<br>(15.00)    | 381.0<br>(17.50) | 444.5<br>(13.39) | 340<br>(15.55)   | 395<br>(11.22)   | 285<br>(13.39)   | 340<br>(15.94)   | 340<br>(10.63)   | 340<br>(13.39) |
|                    | Thickness                        | t*2<br>(1.14)  | 29<br>(1.54)     | 32<br>(1.26)     | 35<br>(1.38)     | 37<br>(1.46)     | 42<br>(1.65)     | 27<br>(1.06)     | 29<br>(1.14)     | 32<br>(1.26)     | 34<br>(1.28)     | 32.4<br>(1.39)      | 35.4<br>(1.50)   | 38.2<br>(1.79)   | 45.5<br>(1.89)      | 48.1<br>(2.19)   | 55.7<br>(1.22)   | 31<br>(1.34)     | 34<br>(1.14)     | 29<br>(1.22)     | 31<br>(1.34)     | 34<br>(1.22)     | 34<br>(1.34)   |
|                    | Inner diameter of Grounding ring | ød<br>(5.54)   | 140.7<br>(7.44)  | 188.9<br>(9.41)  | 239.1<br>(5.54)  | 140.7<br>(5.54)  | 188.9<br>(7.44)  | 239.1<br>(9.41)  | 145.4<br>(5.72)  | 192.9<br>(7.59)  | 239.1<br>(9.41)  | 140.7<br>(5.54)     | 188.9<br>(7.44)  | 239.1<br>(9.41)  | 140.7<br>(5.54)     | 188.9<br>(7.44)  | 239.1<br>(9.41)  | 140.7<br>(5.54)  | 188.9<br>(7.44)  | 239.1<br>(9.41)  | 140.7<br>(5.54)  | 188.9<br>(7.44)  |                |
|                    | Pitch circle dia.                | øC<br>(9.45)   | 240<br>(11.42)   | 290<br>(13.98)   | 355<br>(10.24)   | 260<br>(12.01)   | 305<br>(14.96)   | 380<br>(9.72)    | 247<br>(11.77)   | 299<br>(14.17)   | 360<br>(9.50)    | 241.3<br>(11.75)    | 298.5<br>(14.25) | 362.0<br>(10.62) | 269.7<br>(13.00)    | 330.2<br>(15.25) | 387.4<br>(11.61) | 295<br>(13.78)   | 350<br>(9.45)    | 240<br>(11.61)   | 295<br>(13.98)   | 355<br>(11.61)   |                |
|                    | Bolt hole interval               | θ°             | 22.5             | 15               | 15               | 15               | 15               | 15               | 30               | 22.5             | 22.5             | 22.5                | 22.5             | 22.5             | 15                  | 15               | 15               | 11.25            | 22.5             | 15               | 22.5             | 15               |                |
|                    | Hole dia.                        | øh             | 23<br>(0.91)     | 23<br>(0.91)     | 25<br>(0.98)     | 25<br>(0.98)     | 25<br>(0.98)     | 27<br>(1.06)     | 19<br>(0.75)     | 19<br>(0.75)     | 23<br>(0.91)     | 22.4<br>(0.88)      | 22.4<br>(1.00)   | 22.4<br>(0.88)   | 22.4<br>(1.00)      | 25.4<br>(0.88)   | 25.4<br>(1.00)   | 28.4<br>(1.12)   | 22<br>(0.87)     | 22<br>(0.87)     | 22<br>(0.87)     | 22<br>(0.87)     | 26<br>(1.02)   |
|                    | Number of holes                  | N              | 8                | 12               | 12               | 12               | 12               | 12               | 6                | 8                | 8                | 8                   | 8                | 8                | 12                  | 12               | 12               | 16               | 8                | 12               | 8                | 12               | 12             |
|                    | Height                           | H1             | 323<br>(12.72)   | 373<br>(14.69)   | 447<br>(17.60)   | 335<br>(13.19)   | 383<br>(15.08)   | 462<br>(18.19)   | 328<br>(12.91)   | 379<br>(14.92)   | 452<br>(17.80)   | 322<br>(12.68)      | 379<br>(14.92)   | 450<br>(17.72)   | 341<br>(13.43)      | 398<br>(15.67)   | 469<br>(18.46)   | 378<br>(14.88)   | 445<br>(17.52)   | 325<br>(12.80)   | 378<br>(14.88)   | 450<br>(17.72)   |                |
|                    | Height                           | H2             | 141<br>(5.55)    | 166<br>(6.54)    | 196<br>(7.72)    | 141<br>(5.55)    | 166<br>(6.54)    | 196<br>(7.72)    | 141<br>(5.55)    | 166<br>(7.72)    | 196<br>(5.55)    | 141<br>(6.54)       | 166<br>(7.72)    | 196<br>(5.55)    | 141<br>(6.54)       | 166<br>(7.72)    | 196<br>(5.55)    | 141<br>(6.54)    | 166<br>(7.72)    | 196<br>(5.55)    | 141<br>(6.54)    | 166<br>(7.72)    |                |
| Remote flowtube    | Max. Height                      | Hr             | 405<br>(15.94)   | 455<br>(17.91)   | 520<br>(20.47)   | 418<br>(16.44)   | 465<br>(18.31)   | 535<br>(21.06)   | 410<br>(16.14)   | 461<br>(18.15)   | 525<br>(20.67)   | 405<br>(15.93)      | 461<br>(18.17)   | 523<br>(20.60)   | 424<br>(16.68)      | 481<br>(18.92)   | 542<br>(21.35)   | 460<br>(18.11)   | 518<br>(20.37)   | 408<br>(16.04)   | 460<br>(18.11)   | 523<br>(20.57)   |                |
|                    | Weight kg (lb)*3                 |                | 29<br>(63.9)     | 39<br>(86.0)     | 64<br>(141.1)    | 38.3<br>(84.4)   | 53.6<br>(118.2)  | 92.5<br>(203.9)  | 31.1<br>(68.6)   | 44.6<br>(98.3)   | 67.4<br>(148.6)  | 32.1<br>(70.7)      | 50.9<br>(112.2)  | 77.4<br>(170.6)  | 53.7<br>(184.8)     | 80.5<br>(177.5)  | 127.0<br>(279.9) | 44.2<br>(97.5)   | 67.0<br>(147.7)  | 29.9<br>(65.8)   | 43.6<br>(96.2)   | 68.8<br>(151.7)  |                |
| Integral flowmeter | Max. Height                      | Hi             | 443<br>(17.42)   | 493<br>(19.39)   | 558<br>(21.95)   | 455<br>(17.91)   | 503<br>(19.78)   | 573<br>(22.54)   | 448<br>(17.62)   | 499<br>(19.63)   | 563<br>(22.05)   | 442<br>(19.64)      | 499<br>(19.64)   | 561<br>(20.37)   | 461<br>(18.16)      | 518<br>(20.39)   | 580<br>(22.82)   | 498<br>(181.2)   | 555<br>(283.6)   | 445<br>(101.2)   | 498<br>(151.5)   | 560<br>(69.6)    |                |
|                    | Weight kg (lb)                   |                | 30.7<br>(67.7)   | 40.7<br>(89.7)   | 65.7<br>(144.8)  | 40.0<br>(88.2)   | 55.3<br>(121.9)  | 94.2<br>(207.7)  | 32.8<br>(72.3)   | 46.3<br>(102.1)  | 69.1<br>(152.3)  | 33.8<br>(74.4)      | 52.6<br>(115.9)  | 79.1<br>(174.4)  | 55.4<br>(115.9)     | 82.2<br>(174.4)  | 128.7<br>(181.2) | 45.9<br>(283.6)  | 68.7<br>(101.2)  | 31.6<br>(151.5)  | 45.3<br>(69.6)   | 70.5<br>(100.0)  | (155.5)        |

\*1: When indicator code N is selected, subtract 12 mm (0.47 inch) from the value in the figure.

In case of explosion proof type with indicator, add 5 mm (0.2 inch) to it.

\*2: Depending on the selection of grounding ring code and optional code, add the following value to "L" (face-to-face length) and "t" (thickness of flange).

| Nominal Size: 150, 200 mm |                                 |          |          |                                    |   |   |
|---------------------------|---------------------------------|----------|----------|------------------------------------|---|---|
|                           | L                               | t        | L        | t                                  | L | t |
| Grounding Ring Code       | S, L, H, V                      |          | P, T     |                                    | N |   |
| Option Code               | None                            | +0       | +0       | +38(1.50)+19(0.78)-6(0.24)-3(0.12) |   |   |
|                           | GA, GC, GD<br>(Special Gaskets) | +2(0.08) | +1(0.04) | +40(1.58)+20(0.79)                 | - | - |

| Nominal Size: 250 mm |            |    |    |                  |   |  |
|----------------------|------------|----|----|------------------|---|--|
|                      | L          | t  | L  | t                | N |  |
| Grounding Ring Code  | S, L, H, V |    |    |                  | N |  |
| Option Code          | "None"     | +0 | +0 | -6(0.24)-3(0.12) |   |  |

\*3: When submersible type or option code DHC is selected, waterproof glands and a 30m long cable are attached.

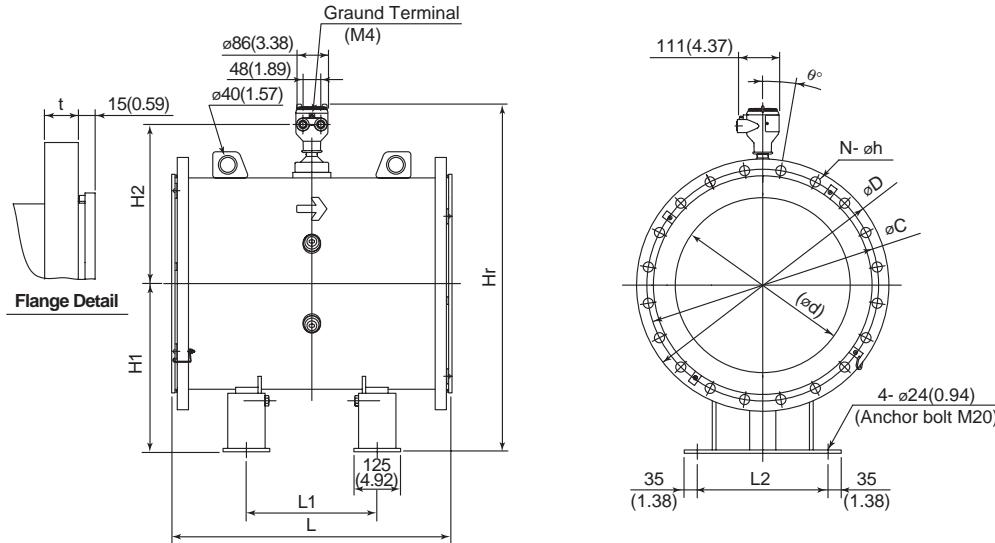
Add 9.5kg(20.9lb) to the weight in the table.

F40.EPS

## ● AXF Standard, AXF500-AXF10L, JIS/ANSI/DIN Flange Type, PFA /Polyurethane Rubber Lining

AXF500  
AXF600  
AXF700 G — NNUL 1S — C□11  
AXF800 W  
AXF900  
AXF10L

Unit : mm (approx. inch)



| Model           | Process Connection               | CJ1(JIS10K) |                |                 |                 |                 |                 |                  |                |                 |                 | CG1(JIS F12)    |                 |                 |                |                 |                 |                 |                 |                 |                 | CA1(ANSI Class 150) |                 |                 |                 |                 | CD1(DIN PN10)   |                 |                 |                 |                 |                 |                |                 |                 |                 |
|-----------------|----------------------------------|-------------|----------------|-----------------|-----------------|-----------------|-----------------|------------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|-----------------|-----------------|
|                 |                                  | Size code   |                | 500             | 600             | 700             | 800             | 900              | 10L            | 500             | 600             | 700             | 800             | 900             | 10L            | 500             | 600             | 700             | 800             | 900             | 10L             | 500                 | 600             | 700             | 800             | 900             | 10L             |                 |                 |                 |                 |                 |                |                 |                 |                 |
|                 |                                  | Size        |                | 500<br>(20)     | 600<br>(24)     | 700<br>(28)     | 800<br>(32)     | 900<br>(36)      | 1000<br>(40)   | 500<br>(20)     | 600<br>(24)     | 700<br>(28)     | 800<br>(32)     | 900<br>(36)     | 1000<br>(40)   | 500<br>(20)     | 600<br>(24)     | 700<br>(28)     | 800<br>(32)     | 900<br>(36)     | 1000<br>(40)    | 500<br>(20)         | 600<br>(24)     | 700<br>(28)     | 800<br>(32)     | 900<br>(36)     | 1000<br>(40)    |                 |                 |                 |                 |                 |                |                 |                 |                 |
| Remote Flowtube | Lining code                      | U           | U              | U               | U               | U               | U               | U                | U              | U               | U               | U               | U               | U               | U              | U               | U               | U               | U               | U               | U               | U                   | U               | U               | U               | U               | U               | U               | U               |                 |                 |                 |                |                 |                 |                 |
|                 | Face-to-face length              | L           | 750<br>(29.53) | 800<br>(31.50)  | 900<br>(35.43)  | 1050<br>(41.34) | 1200<br>(47.24) | 1300<br>(51.18)  | 750<br>(29.53) | 800<br>(31.50)  | 900<br>(35.43)  | 1050<br>(41.34) | 1200<br>(47.24) | 1300<br>(51.18) | 750<br>(29.53) | 800<br>(31.50)  | 900<br>(35.43)  | 1050<br>(41.34) | 1200<br>(47.24) | 1300<br>(51.18) | 750<br>(29.53)  | 800<br>(31.50)      | 900<br>(35.43)  | 1050<br>(41.34) | 1200<br>(47.24) | 1300<br>(51.18) | 750<br>(29.53)  | 800<br>(31.50)  | 900<br>(35.43)  | 1050<br>(41.34) | 1200<br>(47.24) | 1300<br>(51.18) |                |                 |                 |                 |
|                 | Support interval                 | L1          | 350<br>(13.78) | 400<br>(15.75)  | 450<br>(17.72)  | 550<br>(21.65)  | 700<br>(27.56)  | 800<br>(31.50)   | 350<br>(13.78) | 400<br>(15.75)  | 450<br>(17.72)  | 550<br>(21.65)  | 700<br>(27.56)  | 800<br>(31.50)  | 350<br>(13.78) | 400<br>(15.75)  | 450<br>(17.72)  | 550<br>(21.65)  | 700<br>(27.56)  | 800<br>(31.50)  | 350<br>(13.78)  | 400<br>(15.75)      | 450<br>(17.72)  | 550<br>(21.65)  | 700<br>(27.56)  | 800<br>(31.50)  | 350<br>(13.78)  | 400<br>(15.75)  | 450<br>(17.72)  | 550<br>(21.65)  | 700<br>(27.56)  | 800<br>(31.50)  |                |                 |                 |                 |
|                 | Mounting bolt interval           | L2          | 350<br>(13.78) | 400<br>(15.75)  | 500<br>(19.69)  | 550<br>(21.65)  | 650<br>(25.59)  | 700<br>(27.56)   | 350<br>(13.78) | 400<br>(15.75)  | 450<br>(17.72)  | 500<br>(21.65)  | 650<br>(25.59)  | 700<br>(27.56)  | 350<br>(13.78) | 400<br>(15.75)  | 450<br>(17.72)  | 500<br>(21.65)  | 650<br>(25.59)  | 700<br>(27.56)  | 350<br>(13.78)  | 400<br>(15.75)      | 450<br>(17.72)  | 500<br>(21.65)  | 650<br>(25.59)  | 700<br>(27.56)  | 350<br>(13.78)  | 400<br>(15.75)  | 450<br>(17.72)  | 500<br>(21.65)  | 650<br>(25.59)  | 700<br>(27.56)  |                |                 |                 |                 |
|                 | Outside dia.                     | øD          | 675<br>(26.77) | 795<br>(31.30)  | 905<br>(35.63)  | 1020<br>(40.16) | 1135<br>(46.02) | 1235<br>(48.42)  | 706<br>(27.30) | 810<br>(31.80)  | 920<br>(34.50)  | 1034<br>(40.16) | 1156<br>(45.21) | 1262<br>(49.99) | 706<br>(27.30) | 810<br>(31.80)  | 920<br>(34.50)  | 1034<br>(40.16) | 1156<br>(45.21) | 1262<br>(49.99) | 706<br>(27.30)  | 810<br>(31.80)      | 920<br>(34.50)  | 1034<br>(40.16) | 1156<br>(45.21) | 1262<br>(49.99) | 706<br>(27.30)  | 810<br>(31.80)  | 920<br>(34.50)  | 1034<br>(40.16) | 1156<br>(45.21) | 1262<br>(49.99) |                |                 |                 |                 |
|                 | Thickness                        | t           | 30<br>(1.18)   | 32<br>(1.26)    | 34<br>(1.34)    | 36<br>(1.42)    | 38<br>(1.50)    | 40<br>(1.57)     | 30<br>(1.30)   | 33<br>(1.30)    | 35<br>(1.38)    | 37<br>(1.46)    | 39<br>(1.54)    | 41<br>(1.61)    | 30<br>(1.30)   | 33<br>(1.30)    | 35<br>(1.38)    | 37<br>(1.46)    | 39<br>(1.54)    | 41<br>(1.61)    | 30<br>(1.30)    | 33<br>(1.30)        | 35<br>(1.38)    | 37<br>(1.46)    | 39<br>(1.54)    | 41<br>(1.61)    | 30<br>(1.30)    | 33<br>(1.30)    | 35<br>(1.38)    | 37<br>(1.46)    | 39<br>(1.54)    | 41<br>(1.61)    |                |                 |                 |                 |
|                 | Inner diameter of Grounding ring | ød          | 468<br>(18.43) | 563<br>(22.17)  | 665<br>(26.18)  | 765<br>(30.12)  | 855<br>(33.66)  | 942<br>(37.09)   | 485<br>(19.09) | 589<br>(23.19)  | 689<br>(27.13)  | 788<br>(31.02)  | 888<br>(34.96)  | 990<br>(38.98)  | 468<br>(18.43) | 563<br>(22.17)  | 665<br>(26.18)  | 765<br>(30.12)  | 855<br>(33.66)  | 942<br>(37.09)  | 468<br>(18.43)  | 563<br>(22.17)      | 665<br>(26.18)  | 765<br>(30.12)  | 855<br>(33.66)  | 942<br>(37.09)  | 468<br>(18.43)  | 563<br>(22.17)  | 665<br>(26.18)  | 765<br>(30.12)  | 855<br>(33.66)  | 942<br>(37.09)  |                |                 |                 |                 |
|                 | Pitch circle dia.                | øC          | 620<br>(24.41) | 730<br>(28.74)  | 840<br>(33.07)  | 950<br>(37.40)  | 1050<br>(41.34) | 1160<br>(45.67)  | 639<br>(25.16) | 743<br>(29.25)  | 854<br>(33.62)  | 960<br>(37.80)  | 1073<br>(42.24) | 1179<br>(46.42) | 635<br>(25.00) | 743<br>(29.50)  | 854<br>(34.41)  | 960<br>(38.54)  | 1073<br>(42.41) | 1179<br>(46.42) | 635<br>(25.00)  | 743<br>(29.50)      | 854<br>(34.41)  | 960<br>(38.54)  | 1073<br>(42.41) | 1179<br>(46.42) | 635<br>(25.00)  | 743<br>(29.50)  | 854<br>(34.41)  | 960<br>(38.54)  | 1073<br>(42.41) | 1179<br>(46.42) |                |                 |                 |                 |
|                 | Bolt hole interval               | θ           | 9              | 7.5             | 7.5             | 6.4             | 6.4             | 6.4              | 15             | 11.25           | 11.25           | 9               | 9               | 7.5             | 9              | 9               | 9               | 9               | 9               | 9               | 9               | 9                   | 9               | 9               | 9               | 9               | 9               | 9               | 9               | 9               | 9               |                 |                |                 |                 |                 |
|                 | Hole dia.                        | øh          | 27<br>(1.06)   | 33<br>(1.30)    | 33<br>(1.30)    | 33<br>(1.30)    | 39<br>(1.30)    | 27<br>(1.06)     | 27<br>(1.06)   | 33<br>(1.30)    | 33<br>(1.30)    | 33<br>(1.30)    | 33<br>(1.30)    | 33<br>(1.30)    | 31.7<br>(1.25) | 35<br>(1.38)    | 26<br>(1.02)    | 30<br>(1.18)    | 30<br>(1.18)    | 33<br>(1.30)    | 33<br>(1.30)    | 33<br>(1.30)        | 33<br>(1.30)    | 33<br>(1.30)    | 33<br>(1.30)    | 33<br>(1.30)    | 33<br>(1.30)    | 33<br>(1.30)    | 33<br>(1.30)    | 33<br>(1.30)    | 33<br>(1.30)    | 33<br>(1.30)    | 33<br>(1.30)   |                 |                 |                 |
|                 | Number of holes                  | N           | 20             | 24              | 24              | 28              | 28              | 28               | 12             | 16              | 16              | 20              | 20              | 24              | 20             | 20              | 20              | 20              | 24              | 24              | 24              | 24                  | 24              | 24              | 24              | 24              | 24              | 24              | 24              | 24              | 24              | 24              |                |                 |                 |                 |
|                 | Height                           | H1          | 450<br>(17.72) | 500<br>(19.69)  | 550<br>(21.65)  | 600<br>(23.62)  | 650<br>(25.59)  | 700<br>(27.56)   | 450<br>(17.72) | 500<br>(19.69)  | 550<br>(21.65)  | 600<br>(23.62)  | 650<br>(25.59)  | 700<br>(27.56)  | 450<br>(17.72) | 500<br>(19.69)  | 550<br>(21.65)  | 600<br>(23.62)  | 650<br>(25.59)  | 700<br>(27.56)  | 450<br>(17.72)  | 500<br>(19.69)      | 550<br>(21.65)  | 600<br>(23.62)  | 650<br>(25.59)  | 700<br>(27.56)  | 450<br>(17.72)  | 500<br>(19.69)  | 550<br>(21.65)  | 600<br>(23.62)  | 650<br>(25.59)  | 700<br>(27.56)  |                |                 |                 |                 |
|                 | Height                           | H2          | 426<br>(16.77) | 474<br>(18.66)  | 529<br>(20.83)  | 584<br>(22.99)  | 633<br>(24.92)  | 682<br>(26.85)   | 435<br>(17.13) | 486<br>(19.13)  | 536<br>(21.10)  | 589<br>(23.19)  | 645<br>(25.39)  | 700<br>(27.44)  | 697<br>(16.77) | 426<br>(18.66)  | 474<br>(16.77)  | 529<br>(20.83)  | 584<br>(22.99)  | 633<br>(24.92)  | 682<br>(26.85)  | 435<br>(17.13)      | 486<br>(19.13)  | 536<br>(21.10)  | 589<br>(23.19)  | 645<br>(25.39)  | 700<br>(27.44)  | 697<br>(16.77)  | 426<br>(18.66)  | 474<br>(16.77)  | 529<br>(20.83)  | 584<br>(22.99)  | 633<br>(24.92) | 682<br>(26.85)  |                 |                 |
|                 | Max. Height                      | Hr          | 930<br>(36.61) | 1028<br>(40.47) | 1133<br>(44.61) | 1238<br>(48.74) | 1337<br>(52.64) | 1436<br>(56.54)  | 939<br>(36.97) | 1040<br>(40.94) | 1140<br>(44.88) | 1243<br>(48.94) | 1349<br>(53.11) | 1451<br>(57.13) | 930<br>(36.61) | 1028<br>(40.47) | 1133<br>(44.61) | 1238<br>(48.74) | 1337<br>(52.64) | 1436<br>(56.54) | 930<br>(36.61)  | 1028<br>(40.47)     | 1133<br>(44.61) | 1238<br>(48.74) | 1337<br>(52.64) | 1436<br>(56.54) | 930<br>(36.61)  | 1028<br>(40.47) | 1133<br>(44.61) | 1238<br>(48.74) | 1337<br>(52.64) | 1436<br>(56.54) |                |                 |                 |                 |
|                 | Weight kg (lb) <sup>v1</sup>     |             | 260<br>(573.2) | 400<br>(881.8)  | 510<br>(1124.4) | 680<br>(1499.1) | 870<br>(1918.0) | 1200<br>(2645.5) | 245<br>(540.1) | 300<br>(661.4)  | 450<br>(992.1)  | 620<br>(1366.9) | 770<br>(1697.6) | 980<br>(2160.5) | 360<br>(793.7) | 450<br>(992.1)  | 525<br>(1557.8) | 360<br>(842.2)  | 450<br>(1080.3) | 525<br>(1452.8) | 360<br>(1860.7) | 450<br>(2557.4)     | 360<br>(842.2)  | 450<br>(1080.3) | 525<br>(1452.8) | 360<br>(1860.7) | 450<br>(2557.4) | 360<br>(842.2)  | 450<br>(1080.3) | 525<br>(1452.8) | 360<br>(1860.7) | 450<br>(2557.4) | 360<br>(842.2) | 450<br>(1080.3) | 525<br>(1452.8) | 360<br>(1860.7) |

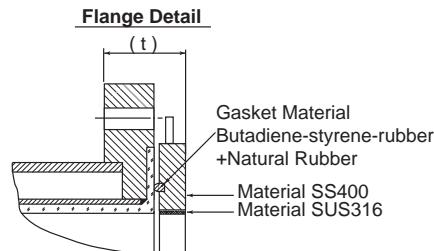
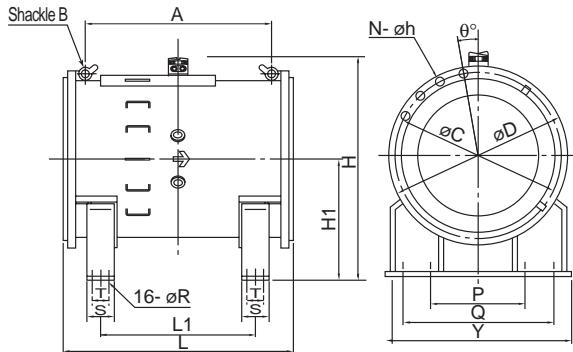
\*1: When submersible type or option code DHC is selected, waterproof glands and a 30m long cable are attached.

F48.EPS

Add 9.5kg(20.9lb) to the weight in the table.

### ● AXF Standard, AXF11L-AXF13L, JIS Flange Type, Polyurethane Rubber Lining

AXF11L G  
AXF12L W — NNUL 1S — CG11  
AXF13L



| Model           | Process Connection           |                 | CG1(JIS F12)                     |                                  |                                  |
|-----------------|------------------------------|-----------------|----------------------------------|----------------------------------|----------------------------------|
|                 | Size code                    |                 | 11L                              | 12L                              | 13L                              |
|                 | Size                         | Code            | 1100<br>(44)                     | 1200<br>(48)                     | 1350<br>(54)                     |
|                 | Lining code                  | U               | U                                | U                                | U                                |
| Shackle         | Face-to-face length          | L               | 1650 <sup>0</sup> -10<br>(64.96) | 1800 <sup>0</sup> -10<br>(70.87) | 2025 <sup>0</sup> -10<br>(79.72) |
|                 | Interval                     | A               | 1325<br>(52.17)                  | 1470<br>(57.87)                  | 1640<br>(64.57)                  |
|                 | Size                         | B               | SB24                             | SB24                             | SB30                             |
|                 | Width                        | S               | 200<br>(7.87)                    | 200<br>(7.87)                    | 200<br>(7.87)                    |
| Support         | Length                       | Y               | 1280<br>(50.39)                  | 1380<br>(54.33)                  | 1540<br>(60.63)                  |
|                 | Interval                     | L1              | 1211<br>(47.68)                  | 1261<br>(49.65)                  | 1366<br>(53.78)                  |
|                 | P                            |                 | 720 ±2<br>(28.35)                | 780 ±2<br>(30.71)                | 880 ±2<br>(34.65)                |
|                 | Q                            |                 | 1100 ±3<br>(43.31)               | 1200 ±3<br>(47.24)               | 1350 ±3<br>(53.15)               |
| Mounting Bolt   | T                            |                 | 1312 ±1<br>(51.12)               | 1352 ±1<br>(51.21)               | 1512 ±1<br>(51.12)               |
|                 | Hole dia.                    | R               | 19<br>(0.75)                     | 19<br>(0.75)                     | 19<br>(0.75)                     |
|                 | Outside dia.                 | øD              | 1366<br>(53.78)                  | 1470<br>(57.87)                  | 1642<br>(64.65)                  |
|                 | Thickness                    | t <sup>*1</sup> | 78<br>(3.07)                     | 80<br>(3.15)                     | 82<br>(3.23)                     |
| Remote Flowtube | Pitch circle dia.            | øC              | 1283<br>(50.51)                  | 1387<br>(54.61)                  | 1552<br>(61.10)                  |
|                 | Bolt hole interval           | θ°              | 7.5                              | 6.4                              | 6.4                              |
|                 | Hole dia.                    | øh              | 33<br>(1.30)                     | 33<br>(1.30)                     | 39<br>(1.54)                     |
|                 | Number of holes              | N               | 24<br>(0.94)                     | 28<br>(1.10)                     | 28<br>(1.10)                     |
| Flange          | Height                       | H1              | 950 <sup>0</sup> +10<br>(37.40)  | 1000 <sup>0</sup> +10<br>(39.37) | 1100 <sup>0</sup> +10<br>(43.31) |
|                 | Max. Height                  | H               | 1698<br>(66.85)                  | 1803<br>(70.98)                  | 1974<br>(77.72)                  |
|                 | Weight kg (lb) <sup>*2</sup> |                 | 1650<br>(3637.6)                 | 1910<br>(4210.8)                 | 2420<br>(5335.2)                 |

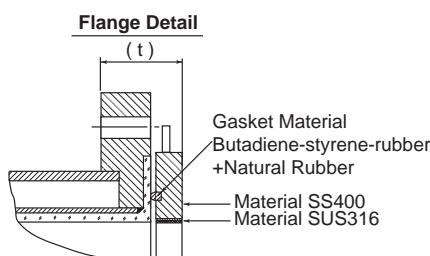
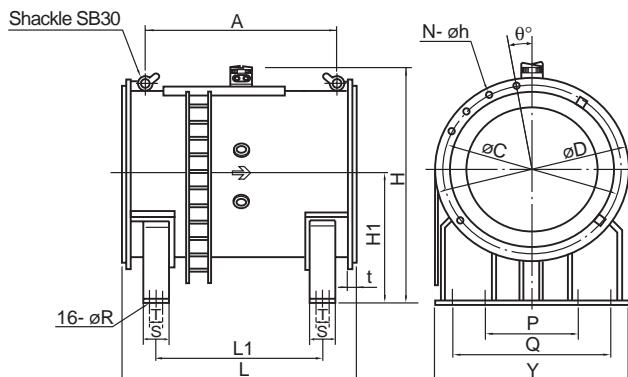
\*1: The value before the gasket is tightened.

\*2: When submersible type or option code DHC is selected, waterproof glands and a 30m long cable are attached. Add 9.5kg(20.9lb) to the weight in the table.

F45.EPS

### ● AXF Standard, AXF15L, JIS Flange Type, Polyurethane Rubber Lining

AXF15L G — NNUL 1S — CG11



| Model           | Process Connection           |                 | CG1(JIS F12)                     |                 |      |
|-----------------|------------------------------|-----------------|----------------------------------|-----------------|------|
|                 | Size code                    |                 | 15L                              | 1500            | (60) |
|                 | Size                         | Code            | 1500<br>(60)                     |                 |      |
|                 | Lining code                  | U               |                                  |                 |      |
| Shackle         | Face-to-face length          | L               | 2250 <sup>0</sup> -10<br>(88.58) | 1860<br>(73.23) |      |
|                 | Interval                     | A               |                                  |                 |      |
|                 | Size                         | B               | SB30                             |                 |      |
|                 | Width                        | S               | 200<br>(7.87)                    |                 |      |
| Support         | Length                       | Y               | 1700<br>(66.93)                  |                 |      |
|                 | Interval                     | L1              | 1490<br>(58.66)                  |                 |      |
|                 | P                            |                 | 980 ±2<br>(38.58)                |                 |      |
|                 | Q                            |                 | 1500 ±3<br>(59.06)               |                 |      |
| Mounting Bolt   | T                            |                 | 130 ±1<br>(51.12)                |                 |      |
|                 | Hole dia.                    | R               | 19<br>(0.75)                     |                 |      |
|                 | Outside dia.                 | øD              | 1800<br>(70.87)                  |                 |      |
|                 | Thickness                    | t <sup>*1</sup> | 85<br>(3.35)                     |                 |      |
| Remote Flowtube | Pitch circle dia.            | øC              | 1710<br>(67.32)                  |                 |      |
|                 | Bolt hole interval           | θ°              | 5.6                              |                 |      |
|                 | Hole dia.                    | øh              | 39<br>(1.54)                     |                 |      |
|                 | Number of holes              | N               | 32<br>(1.26)                     |                 |      |
| Flange          | Height                       | H1              | 1200 <sup>0</sup> +10<br>(47.24) |                 |      |
|                 | Max. Height                  | H               | 2155<br>(84.84)                  |                 |      |
|                 | Weight kg (lb) <sup>*2</sup> |                 | 3150<br>(6944.6)                 |                 |      |

\*1: The value before the gasket is tightened.

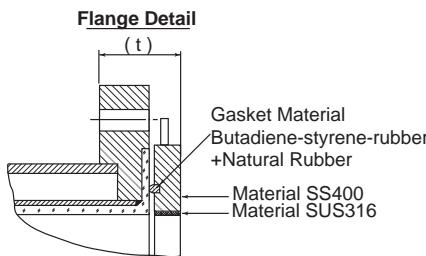
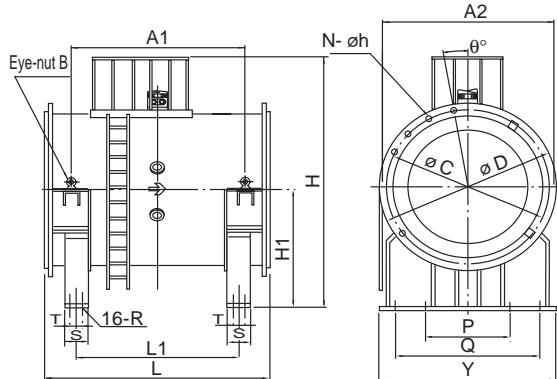
\*2: When submersible type or option code DHC is selected, waterproof glands and a 30m long cable are attached. Add 9.5kg(20.9lb) to the weight in the table.

F46.EPS

## ● AXF Standard, AXF16L-AXF26L, JIS Flange Type, Polyurethane Rubber Lining

AXF16L  
AXF18L  
AXF20L G — NNUL 1S — CG11  
AXF22L W  
AXF24L  
AXF26L

Unit : mm (approx. inch)



| Model           | Process Connection           |              | CG1(JIS F12)                                |  |  |  |  |  |
|-----------------|------------------------------|--------------|---|--|--|--|--|--|
|                 | Size code                    |              | 16L   | 18L  | 20L  | 22L  | 24L  | 26L  |
|                 | Size                         |              | 1600<br>(64)                                | 1800<br>(72)                                 | 2000<br>(80)                                 | 2200<br>(88)                                 | 2400<br>(96)                                 | 2600<br>(104)                                |
|                 | Lining code                  | U            | U   | U  | U  | U  | U  | U  |
| Eye-nut         | Face-to-face length          | L            | 2400 <sup>0</sup> <sub>-10</sub><br>(94.49) | 2610 <sup>0</sup> <sub>-10</sub><br>(102.76) | 2800 <sup>0</sup> <sub>-10</sub><br>(110.24) | 2970 <sup>0</sup> <sub>-10</sub><br>(116.93) | 3120 <sup>0</sup> <sub>-10</sub><br>(122.83) | 3300 <sup>0</sup> <sub>-10</sub><br>(129.92) |
|                 | Interval 1                   | A1           | 1834<br>(72.20)                             | 2022<br>(79.61)                              | 219<br>(86.26)                               | 2325<br>(91.54)                              | 2421<br>(95.31)                              | 2550<br>(100.39)                             |
|                 | Interval 2                   | A2           | 1872<br>(73.70)                             | 2078<br>(81.81)                              | 2300<br>(90.55)                              | 2524<br>(99.21)                              | 2724<br>(107.24)                             | 2946<br>(115.98)                             |
| Support         | Size                         | B            | M48   | M48  | M48  | M48  | M64  | M64  |
|                 | Width                        | S            | 250<br>(9.84)                               | 250<br>(9.84)                                | 250<br>(9.84)                                | 300<br>(11.81)                               | 300<br>(11.81)                               | 300<br>(11.81)                               |
|                 | Length                       | Y            | 1850<br>(72.83)                             | 2000<br>(78.74)                              | 2220<br>(87.40)                              | 2420<br>(95.28)                              | 2620<br>(103.15)                             | 2820<br>(111.02)                             |
| Interval        | Interval                     | L1           | 1698<br>(66.85)                             | 1864<br>(73.39)                              | 2010<br>(79.13)                              | 2172<br>(85.51)                              | 2218<br>(87.32)                              | 2300<br>(90.55)                              |
|                 | P                            | P            | 1080 <sup>±3</sup><br>(42.52)               | 1180 <sup>±3</sup><br>(46.46)                | 1300 <sup>±3</sup><br>(51.18)                | 1430 <sup>±3</sup><br>(56.30)                | 1560 <sup>±3</sup><br>(61.42)                | 1700 <sup>±3</sup><br>(66.93)                |
|                 | Q                            | Q            | 1650 <sup>±3</sup><br>(64.96)               | 1800 <sup>±3</sup><br>(70.87)                | 2000 <sup>±3</sup><br>(78.74)                | 2200 <sup>±3</sup><br>(86.61)                | 2400 <sup>±3</sup><br>(94.49)                | 2600 <sup>±3</sup><br>(102.36)               |
| Mounting Bolt   | T                            | T            | 170 <sup>±1</sup><br>(6.69)                 | 170 <sup>±1</sup><br>(6.69)                  | 170 <sup>±1</sup><br>(6.69)                  | 200 <sup>±1</sup><br>(7.87)                  | 200 <sup>±1</sup><br>(7.87)                  | 200 <sup>±1</sup><br>(7.87)                  |
|                 | Hole dia.                    | R            | 22<br>(0.87)                                | 22<br>(0.87)                                 | 22<br>(0.87)                                 | 22<br>(0.87)                                 | 22<br>(0.87)                                 | 22<br>(0.87)                                 |
|                 | Outside dia.                 | øD           | 1915<br>(75.39)                             | 2115<br>(83.27)                              | 2325<br>(91.54)                              | 2550<br>(100.39)                             | 2760<br>(108.66)                             | 2960<br>(116.54)                             |
| Thickness       | t <sup>*1</sup>              | 88<br>(3.46) | 90<br>(3.54)                                | 92<br>(3.62)                                 | 95<br>(3.74)                                 | 97<br>(3.82)                                 | 101<br>(3.98)                                | 101<br>(3.98)                                |
|                 | Pitch circle dia.            | øC           | 1820<br>(71.65)                             | 2020<br>(79.53)                              | 2230<br>(87.80)                              | 2440<br>(96.06)                              | 2650<br>(104.33)                             | 2850<br>(112.20)                             |
|                 | Bolt hole interval           | θ°           | 5   | 4.1  | 3.75   | 3.5  | 3.2  | 3.2  |
| Number of holes | Hole dia.                    | øh           | 39<br>(1.54)                                | 39<br>(1.54)                                 | 46<br>(1.81)                                 | 46<br>(1.81)                                 | 46<br>(1.81)                                 | 52<br>(2.05)                                 |
|                 | Height                       | H1           | 1280 <sup>0</sup> <sub>-16</sub><br>(50.39) | 1350 <sup>0</sup> <sub>-16</sub><br>(53.15)  | 1450 <sup>0</sup> <sub>-16</sub><br>(57.09)  | 1550 <sup>0</sup> <sub>-16</sub><br>(61.02)  | 1700 <sup>0</sup> <sub>-16</sub><br>(66.93)  | 1700 <sup>0</sup> <sub>-16</sub><br>(66.93)  |
|                 | Max. Height                  | H            | 2972<br>(117.01)                            | 3153<br>(124.13)                             | 3347<br>(131.77)                             | 3554<br>(139.92)                             | 3813<br>(150.12)                             | 3971<br>(154.21)                             |
|                 | Weight kg (lb) <sup>*2</sup> |              | 3650<br>(8046.9)                            | 5270<br>(11618.3)                            | app.<br>(14330.0)                            | app.<br>(18518.8)                            | app.<br>(22046.2)                            | app.<br>(31967.0)                            |

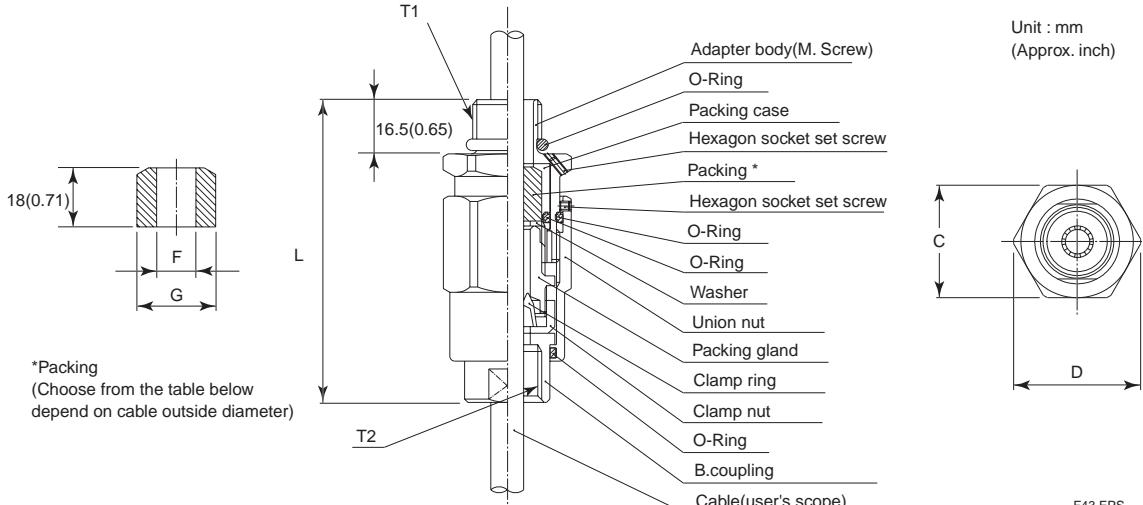
\*1: The value before the gasket is tightened.

\*2: When submersible type or option code DHC is selected, waterproof glands and a 30m long cable are attached.

Add 9.5kg(20.9lb) to the weight in the table.

F47.EPS

## ● Flame proof Packing Adapter for TIIS Flame proof Type (Optional code G12 or G11)

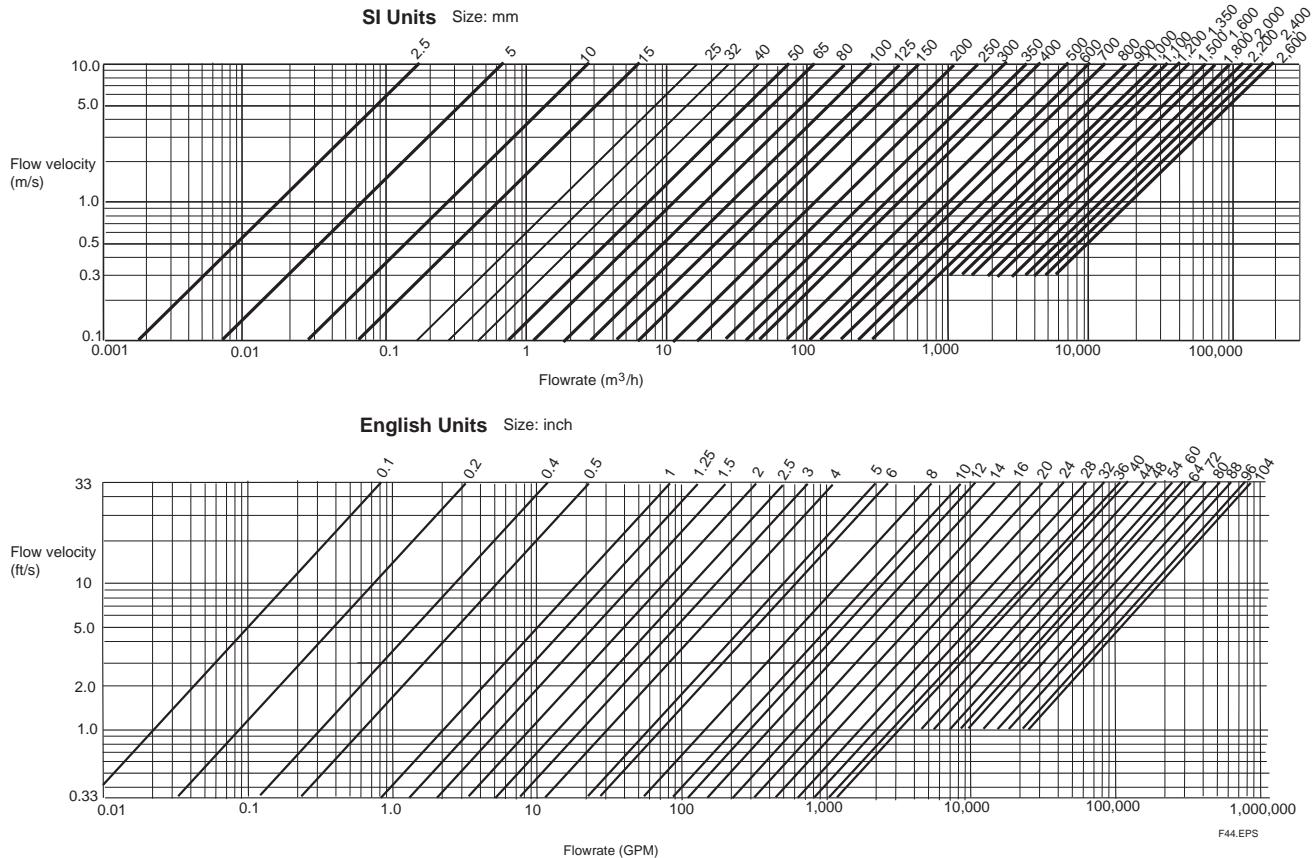


Unit : mm  
(Approx. inch)

| T1    | T2    | C            | D            | L              | Cable outer diameter          | Packing diameter |                 | Identification mark | Weight kg (lb) |
|-------|-------|--------------|--------------|----------------|-------------------------------|------------------|-----------------|---------------------|----------------|
|       |       |              |              |                |                               | F                | G               |                     |                |
| G 1/2 | G 1/2 | 35<br>(1.38) | 39<br>(1.54) | 94.5<br>(3.72) | ø8.0 to ø10.0 (0.31 to 0.39)  | ø10.0(0.39)      | ø20.0<br>(0.79) | 16 8-10             | 0.26           |
|       |       |              |              |                | ø10.0 to ø12.0 (0.39 to 0.47) | ø12.0(0.47)      |                 | 16 10-12            | (0.57)         |

T31.EPS

## ■ SIZING DATA (Measurable flow velocity is from 0 m/s.)



\* Measurable flow velocity is from 0 m/s.

## ■ RECOMMENDED GASKETS BETWEEN FLOWTUBES AND USER'S FLANGES

Use compressed non-asbestos fiber gaskets, PTFE gaskets or gaskets which have equivalent elasticity. For optional codes GA, GC, and GD, use rubber gaskets or others which have equivalent elasticity (such as Teflon-coated rubber gaskets).

## ORDERING INFORMATION

Note 1: When ordering a remote flowtube and a remote converter, specify the flow span, unit, pulse weight, and totalizer display pulse weight for the order details of the flowtube.

Then these parameters will then be set in the combined converter before shipment.

Note 2: Some options, if ordered, require the relevant specifications to be input when ordering.

1. Model, specification and option codes.
2. Converter for combined use (when ordering a remote flowtube)  
Model, suffix code, optional code, and tag number (if specified) of a converter for combined use.  
Refer to "ORDERING INFORMATION" of GS 01E20C01-01E, GS 01E20C02-01.
3. Tag number  
Each tag number can be specified in up to 16 characters in a combination of letters (capital or small letters), numbers, “-” and “.”.  
For HART protocol, up to 8 characters can be specified.  
If specified, the tag number is inscribed on the product's name plate and tag plate (if optional code SCT is selected). If the product is an integral flowmeter, the tag number is also set into the memory of its converter.  
If the user wishes to change only the tag number to be set into a converter's memory, specify the software tag.  
If a tag number is not specified, the tag number is set as a blank.
4. Flow rate spans and units  
Values of flow rate spans shall be specified within five digits (up to 32000) excluding the decimal point.

Integral flowmeter are set to the first range in the forward direction. Remote flowtube are set to the first range in the forward direction of the converter (AXFA11 or AXFA14) with which they are to be combined.

If a flow rate span and its unit are not specified, the relevant product is delivered with the setting at 1 m/s (3.3 ft/s).

### 5. Output pulse weight

If specified, volume per pulse shall be set. Unless specified, the relevant product is delivered with the setting at 0 pulse/second.

### 6. Totalizer display pulse weight

If specified, volume per pulse shall be set. Unless specified, the relevant product is delivered with the setting at 0 pulse/second.

### 7. Fluid name

## RELATED INSTRUMENTS

Calibrator for Magnetic Flowmeter (AM012):

GS 01E06K02-00E

BT200 Brain Terminal: GS 1C0A11-E

AXFA11 Magnetic Flowmeter Remote Converter:

GS 01E20C01-01E

AXFA14 Magnetic Flowmeter Remote Converter:

GS 01E20C02-01E