

General Specifications

GS 01E20D01-02E-A

AXF Magnetic Flowmeter Integral Flowmeter/Remote Flowtube

The AXF series of magnetic flowmeters has been developed based on Yokogawa's decades long experience in magnetic flowmeters. The AXF series continues the tradition of high quality and reliability that has become synonymous with the Yokogawa name and in addition features an even higher level of performance and increased functionality.

Retaining all the features and functions of the Admag series of flowmeters, in addition the AXF series offers an enhanced dual frequency excitation method as an option for difficult applications as well as new diagnostics to detect electrode coating combined with an optional replaceable electrode design. The user benefits through greater reliability and lower total cost of ownership.

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

■ FEATURES

- **Optional enhanced dual frequency excitation method**

The user can select a 165 Hz high frequency component for very high concentration slurries to ensure greater stability and quicker response.

- **Minimum fluid conductivity of 1 $\mu\text{S}/\text{cm}$**

With the newly designed AXF flow converter, improvements to the input circuit now permit the measurement of fluids with conductivity as low as $1\mu\text{S}/\text{cm}$.

- **Diagnostics to detect insulating coatings on the electrodes**

By constantly monitoring the change in the impedance of the electrode circuit due to the build-up of insulating coatings, the AXF converter will display 4 different levels of coating and provide an alarm function.

- **Optional replaceable electrodes**

Electrode maintenance and cleaning becomes easier because the user can rely on the new predictive diagnostics to monitor the status of the electrodes and then remove them for cleaning if necessary.

- **Improved accuracy specification**

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



Integral Flowmeter

Remote Flowtube

- **Three line display with infrared switches**

The LCD indicator employs a large, backlit, full dot matrix display. One to three lines are available and these can be programmed to indicate a wide variety of display possibilities, including a bar graph for flow rate indication and a graphical representation of the extent to which the electrodes may be coating. Infrared switches permit programming through the glass without the need to open the enclosure cover.

- **High speed pulse output**

The pulse output can be programmed up to 10,000 pulses/second for high-speed applications such as short batch processes.

- **"Easy Setup" Parameters**

The most frequently used parameters are arranged in one location for easy, quick access.

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■ STANDARD SPECIFICATIONS

● Converter (Integral type)

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.)
(Option code HF2)

Input Signal (*1):

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

Output Signals (*1):

- One Current Output: 4 to 20 mA DC (load resistance: 0 to 750 Ω, 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)

Communication Line Conditions:

Load Resistance: 250 to 600 Ω (including cable resistance)
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 600 Ω (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: 250 to 600 Ω (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:

Full dot-matrix LCD (32×132 pixels)

Lightning Protector:

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

Protection:

IP67, NEMA4X, 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

Electrical Connection:

ANSI 1/2 NPT female

Terminal Connection:

M4 size screw terminal

Grounding:

Grounding resistance 100 Ω or less

When optional code A is selected, Class C grounding (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.

Note 1: See "Terminal Wiring" on page 16 for possible input/output combinations.

Functions

How to Set Parameters:

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.

Displayed Languages:

English, Japanese, German, French, Italian, and Spanish.

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

The full dot-matrix LCD enables user selection 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 coating diagnostics

Totalizer Display Function:

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 values between the forward and reverse flow rate totalized values can be displayed. The reverse flow rate is not counted for a forward single range.

Damping Time Constant:

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

Span Setting Function:

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), kbbi (US)*, bbl (US)*, mbbl (US)*, μ 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:

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:

Status input enables the switching of up to two ranges. For automatic range switching, the status of up to four ranges can be shown via status outputs and on the indicator.

Forward and Reverse Flow Measurement Functions:

Flows in both forward and reverse directions can be measured. The status is shown via status outputs and on the indicator during reverse flow measurement.

Totalization Switch:

If a totalized value becomes equal to or greater than the set value, a status output is generated.

Preset Totalization:

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

0% Signal Lock:

Status input 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 'Coating 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 arbitrarily from among 2.4 mA or less, fixed to 4 mA, 21.6 mA or more, or HOLD.

Alarm Output:

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

Self Diagnostics Functions:

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:

If a flow rate is 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 is greater or smaller than any of the set values, the status is output.

Electrode Coating Diagnostics Function:

This function enables monitoring of the coating level of insulating substances to the electrodes. Depending on the status, users are notified by a warning or an alarm via status outputs. If replaceable electrodes are used, they can be removed and cleaned if coating 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 Accuracy 0.2% of Rate (*)	Enhanced Dual Frequency Excitation (Optional code HF1,HF2) (*)	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)	
		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)	—	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)	
		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)	—	—	—	—	
	Union Joint	Ceramics (*2)	2.5 (0.1), 5 (0.2), 10 (0.4)	—	—	—	—
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)	—
	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)	—
	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)	—
Explosion proof Type	Wafer	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)	25 (1.0), 40 (1.5), 50 (2.0), 80 (3.0), 100 (4.0), 150 (6.0), 200 (8.0)	—
		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)	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)	—
	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)	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: Tri-Clamp (*4), Butt Weld: ISO2037	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)	25 (1.0), 32 (1.25), 40 (1.5), 50 (2.0), 65 (2.5), 80 (3.0), 100 (4.0), 125 (5.0)	—

*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

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**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 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)	—	—

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*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 , 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. For continuous submersion applications, contact Yokogawa.

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

Size 2.5 to 100 mm (0.1 to 4.0 in.) (Flange type, Wafer 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 2600 mm (6.0 to 104 in.) (Flange type, Wafer 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	Stainless steel-JIS SCS13 /EN 1.4308 equivalent
	Wafer Type Ceramics lining [only for 15 mm (0.5 in.)]	Stainless steel-JIS SUS316L (AISI 316 SS/EN 1.4404 equivalent)
	Sanitary Type [only for 15 mm (0.5 in.)]	Stainless steel-JIS SCS13 /EN 1.4308 equivalent
Pipe	Flange/Wafer Type PFA/Polyurethane rubber	Stainless steel-JIS SCS13 /EN 1.4308 equivalent
	Wafer Type/Union Joint Ceramics lining	Alumina ceramics (99.9%)
	Sanitary Type [only for 15 mm (0.5 in.)]	Stainless steel-JIS SCS13 /EN 1.4308 equivalent
Terminal Box (Remote Flowtube)		Aluminum alloy

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Size 25 mm (1.0 in.) to 100 mm (4.0 in.)

Part Name		Material	
Housing		Stainless steel-JIS SUS304 (AISI 304 SS/EN 1.4301 equivalent)	
Flange	Process Connection code: B**	Stainless steel-JIS SUS304 (AISI 304 SS/EN 1.4301 equivalent)	
	Process Connection code: C** [(Size 50 mm (2.0 in.) to 100 mm (4 in.))]	Carbon steel-JIS SS400	
Mini-Flange	Wafer Type PFA/Polyurethane rubber	Size 25 mm (1.0 in.)	Stainless steel- EN 1.4308 SCS 13 equivalent
		Size 40 mm (1.5 in.) to 100 mm (4.0 in.)	Stainless steel-JIS SUS430 (ASTM 43000/DIN X6Cr17/EN 1.4016 equivalent)
	Wafer Type Ceramics lining	Size 25 mm (1.0 in.) to 50 mm (2.0 in.)	Stainless steel-JIS SUS316L (AISI 316L SS/EN 1.4404 equivalent)
		Size 80 mm (3.0 in.), 100 mm (4.0 in.)	Stainless steel-JIS SUS304 (AISI 304 SS/EN 1.4301 equivalent)
	Sanitary Type	Size 25 mm (1.0 in.)	Stainless steel-JIS SCS13 /EN 1.4308 equivalent
		Size 40 mm (1.5 in.) to 100 mm (4.0 in.)	Stainless steel-JIS SUS430 (ASTM 43000/DIN X6Cr17/EN 1.4016 equivalent)
Pipe	Flange/Wafer Type PFA/Polyurethane rubber	Size 25 mm (1.0 in.)	Stainless steel- EN 1.4308 SCS 13 equivalent
		Size 40 mm (1.5 in.) to 100 mm (4.0 in.)	Stainless steel-JIS SUS304 (AISI 304 SS/EN 1.4301 equivalent)
	Wafer Type Ceramics lining	Size 25 mm (1.0 in.) to 100 mm (4.0 in.)	Alumina ceramics (99.9%)
	Sanitary Type	Size 25 mm (1.0 in.)	Stainless steel-JIS SCS13 /EN 1.4308 equivalent
		Size 40 mm (1.5 in.) to 100 mm (4.0 in.)	Stainless steel-JIS SUS304 (AISI 304 SS/EN 1.4301 equivalent)
Terminal Box (Remote Flowtube)		Aluminum alloy	

T04.EPS

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 PFA/Polyurethane rubber	Carbon steel-JIS SS400
	Wafer Type Ceramics lining [available with 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 PFA/Polyurethane rubber	Stainless steel-JIS SUS304 (AISI 304 SS/EN 1.4301 equivalent)
	Wafer Type Ceramics lining [available with 150 mm (6.0 in.), 200 mm (8.0 in.)]	Alumina ceramics (99.9%)
Terminal Box (Remote Flowtube)		Aluminum alloy

T05.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 (AISI 304 SS/EN 1.4301 equivalent)
Terminal Box (Remote Flowtube)	Case, Cover (500 to 1000 mm) (20 to 40 in.)	Aluminum alloy
	Case (1100 to 2600 mm) (44 to 104 in.)	Stainless steel-JIS SUS304 (AISI 304 SS/EN 1.4301 equivalent) Electrical connection: Carbon steel
	Cover (1100 to 2600 mm) (44 to 104 in.)	Aluminum alloy

T05-1.EPS

Wetted Part Material:

Lining: Fluorocarbon PFA* lining, Polyurethane rubber, or Alumina ceramics lining
 *PFA is FDA (U.S. Food and Drug Administration) approved material.

Electrode: JIS SUS316L (AISI 316L SS/EN 1.4404 or its equivalent), Hastelloy*1 C276 or its equivalent, Titanium, Tantalum, Platinum-Iridium, Tungsten Carbide, Platinum-Alumina cermet (only for ceramic lining)

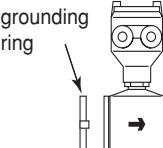
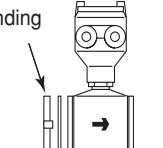
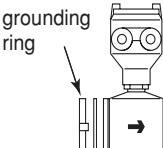
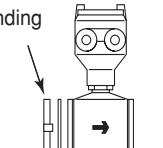
Grounding Ring/Grounding Electrode:

- Grounding Ring (plate type)
 JIS SUS316L (AISI 316L SS/EN 1.4404 or its equivalent), Hastelloy*1 C276 or equivalent, Titanium
 JIS SUS304 (AISI 304 SS/EN 1.4301 equivalent) for 500 - 1000mm (20-40 in.) only.
- Grounding Electrode (electrode type)*2
 Fluorocarbon PFA lining + grounding electrodes (when Tantalum or Platinum-Iridium is selected)

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

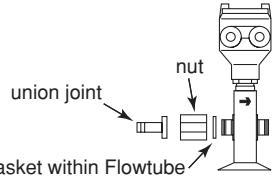
*2: Available with sizes 2.5 to 200 mm (0.1 to 8.0 in.), PFA and ceramic linings only.

Gasket:

Use	General-Purpose Use / Submersible Type / Explosion proof type	
Lining	PFA/Polyurethane Rubber	Ceramics
Standard	grounding ring  No gasket within Flowtube	grounding ring  Gasket within Flowtube
	Gasket Material (within Flowtube)	
Optional code (GA)	—	Fluororesin with ceramic fillers (Valqua #7020)
	grounding ring  Gasket within Flowtube	grounding ring  Gasket within Flowtube
Gasket Material (within Flowtube)		
GA: Fluororubber for PVC pipes (Viton®)		

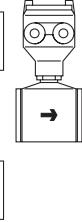
T23-1.EPS

Joints:

Lining	Ceramics Union Joints (size 10 mm or less)	
Standard		
Materials for Union Joint		
Stainless steel (JIS SUS316L (ANSI 316L SS/EN 1.4404 equivalent))		
Process Connection Code GUN: union joint		

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

T23-3.EPS

Use	Sanitary Type
Lining	PFA
Standard	
Materials for Adapters (clamp, butt weld)	
Stainless steel (JIS SUS316L (ANSI 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:

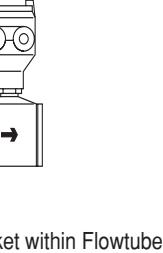
PFA, Polyurethane rubber lining: External insertion type
Ceramics lining: Integral type

Sanitary Type: Internal insertion type

Replaceable Electrode Type

Electrode parts can be put into units to facilitate replacement or mounting at customer site.

The optional dedicated tool (F9807SK) is required.

Use	Sanitary Type
Lining	PFA
Standard	Adapter for clamp connection 
	Adapter for butt weld connection 
Gasket Material (within Flowtube)	Gasket within Flowtube 
	EPDM (ethylene propylene) rubber

T23-2.EPS

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 (1.0 to 12 in.)	PFA/ Polyurethane	JIS SUS316L (AISI 316L) SS/EN 1.4404 equivalent) ^(*)1)
	Flange	25 to 400 mm (1.0 to 16 in.)	Rubber	

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 (6.0 to 10 in.)	PFA/ Polyurethane Rubber	JIS SUS316L (AISI 316L) SS/EN 1.4404 equivalent) ^(*)1)

T07.EPS

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

Electrical Connection:

ANSI 1/2 NPT female
ISO M20 × 1.5 female
JIS G1/2 (PF1/2) female

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.

Converter Interchange:

- A remote flowtube (sizes to 400mm to 16 in.) can be combined with the AXFA11 Converter or the AXFA14 Converter. If the converter is changed from AXFA11 to AXFA14 or vice versa, a new meter factor must be established by flow calibration.
- For 250 mm (10 in.) or larger used in low conductivity fluids or high concentration slurry, please use the AXFA11 Converter.
- Flowtubes 500 mm and larger can only be used with AXFA11 Converter.
Flowtubes 500mm and larger can only be used with AXFA11 converter.
- 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.

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, & 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, & 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)

■ STANDARD PERFORMANCE**Reference Conditions:**

Similar to BS EN 29104 (1993); ISO9104 (1991)

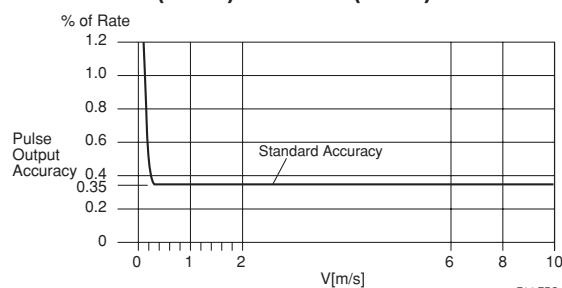
- Fluid temperature: +10°C to +30°C (+50°F + 68°F)
- Ambient temperature: +20°C to +30°C (+68°F to +68°F)
- Warm-up time: 30 min
- Straight runs:
 Upstream > 10 × DN
 Downstream > 5 × DN
- Properly grounded
- Properly centered

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

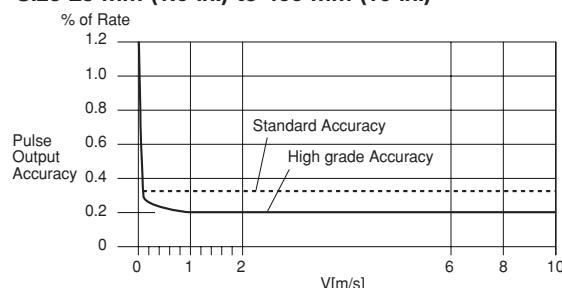
Size mm (in.)	Flow Velocity V m/s (ft/s)	Standard Accuracy (Calibration code B)	Flow Velocity V m/s (ft/s)	High Grade Accuracy (Calibration code C)
2.5 (0.1) to 15 (0.5)	V < 0.3 (1)	1.0 mm/s	—	—
	0.3 ≤ V ≤ 10 (1) (33)	0.35% of Rate		
25 (1.0) to 200 (8.0)	V < 0.15 (0.5)	0.5 mm/s	V < 0.15 (0.5)	0.5 mm/s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

T08.EPS

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

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

F14.EPS

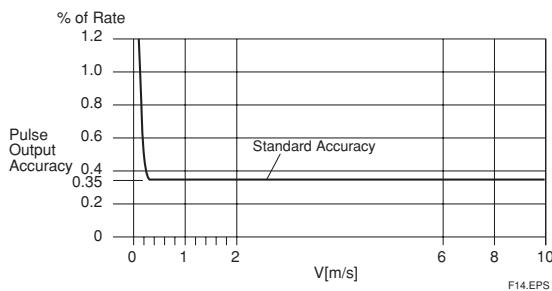
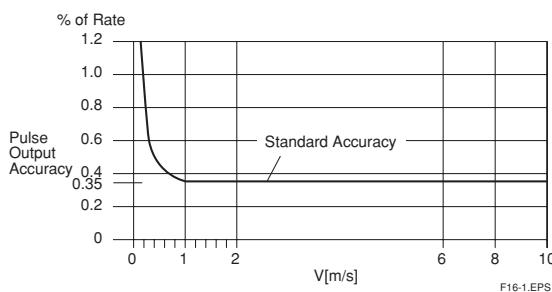
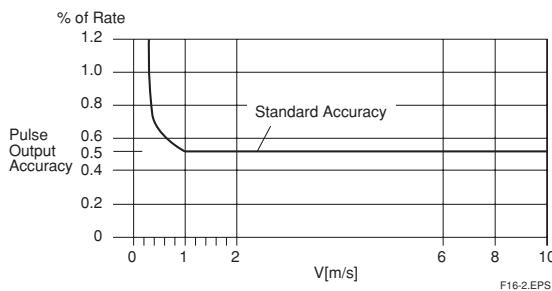
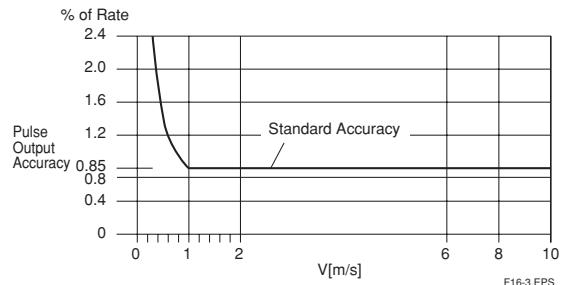
Size 25 mm (1.0 in.) to 400 mm (16 in.)

F15.EPS

Polyurethane 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

Size 25 mm (1.0 in.) to 400 mm (16 in.)**Size 500 mm (20 in.) to 1000 mm (40 in.)****Size 1100 mm (44 in.) to 2000 mm (80 in.)****Size 2200 mm (88 in.) to 2600 mm (104 in.)****Current Output:** Plus 0.05% of Span**Repeatability:**0.1% of Rate ($V < 1$ 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:

100 M between power terminals and ground terminal at 500 V DC

100 M between power terminals and each output/status input terminal at 500 V DC

20 M between ground terminal and each output/status input terminal at 100 V DC

20 M between output/status input terminals at 100 V DC

Remote Flowtube:

100 M between excitation terminals and each signal terminal at 500 V DC

100 M between signal terminals at 500 V DC

Withstand Voltage (*1):

Integral Flowmeter: 1350 V AC between power terminals and ground terminal for two seconds

Integral Flowmeter, Remote Flowtube (optional code FF1):

• 500 V AC between signal terminals (A and B) and ground terminal for 1 minute.

• 2000 V AC between signal terminals (A and B) and excitation terminals (EX1 and EX2) for 1 minute.

**CAUTION**

- *1:
 - Before performing the Insulation Resistance Test or the Voltage Breakdown Test, disconnect the ground terminal if the power terminal has a lightning protector (optional code A).
 - Following the relevant test, wait for more than 10 seconds after the power supply has been turned off before removing the cover.
 - After testing, be sure to use a resistance for discharge and return 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 (mm) (*1)	PS (MPa) (*1)	PS DN (MPa · mm)	CATEGORY (*2)
AXF002G/C	2.5	4	10	Article 3, (*3) paragraph 3
AXF005G/C	5	4	20	Article 3, (*3) paragraph 3
AXF010G/C	10	4	40	Article 3, (*3) paragraph 3
AXF015G/W/C	15	4	60	Article 3, (*3) paragraph 3
AXF025G/W/C	25	4	100	Article 3, (*3) 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 (mm) (*1)	PS (MPa) (*1)	PS D (MPa · mm)	CATEGORY (*2)
AXF015H	15	1	15	Article 3, (*3) paragraph 3
AXF025H	25	1	25	Article 3, (*3) 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

*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 PED's CE marking.

■ 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 type): -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):

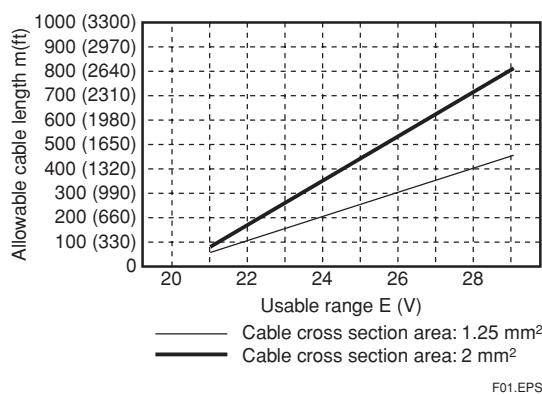
Power supply code 1:

- 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



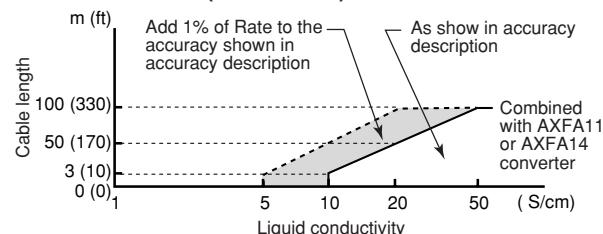
Fluid Conductivity:

- Size 2.5 to 10 mm (0.1 to 0.4 in.): 5 $\mu\text{S}/\text{cm}$ or larger
 Size 15 to 125 mm (0.5 to 5 in.): 1 $\mu\text{S}/\text{cm}$ or larger
 Size 150 to 400 mm (6 to 16 in.): 3 $\mu\text{S}/\text{cm}$ or larger
 Size 500 to 2600 mm (20 to 104 in.): 50 $\mu\text{S}/\text{cm}$ or larger

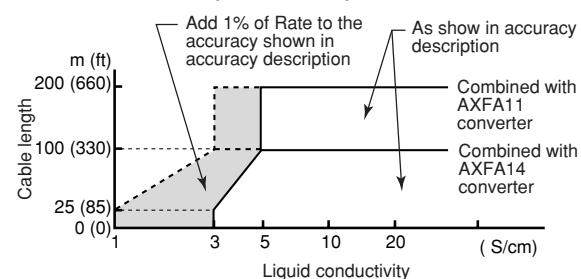
Note: In the case of fluids which have large flow noise (pure water, pure alcohol or others), low conductivity or low viscosity, please contact Yokogawa.

Cable Length and Liquid Conductivity (Remote Flowtube):

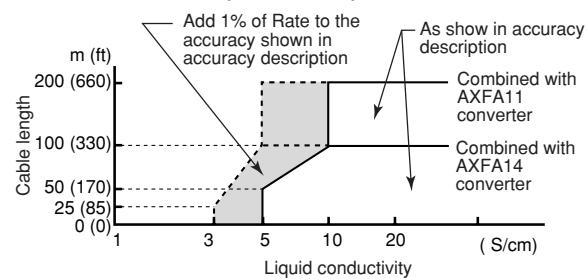
Size 2.5 to 10 mm (0.1 to 0.4 in.)



Size 15 to 125 mm (0.5 to 4.0 in.)

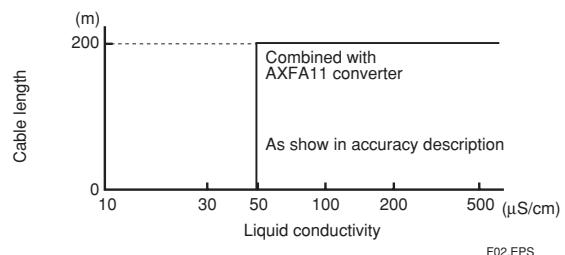


Size 150 to 400 mm (6.0 to 16 in.)



Note: When 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.)



Measurable Flow Rate Range:SI Units (Size: mm, Flow rate: m³/h)

Size (mm)	0 to Min. Span Flow Rate (0.1 m/s)	0 to Max. Span Flow Rate (10 m/s)
2.5	0 to 0.0018 m ³ /h	0 to 0.1767 m ³ /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

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

Size (in.)	0 to Min. Span Flow Rate (0.33ft/s)	0 to Max. Span Flow Rate (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 (mm)	0 to Min. Span Flow Rate (0.3 m/s)	0 to Max. Span Flow Rate (10 m/s)
1100	0 to 1,026.4 m ³ /h	0 to 34,211 m ³ /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

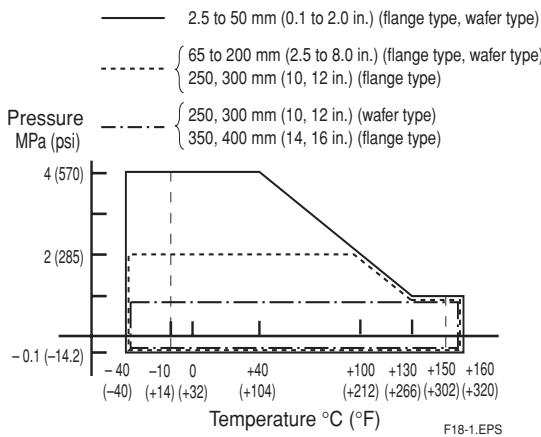
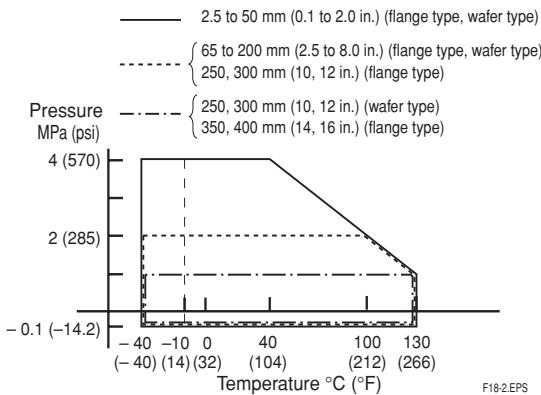
Size (in.)	0 to Min. Span Flow Rate (1.0ft/s)	0 to Max. Span Flow Rate (33ft/s)
44	0 to 4,665 GPM	0 to 155,489 GPM
48	0 to 5,552	0 to 185,045
54	0 to 7,026	0 to 234,197
60	0 to 8,674	0 to 289,133
64	0 to 9,870	0 to 328,969
72	0 to 12,491	0 to 416,351
80	0 to 15,421	0 to 514,014
88	0 to 18,659	0 to 621,957
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:

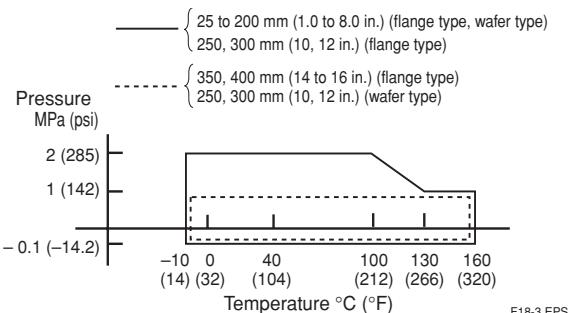
Note *1 The following figures show maximum allowable fluid pressure for the flowtube itself. Further fluid pressure should also be limited according to flange rating.

*2 For explosion proof type, for Maximum fluid pressure and fluid temperature refer to descriptions of "HAZARDOUS AREA CLASSIFICATION"

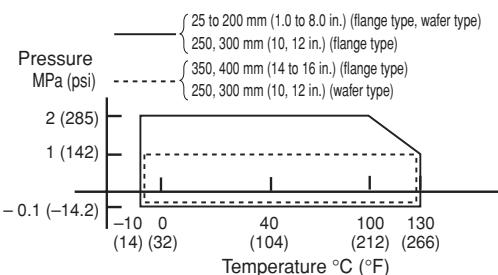
PFA Lining (*1)**General-Purpose Use, Submersible type, Explosion proof type, Remote Flowtube (electrode structure code 1: Non-replaceable electrode)****General-Purpose Use and Explosion proof type, Integral flowmeter (electrode structure code 1: Non-replaceable electrode)**

*1: For wafer types of 32 mm (1.25 in.) or larger, or for carbon steel flange types (process connection code: C**) of 50 mm (2.0 in.) or larger, the minimum temperature is -10°C (+14°F).

*2: For explosion proof type, for integral flowmeter, maximum temperature is +130°C (+266°F), for remote flowtube, maximum temperature is +150°C (+302°F).

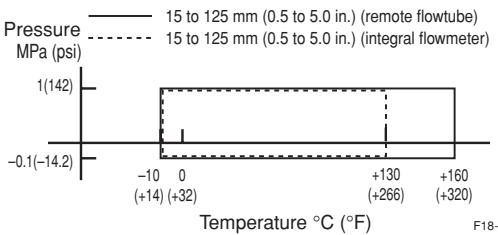
General-Purpose Use, Remote Flowtube (electrode structure code 2: replaceable electrode)

F18-3.EPS

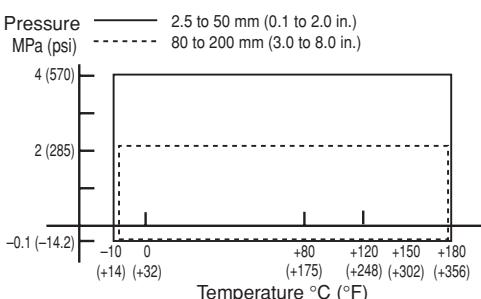
General-Purpose Use, Integral flowmeter (electrode structure code 2: replaceable electrode)

F18-4.EPS

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

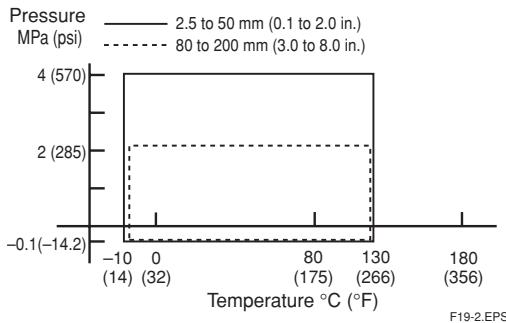
Sanitary Type (electrode structure code 1: Non-replaceable electrode)

F18-5.EPS

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

F19-1.EPS

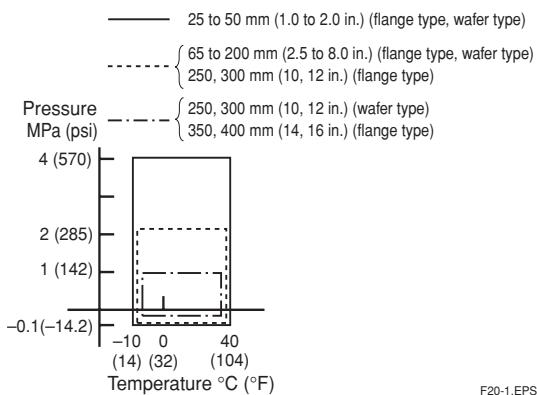
**General-Purpose Use and Explosion proof type,
Integral flowmeter (electrode structure code 1:
Non-replaceable electrode)**



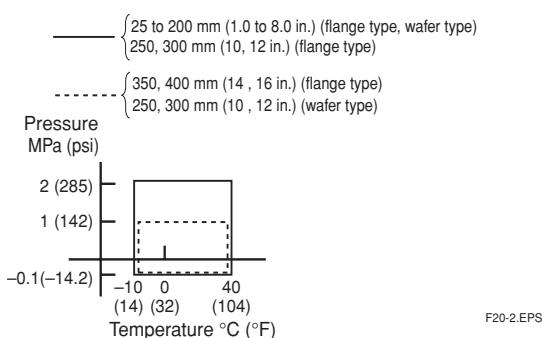
*1: For explosion proof type, for integral flowmeter, maximum temperature is +130°C (+266°F), for remote flowtube, maximum temperature is +150°C (+302°F).

Polyurethane Lining

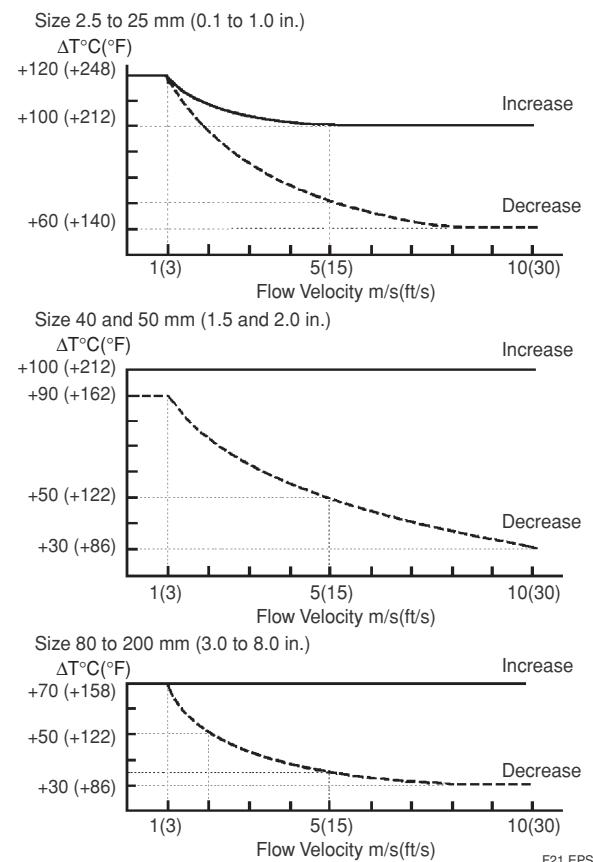
**General-Purpose Use and Submersible type,
Remote Flowtube (electrode structure code 1:
Non-replaceable electrode)**



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



Reasonable Figure for Thermal Shock of Ceramic 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.

T: 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)

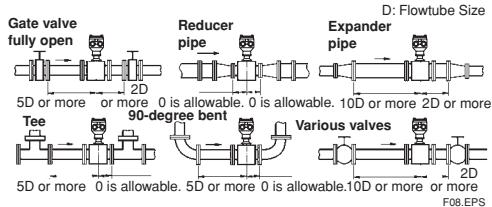
- Integral flowmeter: 1 G or less (frequency 500 Hz or less)
- Remote Flowtube: 2 G or less (frequency 500 Hz or less)

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

■ 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: 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 chemicals must be fed on the upstream side, provide a sufficient length of straight run (approximately 50D) to ensure the proper mixture of fluids.

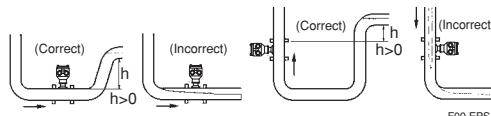
Mounting Positions

• 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 should be designed to keep the flowtube filled with fluids.

Vertical mounting is effective in cases 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 filled.



Mounting Positions

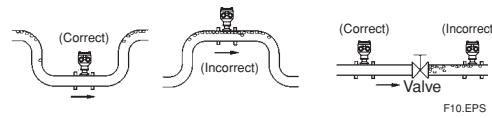
• Avoid Air Bubbles.

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

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.

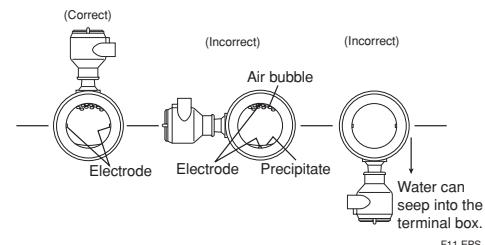


Avoiding Air Bubbles

• 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 type are mounted above the piping to prevent water from entering them.



Mounting Orientation

■ INNER DIAMETER OF GROUNDING RING

Unit: mm (in.)

Size	AXF Standard		Replacement Model for earlier ADMAG or ADMAG AE
	PFA /Polyurethane rubber	Ceramics	PFA /Polyurethane rubber
2.5 (0.1)	15 (0.59)	—	15 (0.59)
5 (0.2)	15 (0.59)	—	15 (0.59)
10 (0.4)	15 (0.59)	—	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) Flange: 243 (9.57)	—	239.1 (9.41)
300 (12)	Wafer: 294.7 (11.60) Flange: 291.3 (11.47)	—	—
350 (14)	323.4 (12.73)	—	—
400 (16)	373.5 (14.70)	—	—

T25.EPS

Note: Please ensure that the I.D. of the gasket does not protrude into the I.D. of the grounding ring and electrode. (This dimension is also applied to when no grounding ring is used)

Unit : mm (in.)		
Size	Lining	AXF Standard Po yurethane Rubber
500 (20)		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.

T16-2.EPS

■ ACCESSORIES

Remote Flowtube:

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.

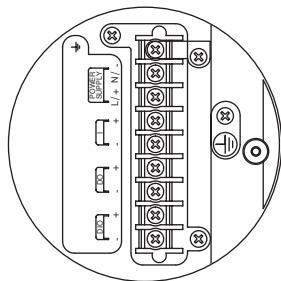
*Time lag fuse

Hexagonal wrench: 2 pcs.

■ TERMINAL CONFIGURATION AND TERMINAL WIRING

● Integral Flowmeter

Terminal configuration



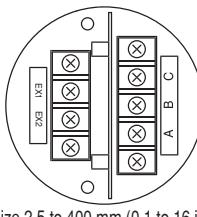
Terminal wiring

Terminal Symbols	Description
\perp	Functional grounding
N/-L/+	Power supply
I+ I-	Current output 4 to 20mA DC
DO+ DO-	Pulse output/Alarm output/ Status output
DIO+ DIO-	Alarm output/Status output/ Status input
\ominus	Protective grounding (Outside of the terminal)

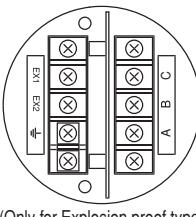
F41.EPS

● Remote Flowtube

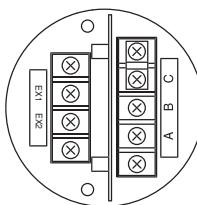
Terminal configuration



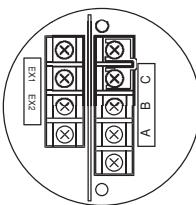
size 2.5 to 400 mm (0.1 to 16 in.)



(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	Flow signal output
B	Excitation current input
C	Functional grounding (Only for explosion proof type)
EX1 EX2	Protective grounding (Outside of the terminal)

F42.EPS

● Recommended Excitation, Power and Output Cable:

Use polyvinyl chloride insulated and sheathed portable power cables.

- Outer Diameter: 6.5 to 12 mm (0.26 to 0.47 in.)
- Nominal Cross section: 0.5 to 2.5 mm²

■ MODEL AND SUFFIX CODE

AXF STANDARD (Wafer Type)

Submersible Type/Explosion Proof, PFA Lining

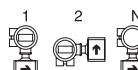
Model	Suffix Code		Description	Applicable Model
AXF002			Size 2.5 mm (0.1 in.) Integral Flowmeter/Remote Flowtube	
AXF005			Size 5 mm (0.2 in.) Integral Flowmeter/Remote Flowtube	
AXF010			Size 10 mm (0.4 in.) Integral Flowmeter/Remote Flowtube	
AXF015			Size 15 mm (0.5 in.) Integral Flowmeter/Remote 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	
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 [only available when "Electrode Structure" suffix code "2" is selected]	
	W		Submersible type	Size 15 mm (0.5 in.) to 300 mm (12 in.)
	C		Explosion proof Type	Remote Flowtube only
Converter Output Signal and Communication	-D		Integral Flowmeter with 4 to 20mA DC Output and BRAIN 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	
Electrode Material	L		JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)	
	P		Platinum-Iridium	
	H		Hastelloy C276 Equivalent	
	T		Tantalum	
	V		Titanium	
	W		Tungsten Carbide	
Electrode Structure	1		Non-replaceable	General-Purpose use,
	2		Replaceable [Must select "Use - " Suffix code "G"]	Size 25 mm (1.0 in.) to 300 mm (12 in.) Electrode Material: JIS SUS316L only
Grounding Ring and Grounding Electrode Material	N		None	
	L		JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)	
	P		Platinum-Iridium	Size 2.5 mm (0.1 in.) to 200 mm (8.0 in.)
	H		Hastelloy C276 Equivalent	
	T		Tantalum	Size 2.5 mm (0.1 in.) to 200 mm (8.0 in.),
	V		Titanium	
Process Connection (*2)	-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.)
Lay Length	1	Standard		
Electrical Connection	-2	ANSI 1/2 NPT 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		Size 25 mm (1.0 in.) to 200 mm (8.0 in.),
	C	High Accuracy		
	/□	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)

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

ANSI/ASME B 16.5

*3: N shall be always selected for remote flowtubes
In the case of an integral type, select from among the figures at the right:



T15.EPS

AXF STANDARD (Wafer /Union Joint Type)**Explosion Proof Ceramic 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	C	Explosion proof Type	
Converter Output Signal and Communication	-D	Integral Flowmeter with 4 to 20 mA DC Output and BRAIN 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.)
	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 (*1)	-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.)
	-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.)
Lay Length (*2)	1	Standard	
Electrical Connection	-2	ANSI 1/2 NPT 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	Size 25 mm (1.0 in.) to 200mm (8.0 in.)
	C	High Accuracy	
	/□	Optional code (See the Table of Optional Specifications)	

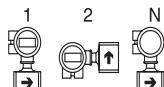
*1: Mating dimensions are based on standards as follow:

ANSI:ASME B 16.5

*2: AXF standard lay length dimension for ceramics linings are the same as those for ADMAG ceramics linings.

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

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



T16.EPS

AXF STANDARD (Flange Type)
Explosion Proof/Submersible Type, PFA Lining

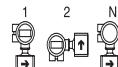
Model	Suffix Code	Description	Applicable Model
AXF002		Size 2.5 mm (0.1 in.) Integral Flowmeter/Remote Flowtube	
AXF005		Size 5 mm (0.2 in.) Integral Flowmeter/Remote Flowtube	
AXF010		Size 10 mm (0.4 in.) Integral Flowmeter/Remote Flowtube	
AXF015		Size 15 mm (0.5 in.) Integral Flowmeter/Remote Flowtube	
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	
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 [only available when "Electrode Structure" suffix code "2" is selected]	
	W	Submersible type	Size 15 mm (0.5 in.) to 400 mm (16 in.), Remote Flowtube only
	C	Explosion proof 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)	
	P	Platinum-Iridium	
	H	Hastelloy C276 Equivalent	
	T	Tantalum	
	V	Titanium	
	W	Tungsten Carbide	
Electrode Structure	1	Non-replaceable	
	2	Replaceable [Must select "Use -" suffix code "G"]	General-Purpose use, Size 25 mm (1.0 in.) to 400 mm (16 in.) Electrode Material: JIS SUS316L only
Grounding Ring and Grounding Electrode Material	N	None	
	L	JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)	
	P	Platinum-Iridium	Size 2.5 mm (0.1 in.) to 200 mm (8.0 in.),
	H	Hastelloy C276 Equivalent	
	T	Tantalum	Size 2.5mm (0.1 in.) to 200 mm (8.0 in.),
	V	Titanium	
Process Connection (*2)	-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.)
	-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.)
Lay Length	1	Standard	
Electrical Connection	-2	ANSI 1/2 NPT 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	Size 25 mm (1.0 in.) to 200 mm (8.0 in.),
	C	High Accuracy	
	/□	Optional code (See the Table of Optional Specifications)	

*1: For a flange 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: BA1, BA2, BD4, BJ1, and BJ2).

*2: Mating dimensions are based on standards as follow: ANSI: ASME B 16.5, DIN:DIN 2501, JIS: JIS2220

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

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



T17.EPS

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) SS400 Carbon Steel lined with Stainless Steel SUS316	Size 500 mm (20 in.) to 1000 mm (40 in.) 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:

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

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*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/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	
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	
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 (4.0 in.), except 32 mm (1.25 in.)
	-KKB	Butt Weld for ISO 2037 Pipe Connection (SUS316L [AISI 316L SS/EN1.4404 Equivalent])	Size 15 mm (0.5 in.) to 100 mm (4.0 in.)
Lay Length	1	Standard	
Electrical Connection	-2	ANSI 1/2 NPT 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 Accuracy	Size 25 mm (1.0 in.) to 100 mm (4.0 in.)
	/□	Optional code (See the Table of Optional Specifications)	

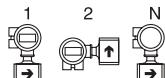
*1: For a tri-clamp type of size15 mm (0.5 in.), prepare a 3/4 in. tri-clamp on the process pipe side. (Process connection code: HAB).

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*2: The detail dimensions of process connections (clamp/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 type, select from among the following figures.



REPLACEMENT MODEL FOR EARLIER ADMAG OR ADMAG AE (Wafer Type)**Explosion Proof/Submersible Type, PFA**

For the Wafer Types of size 250 mm (10 in.), 300 mm (12 in.), **AXF Standard** should 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	W	Submersible type	Size 15 mm (0.5 in.) to 200 mm (8.0 in.), Remote Flowtube only
	C	Explosion proof 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)	
	P	Platinum-iridium	
	H	Hastelloy C276 Equivalent	
	T	Tantalum	
	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.)(*4)
	L	JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)	
	P	Platinum-iridium	
	H	Hastelloy C276 Equivalent	
	T	Tantalum	
	V	Titanium	
Process Connection (*2)	-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.)
Lay Length	2	Matches an Earlier ADMAG Flowmeter (ADMAG or ADMAG AE) for Replacement	
Electrical Connection	-2	ANSI 1/2 NPT 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	
	/□	Optional code (See the Table of Optional Specifications)	

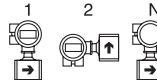
T19.EPS

*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)

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

ANSI ASME B 16.5

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



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

*4: For a wafer type of size 2.5 mm (0.1 in.) to 10 mm (0.4 in.) without a grounding ring, the AXF standard shall be selected because it has the same lay length.

REPLACEMENT MODEL FOR EARLIER ADMAG OR ADMAG AE (Flange Type)**Explosion Proof/Submersible Type, PFA**

For Flange Types of size 15 mm (0.5 in.) to 100 mm (4.0 in.), 300 mm (12 in.) to 400 mm (16 in.), **AXF Standard** should 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	General-Purpose Use [only available when "Electrode Structure suffix code "2" is selected]	
	W	Submersible type	Remote Flowtube only
	C	Explosion proof Type	
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	
Electrode Material	L	JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)	
	P	Platinum-iridium	
	H	Hastelloy C276 Equivalent	
	T	Tantalum	
	V	Titanium	
	W	Tungsten Carbide	
Electrode Structure	1	Non-replaceable	
	2	Replaceable [must select "Use" suffix code "G"]	General-Purpose use, Electrode Material : JIS SUS316L only
Grounding Ring and	N	None	
Grounding Electrode	L	JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)	
Material	P	Platinum-iridium	Size150 mm (6.0 in.), 200 mm (8.0 in.),
	H	Hastelloy C276 Equivalent	Size150 mm (6.0 in.), 200 mm (8.0 in.),
	T	Tantalum	
	V	Titanium	
Process Connection (*1)	-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.)
Lay Length	2	Matches an Earlier ADMAG Flowmeter (ADMAG or ADMAG AE) for Replacement	
Electrical Connection	-2	ANSI 1/2 NPT female	
Indicator (*2)	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)	

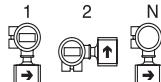
T20.EPS

*1: Mating dimensions are based on standards as follow:

ANSI: ASME B 16.5

*2: N shall be always selected for remote flowtubes.

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



■ OPTIONAL SPECIFICATIONS FOR FLOWTUBES

Item	Specifications	Applicable Model								Code	
		General		Explosion proof		Submersible		Sanitary			
		Integral	Remote	Integral	Remote	Remote	Integral	Remote	Integral		
		AXF***G-D AXF***G-E AXF***G-N AXF***G-P	AXF***C-D AXF***C-E AXF***C-N AXF***C-P	AXF***W-N AXF***W-P	AXF***H-D AXF***H-E AXF***H-N AXF***H-P	AXF***H-E AXF***H-N AXF***H-P	AXF***H-D AXF***H-E AXF***H-N AXF***H-P	AXF***H-E AXF***H-N AXF***H-P	AXF***H-D AXF***H-E AXF***H-N AXF***H-P		
Lightning Protector	A lightning protector is built into the power terminals.	○	-	○	-	-	○	-	○	A	
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 Compliant	Output signal limits: 3.8 to 20.5 mA	Failure alarm down-scale: Output status at a CPU failure or an alarm is 2.4 mA (-10%) or less. Failure alarm up-scale, Output status at a CPU failure or an alarm is 21.6 mA (110%) or more.	○	-	○	-	-	○	-	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.) Output voltage: 24 V DC ±20% Pulse specifications: • At the drive current of 30 to 150 mA Pulse rate: 0.0001 to 2 pps (pulse/second); Pulse width: 20, 33, 50, or 100 ms	○	-	○	-	-	○	-	EM		
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. Available for 400 mm (16 in.) or smaller sizes.	○	○	○	○	○	○	○	○	RA	
	+180 degrees rotated converter (or terminal box) to change the direction of the electrical connection. Available for 400 mm (16 in.) or smaller sizes.	○	○	○	○	○	○	○	○	RB	
	-90 degrees rotated converter (or terminal box) to change the direction of the electrical connection. Available for 400 mm (16 in.) or smaller sizes.	○	○	○	○	○	○	○	○	RC	
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	
Epoxy Resin Coating	Epoxy resin coating instead of standard polyurethane resin coating. The color is same as standard type.	○	○	○	○	-	-	-	-	X1	
Material Certificate	Reproduced material certificates for : PFA/polyurethane: Pipe, electrodes, grounding rings/grounding electrodes, mini flanges (for wafer type), flanges (for flange type) Ceramics: only grounding rings or grounding electrodes	○	○	○	○	○	○	○	○	M01	
Enhanced Dual Frequency Excitation (*3)	Available for 25 to 200 mm (1.0 to 8.0 in.) sizes. Products are delivered with the Standard dual frequency excitation mode and the Enhanced dual frequency excitation mode enabled. 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.	○	○	○	○	○	○	○	○	HF2	
FM Approval	Explosion proof See "HAZARDOUS AREA CLASSIFICATION"	-	-	○	○	-	-	-	-	FF1	
CSA Certification	Explosion proof See "HAZARDOUS AREA CLASSIFICATION"	-	-	○	○	-	-	-	-	CF1	

*1:	Standard	+90-degree rotation	+180-degree rotation	-90-degree rotation	T26-1.EPS
		Optional Code RA	Optional Code RB	Optional Code RC	
	Integral Type	Electrical Connection 	Indicator 	Electrical Connection 	
	Remote Flowtube				

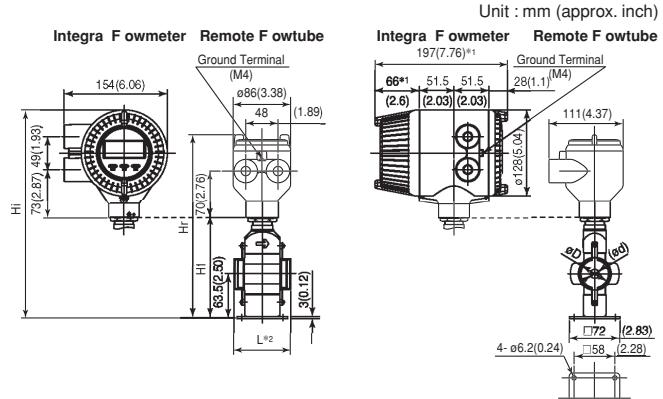
*2: Special gaskets are inserted between the flowtube and the grounding ring or grounding electrode.

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

■ EXTERNAL DIMENSIONS

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

AXF002 G D 1
AXF005 W E 2 A □ 1 □ - A □ □ 1
AXF010 N N A □ 1 □ - A □ □ 1
AXF015 C P N



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 ^{ø2} / ₃		81(3.19)		
Integral flowmeter	Outside dia.	øD		44(1.73)		
Integral flowmeter	Inner diameter of Grounding ring	ød		15(0.59)		
Integral flowmeter	Height	H1		144(5.67)		
Remote flowtube	Max. Height	Hr		268(10.55)		
Integral flowmeter	Weight kg (lb) ^{*3}			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).

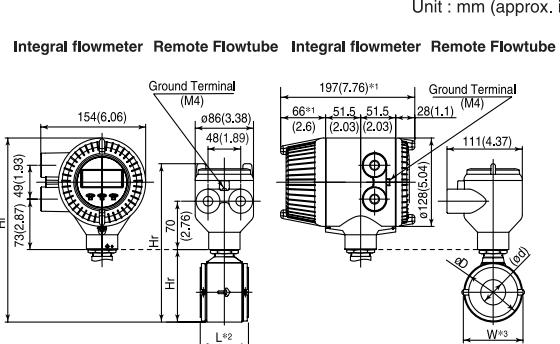
Grounding Ring Code	S, L, H, V	P, T	N
Option Code	None	+0	+26(1.02) -2(0.08)
	GA, GC, GD (Special Gaskets)	+6(0.24)	+28(1.10) -

*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-AXF100, Wafer Type, PFA /Polyurethane Rubber Lining

AXF025
AXF040 G D 1
AXF050 W E 2 U □ 1 □ - A □ □ 1
AXF080 C N N A □ 1 □ - A □ □ 1
AXF100



Model	Size code		025	040	050	080	100
	Size		25(1)	40(1.5)	50(2)	80(3)	100(4)
	Lining code		A,U	A,U	A,U	A,U	A,U
Remote flowtube	Face-to-face length	L ^{ø2} / ₃	60(2.36)	70(2.76)	80(3.15)	120(4.72)	150(5.91)
Integral flowmeter	Outside dia.	øD	67.5(2.66)	86(3.39)	99(3.90)	129(5.08)	155(6.10)
Integral flowmeter	Inner diameter of Grounding ring	ød	28(1.10)	41(1.61)	53(2.09)	77(3.03)	102(4.02)
Integral flowmeter	Width	W ^{*3}	67.5(2.66)	86(3.39)	99(3.90)	129(5.08)	155(6.10)
Integral flowmeter	Height	H1	92(3.62)	111(4.37)	129(5.08)	157(6.18)	183(7.20)
Remote flowtube	Max. Height	Hr	216(8.50)	235(9.25)	253(9.96)	281(11.06)	307(12.09)
Integral flowmeter	Weight kg (lb) ^{*3}		1.9(4.1)	2.2(4.9)	2.7(5.8)	4.1(9.1)	5.6(12.3)
Integral flowmeter	Max. Height	Hi	254(9.98)	273(10.73)	291(11.44)	319(12.54)	345(13.56)
Integral flowmeter	Weight kg (lb)		3.6(7.8)	3.9(8.7)	4.4(9.6)	5.8(12.9)	7.3(16.0)

*1: When indicator code N is selected, subtract 12 mm (0.47 inch) from the value in the figure. For 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 (Special Gaskets)	+8(0.31)	+30(1.18) -

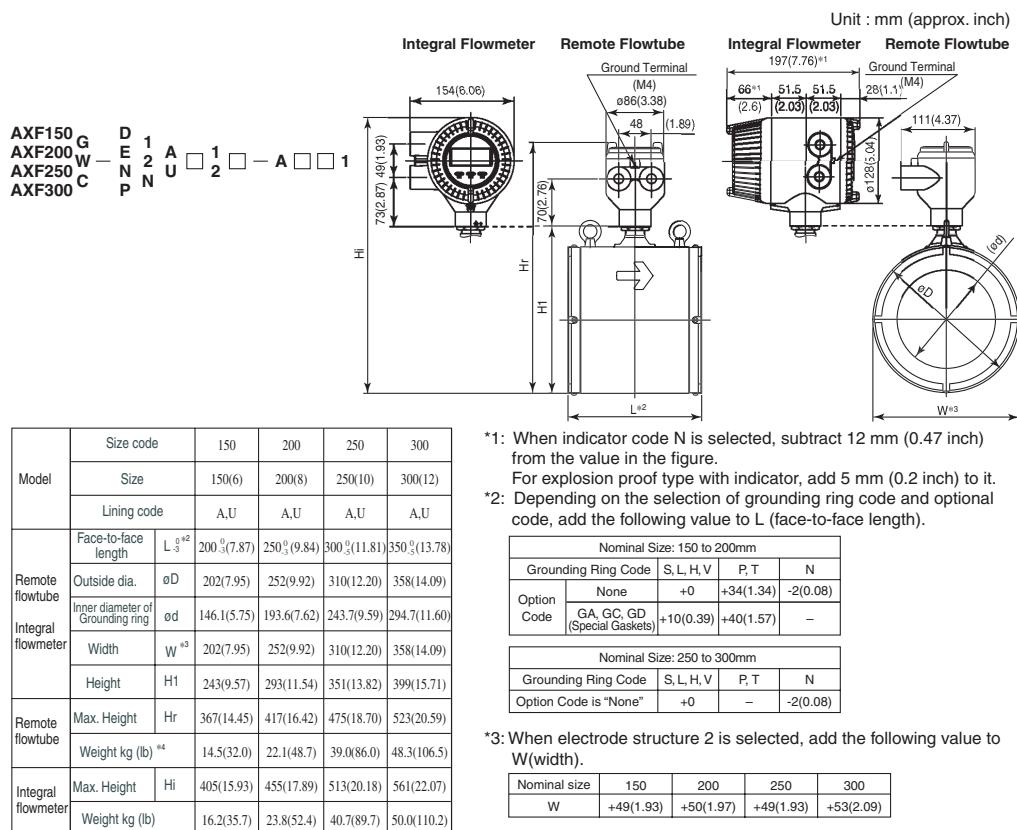
*3: When electrode structure 2 is selected, add the following value to W (width).

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: Waterproof glands and a 30 m (98.4 ft) long cable are attached to each submersible type flowtube. Add 9.5 kg (20.9 lb) to the weight in the table.

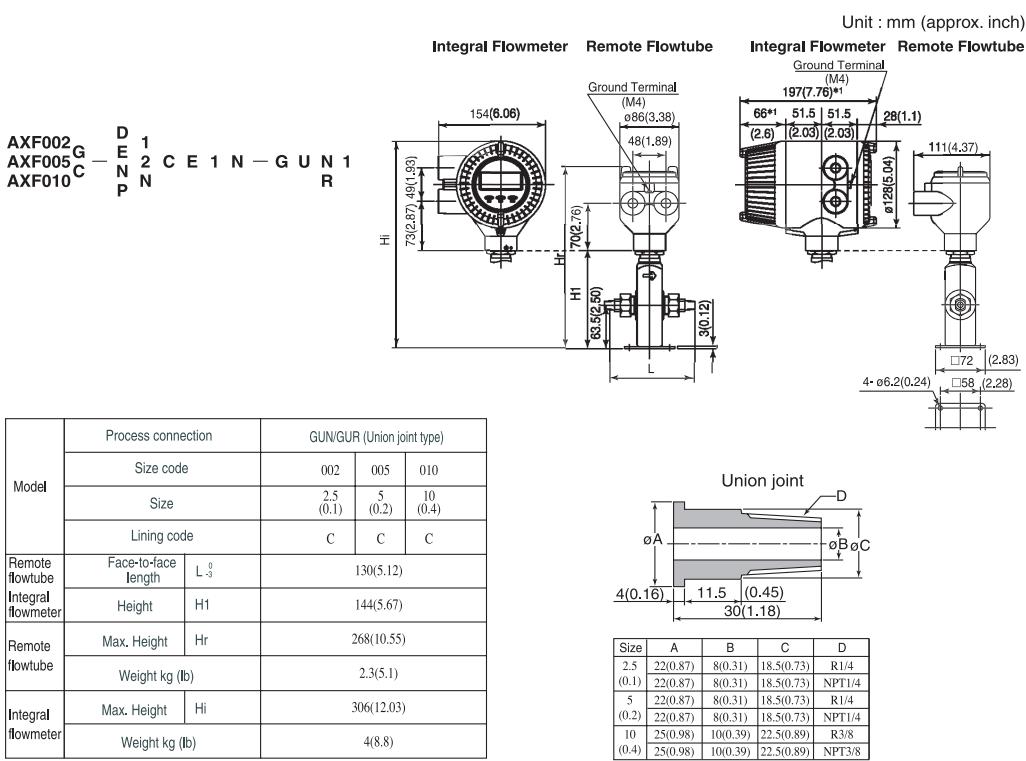
F23.EPS

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



F24.EPS

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

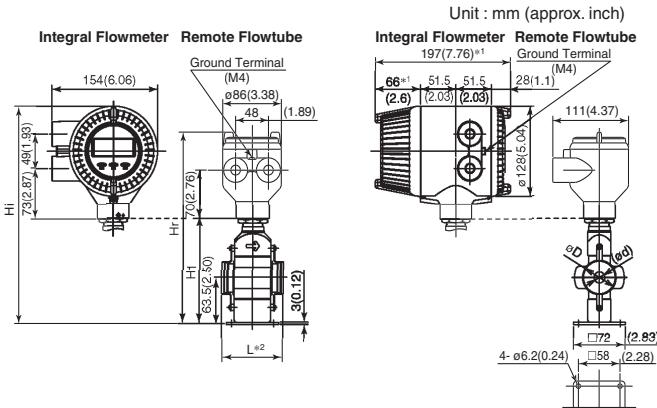


F25.EPS

● AXF Standard, AXF015, Wafer Type, Ceramics Lining

AXF015^G_C - ^D_E ¹₂ C E 1 □ - A □ □ 1
 *3 N P N

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



*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.

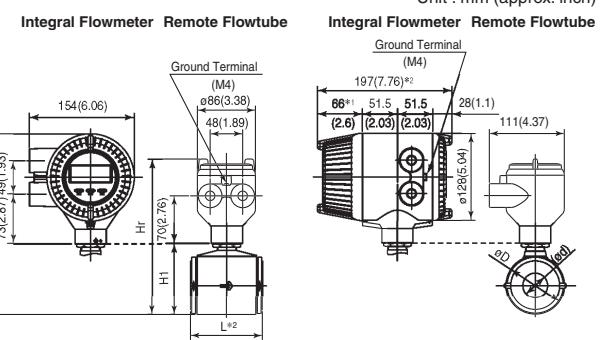
*2: Depending on the selection of grounding ring code and optional code, add the following value to L (face-to-face length).

Grounding Ring Code	S, L, H, V	P, T	N
L(Face-to-face length)	+0	+22(087)	-6(0.24)

F26.EPS

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

AXF025
AXF040
AXF050^G_C - ^D_E ¹₂ C E 1 □ - A □ □ 1
AXF080
AXF100
N P N



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

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

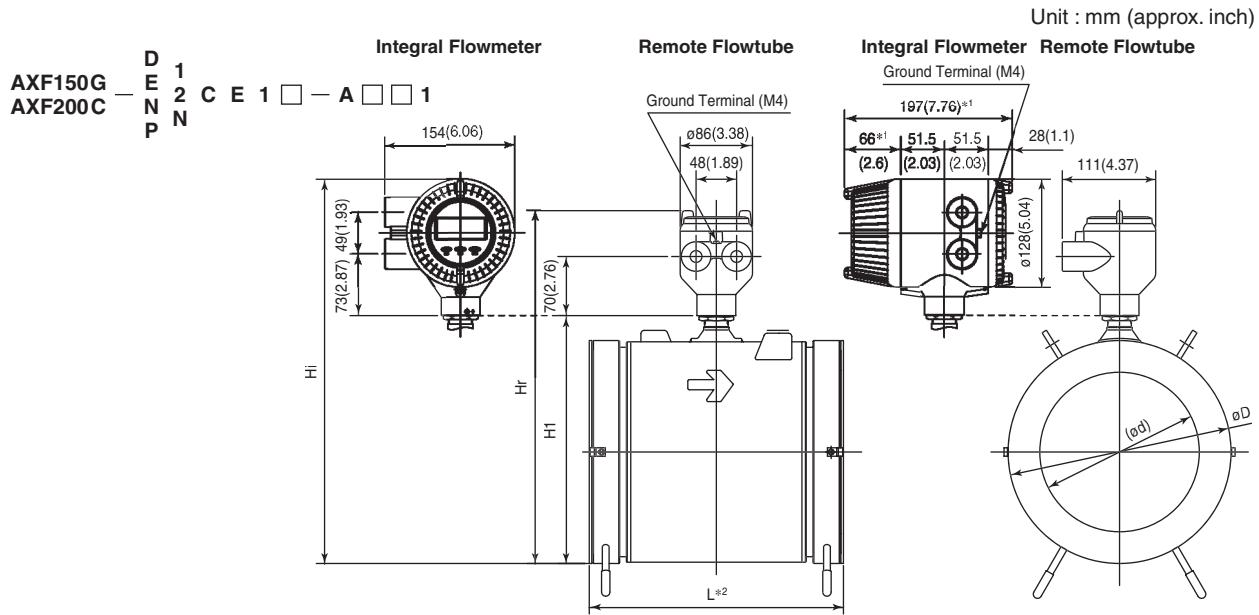
*2: Depending on the selection of grounding ring code and optional code, add the following value to L (face-to-face length).

Grounding Ring Code	S, L, H, V	P, T	N
L(Face-to-face length)	+0	+22(0.87)	-6(0.24)

F27.EPS

Model	Size code		025	040	050	080	100
	Size		25(1)	40(1.5)	50(2)	80(3)	100(4)
	Lining code		C	C	C	C	C
Remote flowtube	Face-to-face length L ⁰	L ⁰ *2	93(3.66)	106(4.17)	120(4.72)	160(6.30)	180(7.09)
Integral flowmeter	Outside dia. øD		67.5(2.66)	86(3.39)	99(3.90)	129(5.08)	155(6.10)
	Inner diameter of Grounding ring ød		27(1.06)	40(1.57)	52(2.05)	81(3.19)	98(3.86)
	Height H1		92(3.62)	111(4.37)	129(5.08)	157(6.18)	183(7.20)
Remote flowtube	Max. Height Hr		216(8.50)	235(9.25)	253(9.96)	281(11.06)	307(12.09)
	Weight kg (lb)		2.3(5.1)	3.2(7.0)	4.1(9.0)	6.8(15.0)	9.6(21.1)
Integral flowmeter	Max. Height Hi		254(9.98)	273(10.73)	291(11.44)	319(12.54)	345(13.56)
	Weight kg (lb)		4.0(8.8)	4.9(10.8)	5.8(12.7)	8.5(18.8)	11.3(24.9)

- 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_{-3}^{0+2}	232(9.13)	302(11.89)
	Outside dia.	ϕD	214(8.43)	264(10.39)
	Inner diameter of Grounding ring	ϕd	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.

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

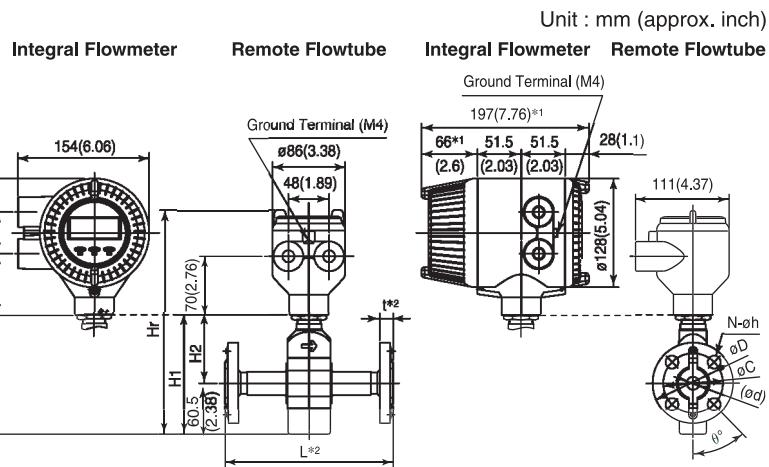
*2: Depending on the selection of grounding ring code and optional code, add the following value to L (face-to-face length).

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, ANSI Flange Type, PFA Lininig

AXF002 G D 1
 AXF005 E 1
 AXF010 W 2 A □ 1 □ - B A 1 1
 AXF015 N N B A 2 1
 AXF015 C P



Model	Process Connection	BA1(ANSI Class 150)				BA2(ANSI Class 300)			
	Size code	002	005	010	015	002	005	010	015
	Size	2.5 (0.1)	5 (0.2)	10 (0.4)	15 (0.5)	2.5 (0.1)	5 (0.2)	10 (0.4)	15 (0.5)
	Lining code	A	A	A	A	A	A	A	A
Remote flowtube	Face-to-face length L ₃ ^{*2}	150(5.91)	200 (7.87)	150(5.91)	200 (7.87)	150(5.91)	200 (7.87)	150(5.91)	200 (7.87)
	Outside dia. øD	88.9(3.50)		95.3(3.75)					
	Thickness t ^{*2}	17 to 22 (0.67 to 0.87)	15.2(0.60)	20 to 25 (0.79 to 0.98)	18.2(0.72)				
	Inner diameter of Grounding ring ød	15(0.59)		15(0.59)					
	Pitch circle dia. øC	60.5(2.38)		66.5(2.62)					
	Bolt hole interval θ°	45		45					
	Hole dia. øh	15.7(0.62)		15.7(0.62)					
Integral flowmeter	Number of holes N	4		4					
	Height H1	141(5.54)		141(5.54)					
	Height H2	80(3.15)		80(3.15)					
Remote flowtube	Max. Height Hr	265(10.43)		265(10.43)					
	Weight kg (lb) ^{*3}	3.3(7.2)		3.7(8.2)					
Integral flowmeter	Max. Height Hi	302(11.89)		302(11.89)					
	Weight kg (lb)	5.0(10.9)		5.4(11.9)					

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

For 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).

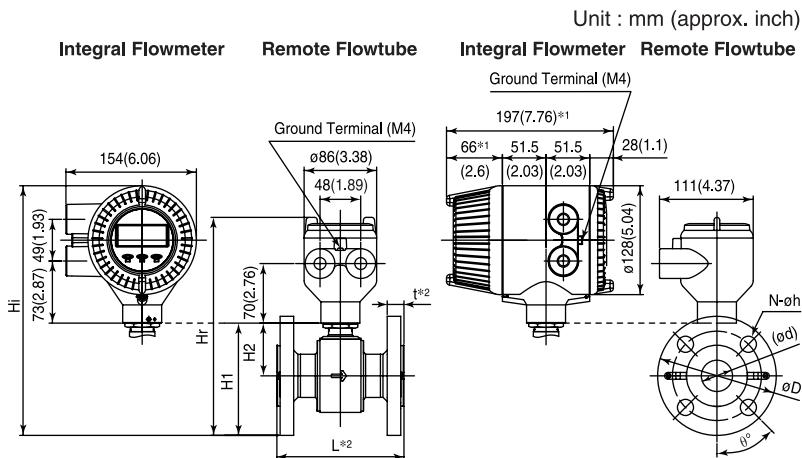
	L	t	L	t	L	t
Grounding Ring Code	S, L, H, V		P, T		N	
Option Code	None	+0	+0	+26(1.02)+13(0.51)	-2(0.08)	-1(0.04)
GA, GC, GD (Special Gaskets)	+8(0.31)	+4(0.16)	+30(1.18)	+15(0.59)	-	-

*3: Waterproof glands and a 30 m (98.4 ft) long cable are attached to each submersible type flowtube. Add 9.5 kg (20.9 lb) to the weight in the table.

F29.EPS

● AXF Standard, AXF025-AXF050, ANSI Flange Type, PFA /Polyurethane Rubber Lining

AXF025 G D 1
AXF032 W E 1 A 1
AXF040 N 2 U 2 B A 1 1
AXF050 C P N B A 2 1



Model	Process Connection		BA1(ANSI Class 150)				BA2(ANSI Class 300)			
	Size code		025	032	040	050	025	032	040	050
	Size		25 (1) (1.25)	32 (1.5)	40 (2)	50 (2)	25 (1) (1.25)	32 (1.5)	40 (2)	50 (2)
Lining code										
Remote flowtube	A,U	A,U	A,U	A,U	A,U	A,U	A,U	A,U	A,U	
	Face-to-face length L ^{*2}	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	
	Outside dia. øD	108.0 (4.25)	117.3 (4.62)	127.0 (5.00)	152.4 (6.00)	124.0 (4.88)	133.4 (5.25)	155.4 (6.12)	165.1 (6.50)	
	Thickness t ^{*2}	18.2 (0.72)	19.7 (0.78)	21.5 (0.85)	23.1 (0.91)	21.5 (0.85)	23.1 (0.91)	24.6 (0.97)	26.4 (1.04)	
	Inner diameter of Grounding ring ød	28 (1.10)	34 (1.34)	41 (1.61)	53 (2.09)	28 (1.00)	34 (1.34)	41 (1.61)	53 (2.09)	
	Pitch circle dia. øC	79.2 (3.12)	88.9 (3.50)	98.6 (3.88)	120.7 (4.75)	88.9 (3.50)	98.6 (3.88)	114.3 (4.50)	127.0 (5.00)	
Integral flowmeter	Bolt hole interval ø [*]	45	45	45	45	45	45	45	22.5	
	Hole dia. øh	15.7 (0.62)	15.7 (0.62)	15.7 (0.62)	19.1 (0.75)	19.1 (0.75)	19.1 (0.75)	22.4 (0.88)	19.1 (0.75)	
	Number of holes	N	4	4	4	4	4	4	8	
	Height H1	112 (4.40)	120 (4.71)	131 (5.17)	155 (6.11)	120 (4.72)	128 (5.02)	146 (5.73)	162 (6.36)	
	Height H2	58 (2.28)	61 (2.40)	68 (2.67)	79 (3.11)	58 (2.28)	61 (2.40)	68 (2.67)	79 (3.11)	
	Max. Height Hr	236 (9.28)	244 (9.59)	255 (10.05)	279 (10.99)	244 (9.60)	252 (9.90)	270 (10.61)	286 (11.24)	
Remote flowtube	Weight kg (lb) ^{*3}	3.9 (8.5)	4.5 (9.9)	5.4 (11.9)	7.4 (16.4)	5.0 (11.0)	5.2 (12.9)	7.8 (17.1)	9.0 (19.8)	
	Max. Height Hi	273 (10.66)	281 (11.06)	299 (11.53)	311 (11.47)	281 (11.07)	289 (11.38)	307 (12.09)	323 (12.72)	
Integral flowmeter	Weight kg (lb)	5.6 (12.2)	6.2 (13.6)	7.1 (15.7)	9 (20.1)	6.7 (14.7)	7.5 (16.6)	9.5 (20.8)	10.7 (23.6)	

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

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

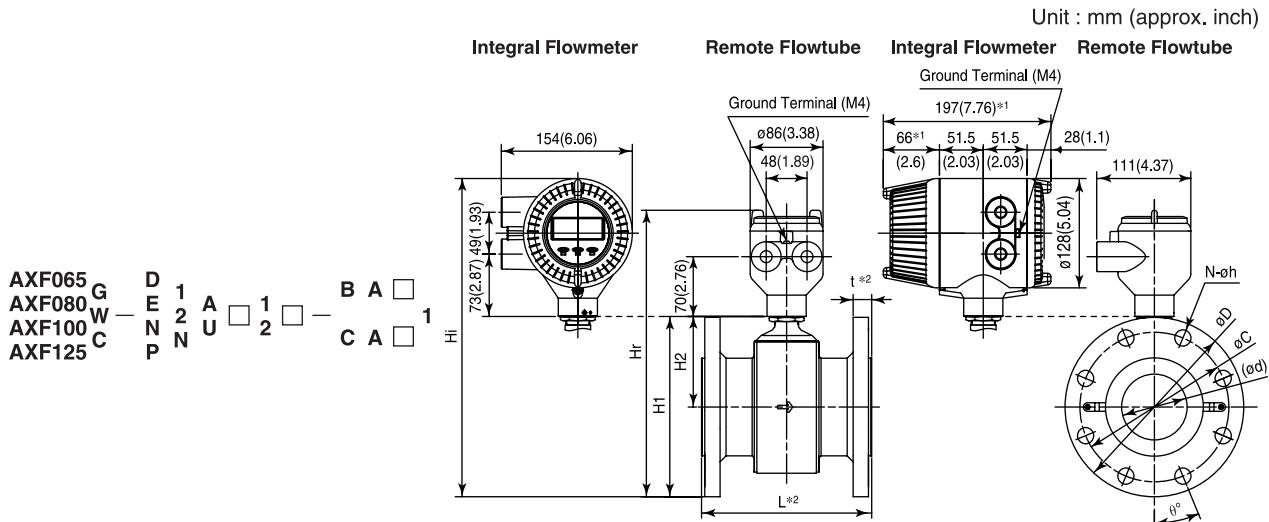
*2: Depending on the selection of grounding ring code and optional code, add the following value to "L" (face-to-face length) and "t" (thickness of flange).

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

*3: Waterproof glands and a 30 m (98.4 ft) long cable are attached to each submersible type flowtube. Add 9.5 kg (20.9 lb) to the weight in the table.

F30.EPS

● AXF Standard, AXF080-AXF100, ANSI Flange Type, PFA /Polyurethane Rubber Lining



Model	Process Connection		BA1,CA1(ANSI Class 150)		BA2,CA2(ANSI Class 300)	
	Size code		080	100	080	100
	Size		80 (3)	100 (4)	80 (3)	100 (4)
Lining code		A,U	A,U	A,U	A,U	
Remote flowtube	Face-to-face length L_{-3}^{*2}	200 (7.87)	250 (9.84)	200 (7.87)	250 (9.84)	
Integral flowmeter	Outside dia. ϕD	190.5 (7.50)	226.6 (9.00)	204.5 (8.02)	250.0 (10.00)	
Remote flowtube	Thickness t^{*2}	27.9 (1.10)	27.9 (1.10)	32.4 (1.28)	35.8 (1.41)	
Integral flowmeter	Inner diameter of Grounding ring ϕd	77 (3.03)	102 (4.02)	77 (3.03)	102 (4.02)	
Integral flowmeter	Pitch circle dia. ϕC	152.4 (6.00)	190.5 (7.50)	168.1 (6.62)	200.2 (7.88)	
Integral flowmeter	Bolt hole interval θ°	45	22.5	22.5	22.5	
Integral flowmeter	Hole dia. ϕh	19.1 (0.75)	19.1 (0.75)	22.4 (0.88)	22.4 (0.88)	
Integral flowmeter	Number of holes N	4	8	8	8	
Integral flowmeter	Height H1	188 (7.40)	220 (8.66)	197 (7.77)	233 (9.16)	
Integral flowmeter	Height H2	93 (3.65)	106 (4.16)	93 (3.65)	106 (4.16)	
Remote flowtube	Max. Height Hr	312 (12.28)	344 (13.54)	321 (12.65)	357 (14.04)	
Remote flowtube	Weight kg (lb) *3	12.9 (28.5)	17.7 (39.1)	16.6 (36.6)	26.8 (59.1)	
Integral flowmeter	Max. Height Hi	347 (13.76)	393 (15.02)	359 (14.3)	394 (15.52)	
Integral flowmeter	Weight kg (lb)	14.6 (32.2)	19.4 (42.8)	18.3 (40.4)	28.5 (62.8)	

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

For 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 (Special Gaskets)	+8(0.31)	+4(0.16)	+30(1.18)	+15(0.59)	-1(0.04)

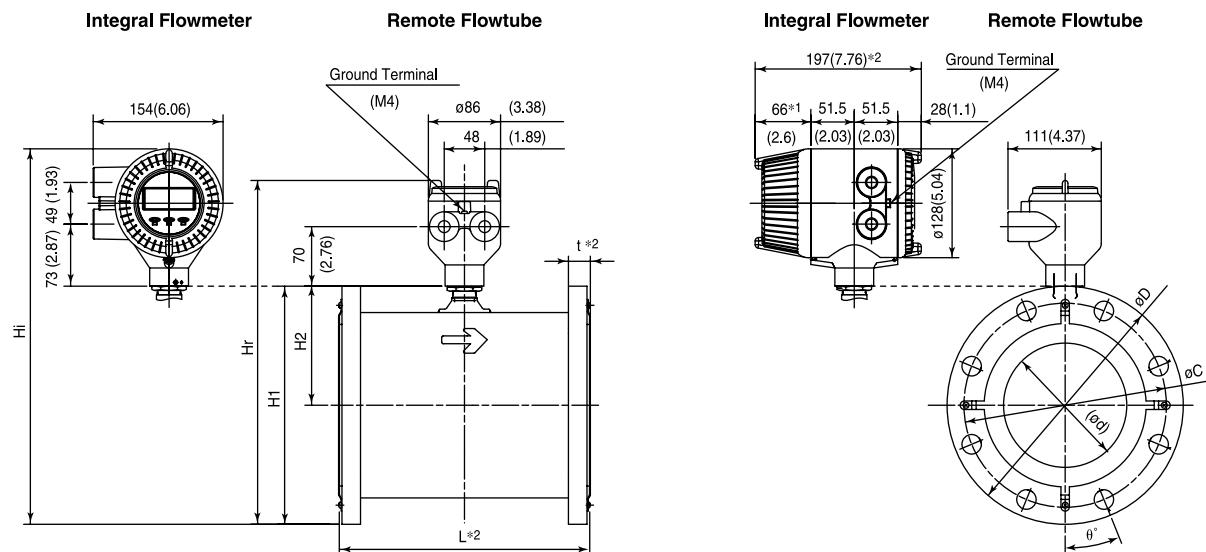
*3: Waterproof glands and a 30 m (98.4 ft) long cable are attached to each submersible type flowtube. Add 9.5 kg (20.9 lb) to the weight in the table.

F31.EPS

● AXF Standard, AXF150, AXF200, ANSI Flange Type, PFA /Polyurethane Rubber Lining

Unit : mm (approx. inch)

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



Model	Process Connection	BA1/CA1(ANSI Class 150)		BA2/CA2(ANSI Class 300)	
		Size code		150	200
		Size		150 (6)	200 (8)
		Lining code		A,U	A,U
Remote flowtube	Face-to-face length	L ⁰ *2 (11.81)	300 (13.78)	350 (11.81)	300 (13.78)
	Outside dia.	øD (11.00)	279.4 (13.50)	342.9 (12.50)	317.5 (15.00)
	Thickness	t ⁰ *2 (1.20)	30.4 (1.31)	33.4 (1.31)	43.5 (1.71)
	Inner diameter of Grounding ring	ød (5.75)	146.1 (7.62)	193.6 (7.62)	146.1 (7.62)
	Pitch circle dia.	øC (9.50)	241.3 (11.75)	298.5 (10.62)	269.7 (13.00)
	Bolt hole interval	θ°	22.5	22.5	15
	Hole dia.	øh (0.88)	22.4 (0.88)	22.4 (0.88)	25.4 (1.00)
	Number of holes	N	8	8	12
Integral flowmeter	Height	H1 (11.05)	281 (13.29)	337 (11.80)	300 (14.04)
	Height	H2 (5.55)	141 (6.54)	166 (5.55)	141 (6.54)
	Max. Height	Hr (15.93)	405 (18.17)	461 (16.68)	424 (18.92)
	Weight kg (lb) ^{*3}		30.9 (68.0)	49.2 (108.4)	52.5 (115.7)
Remote flowtube	Max. Height	Hi (17.41)	442 (19.64)	499 (18.16)	461 (20.39)
	Weight kg (lb)		32.6 (71.8)	50.9 (112.2)	54.2 (119.5)

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

For 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 (Special Gaskets)	+10(0.39)	+5(0.20)	+40(1.57)	+20(0.79)	-	-	

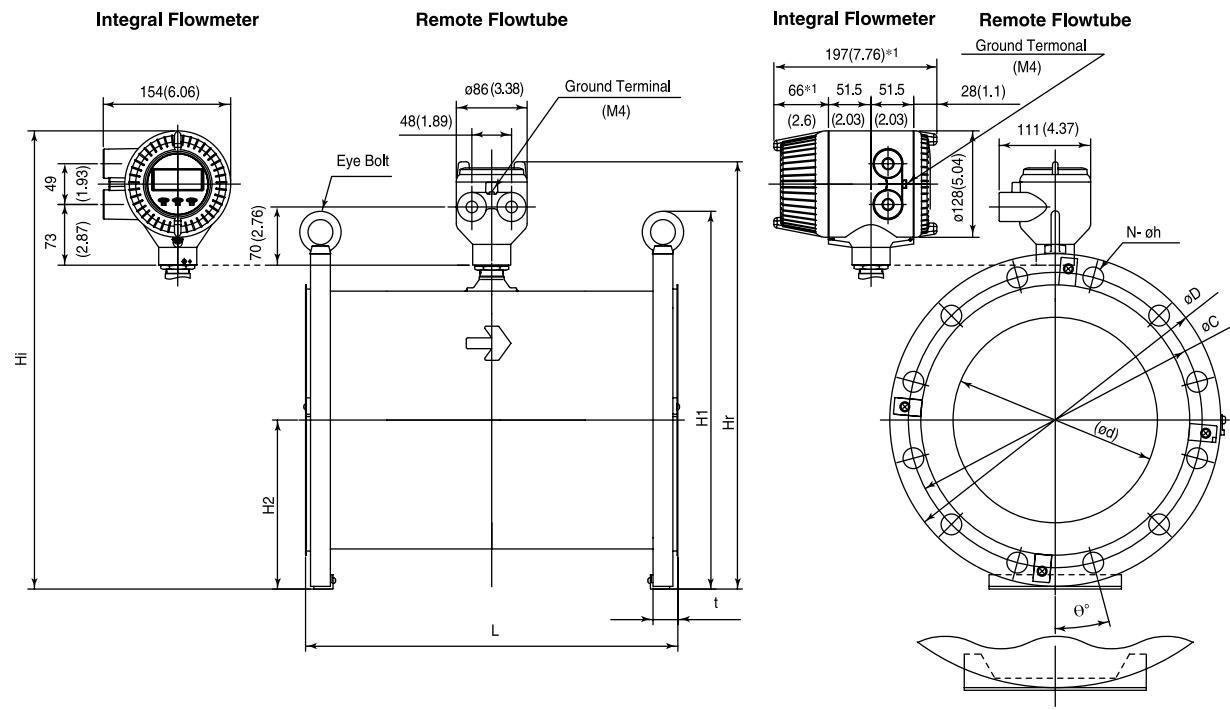
*3: Waterproof glands and a 30 m (98.4 ft) long cable are attached to each submersible type flowtube. Add 9.5 kg (20.9 lb) to the weight in the table.

F32.EPS

● AXF Standard, AXF250-AXF400, ANSI Flange Type, PFA /Polyurethane Rubber Lining

Unit : mm (approx. inch)

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



for AXF300, AXF350, AXF400

Model	Process Connection	BA1/CA1(ANSI Class 150)			BA2/CA2(ANSI Class 300)		
		Size code		250	300	350	400
		Size		(10)	(12)	(14)	(16)
	Lining code	A,U	A,U	A,U	A,U	A,U	A,U
Remote flowtube	Face-to-face length L ^{0*2}	450 (17.72)	500 (19.69)	550 (21.65)	600 (23.62)	450 (17.72)	500 (19.69)
	Outside dia. øD	406.4 (16.00)	482.6 (19.00)	533.4 (21.00)	596.9 (23.50)	444.5 (17.50)	520.7 (20.50)
	Thickness t ^{*2}	38.2 (1.50)	39.7 (1.56)	45.0 (1.77)	46.5 (1.83)	55.7 (2.19)	58.8 (2.31)
Integral flowmeter	Inner diameter of Grounding ring ød	243 (9.57)	291.3 (11.47)	323.4 (12.73)	373.5 (14.70)	243 (9.56)	291.3 (11.47)
	Pitch circle dia. øC	362.0 (14.25)	431.8 (17.00)	476.3 (18.75)	539.8 (21.25)	387.4 (15.25)	450.9 (17.75)
	Bolt hole interval θ°	15	15	15	11.25	11.25	11.25
	Hole dia. øh	25.4 (1.00)	25.4 (1.00)	28.4 (1.12)	28.4 (1.12)	28.4 (1.12)	31.8 (1.25)
	Number of holes N	12	12	12	16	16	16
	Height H1	450 (17.72)	512 (20.16)	563 (22.17)	620 (24.41)	469 (18.46)	531 (20.91)
	Height H2	196 (7.72)	220 (8.66)	236 (9.29)	262 (10.30)	196 (7.72)	2 (8.66)
Remote flowtube	Max. Height Hr	523 (20.60)	585 (23.04)	627 (24.68)	684 (26.93)	542 (21.35)	604 (23.79)
	Weight kg (lb) ^{*3}	83.4 (183.8)	104.5 (230.4)	151.5 (334.0)	184.9 (407.7)	133.0 (293.1)	176.7 (389.5)
Integral flowmeter	Max. Height Hi	561 (22.07)	623 (24.52)	664 (26.15)	722 (28.41)	580 (22.82)	642 (25.27)
	Weight kg (lb)	85.1 (187.6)	106.2 (234.2)	153.2 (337.8)	186.6 (411.4)	134.7 (296.9)	178.4 (393.3)

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

For 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				
	L	t	L	t
Grounding Ring Code	S, L, H, V		N	
Option Code is "None"	+0	+0	-6(0.24)	-3(0.12)

Nominal Size: 350 mm to 400 mm				
	L	t	L	t
Grounding Ring Code	S, L, H, V		N	
Option Code is "None"	+0	+0	-10(0.39)	-5(0.20)

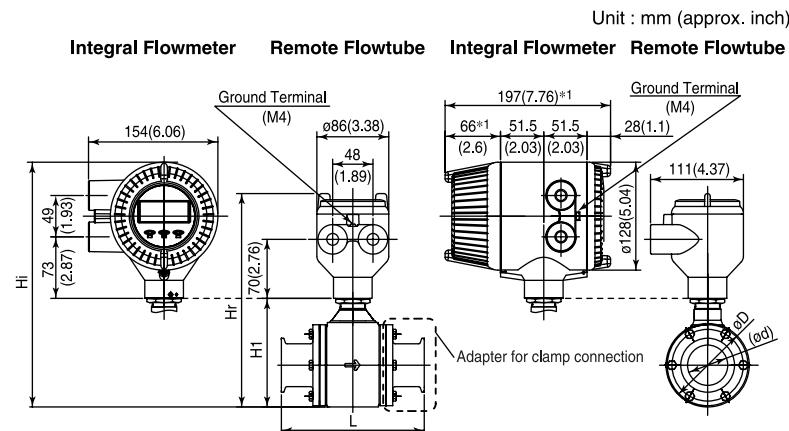
*3: Waterproof glands and a 30 m (98.4 ft) long cable are attached to each submersible type flowtube. Add 9.5 kg (20.9 lb) to the weight in the table.

F33.EPS

● AXF Standard, AXF015-AXF100, Sanitary for Clamp Connection, PFA Lining

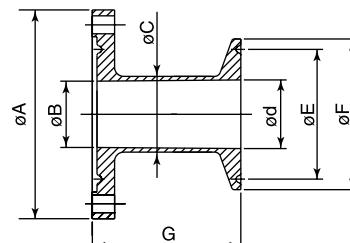
AXF015
AXF025
AXF040
AXF050 H - N 2 A L 1 N - H A B 1
AXF080
AXF100

D 1



Model	Process Connection		HAB (Tri-Clamp)					
	Size code		015	025	040	050	080	100
	Size		15 (0.5)	25 (1)	40 (1.5)	50 (2)	80 (3)	100 (4)
Lining code		A	A	A	A	A	A	A
Remote flowtube	Face-to-face length	L ₋₃	166 (6.55)	166 (6.55)	166 (6.55)	176 (6.94)	216 (8.52)	246 (9.70)
	Outside dia.	øD	73 (2.87)	73 (2.87)	86 (3.39)	99 (3.90)	129 (5.08)	155 (6.10)
	Inner dia.	ød	HAB	—	22.1 (0.87)	34.8 (1.37)	47.5 (1.87)	72.9 (2.87)
Integral flowmeter	Height	H1	97 (3.82)	97 (3.82)	111 (4.37)	129 (5.08)	157 (6.18)	183 (7.20)
	Max. Height	Hr	221 (8.70)	221 (8.70)	235 (9.25)	253 (9.96)	281 (11.06)	307 (12.09)
	Weight kg (lb)		2.7 (6.0)	2.5 (5.5)	2.9 (6.4)	3.6 (7.9)	5.7 (12.6)	8.1 (17.9)
Remote flowtube	Max. Height	Hi	259 (10.18)	259 (10.18)	273 (10.73)	291 (11.44)	319 (12.54)	345 (13.56)
	Weight kg (lb)		4.4 (9.7)	4.2 (9.3)	4.6 (10.1)	5.3 (11.7)	7.4 (16.3)	9.8 (21.6)

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



Adapter for clamp connection

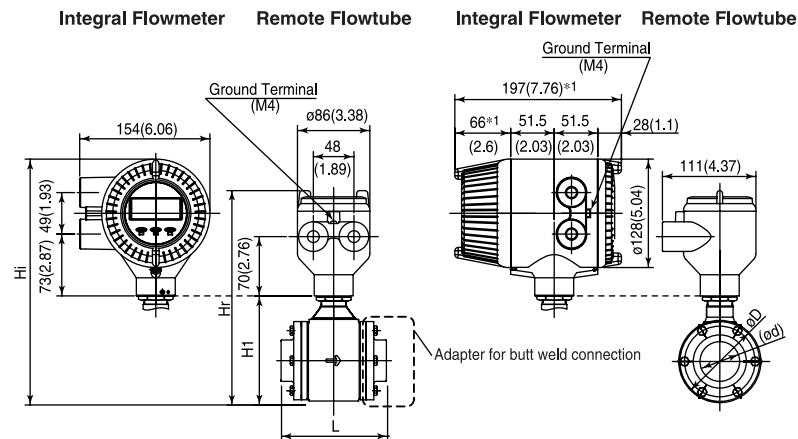
Process Connection	HAB (Tri-Clamp)				
	25	40	50	80	100
øA	70 (2.76)	83 (3.27)	96 (3.78)	126 (4.96)	152 (5.98)
øB	22.2 (0.87)	34.6 (1.36)	47.6 (1.87)	72.3 (2.85)	97 (3.82)
øC	25.4 (1.00)	38.1 (1.50)	50.8 (2.00)	76.2 (3.00)	101.6 (4.00)
ød	22.1 (0.87)	34.8 (1.37)	47.5 (1.87)	72.9 (2.87)	97.4 (3.83)
øE	43.6 (1.72)	43.6 (1.72)	56.3 (2.22)	83.3 (3.28)	110.3 (4.34)
øF	50.4 (1.98)	50.4 (1.98)	64 (2.52)	91 (3.58)	118.9 (4.68)
G	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)
Parts No.	F9811 HV	F9811 HX	F9811 HY	F9811 JA	F9811 JB

F34.EPS

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

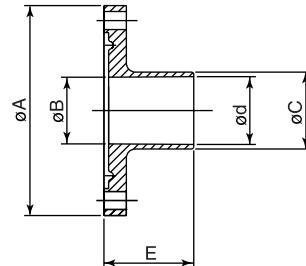
Unit : mm (approx. inch)

AXF015
 AXF040 D 1
 AXF050 E 2
 H - N 2 A L 1 N - K K B 1
 AXF080 N N
 AXF100 P N



Model	Process Connection		KKB (ISO2037 Butt Weld)						
	Size code		015	025	040	050	080	100	
	Size		15 (0.5)	25 (1)	40 (1.5)	50 (2)	80 (3)	100 (4)	
	Lining code		A	A	A	A	A	A	
Remote flowtube	Face-to-face length	L ₃ ⁰	126 (4.98)	126 (4.98)	126 (4.98)	136 (5.37)	176 (6.94)	206 (8.13)	
	Outside dia.	ØD	73 (2.87)	73 (2.87)	86 (3.39)	99 (3.90)	129 (5.08)	155 (6.10)	
	Inner dia.	Ød	KKB	15.2 (0.60)	22.6 (0.89)	35.6 (1.40)	48.6 (1.91)	72.9 (2.87)	97.6 (3.84)
	Height	H1		97 (3.82)	97 (3.82)	111 (4.37)	129 (5.08)	157 (6.18)	183 (7.20)
Remote flowtube	Max. Height	Hr		221 (8.70)	221 (8.70)	235 (9.25)	253 (9.96)	281 (11.06)	307 (12.09)
	Weight kg (lb)			2.6 (5.7)	2.3 (5.1)	2.8 (6.2)	3.4 (7.5)	5.3 (11.7)	7.1 (15.7)
Integral flowmeter	Max. Height	Hi		259 (10.18)	259 (10.18)	273 (10.73)	291 (11.44)	319 (12.54)	345 (13.56)
	Weight kg (lb)			4.3 (9.5)	4 (8.8)	4.5 (9.9)	5.1 (11.2)	7 (15.4)	8.8 (19.4)

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



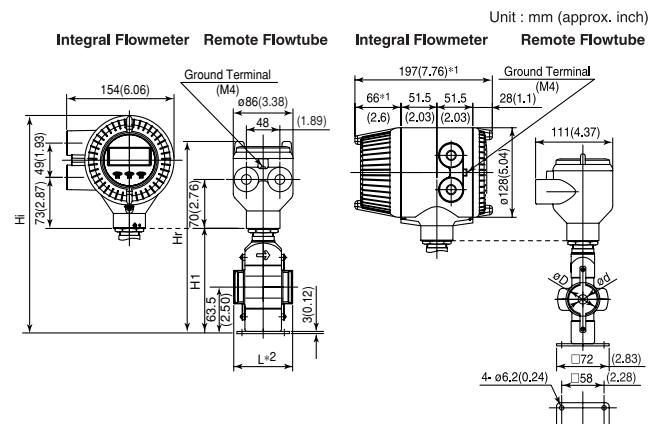
Adapter for butt weld connection

Nominal Size	KKB (ISO2037 Butt Weld)							
	15	25	32	40	50	65	80	100
ØA	70 (2.76)	70 (2.76)	70 (2.76)	83 (3.27)	96 (3.78)	114 (4.49)	126 (4.96)	152 (5.98)
ØB	16 (0.63)	22.2 (0.87)	29.4 (1.16)	34.6 (1.36)	47.6 (1.87)	59.5 (2.34)	72.3 (2.85)	97 (3.82)
ØC	18 (0.71)	25.6 (1.01)	34.3 (1.35)	38.6 (1.52)	51.6 (2.03)	64.1 (2.52)	76.7 (3.02)	123 (4.84)
Ød	15.2 (0.60)	22.6 (0.89)	31.3 (1.23)	35.6 (1.40)	48.6 (1.91)	60.3 (2.37)	72.9 (2.87)	102.5 (3.84)
E	.30 (1.18)	.30 (1.18)	.30 (1.18)	.30 (1.18)	.30 (1.18)	.30 (1.18)	.30 (1.18)	.40 (1.57)
Parts No.	F9811 NN	F9811 NP	F9811 NQ	F9811 NR	F9811 NS	F9811 NT	F9811 NU	F9811 NV
								NW

F36.EPS

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

AXF002 G D 1
AXF005 W E 2 A □ 1 □ - A □ □ 2
AXF010 C N 2 A □ 1 □ - A □ □ 2
AXF015 P N



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 ^{*2}	85(3.35)			
	Outside dia.	ØD	44(1.73)			
Integral flowmeter	Inner diameter of Grounding ring	Ød	15(0.59)			
	Height	H1	141(5.55)			
Remote flowtube	Max. Height	Hr	265(10.43)			
	Weight kg (lb) ^{*3}		2.4(5.3)			
Integral flowmeter	Max. Height	Hi	303(11.91)			
	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.
For 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).

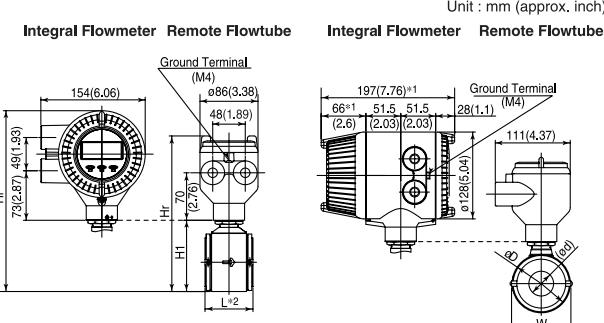
Grounding Ring Code	S, L, H, V	P, T	N
Option Code	None	+0	+22(0.87) -6(0.24)
GA, GC, GD (Special Gaskets)	+2(0.08)	+24(0.94)	-

*3: Waterproof glands and a 30 m (98.4 ft) long cable are attached to each submersible type flowtube. Add 9.5 kg (20.9 lb) to the weight in the table.

F37.EPS

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

AXF025
AXF040 G D 1
AXF050 W E 2 A □ 1 □ - A □ □ 2
AXF080 C N 2 U □ 1 □ - A □ □ 2
AXF100 P N



Model	Size code		025	040	050	080	100
	Size		25(1)	40(1.5)	50(2)	80(3)	100(4)
	Lining code		A,U	A,U	A,U	A,U	A,U
Remote flowtube	Face-to-face length	L ^{*2}	93(3.66)	106(4.17)	120(4.72)	160(6.30)	180(7.09)
	Outside dia.	ØD	67.5(2.66)	86(3.39)	99(3.90)	129(5.08)	155(6.10)
Integral flowmeter	Inner diameter of Grounding ring	Ød	27(1.06)	40(1.57)	52(2.05)	81(3.19)	98(3.86)
	Width	W	67.5(2.66)	86(3.39)	99(3.90)	129(5.08)	155(6.10)
Remote flowtube	Height	H1	92(3.62)	111(4.37)	129(5.08)	157(6.18)	183(7.20)
	Max. Height	Hr	216(8.50)	235(9.25)	253(9.96)	281(11.06)	307(12.09)
Integral flowmeter	Weight kg (lb) ^{*3}		2.3(5.0)	2.9(6.3)	3.5(7.7)	5.8(12.9)	7.9(17.3)
	Max. Height	Hi	254(9.98)	273(10.73)	291(11.44)	319(12.54)	345(13.56)
	Weight kg (lb)		4.0(8.7)	4.6(10.1)	5.2(11.4)	7.5(16.6)	9.6(21.1)

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

*2: For 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).

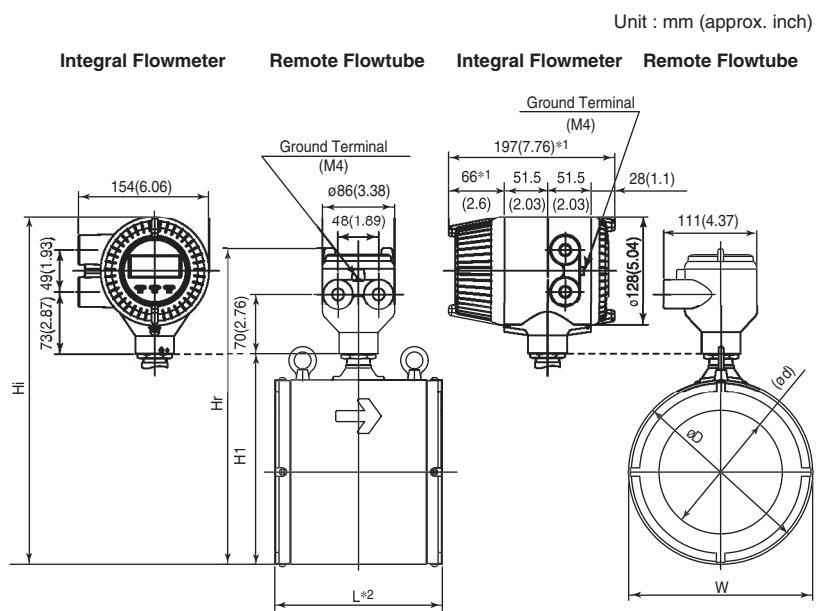
Grounding Ring Code	S, L, H, V	P, T	N
Option Code	None	+0	+22(0.87) -6(0.24)
GA, GC, GD (Special Gaskets)	+2(0.08)	+24(0.94)	-

*3: Waterproof glands and a 30 m (98.4 ft) long cable are attached to each submersible type flowtube. Add 9.5 kg (20.9 lb) to the weight in the table.

F38.EPS

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

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



Model	Size code		150	200
	Size		150(6)	200(8)
	Lining code		A,U	A,U
Remote flowtube	Face-to-face length	L ⁰ *2	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) ^{*3}		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.

For 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) -6(0.24)
	GA, GC, GD (Special Gaskets)	+2(0.08)	+32(1.26) -

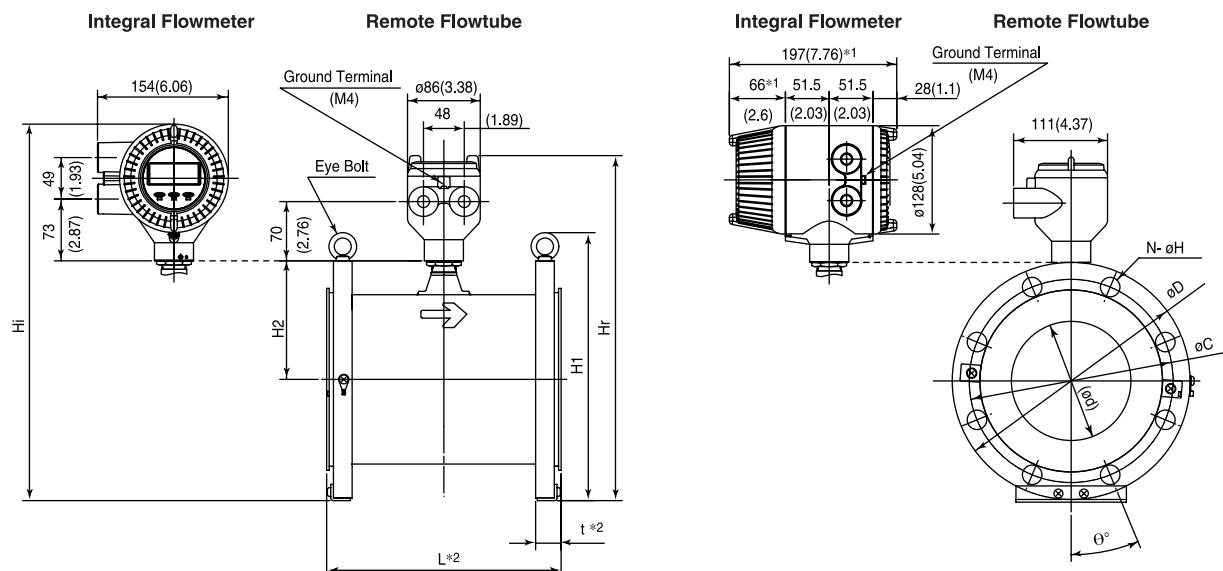
*3: Waterproof glands and a 30 m (98.4 ft) long cable are attached to each submersible type flowtube. Add 9.5 kg (20.9 lb) to the weight in the table.

F39.EPS

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

AXF150 G D 1 A □ 1 □ — C A □ 2
 AXF200 W E 2 N U □ 2 □ — C A □ 2
 AXF250 C N N P

Unit : mm (approx. inch)



Model	Process Connection		CA1(ANSI Class 150)			CA2(ANSI Class 300)		
	Size code		150	200	250	150	200	250
	Size		150 (6)	200 (8)	250 (10)	150 (6)	200 (8)	250 (10)
Lining code		A.U	A.U	A.U	A.U	A.U	A.U	A.U
Remote flowtube	Face-to-face length	L*2	270 ₀ ³ (10.63)	340 ₀ ³ (13.39)	430 ₀ ³ (16.93)	270 ₀ ³ (10.63)	340 ₀ ³ (13.39)	430 ₀ ³ (16.93)
	Outside dia.	øD	279.4 (11.00)	342.9 (13.50)	406.4 (16.00)	317.5 (12.50)	381.0 (15.00)	444.5 (17.50)
	Thickness	t *2	32.4 (1.28)	35.4 (1.39)	38.2 (1.50)	45.5 (1.79)	48.1 (1.89)	55.7 (2.19)
	Inner diameter of Grounding ring	ød	140.7 (5.54)	188.9 (7.44)	239.1 (9.41)	140.7 (5.54)	188.9 (7.44)	239.1 (9.41)
	Pitch circle dia.	øC	241.3 (9.50)	298.5 (11.75)	362.0 (14.25)	269.7 (10.62)	330.2 (13.00)	387.4 (15.25)
	Bolt hole interval	θ°	22.5	22.5	15	15	15	11.25
	Hole dia.	øh	22.4 (0.88)	22.4 (0.88)	25.4 (1.00)	22.4 (0.88)	25.4 (1.00)	28.4 (1.12)
Integral flowmeter	Number of holes	N	8	8	12	12	12	16
	Height	H1	322 (12.68)	379 (14.92)	450 (17.72)	341 (13.43)	398 (15.67)	469 (18.46)
	Height	H2	141 (5.55)	166 (6.54)	196 (7.72)	141 (5.55)	166 (6.54)	196 (7.72)
	Max. Height	Hr	405 (15.93)	461 (18.17)	523 (20.60)	424 (16.68)	481 (18.92)	542 (21.35)
Remote flowtube	Weight kg (lb)*3		32.1 (70.7)	50.9 (112.2)	77.4 (170.6)	53.7 (118.4)	80.5 (177.5)	127.0 (279.9)
	Max. Height	Hi	442 (17.41)	499 (19.64)	561 (22.07)	461 (18.16)	518 (20.39)	580 (22.82)
Integral flowmeter	Weight kg (lb)		33.8 (74.4)	52.6 (115.9)	79.1 (174.4)	55.4 (122.1)	82.2 (181.2)	128.7 (283.6)

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

For 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 (Special Gaskets)	+2(0.08)	+1(0.04)	+40(1.58)	+20(0.79)	-	-

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

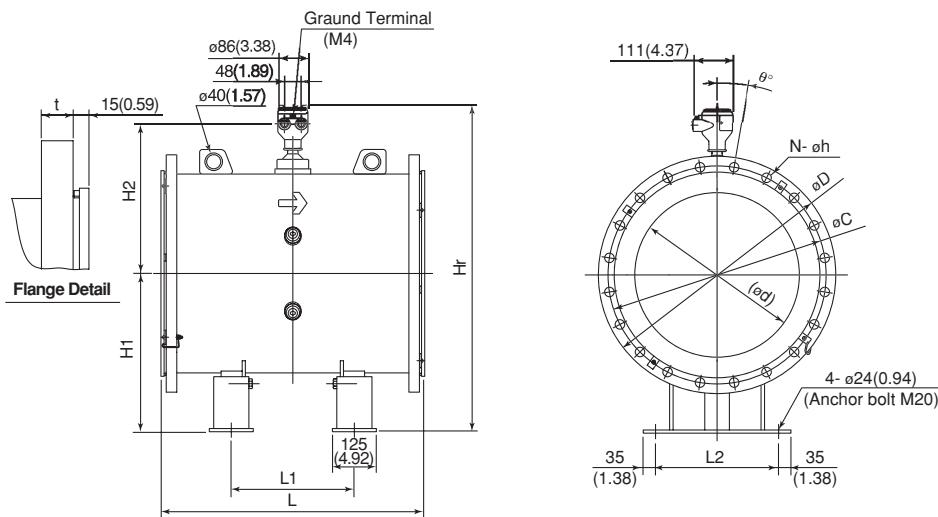
*3: Waterproof glands and a 30 m (98.4 ft) long cable are attached to each submersible type flowtube. Add 9.5 kg (20.9 lb) to the weight in the table.

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)



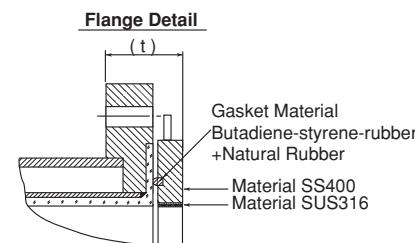
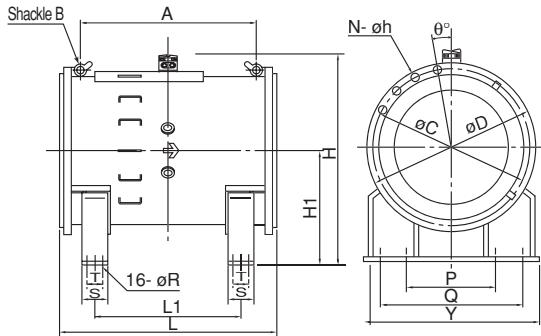
Model	Process Connection		CJ1(JIS10K)					CG1(JIS F12)					CA1(ANSI Class 150)					CD1(DIN PN10)				
	Size code		500	600	700	800	900	10L	500	600	700	800	900	10L	500	600	700	800	900	10L		
	Size		500 (20)	600 (24)	700 (28)	800 (32)	900 (36)	1000 (40)	500 (20)	600 (24)	700 (28)	800 (32)	900 (36)	1000 (40)	500 (20)	600 (24)	700 (28)	800 (32)	900 (36)	1000 (40)		
	Lining code		U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Remote Flowtube	Face-to-face length	L	750 (29.53)	800 (31.50)	900 (35.43)	1050 (41.34)	1200 (47.24)	1300 (51.18)	750 (29.53)	800 (31.50)	900 (35.43)	1050 (41.34)	1200 (47.24)	1300 (51.18)	750 (29.53)	800 (31.50)	900 (35.43)	1050 (41.34)	1200 (47.24)	1300 (51.18)		
	Support interval	L1	350 (13.78)	400 (15.75)	450 (17.72)	550 (21.65)	700 (25.59)	800 (27.56)	350 (13.78)	400 (15.75)	450 (17.72)	550 (21.65)	700 (25.59)	800 (27.56)	350 (13.78)	400 (15.75)	450 (17.72)	550 (21.65)	700 (25.59)	800 (27.56)		
	Mounting bolt interval	L2	350 (13.78)	400 (15.75)	500 (19.69)	650 (21.65)	650 (25.59)	750 (27.56)	350 (13.78)	400 (15.75)	500 (19.69)	650 (21.65)	750 (27.56)	800 (27.56)	350 (13.78)	400 (15.75)	500 (19.69)	650 (21.65)	750 (27.56)	800 (27.56)		
	Outside dia.	oD	675 (26.57)	795 (31.30)	905 (35.63)	1020 (40.16)	1120 (44.09)	1235 (48.62)	706 (27.80)	810 (31.89)	928 (36.54)	1034 (40.71)	1156 (45.51)	1262 (49.69)	698.5 (27.50)	812.8 (32.00)	917.8 (26.38)	1070 (30.71)	1115 (35.24)	1230 (39.96)	1300 (43.90)	
	Thickness	t	30 (1.18)	32 (1.26)	34 (1.34)	36 (1.42)	38 (1.50)	40 (1.57)	30 (1.18)	33 (1.30)	35 (1.37)	37 (1.46)	39 (1.54)	41 (1.61)	42.9 (1.69)	47.7 (1.88)	52.8 (1.90)	57.3 (1.98)	62.4 (2.06)	67.5 (2.14)	72.6 (2.22)	
	Inner diameter of Grounding ring	oD	460 (18.43)	560 (21.17)	660 (24.18)	760 (27.12)	850 (30.56)	950 (37.09)	460 (18.43)	560 (21.17)	660 (24.18)	760 (27.12)	850 (30.56)	950 (37.09)	468 (18.50)	565 (21.20)	663 (24.00)	763 (26.80)	863 (30.12)	963 (33.66)	942 (37.09)	
	Pitch circle dia.	oC	620 (24.41)	730 (28.74)	840 (33.07)	950 (37.40)	1050 (41.34)	1160 (45.67)	639 (25.16)	743 (29.25)	854 (33.62)	960 (37.80)	1073 (42.24)	1179 (46.42)	635 (25.00)	749.3 (29.50)	820 (25.00)	925 (29.50)	1025 (30.54)	1120 (34.41)	1225 (45.67)	
	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	7.5	7.5	6.4	
	Hole dia.	oh	27 (1.06)	33 (1.30)	33 (1.30)	33 (1.30)	33 (1.30)	39 (1.54)	27 (1.06)	27 (1.06)	33 (1.30)	33 (1.30)	33 (1.30)	33 (1.30)	31.7 (1.25)	35 (1.38)	26 (1.26)	30 (1.26)	33 (1.30)	33 (1.30)	36 (1.42)	
	Number of holes	N	20	24	24	28	28	28	12	16	16	16	20	20	24	20	20	20	24	28	28	
	Height	H1	450 (17.72)	500 (19.69)	550 (21.65)	600 (25.59)	650 (27.56)	700 (27.56)	450 (17.72)	500 (19.69)	550 (21.65)	600 (25.59)	650 (27.56)	700 (27.56)	450 (17.72)	500 (19.69)	550 (21.65)	600 (25.59)	650 (27.56)	700 (27.56)		
	Height	H2	426 (16.77)	474 (18.66)	529 (20.83)	584 (22.99)	633 (24.92)	682 (26.85)	435 (17.13)	486 (19.13)	536 (21.10)	589 (23.19)	645 (25.39)	697 (27.44)	426 (16.77)	474 (18.66)	529 (20.83)	584 (22.99)	633 (24.92)	682 (26.85)		
	Max. Height	Hr	360 (49.47)	400 (44.61)	450 (44.61)	480 (44.61)	510 (49.47)	580 (52.64)	530 (55.54)	590 (55.97)	620 (60.94)	680 (68.04)	745 (71.11)	800 (75.13)	360 (49.47)	450 (54.51)	525 (49.51)	582 (56.54)	639 (56.54)	700 (56.54)		
	Weight kg (lb)*1		260 (573.2)	400 (881.8)	510 (881.8)	680 (1124.4)	710 (1124.4)	870 (1124.4)	1200 (1499.1)	1250 (1499.1)	1300 (1499.1)	1360 (1499.1)	1420 (1499.1)	1480 (1499.1)	360 (793.7)	450 (992.1)	525 (557.8)	582 (842.2)	639 (1080.3)	700 (1452.8)	762 (1860.7)	

*1: 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.

F48.EPS

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

**AXF11L G
AXF12L W — NNUL 1S — CG11
AXF13L W**



Unit : mm (approx. inch)

Model	Process Connection		CG1(JIS F12)		
	Size code		11L	12L	13L
	Size	1100 (44)	1200 (48)	1350 (54)	
	Lining code	U	U	U	
	Face-to-face length	L	1650 ⁰ ₋₁₀ (64.96)	1800 ⁰ ₋₁₀ (70.87)	2025 ⁰ ₋₁₀ (79.72)
Shackle	Interval	A	1325 (52.17)	1470 (57.87)	1640 (64.57)
	Size	B	SB24	SB24	SB30
Support	Width	S	200 (7.87)	200 (7.87)	200 (7.87)
	Length	Y	1280 (50.39)	1380 (54.33)	1540 (60.63)
	Interval	L1	1211 (47.88)	1265 (49.65)	1366 (53.88)
Mounting Bolt	Interval	P	720 ^{±2} (28.35)	780 ^{±2} (30.71)	880 ^{±2} (34.65)
	Q	1100 ^{±3} (43.31)	1200 ^{±3} (47.24)	1350 ^{±3} (53.18)	
	T	130 ^{±1} (5.12)	130 ^{±1} (5.12)	130 ^{±1} (5.12)	
	Hole dia.	R	19 (0.75)	19 (0.75)	19 (0.75)
	Outside dia.	øD	1366 (53.78)	1470 (57.87)	1642 (64.65)
	Thickness	t ^{*1}	78 (3.07)	80 (3.15)	82 (3.23)
	Pitch circle dia.	øC	1283 (50.51)	1387 (54.61)	1352 (51.10)
	Bolt hole interval	θ°	7.5	6.4	6.4
	Hole dia.	øh	33 (1.30)	33 (1.30)	39 (1.54)
	Number of holes	N	24 (0.94)	28 (1.10)	28 (1.10)
	Height	H1	950 ⁺¹⁰ (37.40)	1000 ⁺¹⁰ (39.37)	1100 ⁺¹⁰ (43.31)
	Max. Height	H	1698 (66.95)	1803 (70.98)	1974 (77.72)
	Weight kg (lb) ^{*2}		1650 (3637.6)	1910 (4210.8)	2420 (5335.2)

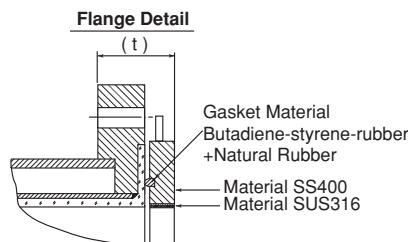
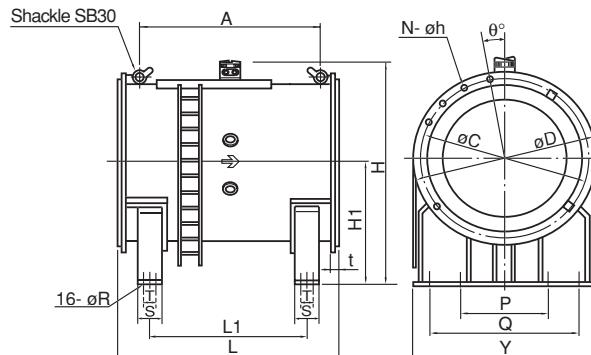
*1: The value before the gasket is tightened.

*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



Unit : mm (approx. inch)

Model	Process Connection		CG1(JIS F12)		
	Size code		15L	1500	1600
	Size	1500 (60)	1500 (60)	1500 (66)	1600 (66)
	Lining code	U			
	Face-to-face length	L	2250 ⁰ ₋₁₀ (88.58)	1860 (73.23)	1860 (73.23)
Shackle	Interval	A	1860 (73.23)		
	Size	B	SB30		
Support	Width	S	200 (7.87)		
	Length	Y	1700 (66.93)		
	Interval	L1	1490 (58.56)		
Mounting Bolt	Interval	P	1880 ^{±2} (38.58)		
	Q	1500 ^{±3} (59.06)			
	T	130 ^{±1} (5.12)			
	Hole dia.	R	19 (0.75)		
	Outside dia.	øD	1800 (70.87)		
	Thickness	t ^{*1}	85 (3.35)		
	Pitch circle dia.	øC	1710 (67.32)		
	Bolt hole interval	θ°	5.6		
	Hole dia.	øh	39 (1.54)		
	Number of holes	N	32 (1.26)		
	Height	H1	1200 ⁺¹⁶ (47.24)		
	Max. Height	H	2155 (84.84)		
	Weight kg (lb) ^{*2}		3150 (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

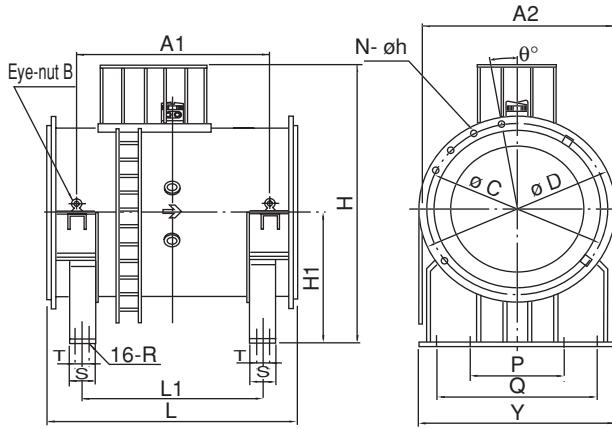
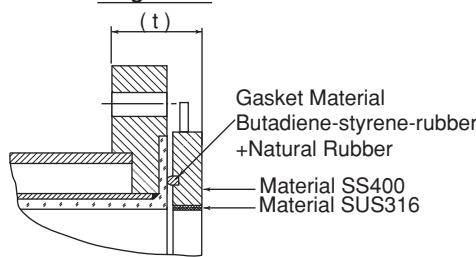
— NNUL 1S — CG11

AXF22L W

AXF24L

AXF26L

Unit : mm (approx. inch)

**Flange Detail**

Model	Process Connection		CG1(JIS F12)					
	Size code		16L	18L	20L	22L	24L	
	Size	1600 (64)	1800 (72)	2000 (80)	2200 (88)	2400 (96)	2600 (104)	
	Lining code	U	U	U	U	U	U	
Eye-nut	Face-to-face length	L	2400 ⁰ ₋₁₀ (94.49)	2610 ⁰ ₋₁₀ (102.76)	2800 ⁰ ₋₁₀ (110.24)	2970 ⁰ ₋₁₀ (116.93)	3120 ⁰ ₋₁₀ (122.83)	3300 ⁰ ₋₁₀ (129.92)
	Interval 1	A1	1834 (72.20)	2022 (79.61)	2191 (86.26)	2325 (91.54)	2421 (95.31)	2550 (100.39)
	Interval 2	A2	1872 (73.70)	2078 (81.81)	2300 (90.55)	2520 (99.21)	2724 (107.24)	2946 (115.98)
Support	Size	B	M48	M48	M48	M64	M64	
	Width	S	250 (9.84)	250 (9.84)	300 (11.81)	300 (11.81)	300 (11.81)	300 (11.81)
	Length	Y	1850 (72.83)	2000 (78.74)	2220 (87.40)	2420 (95.28)	2620 (103.15)	2820 (111.02)
Remote Flowtube	Interval	L1	1698 (66.85)	1864 (73.39)	2010 (79.13)	2172 (85.51)	2218 (87.32)	2300 (90.55)
	Mounting Bolt	P	1080±3 (42.52)	1180±3 (46.46)	1300±3 (51.18)	1430±3 (56.30)	1560±3 (61.42)	1700±3 (66.93)
		Q	1650±3 (64.96)	1800±3 (70.87)	2000±3 (78.74)	2200±3 (86.61)	2400±3 (94.49)	2600±3 (102.36)
Hole dia.	Interval	T	170±1 (6.69)	170±1 (6.69)	170±1 (6.69)	200±1 (7.87)	200±1 (7.87)	200±1 (7.87)
	Outside dia.	R	22 (0.87)	22 (0.87)	22 (0.87)	22 (0.87)	22 (0.87)	22 (0.87)
		øD	1915 (75.39)	2115 (83.27)	2325 (91.54)	2550 (100.39)	2760 (108.66)	2960 (116.54)
Thickness	Thickness	t ^{*1}	88 (3.46)	90 (3.54)	92 (3.62)	95 (3.74)	97 (3.82)	101 (3.98)
			1820 (71.65)	2020 (79.53)	2230 (87.80)	2440 (96.06)	2650 (104.33)	2850 (112.20)
	Pitch circle dia.	øC						
Bolt hole interval	Height	H1	1280 ₀ ⁺¹⁶ (50.39)	1350 ₀ ⁺¹⁶ (53.15)	1450 ₀ ⁺¹⁶ (57.09)	1550 ₀ ⁺¹⁶ (61.02)	1700 ₀ ⁺¹⁶ (66.93)	1700 ₀ ⁺¹⁶ (66.93)
	Max. Height	H	2972 (117.01)	3153 (124.13)	3347 (131.77)	3554 (139.92)	3813 (150.12)	3917 (154.21)
	Weight kg (lb) ^{*2}		3650 (8046.9)	5270 (11618.3)	approx. (14330.0)	approx. (18518.8)	approx. (22046.2)	approx. (31967.0)

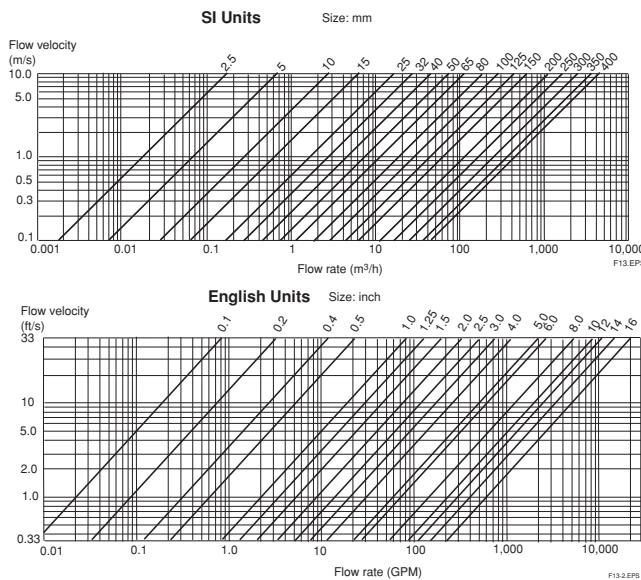
*1: The value before the gasket is tightened.

*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

■ SIZING DATA (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.

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

Note 2: Some options, if ordered, require the relevant specifications be supplied.

1. Model, specification and option codes.
2. Converter for combined use (when ordering a remote type 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 up to 16 characters in a combination of letters (upper or lower case), numbers, “-” and “.”. If specified, the tag number is inscribed on the product's name plate and tag plate (if optional code SCT is selected). For HART protocol, up to 8 characters can be specified.

4. Flow rate spans and units

Values of flow rate spans should be specified up to five digits (up to 99999) excluding the decimal point if any. AXF products of the integral type are set to the first range in the forward direction. Remote flow tubes 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 will be set. If not specified, the relevant product is delivered with the setting at 0 pulse/second.

6. Totalizer display pulse weight

If specified, volume per pulse will be set. If not specified, the relevant product is delivered with the setting at 0 pulse/second.

7. Fluid name