General Specifications

GS 01E20D01-01E

AXF
Magnetic Flowmeter
Integral Flowmeter
/Remote Flowtube

ADMAG AXF™

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

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

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

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

FOUNDATION Fieldbus protocol type is also available.

Integral Flowmeter

Remote Flowtube

■ FEATURES

Refer to GS 01E20F02-01E for Fieldbus communication type marked with "◇"

● User-oriented Functionality

Fluid Adhesion Level Diagnosis

By constantly monitoring the level of insulating substance on the electrodes, it is possible to determine when maintenance is required.
With the utilization of an optional replaceable electrode, the electrodes can be easily removed from the flowmeter and cleaned.

Flexible Electrical Connection Direction

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

Clear and Versatile Indications

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

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

"Easy Setup" Parameters "◇"

The most frequently used parameters are arranged in a group at the top.
The infra-red switches enable the users to set parameters without opening the cover.

● Expansion of Product Lineup

Improved Accuracy Specification

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

Extra Small Size Flange Type

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

Various Sanitary Connections

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

● Enhanced Performance and Specifications

Enhanced Dual Frequency Excitation Method

The "Enhanced Dual Frequency Excitation Method" can be optionally selected.
For difficult applications such as for high concentration slurries or low conductivity fluid, extremely stable measurements can be realized.

Improved Minimum Conductivity

The newly designed AXF converter permits the measurement of fluids with conductivity as low as 1μS/cm.

High-Speed Pulse Output "◇"

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

Versatile Input/ouput Function Now Available for Integral Flowmeter "◇"

CONTENTS

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GS 01E20D01-01E

7th Edition May 2006

■ STANDARD SPECIFICATIONS

● Converter (Integral flowmeter)

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

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

Input Signal (*1) "◇":
One Status Input: Dry contact
Load Resistance: 200 Ω or less (ON), 100 kΩ or more (OFF)

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

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

BRAIN:

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

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

Load Capacitance: 0.22 μF or less

Load Inductance: 3.3 mH or less

Input Impedance of Communicating Device:
10 kΩ or more (at 24 kHz)

HART:

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

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

Cable Length for Specific Applications:
Use the following formula to determine the cable length for specific applications.

$$L = \frac{65\times10^6}{(R\times C)} - \frac{(Cf+10{,}000)}{C}$$

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

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

Data Security During Power Failure:
Data (parameters, totalizer value, etc.) storage by EEPROM. No back-up battery required.

Indicator (*2):
Full dot-matrix LCD (32×132 pixels)

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

Protection:
General-purpose Use/Sanitary Type/TIIS Flameproof type:
IP66, IP67, JIS C0920 immersion-proof type
Explosion proof type except TIIS:
In case of explosion proof type except TIIS, refer to description of "Enclosure" in "HAZARDOUS AREA CLASSIFICATION".

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

Converter Material:
Case and Cover : Aluminum alloy

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

Grounding:
Grounding resistance 100 Ω or less
When optional code A is selected, grounding resistance 10 Ω or less shall be applied.
* In case of explosion proof type except TIIS, follow the domestic electrical requirements as regulated in each country.
* In case of TIIS Flameproof type, refer to description of "HAZARDOUS AREA CLASSIFICATION".

Functions "◇"

How to Set Parameters (*2):
The indicator's LCD and three infra-red switches enable users to set parameters without opening the case cover. Parameters can also be set by means of the HHT (Handheld terminal).

Displayed Languages (*2):
Users can choose a language from among English, Japanese, German, French, Italian, and Spanish.

Instantaneous Flow Rate/Totalized Value Display Functions (for models with an indicator) (*2):
The full dot-matrix LCD enables user selections of displays from one line to three lines for:
- Instantaneous flow rate
- Instantaneous flow rate (%)
- Instantaneous flow rate (bar graph)
- Current output value (mA)
- Totalized value
- Tag No.
- Results of electrode adhesion diagnostics

Totalizer Display Function (*2):
The flow rate is counted one pulse at a time according to the setting of totalization pulse weights. For forward and reverse flow measurement functions, the totalized values of the flow direction (forward or reverse) and the flow direction are displayed on the indicator together with the units. The difference of totalized values between the forward and reverse flow rate can be displayed. Totalization for the reverse flow rate is carried out only when "Forward and reverse flow measurement functions" is selected.

Damping Time Constant (*2):
Time constant can be set from 0.1 second to 200.0 seconds (63% response).

Span Setting Function (*2):
Span flows can be set in units such as volume flow rate, mass flow rate, time, or flow rate value. The velocity unit can also be set.
Volume Flow Rate Unit: kcf, cf, mcf, Mgal (US), kgal (US), gal (US), mgal (US), kbbl (US)*, bbl (US)*, mbbl (US)*, µbbl (US)*, Ml (megaliter), m^3, kl (kiloliter), l (liter), cm^3
Mass Flow Rate Unit (Density must be set.): klb (US), lb (US), t (ton), kg, g
Velocity Unit: ft, m (meter)
Time Unit: s (sec), min, h (hour), d (day)
* "US oil" or "US Beer" can be selected.

Pulse Output (*1)(*2):
Scaled pulse can be output by setting a pulse weight.
Pulse Width: Duty 50% or fixed pulse width (0.05, 0.1, 0.5, 1, 20, 33, 50, 100 ms) can be selected.
Output Rate: 0.0001 to 10,000 pps (pulse/second)

Multi-range Function (*1)(*2):
- Range switching via status input
  Status input enables the switching of up to two ranges.
- Automatic range switching
  When the flow rate exceeds 100 % of the range, transition to the next range (up to four ranges) is carried out automatically. Range swiching can be confirmed by status outputs and indicator.

Forward and Reverse Flow Measurement Functions (*1)(*2):
Flows in both forward and reverse directions can be measured. The reverse flow measurement can be confirmed by status output and indicator.

Totalization Switch (*1)(*2):
The status output is carried out when a totalized value becomes equal to or greater than the set value.

Preset Totalization (*1)(*2):
The parameter setting or status input enables a totalized value to be preset to a setting value or zero.

0% Signal Lock (*1)(*2):
Status input forcibly fixes the instantaneous flow rate display, current output, pulse output, and flow rate totalization to 0%.

Alarm Selection Function (*2):
Alarms are classified into the System Alarms (hard failures), Process Alarms (such as 'Empty Pipe', 'Signal Overflow' and 'Adhesion Alarm'), Setting Alarms, and Warnings.
Whether alarms should be generated or not can be selected for each item.
The current output generated for an alarm can be selected from among 2.4 mA or less, fixed to 4 mA, 21.6 mA or more, or HOLD.

Alarm Output (*1)(*2):
Alarms are generated only for the items selected via the 'Alarm Selection Function' if relevant failures occur.

Self Diagnostics Functions (*2):
If alarms are generated, details of the System Alarms, Process Alarms, Setting Alarms and Warnings are displayed together with concrete descriptions of countermeasures.

Flow Upper/Lower Limit Alarms (*1)(*2):
If a flow rate becomes greater or smaller than the set value, this alarm is generated. In addition, two upper limits (H, HH) and two lower limits (L, LL) can be set.
If a flow rate becomes greater or smaller than any of the set values, the status is output.

Electrode Adhesion Diagnostics Function (*1) (*2):
This function enables monitoring of the adhesion level of insulating substances to the electrodes. Depending on the status of adhesion, users are notified by a warning or an alarm via status outputs. If replaceable electrodes are used, they can be removed and cleaned when adhesion occurs.

● Flowtubes (Remote Flowtube/Integral Flowmeter)

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

Unit: mm (in.)

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

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

Unit: mm (in.)

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

*1: AXF standard lay length dimensions for wafer type ceramics linings are the same as those for ADMAG ceramics linings.
*2: AXF standard lay length dimensions for union joint type ceramics linings are the same as those for ADMAG ceramics linings.
*3: Enhanced dual frequency excitation is not available for models with High grade accuracy.
*4: Not available with 32 mm (1.25 in.), 125 mm (5.0 in.)
*5: Not available with 125 mm (5.0 in.)
*6: Not available with 15 mm (0.5 in.), 125 mm (5.0 in.)

T21.EPS

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

Unit: mm (in.)

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

T22.EPS

*6: ADMAG lay length dimensions for wafer type of 250 mm (10 in.), and 300 mm (12 in.) are the same as those for AXF Standard. And, in case of "platinum-iridium (grounding ring code P) or tantalum (grounding ring code T) or None (grounding ring code N)" in wafer type of 2.5 mm (0.1 in.) to 15 mm (0.5 in.), the lay lengths of Replacement model 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. However, in case of platinum-iridium (grounding ring code P) or tantalum (grounding ring code T) or None (grounding ring code N) in flange type of 15 mm (0.5 in.) to 100 mm (4.0 in.), the lay length of AXF Standard are longer by approx. 4mm (0.16 in) than those of earlier ADMAG or ADMAG AE.

Protection:

General-Purpose Use/Sanitary Type/TIIS Flameproof Type:

IP66, IP67, JIS C0920 immersion-proof type

Explosion proof type except TIIS:

In case of explosion proof type except TIIS, refer to description of "Enclosure" in "HAZARDOUS AREA CLASSIFICATION".

Submersible Type (only for Remote Flowtube):

IP68 (can be used for temporary submergence)
JIS C0920 Submersible Type

Note: Test Condition: 50 m below the surface of the water, equivalent to 0.5 MPa hydraulic pressure, for one month.
Cable should be protected at customer site. In the case of installation always under water or corrosion fluid, contact Yokogawa office.

Coating:

General-Purpose Use/Explosion proof Type:

Size 2.5 to 125 mm (0.1 to 5.0 in.) (Wafer type),
Size 2.5 to 125 mm (0.1 to 5.0 in.) (Process connection code B or D of flange type):

· Housing: No coating (Stainless steel surface)
· Flange (Flange type only) : No coating (Stainless steel surface)
· Terminal Box and Cover (Remote Flowtube):
Polyurethane corrosion-resistant coating
Coating color: Mint green (Munsell 5.6 BG 3.3/2.9 or its equivalent)

Size 150 to 300 mm (6.0 to 12 in.) (Wafer type),
Size 150 to 400 mm (6.0 to 16 in.) (Process connection code B of flange type),
Size 50 to 2600 mm (2.0 to 104 in.) (Process connection code C of flange type):

· Housing, Flange (Flange type only), 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)

Sanitary Type:

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

· Housing: No coating (Stainless steel surface)
· Adapter : 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)

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 or SUSF304 (AISI 304 SS/EN 1.4301 equivalent)
Mini-Flange	Wafer Type PFA/Polyurethane Rubber lining	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	Wafer Type PFA/Polyurethane Rubber lining	Stainless steel-JIS SCS13 (EN 1.4308 equivalent)
	Wafer Type/Union Joint Ceramics lining	Alumina ceramics (99.9%)
	Flange Type PFA lining	Stainless steel-JIS SCS13 (EN 1.4308 equivalent) and SUS304 (AISI 304 SS/EN 1.4301 equivalent)
	Sanitary Type [only for 15 mm (0.5 in.)]	Stainless steel-JIS SCS13 (EN 1.4308 equivalent)
Terminal Box (Remote Flowtube)		Aluminum alloy

T03.EPS

Size 25 mm (1.0 in.) to 125 mm (5.0 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 or SUSF304 (AISI 304 SS/EN 1.4301 equivalent)
	Process Connection code: C** [(Size 50 mm (2.0 in.) to 125 mm (5.0 in.)]		Carbon steel-JIS SS400
Mini-Flange	Wafer Type PFA/Polyurethane Rubber/ Natural Soft Rubber/ EPDM Rubber lining	Size 25 mm (1.0 in.) (Lay Length code 1)	Stainless steel- EN 1.4308 (SCS13 equivalent)
		Size 25 mm (1.0 in.) (Lay Length code 2)	Stainless steel-JIS SUS430 (ASTM 43000/DIN X6Cr17/EN 1.4016 equivalent)
		Size 32 mm (1.25 in.) to 125 mm (5.0 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 32 mm (1.25 in.) to 125 mm (5.0 in.)	Stainless steel-JIS SUS304 (AISI 304 SS/EN 1.4301 equivalent)
Pipe	Wafer Type PFA/Polyurethane Rubber/ Natural Soft Rubber/ EPDM Rubber lining	Size 25 mm (1.0 in.) (Lay Length code 1)	Stainless steel- EN 1.4308 (SCS13 equivalent)
		Size 25 mm (1.0 in.) (Lay Length code 2)	Stainless steel-JIS SUS304 (AISI 304 SS/EN 1.4301 equivalent)
		Size 32 mm (1.25 in.) to 125 mm (5.0 in.)	Stainless steel-JIS SUS304 (AISI 304 SS/EN 1.4301 equivalent)
	Flange Type PFA/Polyurethane Rubber/ Natural Soft Rubber/ EPDM Rubber lining	Size 25 mm (1.0 in.)	Stainless steel- EN 1.4308 (SCS13 equivalent)
		Size 32 mm (1.25 in.) to 125 mm (5.0 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 32 mm (1.25 in.) to 125 mm (5.0 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 SUSF304 (AISI 304 SS/EN 1.4301 equivalent)
	Process Connection code: C**	Carbon steel-JIS SS400
Mini-Flange	Wafer Type PFA/Polyurethane Rubber/Natural Soft Rubber/ EPDM Rubber lining	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/Natural Soft Rubber/ EPDM Rubber lining	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*1 lining
Polyurethane Rubber lining
Natural Soft Rubber lining*2
EPDM Rubber lining*3
Alumina ceramics lining

*1: PFA is FDA (U.S. Food and Drug Administration) approval material.
*2: Natural soft rubber is a material which can reduce wear of the lining due to fluids mixed with slurries. If the concentration of mixed slurries is high, contact Yokogawa as necessary measures need to be taken separately for the electrodes.
*3: EPDM rubber lining is superior in the ozone proof.

Electrode:

Stainless steel-JIS SUS316L (AISI 316L SS/EN 1.4404 equivalent), Hastelloy*1 C276 equivalent, Titanium, Tantalum, Platinum-Iridium, Tungsten Carbide, Platinum-Alumina cermet(only for ceramics lining)

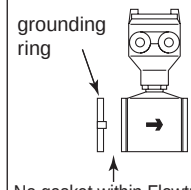
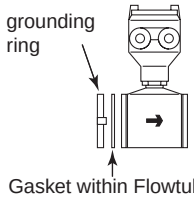
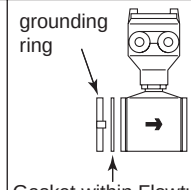
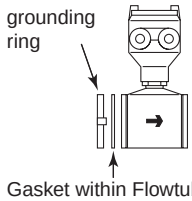
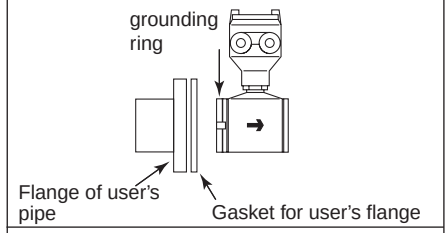
Note : For size over 500 mm and sanitary type, SUS316L only.

Grounding Ring/Grounding Electrode:

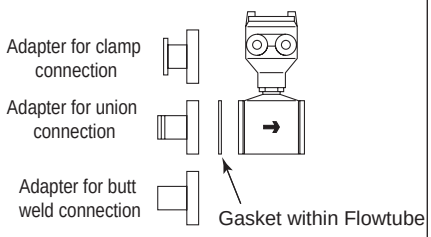
- Grounding Ring(plate type)
  Stainless steel-JIS SUS316 (AISI 316 SS/EN 1.4401 equivalent),
  Stainless steel-JIS SUS316L (AISI 316L SS/EN 1.4404 equivalent),
  Hastelloy*1 C276 equivalent, Titanium,
  Stainless steel-JIS SUS304 (AISI 304 SS/EN 1.4301 equivalent) for size 500 to 1000mm (20 to 40 in.) only,
  SS400 carbon steel lined with stainless steel-JIS SUS316 (AISI 316 SS/EN 1.4404 equivalent) for size 1100 to 2600mm (44 to 104 in.) only.
- Grounding Electrode(electrode type)
  Fluorocarbon PFA lining + grounding electrode (Tantalum, Platinum-Iridium)

*1: Hastelloy is a registered trademark of Haynes International Inc.
*2: Available with sizes 2.5 to 200mm (0.1 to 8.0 in.), PFA and ceramics linings only. However, the permeable fluids (such as nitric acid, hydrofluoric acid, or sodium hydroxide at high temperature) are unusable.

Gasket:

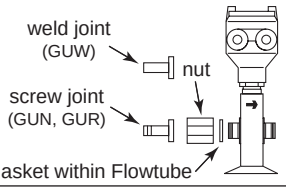
Use	General-Purpose Use / Submersible Type / Explosion proof Type	
Lining	PFA/Polyurethane Rubber/ Natural Soft Rubber/ EPDM Rubber	Ceramics
Standard		
	Gasket Material (within Flowtube)	
	—	Fluororesin with ceramic fillers (Valqua #7020)
Optional code (GA, GC, GD, or GF) (Only when selecting the PFA lining/ ceramics lining)		
	Gasket Material (within Flowtube)	
	GA: Fluororubber for PVC pipes (Viton®) GC: Acid-resistant fluororubber for PVC pipes (Viton®) GD: Alkali-resistant fluororubber for PVC pipes (Viton®) GF*1: Fluororesin with alkali-resistant carbons for metal pipes *1: GF is applicable only for ceramics lining.	
Optional code (BCF, BSF, BCC, or BSC)		
	Gasket Material (for user's flange)	
	BCF, BSF: PTFE-sheathed non-asbestos BCC, BSC: Chloroprene rubber	

T23-1.EPS

Use	Sanitary Type
Lining	PFA
Standard	
	Gasket Material (within Flowtube)
	EPDM (ethylene propylene) rubber
Optional code (GH)	GH: Silicone rubber

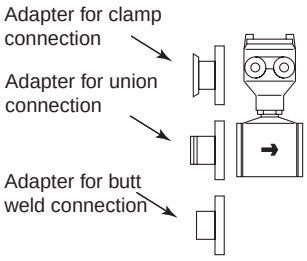
T23-2.EPS

Joints:

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

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

T23-3.EPS

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

T23-4.EPS

O-Ring (Replaceable electrode type only):

Fluororubber (Part number : G9303SE)

Electrode Construction:

Non-replaceable Electrode Type

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

PFA, Polyurethane Rubber lining:
External insertion type

Natural Soft Rubber, EPDM Rubber lining:
Internal insertion type

Ceramics lining: Integral type

Sanitary Type: Internal insertion type

Replaceable Electrode Type

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

Replaceable electrodes are available for the following:

AXF standard:

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

T06.EPS

Replacement model for earlier ADMAG or ADMAG AE:

Use	Process Connection	Available Size	Lining	Electrode Material
General-Purpose Use	Flange	150 to 250 mm (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 office.

Mounting/Shapes (Remote Flowtube):

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

Grounding:

Grounding resistance 100 Ω or less

* In case of explosion proof type except TIIS, follow the domestic electrical requirements as regulated in each country.

* In case of TIIS Flameproof type, refer to description of "HAZARDOUS AREA CLASSIFCATION".

Combined Converter:

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

■ HAZARDOUS AREA CLASSIFICATION

FM:

*AXF002C – AXF400C

Applicable Standard:
FM3600, FM3610, FM3615,
FM3810, ANSI/NEMA 250

(Integral Flowmeter)

Explosion proof for Class I, Division 1, Groups A, B, C & D.
Dust-ignition proof for Class II/III, Division1, Groups E, F & G.
Intrinsically safe (electrodes) for Class I, Division 1, Groups A, B, C & D.
"SEAL ALL CONDUITS WITHIN 18 INCHES"
"WHEN INSTALLED IN DIV. 2, SEALS NOT REQUIRED"

Electrode Circuit Um: 250 Vac/dc
Maximum power supply voltage: 250 Vac/130 Vdc
Excitation Circuit: 140V max
Enclosure: NEMA 4X
Temperature Code: T6
Refer to following table;

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_1.EPS

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

(Remote Flowtube)

Explosion proof for Class I, Division 1, Groups A, B, C & D.
Dust-ignition proof for Class II/III, Division1, Groups E, F & G.
Intrinsically safe (electrodes) for Class I, Division 1, Groups 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: T6
Refer to following table;

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_1.EPS

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

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

CENELEC ATEX (KEMA):

*AXF002C – AXF400C

Applicable Standard:
EN 50014, EN 50018, EN 50019,
EN 50020, EN 50028, EN 50281-1-1,
EN 60529, EN 61010-1

Certificate: KEMA 03ATEX2435

(Integral Flowmeter)

CENELEC ATEX (KEMA) Flameproof Type

Group: II
Category: 2G
EEx dme[ia] IIC T6...T3
Electrode Circuit Um: 250 Vac/dc
Maximum power supply voltage: 250 Vac/130 Vdc
Excitation Circuit: 140V max
Enclosure: IP66, IP67
Temperature Class:

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

T27-2.EPS

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

CENELEC ATEX (KEMA) Type of Protection “Dust”

Group: II
Category: 1D
Electrode Circuit Um: 250 Vac/dc
Maximum power supply voltage: 250 Vac/130 Vdc
Excitation Circuit: 140V max
Enclosure: IP66, IP67
Maximum surface temperature:

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

T29.EPS

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

(Remote Flowtube)

CENELEC ATEX (KEMA) Flameproof Type

Group: II
Category: 2G
EEx dme[ia] IIC T6...T3
Electrode Circuit Um: 250 Vac/dc
Excitation Circuit: 170V max
Enclosure: IP66, IP67
Temperature Class:

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

T28-2.EPS

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

CENELEC ATEX (KEMA) Type of Protection “Dust”

Group: II
Category: 1D
Electrode Circuit Um: 250 Vac/dc
Excitation Circuit: 170V max
Enclosure: IP66, IP67
Maximum surface temperature:

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

T30.EPS

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

CSA:

*AXF002C – AXF400C

Applicable Standard:

For CSA C22.2 Series;

C22.2 No 0, C22.2 No 0.4, C22.2 No 0.5, C22.2 No 25, C22.2 No 30, C22.2 No 94, C22.2 No 157, C22.2 No 1010.1

For CSA E79 Series;

CAN/CSA-E79-0, CAN/CSA-E79-1, CAN/CSA-E79-7, CAN/CSA-E79-11, CAN/CSA-E79-18

Certificate: 1481213

(Integral Flowmeter)

For CSA C22. 2 Series

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

Dust-ignition proof for Class II/III, Division 1, Groups E, F & G.

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

"SEAL ALL CONDUITS WITHIN 50 cm OF THE ENCLOSURE"

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

Electrode Circuit Um: 250 Vac/dc

Maximum power supply voltage: 250 Vac/130 Vdc

Excitation Circuit: 140V max

Enclosure: Type 4X

Temperature Code:

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)

For CSA E79 Series

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

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

Electrode Circuit Um: 250 Vac/dc

Maximum power supply voltage: 250 Vac/130 Vdc

Excitation Circuit: 140V max

Enclosure: IP66, IP67

Temperature Code:

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, Groups A, B, C & D.

Dust-ignition proof for Class II/III, Division 1, Groups E, F & G.

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

"SEAL ALL CONDUITS WITHIN 50 cm OF THE ENCLOSURE"

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

Electrode Circuit Um: 250 Vac/dc

Excitation Circuit: 170V max

Enclosure: Type 4X

Temperature Code:

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)

For CSA E79 Series

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

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

Electrode Circuit Um: 250 Vac/dc

Excitation Circuit: 170V max

Enclosure: IP66, IP67

Temperature Code:

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)

IECEx:

*AXF002C – AXF400C

Applicable Standard:
IEC60079-0: 2004, IEC60079-1: 2003,
IEC60079-7: 2001,
IEC60079-11: 1999, IEC60079-18: 2004,
IEC61241-0: 2004, IEC61241-1: 2004,
IEC60529: 1999 + Edition 2.1: 2001

Certificate: IECEx KEM 05.0018

(Integral Flowmeter)

IECEx Flameproof Type

Ex demb[ia] IIC T6...T3
Electrode Circuit Um: 250 Vac/dc
Maximum power supply voltage: 250 Vac/130 Vdc
Excitation Circuit: 140V max
Enclosure: IP66, IP67
Temperature Class:

Temperature Class	Process Temperature
T6	–40°C to +70°C (–40°F to +158°F)
T5	–40°C to +85°C (–40°F to +185°F)
T4	–40°C to +120°C (–40°F to +248°F)
T3	–40°C to +130°C (–40°F to +266°F)

T27-3.EPS

Ambient Temp.:
PFA Lining; –40˚C to +60˚C (–40˚F to +140˚F)
Ceramics Lining; –15˚C to +60˚C (5˚F to +140˚F)

IECEx Type of Protection "Dust"

Ex tD A21 IP6x T95°C, T105°C, T120°C, T130°C
Electrode Circuit Um: 250 Vac/dc
Maximum power supply voltage: 250 Vac/130 Vdc
Excitation Circuit: 140V max
Enclosure: IP66, IP67
Maximum surface temperature:

Maximum Surface Temperature	Process Temperature
T95°C (+203°F)	–40°C to +70°C (–40°F to +158°F)
T105°C (+221°F)	–40°C to +85°C (–40°F to +185°F)
T120°C (+248°F)	–40°C to +120°C (–40°F to +248°F)
T130°C (+266°F)	–40°C to +130°C (–40°F to +266°F)

T27-4.EPS

Ambient Temp.:
PFA Lining; –40˚C to +60˚C (–40˚F to +140˚F)
Ceramics Lining; –15˚C to +60˚C (5˚F to +140˚F)

(Remote Flowtube)

IECEx Flameproof Type

Ex demb[ia] IIC T6...T3
Electrode Circuit Um: 250 Vac/dc
Excitation Circuit: 170V max
Enclosure: IP66, IP67
Temperature Class:

Temperature Class	Process Temperature
T6	–40°C to +70°C (–40°F to +158°F)
T5	–40°C to +85°C (–40°F to +185°F)
T4	–40°C to +120°C (–40°F to +248°F)
T3	–40°C to +150°C (–40°F to +302°F)

T27-5.EPS

Ambient Temp.:
PFA Lining; –40˚C to +60˚C (–40˚F to +140˚F)
Ceramics Lining; –15˚C to +60˚C (5˚F to +140˚F)

IECEx Type of Protection "Dust"

Ex tD A21 IP6x T95°C, T105°C, T120°C, T135°C
Electrode Circuit Um: 250 Vac/dc
Excitation Circuit: 170V max
Enclosure: IP66, IP67
Maximum surface temperature:

Maximum Surface Temperature	Process Temperature
T95°C (+203°F)	–40°C to +70°C (–40°F to +158°F)
T105°C (+221°F)	–40°C to +85°C (–40°F to +185°F)
T120°C (+248°F)	–40°C to +120°C (–40°F to +248°F)
T135°C (+275°F)	–40°C to +150°C (–40°F to +302°F)

T27-6.EPS

Ambient Temp.:
PFA Lining; –40˚C to +60˚C (–40˚F to +140˚F)
Ceramics Lining; –15˚C to +60˚C (5˚F to +140˚F)

TIIS:

Certificate:

Lining / Size: mm (inch)	Integral Flowmeter		Remote Flowtube	
	PFA Lining	Ceramics Lining	PFA Lining	Ceramics Lining
2.5 (0.1)	C16630	C16645	C16654	C16669
5 (0.2)	C16630	C16645	C16654	C16669
10 (0.4)	C16630	C16645	C16654	C16669
15 (0.5)	C16630	C16646	C16654	C16670
25 (1.0)	C16631	C16647	C16655	C16671
32 (1.25)	C16632	—	C16656	—
40 (1.5)	C16633	C16648	C16657	C16672
50 (2.0)	C16634	C16649	C16658	C16673
65 (2.5)	C16635	—	C16659	—
80 (3.0)	C16636	C16650	C16660	C16674
100 (4.0)	C16637	C16651	C16661	C16675
125 (5.0)	C16638	—	C16662	—
150 (6.0)	C16639	C16652	C16663	C16676
200 (8.0)	C16640	C16653	C16664	C16677
250 (10)	C16641	—	C16665	—
300 (12)	C16642	—	C16666	—
350 (14)	C16643	—	C16667	—
400 (16)	C16644	—	C16668	—

T33.EPS

(Integral Flowmeter)

- Construction: Ex de[ia] IIC T4
  : Converter ; Explosion proof
  Flowtube ; Increased Safety and Intrinsically Safety(ia)
  Electrode ; Intrinsically Safety(ia)
- Ambient Temperature: –20 to 60°C (power supply code 1)
  : –20 to 50°C (power supply code 2)
- Fluid Temperature: 120°C max
- Electrode Circuit: 250V AC/DC
- Maximum power supply voltage: 250V AC/130V DC
- Grounding: JIS Class C(grouding resister 10Ω or less) or JIS Class A(grounding resister 10Ω or less)

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

(Remote Flowtube)

- Construction: Ex de[ia] IIC T4
  : Terminal box ; Explosion proof
  Flowtube ; Increased Safety and Intrinsically Safety(ia)
  Electrode; Intrinsically Safety(ia)
- Ambient Temperature: –20 to 60°C
- Fluid Temperature: 120°C max
- Electrode Circuit: 250V AC/DC
- Grounding: JIS Class C(grouding resistance 10Ω or less) or JIS Class A(grounding resistance 10Ω or less)

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

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

■ STANDARD PERFORMANCE

Reference Conditions:

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

- Fluid temperature: 20°C ± 10°C (+68°F ± 18°F)
- Ambient temperature: 25°C ± 5°C (+77°F ± 9°F)
- Warm-up time: 30 min
- Straight runs:
  Upstream > 10 × DN
  Downstream > 5 × DN
- Properly grounded
- Properly centered

Accuracy (at reference conditions)

Pulse Output:

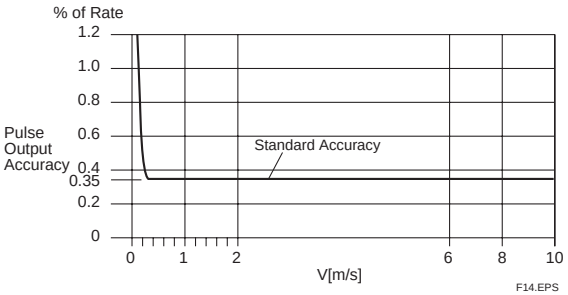
PFA/Ceramics Lining:

Size mm (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	—	
	$0.3 \leqq V \leqq 10$ (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
	$0.15 \leqq V \leqq 10$ (0.5) (33)	±0.35% of Rate	$0.15 \leqq V < 1$ (0.5) (3.3)	±0.18% of Rate ± 0.2mm/s
			$1 \leqq V \leqq 10$ (3.3) (33)	±0.2% of Rate
250 (10) to 400 (16)	$V < 0.15$ (0.5)	±0.5 mm/s	—	
	$0.15 \leqq V \leqq 10$ (0.5) (33)	±0.35% of Rate		

T08.EPS

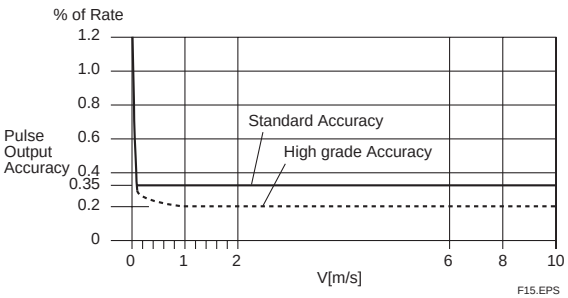
Enhanced dual frequency excitation(Option code HF2):
Standard accuracy ±1 mm/ s

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



F14.EPS

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



F15.EPS

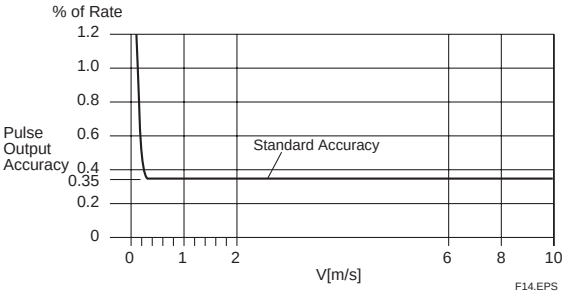
Polyurethane Rubber /Natural Soft Rubber / EPDM Rubber Lining:

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

T09.EPS

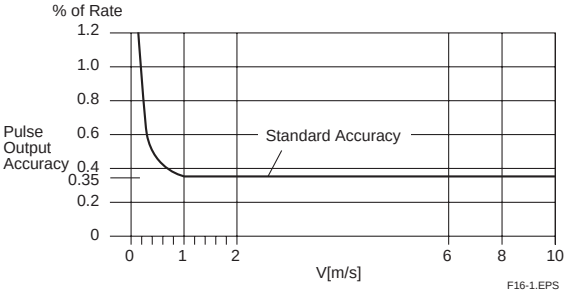
Enhanced dual frequency excitation(Option code HF2) : Standard accuracy ±1 mm/ s

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



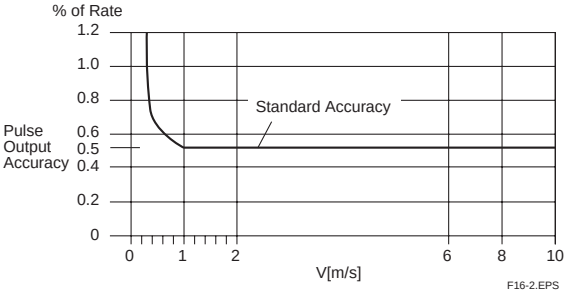
F14.EPS

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



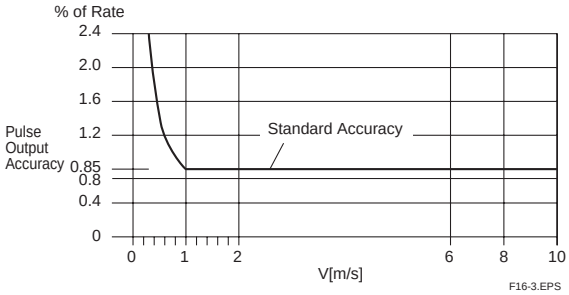
F16-1.EPS

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



F16-2.EPS

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



F16-3.EPS

Current Output "◇": Pulse output accuracy plus ±0.05% of Span

Repeatability:
±0.1% of Rate (V ≧ 1 m/s (3.3 ft/s))
±0.05% of Rate ±0.5 mm/s (V < 1 m/s (3.3 ft/s))

Maximum Power Consumption:
Integral Flowmeter: 12W
Remote Flowtube: Combined with AXFA11: 20W
Combined with AXFA14: 12W

Insulation Resistance (*1)**:**
Integral Flowmeter:
Between power supply terminals and ground terminalm : 100MΩ at 500V DC
Between power supply terminals and input /output terminals : 100MΩ at 500V DC
Between ground terminal and input/output terminals : 20MΩ at 100V DC
Between input/output terminals : 20MΩ at 100V DC
Remote Flowtube:
Between excitation current terminal and signal / common terminals : 100MΩ at 500V DC
Between signal terminals : 100MΩ at 500V DC
Between signal terminals and common terminal (C) : 100MΩ at 500V DC

Withstand Voltage (*1)**:**
Integral Flowmeter
Between power supply terminals and ground terminal : 1390V AC for 2 seconds
Between power supply terminals and input/output terminals : 1390V AC for 2 seconds
Remote Flowtube (option code JF3, KF2, CF1, and SF2)
Between excitation current terminal and ground terminal : 1500V AC for 1 minute
Between signal terminals and ground terminal : 1500V AC for 1 minute
Between signal terminals and excitation current terminal : 2000V AC for 1 minute
Remote Flowtube (option code FF1)
Between signal terminals and ground terminal : 500V AC for 1 minute or 600V AC for 1 second
Between signal terminals and excitation current terminal : 2000V AC for 1 minute or 2400V AC for 1 second.

CAUTION

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

Safety Requirement Standards:

EN61010-1

- Altitude at installation site: Max. 2000 m above sea leve
- 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 CISPR11

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	350	II
AXF400G/W/C	400	1	400	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	II

T10-2.EPS

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

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

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

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

■ NORMAL OPERATING CONDITIONS

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

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

Ambient Humidity: 0 to 100%

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

Power Supply (integral flowmeter):

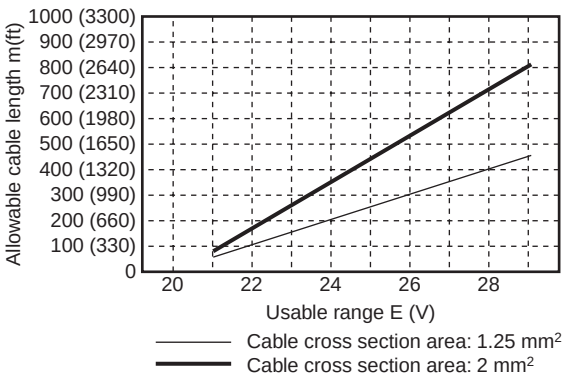
Power supply code 1:

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

Power supply code 2:

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

Supplied Voltage and Cable Length for Power Supply Code 2



F01.EPS

Fluid Conductivity:

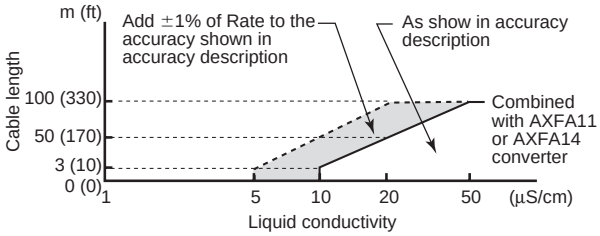
Size 2.5 to 10 mm (0.1 to 0.4 in.): 5 µS/cm or larger
Size 15 to 125 mm (0.5 to 5 in.): 1 µS/cm or larger
Size 150 to 400 mm (6 to 16 in.): 3 µS/cm or larger

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

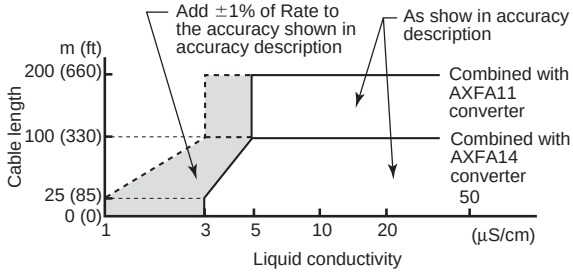
Size 500 to 2600 mm (20 to 104 in.) : 50 µS/cm or large.

Cable Length and Liquid Conductivity (Remote Flowtube):

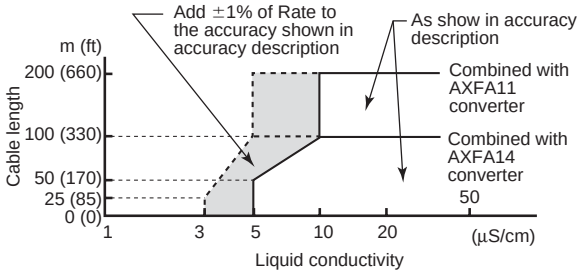
Size 2.5 to 10 mm (0.1 to 0.4 in.)



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



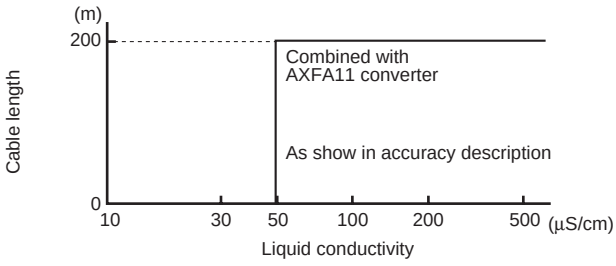
Size 150 to 400 mm (6.0 to 16 in.)



F03.EPS

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

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



F02.EPS

Measurable Flow Rate Range:

SI Units (Size: mm, Flow rate: m^3/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

T11.EPS

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

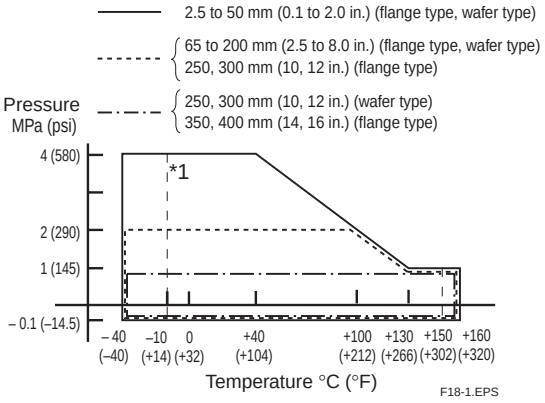
Fluid Temperature and Pressure:

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

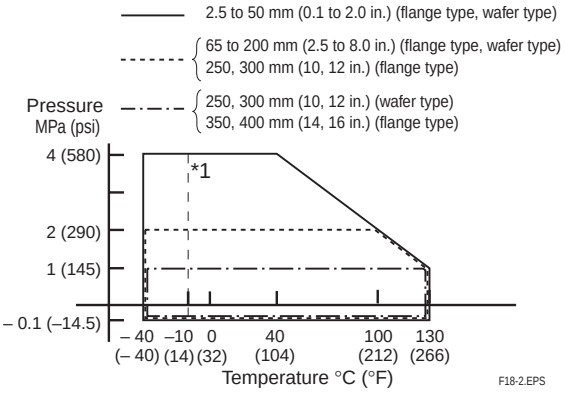
*2 For fluid temperature of the explosion proof type, refer to descriptions of "HAZARDOUS AREA CLASSIFICATION".

PFA Lining (*1)

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



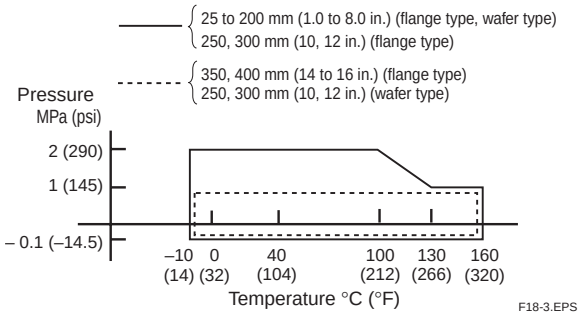
General-Purpose Use and Explosion proof Type, Integral Flowmeter (electrode structure code 1: Non-replaceable electrode)



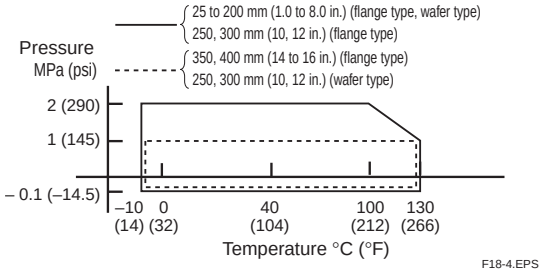
*1: For lay length code 2 in wafer types of 25 mm (1.0 in.), and for wafer types of 32 mm to 300 mm(1.25 to 12 in.), and for carbon steel flange types (process connection code: C**) of 50 to 400 mm (2.0 to 16 in.) the minimum temperature is –10°C (+14°F).

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

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

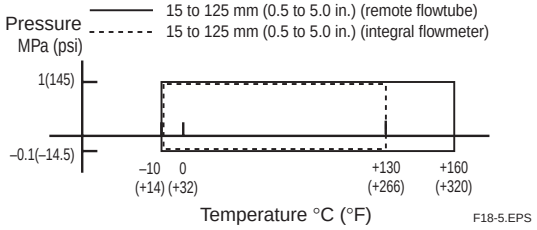


General-Purpose Use, Integral Flowmeter (electrode structure code 2: replaceable electrode)



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

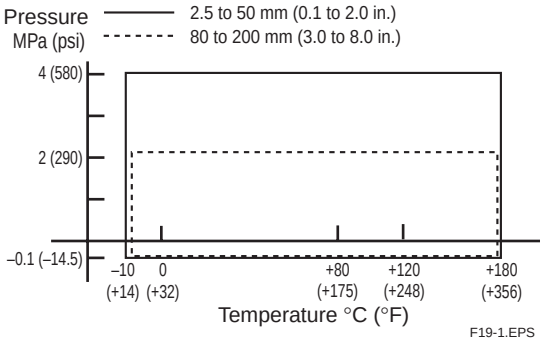
Sanitary Type (electrode structure code 1: Non-replaceable electrode)



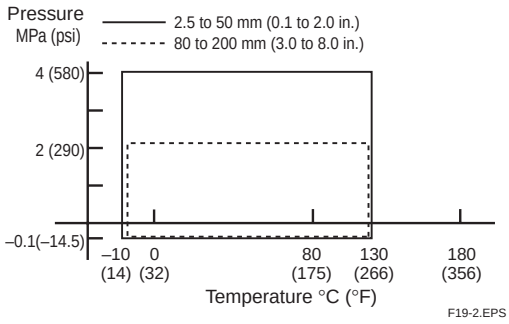
Note: In case of 120 to 160°C (248 to 320°F) of fluid temperature, please select optional code GH.

Ceramics Lining

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



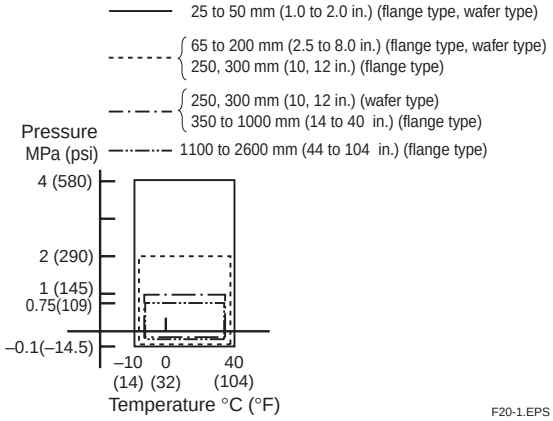
General-Purpose Use and Explosion proof Type, Integral flowmeter (electrode structure code 1: Non-replaceable electrode)



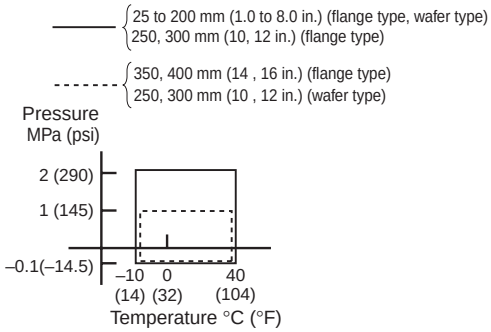
*1: For fluid temperature of the explosion proof type, refer to descriptions of "HAZARDOUS AREA CLASSIFICATION".

Polyurethane Rubber Lining

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

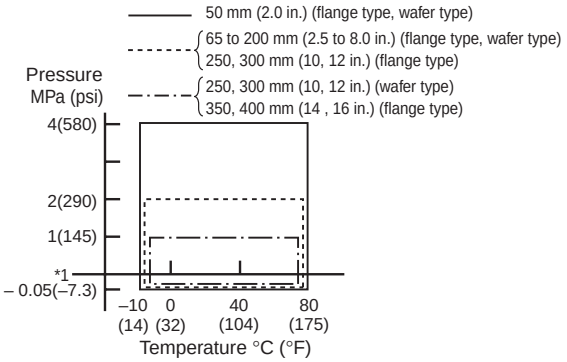


General-Purpose Use, Integral Flowmeter (electrode structure code 2: replaceable electrode)



Natural Soft Rubber Lining

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

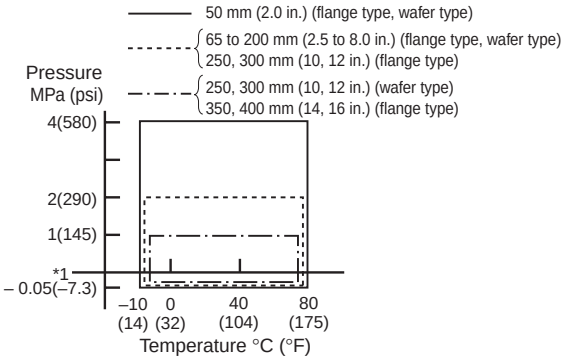


*1 : –0.04 MPa (–5.7 psi) for sizes of 350 mm (14 in.) and 400 mm (16 in.)

F05-2.EPS

EPDM Rubber Lining

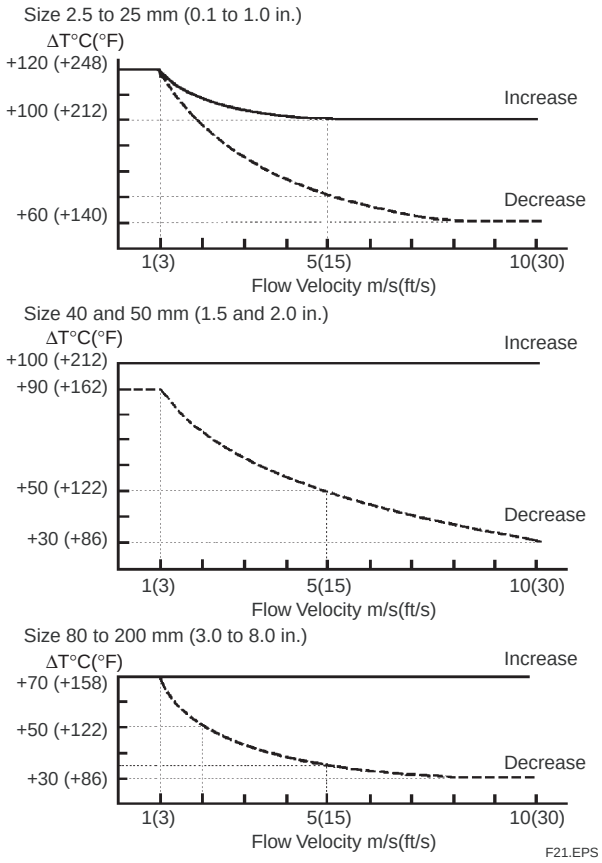
General-Purpose Use and Submersible Type, Remote Flowtube (electrode structure code 1: Non-replaceable electrode)



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

F05-3.EPS

Reasonable Figure for Thermal Shock of Creamics Lining:



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

ΔT: Change in temperature of measured fluid in one second

Flow velocity: flow velocity of the measured fluid

Allowable Conditions for Cleaning Sanitary Type Linings

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

Vibration Conditions:

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

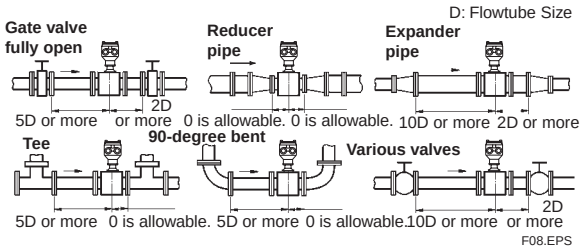
- Integral Flowmeter: 1 G or less (frequency 500 Hz or less)
- Remote Flowtube (size 2.5 to 400 mm (0.1 to 16 in.)): 2 G or less (frequency 500 Hz or less)

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

■ CAUTIONS FOR INSTALLATION

Mounting of Flowmeters and Required Lengths of Straight Runs

(See JIS B7554 "Electromagnetic flowmeters.")



Required straight runs

*1: Do not install anything in the vicinity that may interfere with the magnetic field, induced signal voltages, or flow velocity distributions of the flowmeter.

*2: A straight run may not be required on the downstream side of the flowmeter. However, if a downstream valve or other fitting causes irregularity or deviation in flows, provide a straight run of 2D to 3D on the downstream side.

*3: Highly recommend to mount valves on the downstream side so that deviated flows do not occur in the flowtube and to avoid startup from an empty condition.

Maintaining Stable Fluid Conductivity

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

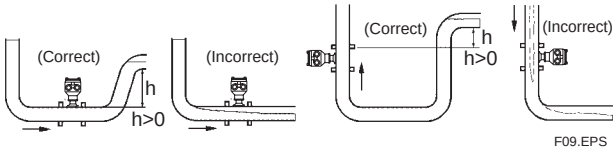
Mounting Positions

- **Pipes must be fully filled with liquids.**

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

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

  Vertical mounting is effective in such cases as when fluids tend to separate or solid matter may be precipitated. When employing vertical mounting, direct the fluids from the bottom to the top to ensure that the pipes remain fully filled.

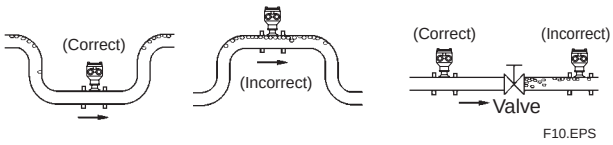


Mounting Positions

- **Avoid Air Bubbles.**

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

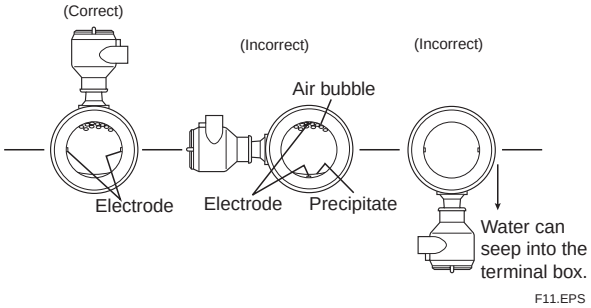
In cases where fluids contain air bubbles, piping must be designed to prevent them from accumulating in the measurement pipe of a flowtube.
If a valve exists near the flowtube, try to mount the flowtube on the valve's upstream side in order to prevent a possible reduction of pressure inside the pipe, thereby avoiding the possibility of air bubbles.



Avoiding Air Bubbles

- **Mounting Orientation**

If electrodes are perpendicular to the ground, air bubbles near the top or precipitates at the bottom may cause measurement errors.
Ensure that the terminal box of a remote flowtube and converter of an integral flowmeter are mounted above the piping to prevent water from entering them.



Mounting Orientation

■ INNER DIAMETER OF GROUNDING RING

Unit: mm (in.)

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

T25.EPS

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

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

Unit : mm (in.)

Size \ Lining	AXF Standerd Polyurethane 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

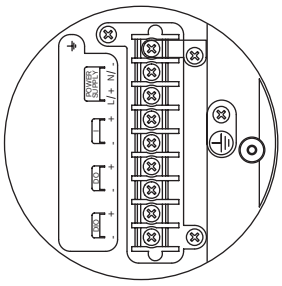
Remote Flowtube (size 2.5 to 1000 mm(0.1 to 40 in.)):
Centering device (wafer type only): 1 pc.
Hexagonal wrench: 2 pcs.

Integral Flowmeter:
Centering device (wafer type only): 1 pc.
Fuse (T2.0A, 250 V): 1 pc.
*Time lag fuse
Hexagonal wrench: 2 pcs.

■ TERMINAL CONFIGURATION AND TERMINAL WIRING

● Integral Flowmeter "◇"

Terminal configuration



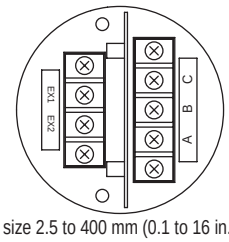
Terminal wiring

Terminal Symbols	Description
⏚	Functional grounding
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
⊕	Protective grounding (Outside of the terminal)

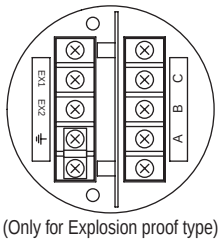
F41.EPS

● Remote Flowtube

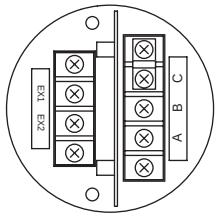
Terminal configuration



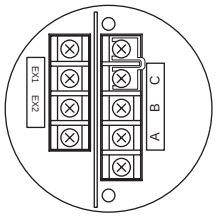
size 2.5 to 400 mm (0.1 to 16 in.)



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

F42.EPS

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

● Recommended Excitation, Power and Output Cable:

Use polyvinyl chloride insulated and sheathed portable power cables (JIS C3312) or equivalents.
- Outer Diameter: 6.5 to 12 mm (0.26 to 0.47 in.)
  10.5 or 11.5 mm (0.41 to 0.45 in.) for optional code EG, EU and EW.
  6 to 12 mm (0.24 to 0.47 in.) for optional code EP.
- Nominal Cross section (single wire): 0.5 to 2.5 mm^2
- Nominal Cross section (standard wire): 0.5 to 1.5 mm^2

■ MODEL AND SUFFIX CODE

AXF STANDARD (Wafer Type)

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

Model	Suffix Code	Description		Applicable Model
AXF002		Size 2.5 mm (0.1 in.)	Integral Flowmeter/Remote Flowtube	
AXF005		Size 5 mm (0.2 in.)	Integral Flowmeter/Remote Flowtube	
AXF010		Size 10 mm (0.4 in.)	Integral Flowmeter/Remote Flowtube	
AXF015		Size 15 mm (0.5 in.)	Integral Flowmeter/Remote Flowtube	
AXF025		Size 25 mm (1.0 in.)	Integral Flowmeter/Remote Flowtube	
AXF032		Size 32 mm (1.25 in.)	Integral Flowmeter/Remote Flowtube	
AXF040		Size 40 mm (1.5 in.)	Integral Flowmeter/Remote Flowtube	
AXF050		Size 50 mm (2.0 in.)	Integral Flowmeter/Remote Flowtube	
AXF065		Size 65 mm (2.5 in.)	Integral Flowmeter/Remote Flowtube	
AXF080		Size 80 mm (3.0 in.)	Integral Flowmeter/Remote Flowtube	
AXF100		Size 100 mm (4.0 in.)	Integral Flowmeter/Remote Flowtube	
AXF125		Size 125 mm (5.0 in.)	Integral Flowmeter/Remote Flowtube	
AXF150		Size 150 mm (6.0 in.)	Integral Flowmeter/Remote Flowtube	
AXF200		Size 200 mm (8.0 in.)	Integral Flowmeter/Remote Flowtube	
AXF250		Size 250 mm (10 in.)	Integral Flowmeter/Remote Flowtube	
AXF300		Size 300 mm (12 in.)	Integral Flowmeter/Remote Flowtube	
Use	G	General-Purpose Use		
	W	Submersible Type		Size 15 mm (0.5 in.) to 300 mm (12 in.) Remote Flowtube only
	C	Explosion proof Type (*5)		PFA lining only
Converter Output 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		
	-F	Integral Flowmeter with Digital communication (FOUNDATION Fieldbus protocol) (*9)		
	-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 (*8)	A	Fluorocarbon PFA		
	U	Polyurethane Rubber		Size 25 mm (1.0 in.) to 300 mm (12 in.)
	D	Natural Soft Rubber		Size 50 mm (2.0 in.) to 300 mm (12 in.)
	G	EPDM Rubber		Size 50 mm (2.0 in.) to 300 mm (12 in.)
Electrode Material (*8)	L	JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)		
	P	Platinum-iridium		PFA lining only
	H	Hastelloy C276 Equivalent		
	T	Tantalum		PFA lining only
	V	Titanium		
	W	Tungsten Carbide		PFA/Polyurethane Rubber lining only
Electrode Structure	1	Non-replaceable		
	2	Replaceable		General-Purpose use, Size 25 mm (1.0 in.) to 300 mm (12 in.), PFA/Polyurethane Rubber lining only Electrode Material: JIS SUS316L only
Grounding Ring and Grounding Electrode Material (*8)	N	None		
	S	JIS SUS316 (AISI 316 SS/EN 1.4401 Equivalent)		
	L	JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)		
	P	Platinum-iridium		Size 2.5 mm (0.1 in.) to 200 mm (8.0 in.), PFA lining only
	H	Hastelloy C276 Equivalent		
	T	Tantalum		Size 2.5 mm (0.1 in.) to 200 mm (8.0 in.), PFA lining only
	V	Titanium		
Process Connection (*3)	-AA1	ANSI Class 150	Wafer (*1)	Size 2.5 mm (0.1 in.) to 300 mm (12 in.)
	-AA2	ANSI Class 300	Wafer (*1)	Size 2.5 mm (0.1 in.) to 200 mm (8.0 in.)
	-AD1	DIN PN 10	Wafer (*2)	Size 200 mm (8.0 in.) to 300 mm (12 in.)
	-AD2	DIN PN 16	Wafer (*2)	Size 65 mm (2.5 in.) to 300 mm (12 in.)
	-AD4	DIN PN 40	Wafer (*1)(*2)	Size 2.5 mm (0.1in.) to 50 mm (2.0 in.)
	-AJ1	JIS 10K	Wafer (*1)	Size 2.5 mm (0.1in.) to 300 mm (12 in.)
	-AJ2	JIS 20K	Wafer (*1)	Size 2.5 mm (0.1in.) to 200 mm (8.0 in.)
	-AG1	JIS F12 (JIS75M)	Wafer	Size 80 mm (3.0 in.) to 300 mm (12 in.)
Lay Length	1	Standard		
Electrical Connection (*6)	-0	JIS G1/2 female		
	-2	ANSI 1/2 NPT female		Not available for Submersible Type
	-4	ISO M20×1.5 female		Not available for Submersible Type
Indicator (*4)(*7)	1	Integral Flowmeter with indicator (Horizontal)		
	2	Integral Flowmeter with indicator (Vertical)		
	N	Integral Flowmeter without indicator /Remote Flowtube		
Calibration	B	Standard		
	C	High Grade		Size 25 mm (1.0 in.) to 200 mm (8.0 in.), PFA lining only
	/□	Optional code (See the Table of Optional Specifications)		

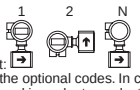
T15.EPS

*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, AD4, AJ1, and AJ2)

*2: Even when DIN PN10 or 16 is required for a model of size 2.5 to 50 mm (0.1 to 2.0 in.), select PN40 (Process connection code: AD4) because there is no difference in the dimensions of the mating faces.
Even when DIN PN10 is required for a model of size 65 to 150 mm (2.5 to 6.0 in.), select PN16 (Process connection code: AD2) because there is no difference in the dimensions of the mating faces.

*3: Mating dimensions are based on standards as follow:
ANSI:ASME B 16.5, DIN: DIN 2501, JIS:JIS B 2220 and JIS G 3451

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



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

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

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

*8: ⚠Users must consider the characteristics of selected wetted parts material and influence of process fluids.
The use of inappropriate materials can result in the leakage of corrosive process fluids and cause injury to personnel and/or damage to plant facilities. It is also possible that the instrument itself can be damaged and that fragments from the instrument can contaminate the user's process fluids.
Be very careful with highly corrosive process fluids such as hydrochloric acid, sulfuric acid, hydrogen sulfide, sodium hypochlorite, and high-temperature steam (150°C [302°F] or above). Contact Yokogawa for detailed information of the wetted parts material.

*9: For FOUNDATION Fieldbus protocol, refer to GS 01E20F02-01E

AXF STANDARD (Wafer /Union Joint Type)

General-purpose Use/Explosion proof Type, Ceramics Lining

Model	Suffix Code	Description	Applicable Model
AXF002	·····	Size 2.5 mm (0.1 in.) Integral Flowmeter/Remote Flowtube	
AXF005	·····	Size 5 mm (0.2 in.) Integral Flowmeter/Remote Flowtube	
AXF010	·····	Size 10 mm (0.4 in.) Integral Flowmeter/Remote Flowtube	
AXF015	·····	Size 15 mm (0.5 in.) Integral Flowmeter/Remote Flowtube	
AXF025	·····	Size 25 mm (1.0 in.) Integral Flowmeter/Remote Flowtube	
AXF040	·····	Size 40 mm (1.5 in.) Integral Flowmeter/Remote Flowtube	
AXF050	·····	Size 50 mm (2.0 in.) Integral Flowmeter/Remote Flowtube	
AXF080	·····	Size 80 mm (3.0 in.) Integral Flowmeter/Remote Flowtube	
AXF100	·····	Size 100 mm (4.0 in.) Integral Flowmeter/Remote Flowtube	
AXF150	·····	Size 150 mm (6.0 in.) Integral Flowmeter/Remote Flowtube	
AXF200	·····	Size 200 mm (8.0 in.) Integral Flowmeter/Remote Flowtube	
Use	G ·····	General-Purpose Use	
	C ·····	Explosion proof Type(*5)	
Converter Output 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	
	-F ·····	Integral Flowmeter with Digital communication (FOUNDATION Fieldbus protocol) (*9)	
	-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 or100 to 120 V DC	
	2 ·····	Integral Flowmeter, 24 V AC/DC	
	N ·····	Remote Flowtube	
Lining (*8)	C ·····	Ceramics	
Electrode Material (*8)	E ·····	Platinum-alumina Cermet	
Electrode Structure	1 ·····	Non-replaceable	
Grounding Ring and Grounding Electrode Material (*8)	N ·····	None	Size 2.5 mm (0.1 in.) to 200 mm (8.0 in.)
	S ·····	JIS SUS316 (AISI 316 SS/EN 1.4401 Equivalent)	Size 15 mm (0.5 in.) to 200 mm (8.0 in.)
	L ·····	JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)	Size 15 mm (0.5 in.) to 200 mm (8.0 in.)
	P ·····	Platinum-iridium	Size 15 mm (0.5 in.) to 200 mm (8.0 in.)
	H ·····	Hastelloy C276 Equivalent	Size 15 mm (0.5 in.) to 200 mm (8.0 in.)
	T ·····	Tantalum	Size 15 mm (0.5 in.) to 200 mm (8.0 in.)
	V ·····	Titanium	Size 15 mm (0.5 in.) to 200 mm (8.0 in.)
Process Connection (*2)	-AA1 ·····	ANSI Class 150 Wafer	Size 15 mm (0.5 in.) to 200 mm (8.0 in.)
	-AA2 ·····	ANSI Class 300 Wafer	Size 15 mm (0.5 in.) to 200 mm (8.0 in.)
	-AD1 ·····	DIN PN 10 Wafer (*1)	Size 200 mm (8.0 in.) only
	-AD2 ·····	DIN PN 16 Wafer (*1)	Size 80 mm (3.0 in.) to 200 mm (8.0 in.)
	-AD4 ·····	DIN PN 40 Wafer (*1)	Size 15 mm (0.5 in.) to 50 mm (2.0 in.)
	-AJ1 ·····	JIS 10K Wafer	Size 15 mm (0.5 in.) to 200 mm (8.0 in.)
	-AJ2 ·····	JIS 20K Wafer	Size 15 mm (0.5 in.) to 200 mm (8.0 in.)
	-AG1 ·····	JIS F12 (JIS75M) Wafer	Size 80 mm (3.0 in.) to 200 mm (8.0 in.)
	-GUW ·····	Union Joint (Weld Joint) (*8)	Size 2.5 mm (0.1 in.) to 10 mm (0.4 in.)
	-GUN ·····	Union Joint (1/4NPT Male for 2.5 or 5 mm dia.: 3/8NPT Male for 10 mm dia.) (*8)	Size 2.5 mm (0.1 in.) to 10 mm (0.4 in.)
	-GUR ·····	Union Joint (R1/4 Male for 2.5 or 5 mm dia.: R3/8 Male for 10mm dia.) (*8)	Size 2.5 mm (0.1 in.) to 10 mm (0.4 in.)
Lay Length (*3)	1 ·····	Standard	
Electrical Connection (*6)	-0 ····	JIS G1/2 female	
	-2 ····	ANSI 1/2 NPT female	
	-4 ····	ISO M20×1.5 female	
Indicator (*4)(*7)	1 ···	Integral Flowmeter with indicator (Horizontal)	
	2 ···	Integral Flowmeter with indicator (Vertical)	
	N ···	Integral Flowmeter without indicator /Remote Flowtube	
Calibration	B ···	Standard	
	C ···	High Grade	Size 25 mm (1.0 in.) to 200mm (8.0 in.)
	/□	Optional code (See the Table of Optional Specifications)	

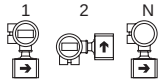
T16.EPS

*1: Even when DIN PN10 or 16 is required for a model of size 2.5 to 50 mm (0.1 to 2.0 in.), select PN40 (Process connection code : AD4) because there is no difference in the dimensions of the mating faces.
Even when DIN PN10 is required for a model of size 65 to 150 mm (2.5 to 6.0 in.), select PN16 (Process connection code : AD2) because there is no difference in the dimensions of the mating faces.

*2: Mating dimensions are based on standards as follow:
ANSI:ASME B 16.5, DIN: DIN 2501, JIS:JIS B 2220 and JIS G 3451

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

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



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

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

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

*8: ⚠Users must consider the characteristics of selected wetted parts material and influence of process fluids.
The use of inappropriate materials can result in the leakage of corrosive process fluids and cause injury to personnel and/or damage to plant facilities. It is also possible that the instrument itself can be damaged and that fragments from the instrument can contaminate the user's process fluids.
Be very careful with highly corrosive process fluids such as hydrochloric acid, sulfuric acid, hydrogen sulfide, sodium hypochlorite, and high-temperature steam (150°C [302°F] or above). Contact Yokogawa for detailed information of the wetted parts material.

*9: For FOUNDATION Fieldbus protocol, refer to GS 01E20F02-01E

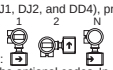
AXF STANDARD (Flange Type) Size 2.5 mm (0.1 in.) to 400 mm (16 in.)

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

Model	Suffix Code	Description	Applicable Model
AXF002		Size 2.5 mm (0.1 in.) Integral Flowmeter/Remote Flowtube	
AXF005		Size 5 mm (0.2 in.) Integral Flowmeter/Remote Flowtube	
AXF010		Size 10 mm (0.4 in.) Integral Flowmeter/Remote Flowtube	
AXF015		Size 15 mm (0.5 in.) Integral Flowmeter/Remote Flowtube	
AXF025		Size 25 mm (1.0 in.) Integral Flowmeter/Remote Flowtube	
AXF032		Size 32 mm (1.25 in.) Integral Flowmeter/Remote Flowtube	
AXF040		Size 40 mm (1.5 in.) Integral Flowmeter/Remote Flowtube	
AXF050		Size 50 mm (2.0 in.) Integral Flowmeter/Remote Flowtube	
AXF065		Size 65 mm (2.5 in.) Integral Flowmeter/Remote Flowtube	
AXF080		Size 80 mm (3.0 in.) Integral Flowmeter/Remote Flowtube	
AXF100		Size 100 mm (4.0 in.) Integral Flowmeter/Remote Flowtube	
AXF125		Size 125 mm (5.0 in.) Integral Flowmeter/Remote Flowtube	
AXF150		Size 150 mm (6.0 in.) Integral Flowmeter/Remote Flowtube	
AXF200		Size 200 mm (8.0 in.) Integral Flowmeter/Remote Flowtube	
AXF250		Size 250 mm (10 in.) Integral Flowmeter/Remote Flowtube	
AXF300		Size 300 mm (12 in.) Integral Flowmeter/Remote Flowtube	
AXF350		Size 350 mm (14 in.) Integral Flowmeter/Remote Flowtube	
AXF400		Size 400 mm (16 in.) Integral Flowmeter/Remote Flowtube	
Use	G	General-Purpose Use	
	W	Submersible Type	Size 15 mm (0.5 in.) to 400 mm (16 in.), Remote Flowtube only
	C	Explosion proof Type (*6)	PFA lining only
Converter Output 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	
	-F	Integral Flowmeter with Digital communication (FOUNDATION Fieldbus protocol) (*10)	
	-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 (*9)	A	Fluorocarbon PFA	
	U	Polyurethane Rubber	Size 25 mm (1.0 in.) to 400 mm (16 in.)
	D	Natural Soft Rubber	Size 50 mm (2.0 in.) to 400 mm (16 in.)
	G	EPDM Rubber	Size 50 mm (2.0 in.) to 400 mm (16 in.)
Electrode Material (*9)	L	JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)	
	P	Platinum-iridium	PFA lining only
	H	Hastelloy C276 Equivalent	
	T	Tantalum	PFA lining only
	V	Titanium	
	W	Tungsten Carbide	PFA/Polyurethane Rubber lining only
Electrode Structure	1	Non-replaceable	
	2	Replaceable	General-Purpose use, Size 25 mm (1.0 in.) to 400 mm (16 in.) PFA/Polyurethane Rubber lining only Electrode Material: JIS SUS316L only
Grounding Ring and Grounding Electrode Material (*9)	N	None	
	S	JIS SUS316 (AISI 316 SS/EN 1.4401 Equivalent)	
	L	JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)	
	P	Platinum-iridium	Size 2.5 mm (0.1 in.) to 200 mm (8.0 in.), PFA lining only
	H	Hastelloy C276 Equivalent	
	T	Tantalum	Size 2.5mm (0.1 in.) to 200 mm (8.0 in.), PFA lining only
	V	Titanium	
Process Connection (*4)	-BA1	ANSI Class 150 Flange (Stainless Steel)(*1)	Size 2.5 mm (0.1 in.) to 400 mm (16 in.)
	-BA2	ANSI Class 300 Flange (Stainless Steel)(*1)	Size 2.5 mm (0.1 in.) to 300 mm (12 in.)
	-BD1	DIN PN 10 Flange (Stainless Steel)(*2)	Size 200 mm (8.0 in.) to 400 mm (16 in.)
	-BD2	DIN PN 16 Flange (Stainless Steel)(*2)	Size 65 mm (2.5 in.) to 300 mm (12 in.)
	-BD4	DIN PN 40 Flange (Stainless Steel)(*1)(*2)	Size 2.5 mm (0.1 in.) to 50 mm (2.0 in.)
	-BJ1	JIS 10K Flange (Stainless Steel)(*1)	Size 2.5 mm (0.1 in.) to 400 mm (16 in.)
	-BJ2	JIS 20K Flange (Stainless Steel)(*1)	Size 2.5 mm (0.1 in.) to 300 mm (12 in.)
	-BG1	JIS F12 (JIS75M) Flange (Stainless Steel)	Size 80 mm (3.0 in.) to 400 mm (16 in.)
	-CA1	ANSI Class 150 Flange (Carbon Steel)	Size 50 mm (2 in.) to 400 mm (16 in.)
	-CA2	ANSI Class 300 Flange (Carbon Steel)	Size 50 mm (2 in.) to 300 mm (12 in.)
	-CD1	DIN PN 10 Flange (Carbon Steel)(*2)	Size 200 mm (8.0 in.) to 400 mm (16 in.)
	-CD2	DIN PN 16 Flange (Carbon Steel)(*2)	Size 65 mm (2.5 in.) to 300 mm (12 in.)
	-CD4	DIN PN 40 Flange (Carbon Steel)(*2)	Size 50 mm (2.0 in.) only
	-CJ1	JIS 10K Flange (Carbon Steel)	Size 50 mm (2.0 in.) to 400 mm (16 in.)
	-CJ2	JIS 20K Flange (Carbon Steel)	Size 50 mm (2.0 in.) to 300 mm (12 in.)
	-CG1	JIS F12 (JIS75M) Flange (Carbon Steel)	Size 80 mm (3.0 in.) to 400 mm (16 in.)
	-DD4	DIN PN 40 Flange (Stainless Steel), DN10(*2)(*3)"	Size 2.5 mm (0.1 in.) to 10 mm (0.4 in.)
	-DJ1	JIS 10K Flange (Stainless Steel), 10 mm Diameter Nominal (*3)	Size 2.5 mm (0.1 in.) to 10 mm (0.4 in.)
	-DJ2	JIS 20K Flange (Stainless Steel), 10 mm Diameter Nominal (*3)	Size 2.5 mm (0.1 in.) to 10 mm (0.4 in.)
Lay Length	1	Standard	
Electrical Connection (*7)	-0	JIS G1/2 female	
	-2	ANSI 1/2 NPT female	Not available for Submersible Type
	-4	ISO M20×1.5 female	Not available for Submersible Type
Indicator (*5)(*8)	1	Integral Flowmeter with indicator (Horizontal)	
	2	Integral Flowmeter with indicator (Vertical)	
	N	Integral Flowmeter without indicator /Remote Flowtube	
Calibration	B	Standard	
	C	High Grade	Size 25 mm (1.0 in.) to 200 mm (8.0 in.), PFA lining only
	/□	Optional code (See the Table of Optional Specifications)	

T17.EPS

*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: Even when DIN PN10 or 16 is required for a model of size 2.5 to 50 mm (0.1 to 2.0 in.), select PN40 (Process connection codes: BD4,CD4 and DD4) because there is no difference in the dimensions of the mating faces.
Even when DIN PN10 is required for a model of size 65 to 150 mm (2.5 to 6.0 in.), select PN16 (Process connection codes: BD2 , CD2) because there is no difference in the dimensions of the mating faces.
*3: For a flange type of 2.5 to 10 mm (0.1 to 0.4 in)(Process connection codes: DJ1, DJ2, and DD4), prepare 10 mm (0.4 in.) diameter nominal flanges on the process pipe side.
*4: Mating dimensions are based on standards as follow:
ANSI:ASME B 16.5, DIN: DIN 2501, JIS:JIS B 2220 and JIS G 3451
*5: N shall be always selected for remote flowtubes
In the case of an integral flowmeter, select from among the figures at the right:



*6: For explosion proof types, specify types of explosion proof certification using the optional codes. In case of TIIS flameproof type, the remote flowtube is available only for combined use with the AXFA14. For the TIIS flameproof type with wiring using a flameproof packing adapter, select optional code G12 or G11. Available only for JIS G1/2 electrical connections.
*7: JIS G1/2 Female electrical connection is available only for TIIS flameproof type.
*8: In case of integral flowmeters of the TIIS flameproof type, select "with indicator"(code 1 or 2).
*9: ⚠Users must consider the characteristics of selected wetted parts material and influence of process fluids.
The use of inappropriate materials can result in the leakage of corrosive process fluids and cause injury to personnel and/or damage to plant facilities. It is also possible that the instrument itself can be damaged and that fragments from the instrument can contaminate the user's process fluids.
Be very careful with highly corrosive process fluids such as hydrochloric acid, sulfuric acid, hydrogen sulfide, sodium hypochlorite, and high-temperature steam (150°C [302°F] or above).
Contact Yokogawa for detailed information of the wetted parts material.
*10:For FOUNDATION Fieldbus protocol, refer to GS 01E20F02-01E

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 (*4)	U	Polyurethane Rubber	
Electrode Material (*4)	L	JIS SUS316L(AISI 316L SS/EN 1.4404 Equivalent)	
Electrode Structure	1	Non-replaceable	
Grounding Ring material (*4)	S	JIS SUS304 (AISI 304 SS/EN 1.4301 Equivalrnt)	Size 500 mm (20 in.) to 1000 mm (40 in.)
		SS400 Carbon Steel lined with Stainless Steal SUS316	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)	

T18-1.EPS

*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

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

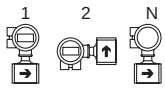
*3: There are no differences in dimensions of mating faces between JIS F12(JIS 75M) and JIS 7.5K.

*4: ⚠Users must consider the characteristics of selected wetted parts material and influence of process fluids.
The use of inappropriate materials can result in the leakage of corrosive process fluids and cause injury to personnel and/or damage to plant facilities. It is also possible that the instrument itself can be damaged and that fragments from the instrument can contaminate the user's process fluids.
Be very careful with highly corrosive process fluids such as hydrochloric acid, sulfuric acid, hydrogen sulfide, sodium hypochlorite, and high-temperature steam (150°C [302°F] or above). Contact Yokogawa for detailed information of the wetted parts material.

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

Model	Suffix Code	Description	Applicable Model
AXF015	·····	Size 15 mm (0.5 in.), Integral Flowmeter/Remote Flowtube	
AXF025	·····	Size 25 mm (1.0 in.), Integral Flowmeter/Remote Flowtube	
AXF032	·····	Size 32 mm (1.25 in.), Integral Flowmeter/Remote Flowtube	
AXF040	·····	Size 40 mm (1.5 in.), Integral Flowmeter/Remote Flowtube	
AXF050	·····	Size 50 mm (2.0 in.), Integral Flowmeter/Remote Flowtube	
AXF065	·····	Size 65 mm (2.5 in.), Integral Flowmeter/Remote Flowtube	
AXF080	·····	Size 80 mm (3.0 in.), Integral Flowmeter/Remote Flowtube	
AXF100	·····	Size 100 mm (4.0 in.), Integral Flowmeter/Remote Flowtube	
AXF125	·····	Size 125 mm (5.0 in.), Integral Flowmeter/Remote Flowtube	
Use	H ·····	Sanitary Type	
Converter Output 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	
	-F ·····	Integral Flowmeter with Digital communication (FOUNDATION Fieldbus protocol) (*5)	
	-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 (*4)	A ·····	Fluorocarbon PFA	
Electrode Material (*4)	L ·····	JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)	
Electrode Structure	1 ·····	Non-replaceable	
Grounding Ring	N ·····	None	
Process Connection (*2) (*4)	-HAB ·····	Tri-Clamp (3A), JIS SUS316L (AISI 316L SS/EN1.4404 Equivalent)(*1)	Size 15 mm (0.5 in.) to 100 mm (4.0in.), except 32 mm (1.25 in.)
	-HDB ·····	DIN32676 Clamp, JIS SUS316L (AISI 316L SS/EN1.4404 Equivalent)	Size 15 mm (0.5 in.) to 125 mm (5.0 in.)
	-HKB ·····	ISO2852/SMS3016 Clamp, JIS SUS316L (AISI 316L SS/ EN1.4404 Equivalent)	Size 15 mm (0.5 in.) to 125 mm (5.0 in.)
	-JDB ·····	DIN11851 Union, SUS316L (AISI 316L SS/EN1.4404 Equivalent)	Size 15 mm (0.5 in.) to 125 mm (5.0 in.)
	-JKB ·····	ISO2853 Union, SUS316L (AISI 316L SS/EN1.4404 Equivalent)	Size 15 mm (0.5 in.) to 100 mm (4.0 in.)
	-JSB ·····	SMS1145 Union, SUS316L (AISI 316L SS/EN1.4404 Equivalent)	Size 25 mm (1.0 in.) to 100 mm (4.0 in.)
	-KDB ·····	Butt Weld for DIN 11850 Pipe Connection (SUS316L [AISI 316L SS/EN1.4404 Equivalent])	Size 15 mm (0.5 in.) to 125 mm (5.0 in.)
	-KKB ·····	Butt Weld for ISO 2037 Pipe Connection (SUS316L [AISI 316L SS/EN1.4404 Equivalent])	Size 15 mm (0.5 in.) to 125 mm (5.0 in.)
Lay Length	1 ·····	Standard	
Electrical Connection	-0 ····	JIS G1/2 female	
	-2 ····	ANSI 1/2 NPT female	
	-4 ····	ISO M20×1.5 female	
Indicator (*3)	1 ···	Integral Flowmeter with indicator (Horizontal)	
	2 ···	Integral Flowmeter with indicator (Vertical)	
	N ···	Integral Flowmeter without indicator /Remote Flowtube	
Calibration	B ···	Standard	
	C ···	High Grade	Size 25 mm (1.0 in.) to 125 mm (5.0 in.)
	/□	Optional code (See the Table of Optional Specifications)	

*1: For a tri-clamp type of size15 mm (0.5 in.)(Process connection code: HAB), prepare a 3/4 in. tri-clamp on the process pipe side. T18.EPS
*2: The detail dimensions of process connections (clamp/union/butt weld) are shown in the 'EXTERNAL DIMENSIONS' section of the sanitary type.
In case of Butt Weld type, ferrules, sleeves, or alternative must be provided by the user. User need to weld these parts to the butt weld adapter.
*3: N shall be always selected for remote flowtubes.
In the case of an integral flowmeter, select from among the following figures.



*4: ⚠Users must consider the characteristics of selected wetted parts material and influence of process fluids.
The use of inappropriate materials can result in the leakage of corrosive process fluids and cause injury to personnel and/or damage to plant facilities. It is also possible that the instrument itself can be damaged and that fragments from the instrument can contaminate the user's process fluids.
Be very careful with highly corrosive process fluids such as hydrochloric acid, sulfuric acid, hydrogen sulfide, sodium hypochlorite, and high-temperature steam (150°C [302°F] or above). Contact Yokogawa for detailed information of the wetted parts material.
*5: For FOUNDATION Fieldbus protocol, refer to GS 01E20F02-01E

REPLACEMENT MODEL FOR EARLIER ADMAG OR ADMAG AE (Wafer Type)

General-purpose Use/Submersible Type/Explosion proof Type, PFA/Polyurethane Rubber Lining

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

Model	Suffix Code	Description	Applicable Model
AXF002		Size 2.5 mm (0.1 in.) Integral Flowmeter/Remote Flowtube (*8)	
AXF005		Size 5 mm (0.2 in.) Integral Flowmeter/Remote Flowtube (*8)	
AXF010		Size 10 mm (0.4 in.) Integral Flowmeter/Remote Flowtube (*8)	
AXF015		Size 15 mm (0.5 in.) Integral Flowmeter/Remote Flowtube (*8)	
AXF025		Size 25 mm (1.0 in.) Integral Flowmeter/Remote Flowtube	
AXF040		Size 40 mm (1.5 in.) Integral Flowmeter/Remote Flowtube	
AXF050		Size 50 mm (2.0 in.) Integral Flowmeter/Remote Flowtube	
AXF080		Size 80 mm (3.0 in.) Integral Flowmeter/Remote Flowtube	
AXF100		Size 100 mm (4.0 in.) Integral Flowmeter/Remote Flowtube	
AXF150		Size 150 mm (6.0 in.) Integral Flowmeter/Remote Flowtube	
AXF200		Size 200 mm (8.0 in.) Integral Flowmeter/Remote Flowtube	
Use	G	General-Purpose Use	
	W	Submersible Type	Size 15 mm (0.5 in.) to 200 mm (8.0 in.), Remote Flowtube only
	C	Explosion proof Type (*5)	PFA lining only
Converter Output 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	
	-F	Integral Flowmeter with Digital communication (FOUNDATION Fieldbus protocol) (*10)	
	-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 (*9)	A	Fluorocarbon PFA	
	U	Polyurethane Rubber	Size 25 mm (1.0 in.) to 200 mm (8.0 in.)
Electrode Material (*9)	L	JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)	
	P	Platinum-iridium	PFA lining only
	H	Hastelloy C276 Equivalent	
	T	Tantalum	PFA lining only
	V	Titanium	
	W	Tungsten Carbide	
Electrode Structure	1	Non-replaceable	
Grounding Ring and Grounding Electrode Material (*9)	N	None	Size 25 mm (1.0 in.) to 200 mm (8.0 in.)(*5)
	S	JIS SUS316 (AISI 316 SS/EN 1.4401 Equivalent)	
	L	JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)	
	P	Platinum-iridium (*8)	PFA lining only
	H	Hastelloy C276 Equivalent	
	T	Tantalum (*8)	PFA lining only
	V	Titanium	
Process Connection (*3)	-AA1	ANSI Class 150 Wafer(*1)	Size 2.5 mm (0.1 in.) to 200 mm (8.0 in.)
	-AA2	ANSI Class 300 Wafer(*1)	Size 2.5 mm (0.1 in.) to 200 mm (8.0 in.)
	-AD1	DIN PN 10 Wafer(*2)	Size 200 mm(8.0 in.) only
	-AD2	DIN PN 16 Wafer(*2)	Size 80 mm (3.0 in.) to 200 mm (8.0 in.)
	-AD4	DIN PN 40 Wafer(*1)(*2)	Size 2.5 mm (0.1 in.) to 50 mm (2.0 in.)
	-AJ1	JIS 10K Wafer(*1)	Size 2.5 mm (0.1 in.) to 200 mm (8.0 in.)
	-AJ2	JIS 20K Wafer(*1)	Size 2.5 mm (0.1 in.) to 200 mm (8.0 in.)
	-AG1	JIS F12 (JIS75M) Wafer	Size 80 mm (3.0 in.) to 200 mm (8.0 in.)
Lay Length	2	Matches an Earlier ADMAG Flowmeter (ADMAG or ADMAG AE) for Replacement	
Electrical Connection (*6)	-0	JIS G1/2 female	
	-2	ANSI 1/2 NPT female	Not available for Submersible Type
	-4	ISO M20×1.5 female	Not available for Submersible Type
Indicator (*4)(*7)	1	Integral Flowmeter with indicator(Horizontal)	
	2	Integral Flowmeter with indicator(Vertical)	
	N	Integral Flowmeter without indicator /Remote Flowtube	
Calibration	B	Standard	
	/□	Optional code (See the Table of Optional Specifications)	

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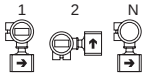
*1: For a wafer type of 2.5 to 10 mm (0.1 to 0.4 in.), prepare 15 mm (0.5 in.) diameter nominal flanges on the process pipe side.
(Process connection codes: AA1, AA2, AD4, AJ1, and AJ2)

*2: Even when DIN PN10 or 16 is required for a model of size 2.5 to 50 mm (0.1 to 2.0 in.), select PN40 (Process connection code: AD4) because there is no difference in the dimensions of the mating faces.
Even when DIN PN10 is required for a model of size 65 to 150 mm (2.5 to 6.0 in.), select PN16 (Process connection code: AD2) because there is no difference in the dimensions of the mating faces.

*3: Mating dimensions are based on standards as follow:
ANSI:ASME B 16.5, DIN: DIN 2501, JIS:JIS B 2220 and JIS G 3451

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



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

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

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

*8: In case of platinum-iridium (grounding ring code P) or tantalum (grounding ring code T) or None (grounding ring code N) in wafer type of 2.5 mm (0.1 in.) to 15 mm (0.5 in.), the lay lengths of Replacement model are the same as those for AXF Standard.
In this case, AXF Standard shall be selected.

*9: ⚠Users must consider the characteristics of selected wetted parts material and influence of process fluids.
The use of inappropriate materials can result in the leakage of corrosive process fluids and cause injury to personnel and/or damage to plant facilities. It is also possible that the instrument itself can be damaged and that fragments from the instrument can contaminate the user's process fluids.
Be very careful with highly corrosive process fluids such as hydrochloric acid, sulfuric acid, hydrogen sulfide, sodium hypochlorite, and high-temperature steam (150°C [302°F] or above). Contact Yokogawa for detailed information of the wetted parts material.

*10:For FOUNDATION Fieldbus protocol, refer to GS 01E20F02-01E

REPLACEMENT MODEL FOR EARLIER ADMAG OR ADMAG AE (Flange Type)

General-purpose Use/Submersible Type/Explosion proof Type, PFA/Polyurethane Rubber Lining

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

Model	Suffix Code	Description		Applicable Model
AXF150		Size 150 mm (6.0 in.) Integral Flowmeter/Remote Flowtube		
AXF200		Size 200 mm (8.0 in.) Integral Flowmeter/Remote Flowtube		
AXF250		Size 250 mm (10 in.) Integral Flowmeter/Remote Flowtube		
Use	G	General-Purpose Use		
	W	Submersible Type		Remote Flowtube only
	C	Explosion proof Type (*4)		PFA lining only
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		
	-F	Integral Flowmeter with Digital communication (FOUNDATION Fieldbus protocol) (*8)		
	-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 (*7)	A	Fluorocarbon PFA		
	U	Polyurethane Rubber		
Electrode Material (*7)	L	JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)		
	P	Platinum-iridium		PFA lining only
	H	Hastelloy C276 Equivalent		
	T	Tantalum		PFA lining only
	V	Titanium		
	W	Tungsten Carbide		
Electrode Structure	1	Non-replaceable		
	2	Replaceable		General-Purpose use,Electrode Material : JIS SUS316L only
Grounding Ring and Grounding Electrode Material (*7)	N	None		
	S	JIS SUS316 (AISI 316 SS/EN 1.4401 Equivalent)		
	L	JIS SUS316L (AISI 316L SS/EN 1.4404 Equivalent)		
	P	Platinum-iridium		Size150 mm (6.0 in.), 200 mm (8.0 in.), PFA lining only
	H	Hastelloy C276 Equivalent		
	T	Tantalum		Size150 mm (6.0 in.), 200 mm (8.0 in.), PFA lining only
	V	Titanium		
Process Connection (*2)	-CA1	ANSI Class 150	Flange (Carbon Steel)	Size 150 mm (6.0 in.) to 250 mm (10 in.)
	-CA2	ANSI Class 300	Flange (Carbon Steel)	Size 150 mm (6.0 in.) to 250 mm (10 in.)
	-CD1	DIN PN 10	Flange (Carbon Steel)(*1)	Size 200 mm (8.0 in.) to 250 mm (10 in.)
	-CD2	DIN PN 16	Flange (Carbon Steel)(*1)	Size 150 mm (6.0 in.) to 250 mm (10 in.)
	-CJ1	JIS 10K	Flange (Carbon Steel)	Size 150 mm (6.0 in.) to 250 mm (10 in.)
	-CJ2	JIS 20K	Flange (Carbon Steel)	Size 150 mm (6.0 in.) to 250 mm (10 in.)
	-CG1	JIS F12 (JIS75M)	Flange (Carbon Steel)	Size 150 mm (6.0 in.) to 250 mm (10 in.)
Lay Length	2	Matches an Earlier ADMAG Flowmeter (ADMAG or ADMAG AE) for Replacement		
Electrical Connection (*5)	-0	JIS G1/2 female		
	-2	ANSI 1/2 NPT female		Not available for Submersible Type
	-4	ISO M20×1.5 female		Not available for Submersible Type
Indicator (*3)(*6)	1	Integral Flowmeter with indicator (Horizontal)		
	2	Integral Flowmeter with indicator(Vertical)		
	N	Integral Flowmeter without indicator /Remote Flowtube		
Calibration	B	Standard		
	/□	Optional code (See the Table of Optional Specifications)		

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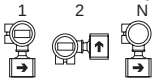
*1: Even when DIN PN10 is required for a 150 (6.0 in.)-mm model, select PN16 (Process connection code: CD2) because there is no difference in the dimensions of the mating faces.
*2: Mating dimensions are based on standards as follow:
ANSI: ASME B 16.5, DIN:DIN 2501, JIS:JIS B 2220 and JIS G 3451
*3: N shall be always selected for remote flowtubes.
In the case of an integral, select from among the following figures:



*4: For explosion proof types, specify types of explosion proof certification using the optional codes. In case of TIIS flameproof type, the remote flowtube is available only for combined use with the AXFA14. For the TIIS flameproof type with wiring using a flameproof packing adapter, select optional code G12 or G11. Available only for JIS G1/2 electrical connections.
*5: JIS G1/2 Female electrical connection is available only for TIIS flameproof type.
*6: In case of integral flowmeters of the TIIS flameproof type, select "with indicator"(code 1 or 2).
*7: ⚠Users must consider the characteristics of selected wetted parts material and influence of process fluids.
The use of inappropriate materials can result in the leakage of corrosive process fluids and cause injury to personnel and/or damage to plant facilities. It is also possible that the instrument itself can be damaged and that fragments from the instrument can contaminate the user's process fluids.
Be very careful with highly corrosive process fluids such as hydrochloric acid, sulfuric acid, hydrogen sulfide, sodium hypochlorite, and high-temperature steam (150°C [302°F] or above). Contact Yokogawa for detailed information of the wetted parts material.
*8: For FOUNDATION Fieldbus protocol, refer to GS 01E20F02-01E

■ OPTIONAL SPECIFICATIONS FOR FLOWTUBES

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

○: Available –: Not available

Item	Specifications	Applicable Model							Code
		General		Explosion proof		Submersible	Sanitary		
		Integral Flowmeter	Remote Flowtube	Integral Flowmeter	Remote Flowtube	Remote Flowtube	Integral Flowmeter	Remote Flowtube	
		AXF**G-D 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	
For District Heating and Cooling or Condensation-proof	Urethane resin potting is applied in the terminal box of a remote flowtube. Select JIS G1/2 for the electrical connections. 30-m signal and excitation cables are pre-wired and waterproof grands with union joints are attached at factory.	–	○	–	–	–	–	○	DHC
User-specified Signal and Excitation Cable Length	Available for the submersible type and a model with optional code DHC. The cable length is limited up to 200 meters when combined with an AXFA11 converter, or 100 meters when combined with an AXFA14 converter. Following "L," specify the cable length in three digits as a multiple of 1 meter (e.g., 001, 002, or 005) for a length up to 5 m, or as a multiple of 5 meters (i.e., 005, 010, 015, or the like) for a length of 5 meters or more. If this optional code is not selected, a 30m long cable is attached.	–	○	–	–	○	–	○	L***
Lightning Protector	A lightning protector is built into the power terminals.	○	–	○	–	–	○	–	A
DC Noise Cut Circuit	The DC Noise Cut Circuit is built in. Available for 15 mm (0.5 in.) and larger sizes, and for fluids with the conductivity of 50 μS/cm or higher. Nullifies the empty check and electrode adhesion diagnostic function.	○	–	○	–	–	○	–	ELC
Burn Out Down	The output level is set to 0 mA during a CPU failure and is set 2.4 mA (-10 %) or less during an alarm. Standard products are delivered with a setting 25 mA during a CPU failure and 21.6 mA (110%) or more during an alarm.	○	–	○	–	–	○	–	C1
NAMUR NE43 Compliance	Output signal limits: 3.8 to 20.5 mA — Failure alarm down-scale: The output level is set to 0 mA during a CPU failure and is set 2.4 mA (–10%) or less during an alarm.	○	–	○	–	–	○	–	C2
	Output signal limits: 3.8 to 20.5 mA — Failure alarm up-scale: The output level is set to 25 mA during a CPU failure and is set 21.6 mA (110%) or more during an alarm.	○	–	○	–	–	○	–	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: • 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
Mass Unit Setting	The flow rate span, transmission pulse weight, and totalizer display pulse weight can be set in terms of mass unit. Specify the density of the process fluid when ordering in addition to the mass flow rate span, transmission pulse wight (for mass unit), and totalizer display pulse weight (for mass unit). When ordering a remote flowtube, parameters for 'Mass Unit Setting' will be set in the corresponding converter before shipment. 1. Density a. Available density Numerics: Specify the numeric within the value of 0.0001 to 32000. And it can be up to five digits, to a maximum of 32000 ignoring the decimal point. A fraction is limited to the fourth decimal place. b. Available density units: kg/m^3, lb/gal, lb/cf Example: A water density is about 1000kg/m^3. In this case specify "1000kg/m^3". However a density is changed by temperature. Specify the actual density. (The 1000kg/m^3 is equivalent to 8.345lb/gal and 62.43lb/cf.) 2. The mass flow rate span, transmission pulse weight, and totalizer display pulse weight a. Available density Numerics: Specify the numeric within the value of 0.0001 to 32000. And it can be up to five digits, to a maximum of 32000 ignoring the decimal point. A fraction is limited to the fourth decimal place. b. Mass Units Available mass units: t, kg, g, klb, lb Available time units: /d, /h, /min, /s Note1: In case of specifying the mass flow span, calculate the volumetric flow span by the setting density, and specify the available value in the mass flow span. Note2: In case of transmission pulse weight and totalizer display pulse weight, specify the mass unit which was specified as the flow unit.	○	○	○	○	○	○	○	MU

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

○: Available –: Not available

Item	Specifications		Applicable Model							Code
			General		Explosion proof		Submersible	Sanitary		
			Integral Flowmeter	Remote Flowtube	Integral Flowmeter	Remote Flowtube	Remote Flowtube	Integral Flowmeter	Remote Flowtube	
			AXF***G-D 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	
G3/4 Female Waterproof Glands	Waterproof glands for G3/4 conduits or flexible tubes are attached to the electrical connections. Available only for JIS G1/2 electric connections.		–	○	–	–	–	–	○	EW
Waterproof Glands	Waterproof glands are attached to the electrical connections. Available only for JIS G1/2 electric connections.		○	○	–	–	–	○	○	EG
Waterproof Glands with Union Joints	Waterproof glands with union joints are attached to the electrical connections. Available only for JIS G1/2 electric connections.		○	○	–	–	–	○	○	EU
Plastic Glands	Plastic glands are attached to the electrical connections. Available only for JIS G1/2 electric connections.		○	○	–	–	–	○	○	EP
Mirror Finished PFA Lining	Mirror finishing on the PFA lining inside of the tube to the smoothness lying. Available for 15 mm (0.5 in.) and larger sizes. The Ra is average of measured values on several point. Size 15 to 200 mm (0.5 to 8.0 in.) : Ra 0.05 to 0.15 μm Size 250 to 400 mm (10 to 16 in.) : Ra 0.05 to 0.25 μm		○	○	○	○	○	○	○	PM
Mirror Finished Ceramics	Mirror finishing on the inside of the ceramics tube to Rmax ≤ 1 μm. Available for 5 mm (0.2 in.) and larger sizes.		○	○	○	○	–	–	–	CM
Stainless Steel Tag Plate	A pendant tag plate of JIS SUS304 (AISI 304 SS/EN 1.4301 equivalent) is provided. Choose this option when a pendant tag plate is required in addition to the standard nameplate with the tag number inscribed on it. Dimension (Height × Width): Appr. 12.5 (4.92) × 40 (15.7) mm (inch)		○	○	○	○	○	○	○	SCT
Direction change of the electrical connection (*1)	+90 degrees rotated converter (or terminal box) to change the direction of the electrical connection.		○	○	○	○	○	○	○	RA
	+180 degrees rotated converter (or terminal box) to change the direction of the electrical connection.		○	○	○	○	○	○	○	RB
	−90 degrees rotated converter (or terminal box) to change the direction of the electrical connection.		○	○	○	○	○	○	○	RC
Bolts, Nuts, and Gaskets (*2)	Bolts, nuts, and gaskets are provided for wafer connections. Available only for ANSI 150, JIS10K, or, JIS20K wafer connections.	Bolts and nuts: Carbon steel; Gaskets: Chloroprene rubber	○	○	○	○	○	–	–	BCC
		Bolts and nuts: Carbon steel; Gaskets: PTFE-sheathed non-asbestos	○	○	○	○	○	–	–	BCF
		Bolts: JIS SUS304 (AISI 304 SS stainless steel equivalent); Nuts: JIS SUS403 (AISI 403SS stainless steel equivalent) ; Gaskets: Chloroprene rubber	○	○	○	○	○	–	–	BSC
		Bolts: JIS SUS304 (AISI 304 SS stainless steel equivalent); Nuts: JIS SUS403 (AISI 403SS stainless steel equivalent) ; Gaskets: PTFE-sheathed non-asbestos	○	○	○	○	○	–	–	BSF
Special Gaskets (*3)	Viton® gaskets for use with a PFA or ceramics lining with PVC piping. Valqua #4010, special fluororubber not mixed. Available for 2.5 mm (0.1 in.) to 200 mm (8.0 in.) of PFA lining or 15 to 200 mm (0.5 to 8 in.) sizes of ceramics lining.		○	○	○	○	○	–	–	GA
	Acid-resistant Viton® gaskets for use with a PFA or ceramics lining with PVC piping. Valqua #4010, special fluororubber mixed (mixing #RCD470). Available for 2.5 mm (0.1 in.) to 200 mm (8.0 in.) of PFA lining or 15 to 200 mm (0.5 to 8 in.) sizes of ceramics lining.		○	○	○	○	○	–	–	GC
	Alkali-resistant Viton® gaskets for use with a PFA or ceramics lining with PVC piping. Valqua #4010, special fluororubber mixed (mixing #RCD970). Available for 2.5 mm (0.1 in.) to 200 mm (8.0 in.) of PFA lining or 15 to 200 mm (0.5 to 8 in.) sizes of ceramics lining.		○	○	○	○	○	–	–	GD
	Alkali-resistant carbonized fluororesin gaskets for use with a ceramics lining with metal piping. Valqua #7026.		○	○	○	○	–	–	–	GF
	Silicon rubber gaskets for Sanitary Type, provided between the lining and the adapter. For the condition of fluid temp. 120 to 160°C (248 to 320°F).		–	–	–	–	–	○	○	GH
Oil-prohibited Use	Electrodes, linings, and grounding rings are assembled and packed with polyethylene after being cleaned with water and acetone and dried with air. The label 'OIL FREE' is affixed.		○	○	○	○	–	–	–	K1

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

○: Available –: Not available

Item	Specifications	Applicable Model							Code
		General		Explosion proof		Submersible	Sanitary		
		Integral Flowmeter	Remote Flowtube	Integral Flowwmeter	Remote Flowtube	Remote Flowtube	Integral Flowmeter	Remote Flowtube	
		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	
Oil-prohibited Use with Dehydrating Treatment	Electrodes, linings, and grounding rings are assembled and packed with polyethylene including desiccants after being cleaned with water and acetone and dried with air. The label 'OIL & WATER FREE' is affixed.	○	○	○	○	–	–	–	K5
Painting Color Change	Coated in black (Munsell N1.5 or its equivalent.)	○	○	○	○	–	○	○	P1
	Coated in jade green (Munsell 7.5 BG 4/1.5 or its equivalent.)	○	○	○	○	–	○	○	P2
	Coated in metallic silver.	○	○	○	○	–	○	○	P7
Epoxy Resin Coating	Epoxy resin coating which has alkali-resistance instead of standard polyurethane resin coating. The color is same as standard type.	○	○	○	○	–	–	–	X1
High Anti-corrosion Coating	Three-layer coating (polyurethane coating on two-layer epoxy resin coating) in the same range as that for the standard coating. The color is same as standard type. Salt/alkali/acid/weather-resistance.	○	○	○	○	–	–	–	X2
Material Certificate	Reproduced material certificates for : PFA/polyurethane: Pipe, electrodes, grounding rings/grounding electrodes, flanges or mini flanges, adapters (for sanitary type) Ceramics: only grounding rings or grounding electrodes	○	○	○	○	○	○	○	M01
Hydrostatic Test	The test verifies the absence of leaks by applying the following water pressures (which are determined under process connection conditions) to linings for ten minutes. Test results are described in the Note column of a test certificate (QIC). **Process Connection:** / **Water Pressure:** ANSI Class 150, DIN PN10, JIS 10K / 1.5 MPa ANSI Class 300, DIN PN16, JIS 20K / 3.0 MPa DIN PN40, Union joint (Ceramics lining) / 6.0 MPa JIS F12 / 1.25 MPa	○	○	○	○	○	–	–	T01
Calibration Certificate	Level 2: The Declaration and the Calibration Equipment List are issued.	○	○	○	○	○	○	○	L2
	Level 3: The Declaration and the Primary Standard List are issued.	○	○	○	○	○	○	○	L3
	Level 4: The Declaration and the Yokogawa Measuring Instruments Control System are issued.	○	○	○	○	○	○	○	L4
Vent Hole	With a vent hole provided for permeable fluids (such as nitric acid, hydrofluoric acid, or sodium hydroxide at high temperature). Available only for a PFA lining flange type tube.	○	○	○	○	–	–	–	H
Enhanced Dual Frequency Excitation (*4)	Available for 25 to 200 mm (1.0 to 8.0 in.) sizes. Products are delivered with the Standard dual frequency excitation mode and the Enhanced dual frequency excitation mode enabled. As flow calibration is not performed for optional code HF1 while in Enhanced dual frequency excitation. Excitation mode select optional code HF2 when an accurate flow measurement is required.	○	○	○	○	○	○	○	HF1
	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

T26-3.EPS

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

○: Available –: Not available

Item	Specifications	Applicable Model							Code
		General		Explosion proof		Submersible	Sanitary		
		Integral Flowmeter	Remote Flowtube	Integral Flowmeter	Remote Flowtube	Remote Flowtube	Integral Flowmeter	Remote Flowtube	
		AXF***G-D 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	
Five-point Calibration in User-specified Span	A flow test at 0, 25, 50, 75, and 100% of the user-specified span is performed instead of the flow test of the standard 2m/s span and a test certificate (QIC) is submitted. Specify the span (100% flow span) whose corresponding flow velocity lies between 0.5 to 10 m/s and that is less than the maximum line capacity. Selectable range of flow rate span is showing below. **Size : mm (in.)** — **Selectable range of flow rate span : m^3/h (Flow rate span velocity : m/s)** 2.5 (0.1): 0.009 (0.5) to 0.05 (2.83) 5 (0.2): 0.036 (0.5) to 0.2 (2.83) 10 (0.4): 0.15 (0.5) to 0.96 (3.40) 15 (0.5): 0.32 (0.5) to 2.8 (4.40) 25 (1): 0.89 (0.5) to 11 (6.22) 32 (1.25): 1.45 (0.5) to 8.9 (10.00) 40 (1.5): 2.27 (0.5) to 32 (7.07) 50 (2): 3.54 (0.5) to 56 (7.92) 65 (2.5): 5.98 (0.5) to 80 (6.70) 80 (3): 9.05 (0.5) to 126 (6.96) 100 (4): 14.2 (0.5) to 220 (7.78) 125 (5): 22.1 (0.5) to 300 (6.79) 150 (6): 31.9 (0.5) to 380 (5.97) 200 (8): 56.6 (0.5) to 670 (5.92) 250 (10): 88.4 (0.5) to 1000 (5.66) 300 (12): 128 (0.5) to 1200 (4.72) 350 (14): 174 (0.5) to 1200 (3.47) 400 (16): 227 (0.5) to 1350 (2.98)	○	○	○	○	○	○	○	SC
FM Approval	FM Explosion proof See “HAZARDOUS AREA CLASSIFICATION”	–	–	○	○	–	–	–	FF1
CENELEC ATEX Certification (KEMA Approval)	ATEX Explosion proof See “HAZARDOUS AREA CLASSIFICATION”	–	–	○	○	–	–	–	KF2
CSA Certification	CSA Explosion proof See “HAZARDOUS AREA CLASSIFICATION”	–	–	○	○	–	–	–	CF1
IECEx Certification (*5)	IECEx Explosion proof See “HAZARDOUS AREA CLASSIFICATION”	–	–	○	–	–	–	–	SF2
TIIS Certification	TIIS Flameproof See “HAZARDOUS AREA CLASSIFICATION”	–	–	○	△ (*7)	–	–	–	JF3
Flameproof packing adapter for TIIS Flameproof Type (*6)	Two flameproof packing adapters	–	–	○	○	–	–	–	G12
	One flameproof packing adapter and one blind plug. Available for integral flowmeter and only when a four-wire cable is used for power input and signal output with a DC power supply.	–	–	○	–	–	–	–	G11

*1:

	Standard	+90-degree rotation Optional Code RA	+180-degree rotation Optional Code RB	−90-degree rotation Optional Code RC
Integral Flowmeter	Electrical Connection	Indicator	Electrical Connection	Indicator
Remote Flowtube		Electrical Connection		Electrical Connection

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

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

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

*5: Applicable only for Australia and New Zealand area.

*6: Select optional code G12 or G11 when TIIS Flameproof type with wiring using a flameproof packing adapter. Available only for JIS G1/2 electric connection.

*7: The TIIS flameproof type is only available for AXF***C-P (remote flowtube for combined use with AXFA14).

T26-4.EPS

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

○: Available –: Not available

Item	Specifications	Applicable Model		Code
		General Remote Flowtube AXF***G-N	Submersible Remote Flowtube AXF***W-N	
For District Heating and Cooling or Condensation-proof	Urethane resin potting is applied in the terminal box of a remote flowtube. Select JIS G1/2 for the electrical connections. 30-m dedicated and excitation cables are pre-wired and waterproof glands with union joints are attached at factory.	○	–	DHC
User-specified Signal and Excitation Cable Length	Available for the submersible type and a model with optional code DHC. The cable length is limited up to 200 meters when combined with an AXFA11 converter. Following "L," specify the cable length in three digits as a multiple of 1 meter (e. g., 001, 002, or 005) for a length up to 5 meters, or as a multiple of 5 meters (i.e., 005, 010, 015, or the like) for a length of 5 meters or more. If this optional code is not selected, a 30m long cable is attached.	○	○	L***
Mass Unit Setting	The flow rate span, transmission pulse weight, and totalizer display pulse weight can be set in terms of mass unit. Specify the density of the process fluid when ordering in addition to the mass flow rate span, transmission pulse weight (for mass unit), and totalizer display pulse weight (for mass unit). When ordering a remote flowtube, parameters for 'Mass Unit Setting' will be set in the corresponding converter before shipment. 1. Density a. Available density Numerics: Specify the numeric within the value of 0.0001 to 32000. And it can be up to five digits, to a maximum of 32000 ignoring the decimal point. A fraction is limited to the fourth decimal place. b. Available density units: kg/m^3, lb/gal, lb/cf Example: A water density is about 1000kg/m^3. In this case specify "1000kg/m^3". However a density is changed by temperature. Specify the actual density. (The 1000kg/m^3 is equivalent to 8.345lb/gal and 62.43lb/cf.) 2. The mass flow rate span, transmission pulse weight, and totalizer display pulse weight a. Available density Numerics: Specify the numeric within the value of 0.0001 to 32000. And it can be up to five digits, to a maximum of 32000 ignoring the decimal point. A fraction is limited to the fourth decimal place. b. Mass Units Available mass units: t, kg, g, klb, lb Available time units: /d, /h, /min, /s Note1: In case of specifying the mass flow span, calculate the volumetric flow span by the setting density, and specify the available value in the mass flow span. Note2: In case of transmission pulse weight and totalizer display pulse weight, specify the mass unit which was specified as the flow unit.	○	○	MU
G3/4 Female Waterproof Glands	Waterproof glands for G3/4 conduits or flexible tubes are attached to the electrical connections. Available only for JIS G1/2 electric connections.	○	–	EW
Waterproof Glands	Waterproof glands are attached to the electrical connections. Available only for JIS G1/2 electric connections.	○	–	EG
Waterproof Glands with Union Joints	Waterproof glands with union joints are attached to the electrical connections. Available only for JIS G1/2 electric connections.	○	–	EU
Stainless Steel Tag Plate	Screwd JIS SUS304 (AISI 304 SS/EN 1.4301 stainless steel equivalent) stainless steel tag plate for size 1100 to 2600 mm, or a pendant tag plate of JIS SUS304 is provided for size 500 to 1000 mm. Choose this option when a SS tag plate is required in addition to the standard nameplate with the tag number inscribed on it. Dimension (Height × Width): Appr. 12.5 (4.92) × 40 (15.7) mm (inch)	○	○	SCT
Direction Change of Electrical Connection (*1)	+90 degrees rotated terminal box to change the direction of the electrical connection. Available for 1000 mm (40 in.) and smaller sizes.	○	○	RA
	+180 degrees rotated terminal box to change the direction of the electrical connection. Available for 1000 mm (40 in.) and smaller sizes.	○	○	RB
	–90 degrees rotated terminal box to change the direction of the electrical connection. Available for 1000 mm (40 in.) and smaller sizes.	○	○	RC
Material Certificate	Material certificates are provided for linings, electrodes, grounding rings, and flanges.	○	○	M01

*1:

	Standard	+90-degree rotation Optional Code RA	+180-degree rotation Optional Code RB	–90-degree rotation Optional Code RC
Remote Flowtube		Electrical Connection 		 Electrical Connection

T26-5.EPS

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

○: Available –: Not available

Item	Specifications	Applicable Model		Code
		General Remote Flowtube AXF***G-N	Submersible Remote Flowtube AXF***W-N	
Hydrostatic Test	The test verifies the absence of leaks by applying the following water pressures (which are determined under process connection conditions) to lining for ten minutes. Test results are described in the Note column of a test certificate(QIC). **Process Connection:** **Water Pressure:** JIS 10K, ANSI Class 150, DIN PN10 1.5 MPa JIS F12 1.25 MPa	○	○	T01
Calibration Certificate	Level 2: The Declaration and the Calibration Equipment List are issued.	○	○	L2
	Level 3: The Declaration and the Primary Standard List are issued.	○	○	L3
	Level 4: The Declaration and the Yokogawa Measuring Instruments Control System are issued.	○	○	L4
Five-point Calibration in User-specified Span	A flow test at 0, 25, 50, 75, and 100% of the user-specified span is performed instead of the flow test of the standard 2m/s span and a test certificate (QIC) is submitted. Specify the span (100% flow span) whose corresponding flow velocity lies between 0.5 to 10 m/s and that is less than the maximum line capacity. Selectable range of flow rate span is showing below. **Size : mm (in.)** — **Selectable range of flow rate span : m^3/h (Flow rate span velocity : m/s)** 500 (20) 354 (0.5) to 7068 (10.00) 600 (24) 509 (0.5) to 8200 (8.06) 700 (28) 693 (0.5) to 8200 (5.92) 800 (32) 905 (0.5) to 8200 (4.53) 900 (36) 1146 (0.5) to 8200 (3.58) 1000 (40) 1414 (0.5) to 8200 (2.90) 1100 (44) 1711 (0.5) to 8200 (2.40) 1200 (48) 2036 (0.5) to 8200 (2.01) 1350 (54) 2577 (0.5) to 41300 (8.01) 1500 (60) 3181 (0.5) to 41300 (6.49) 1600 (64) 3620 (0.5) to 41300 (5.71) 1800 (72) 4581 (0.5) to 41300 (4.51) 2000 (80) 5655 (0.5) to 41300 (3.65) 2200 (88) 6843 (0.5) to 41300 (3.02) 2400 (96) 8143 (0.5) to 41300 (2.54) 2600 (104) 9557 (0.5) to 41300 (2.16)	○	○	SC

T26-6.EPS

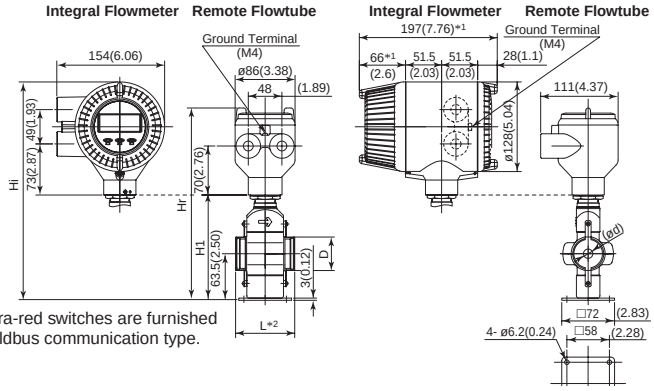
■ EXTERNAL DIMENSIONS

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

Unit : mm (approx. inch)

AXF002
AXF005
AXF010
AXF015
GWC — *4 DEFNP 12N A □ 1 □ — A □ □ 1

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



* No infra-red switches are furnished for Fieldbus communication type.

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 / Integral flowmeter	Face-to-face length	L*2	81(3.19)			
	Outside dia.	D	44(1.73)			
	Inner diameter of Grounding ring	ød	15(0.59)			
	Height	H1	144(5.67)			
Remote flowtube	Max. Height	Hr	268(10.55)			
	Weight kg (lb) *3		2.4(5.3)			
Integral flowmeter	Max. Height	Hi	306(12.03)			
	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.

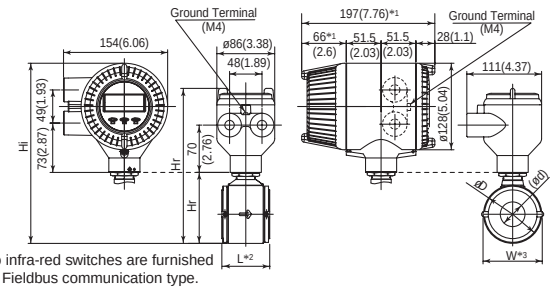
F22.EPS

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

Unit : mm (approx. inch)

AXF025
AXF032
AXF040
AXF050
AXF065
AXF080
AXF100
AXF125
GWC — *5 DEFNP 12N AUDG □ 1 2 □ — A □ □ 1

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



* No infra-red switches are furnished for Fieldbus communication type.

Model	Size code		025	032	040	050	065	080	100	125
	Size		25(1)	32(1.25)	40(1.5)	50(2)	65(2.5)	80(3)	100(4)	125(5)
	Lining code		A,U	A,U	A,U	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G
Remote Flowtube / Integral Flowmeter	Face-to-face length	L*2	60(2.36)	70(2.76)	70(2.76)	80(3.15)	100(3.94)	120(4.72)	150(5.91)	200(7.87)
	Outside dia.	ØD	67.5(2.66)	73(2.87)	86(3.39)	99(3.90)	117(4.61)	129(5.08)	155(6.10)	183(7.20)
	Inner diameter of Grounding ring	ød	28(1.10)	34(1.34)	41(1.61)	53(2.09)	66(2.60)	77(3.03)	102(4.02)	128(5.04)
	Width	W*3	67.5(2.66)	73(2.87)	86(3.39)	99(3.90)	117(4.61)	129(5.08)	155(6.10)	183(7.20)
	Height	H1	92(3.62)	98(3.86)	111(4.37)	129(5.08)	147(5.79)	157(6.18)	183(7.20)	212(8.35)
Remote Flowtube	Max. Height	Hr	216(8.50)	222(8.74)	235(9.25)	253(9.96)	271(10.67)	281(11.06)	307(12.09)	336(13.23)
	Weight kg (lb)*4		1.9(4.1)	2.0(4.5)	2.2(4.9)	2.7(5.8)	3.4(7.6)	4.1(9.1)	5.6(12.3)	9.3(20.4)
Integral Flowmeter	Max. Height	Hi	254(9.98)	260(10.24)	273(10.73)	291(11.44)	309(12.17)	319(12.54)	345(13.56)	374(14.70)
	Weight kg (lb)		3.6(7.8)	3.7(8.2)	3.9(8.7)	4.4(9.6)	5.1(11.3)	5.8(12.9)	7.3(16.0)	11.0(24.2)

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

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

Grounding Ring Code		S, L, H, V	P, T	N
Option Code	None	+0	+26(1.02)	-2(0.08)
	GA, GC, GD (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(2.07)	+52(2.05)	+49(1.93)	+48(1.89)	+47(1.85)

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

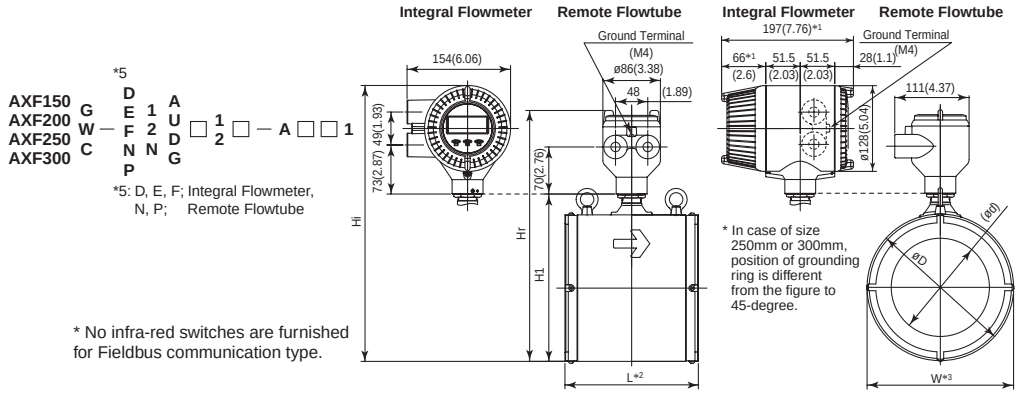
F23.EPS

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

Unit : mm (approx. inch)

AXF150 AXF200 AXF250 AXF300 — G W C — *5 D E F N P 1 2 N A U D G □ 1 2 □ — A □ □ 1

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



* No infra-red switches are furnished for Fieldbus communication type.

Model	Size code		150	200	250	300
	Size		150(6)	200(8)	250(10)	300(12)
	Lining code		A,U D,G	A,U D,G	A,U D,G	A,U D,G
Remote Flowtube Integral Flowmeter	Face-to-face length	L*2	200(7.87)	250(9.84)	300(11.81)	350(13.78)
Remote Flowtube	Outside dia.	ØD	202(7.95)	252(9.92)	310(12.20)	358(14.09)
Remote Flowtube Integral Flowmeter	Inner diameter of Grounding ring	Ød	146.1(5.75)	193.6(7.62)	243.7(9.59)	294.7(11.60)
Remote Flowtube Integral Flowmeter	Width	W*3	202(7.95)	252(9.92)	310(12.20)	358(14.09)
Remote Flowtube Integral Flowmeter	Height	H1	243(9.57)	293(11.54)	354(13.94)	402(15.83)
Remote Flowtube	Max. Height	Hr	367(14.45)	417(16.42)	478(18.82)	526(20.71)
Remote Flowtube	Weight kg (lb)*4		14.5(32.0)	22.1(48.7)	39.0(86.0)	48.3(106.5)
Integral Flowmeter	Max. Height	Hi	405(15.93)	455(17.89)	516(20.31)	564(22.20)
Integral Flowmeter	Weight kg (lb)		16.2(35.7)	23.8(52.4)	40.7(89.7)	50.0(110.2)

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

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

Nominal Size: 150 to 200mm				
Grounding Ring Code		S, L, H, V	P, T	N
Option Code	None	+0	+32(1.26)	-2(0.08)
	GA, GC, GD (Special Gaskets)	+10(0.39)	+38(1.5)	–

Nominal Size: 250 to 300mm			
Grounding Ring Code	S, L, H, V	P, T	N
Option Code is "None"	+0	–	-2(0.08)

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

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

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

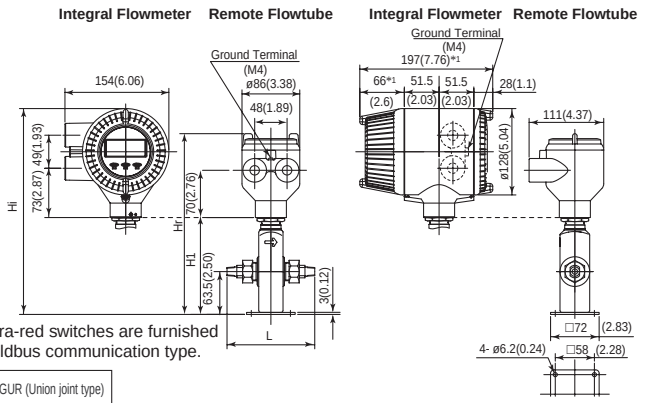
F24.EPS

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

Unit : mm (approx. inch)

AXF002 AXF005 AXF010 — G C — *2 D E F N P 1 2 N C E 1 N — G U W N R 1

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

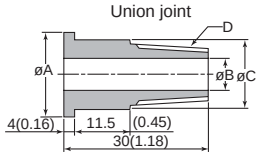


* No infra-red switches are furnished for Fieldbus communication type.

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

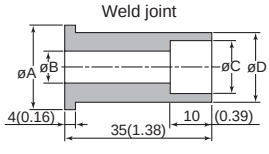
*1: When indicator code N is selected, subtract 12 mm (0.47 inch) from the value in the figure.
In case of explosion proof type with indicator, add 5 mm (0.2 inch) to it.

Union joint



Size	A	B	C	D
2.5 (0.1)	22(0.87)	8(0.31)	18.5(0.73)	R1/4
	22(0.87)	8(0.31)	18.5(0.73)	NPT1/4
5 (0.2)	22(0.87)	8(0.31)	18.5(0.73)	R1/4
	22(0.87)	8(0.31)	18.5(0.73)	NPT1/4
10 (0.4)	25(0.98)	10(0.39)	22.5(0.89)	R3/8
	25(0.98)	10(0.39)	22.5(0.89)	NPT3/8

Weld joint



Size	A	B	C	D
2.5(0.1)	22(0.87)	8(0.31)	14.3(0.56)	18.5(0.73)
5(0.2)	22(0.87)	8(0.31)	14.3(0.56)	18.5(0.73)
10(0.4)	25(0.98)	10(0.39)	17.8(0.70)	22.5(0.89)

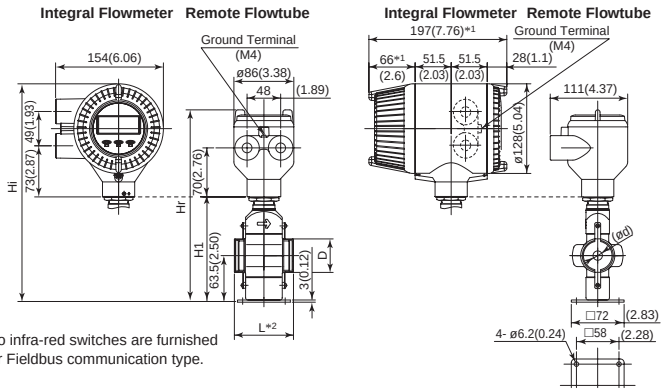
F25.EPS

● AXF Standard, AXF015, Wafer Type, Ceramics Lining

AXF015 GC — *3 D E F N P 1 2 N C E 1 □ — A □ □ 1

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

Unit : mm (approx. inch)



* No infra-red switches are furnished for Fieldbus communication type.

Model	Size code		015
	Size		15(0.5)
	Lining code		C
Remote flowtube / Integral flowmeter	Face-to-face length	L *2	85(3.35)
	Outside dia.	D	44(1.73)
	Inner diameter of Grounding ring	ød	15(0.59)
	Height	H1	144(5.67)
Remote flowtube	Max. Height	Hr	268(10.55)
	Weight kg (lb)		2.3(5.1)
Integral flowmeter	Max. Height	Hi	306(12.03)
	Weight kg (lb)		4(8.8)

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

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

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

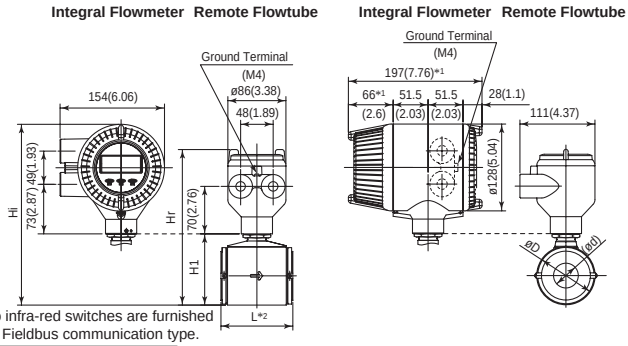
F26.EPS

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

AXF025
AXF040
AXF050
AXF080
AXF100
GC — *3 D E F N P 1 2 N C E 1 □ — A □ □ 1

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

Unit : mm (approx. inch)



* No infra-red switches are furnished for Fieldbus communication type.

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 / Integral Flowmeter	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)
	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)	159(6.26)	184(7.24)
Remote Flowtube	Max. Height	Hr	216(8.50)	235(9.25)	253(9.96)	283(11.14)	308(12.13)
	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)	321(12.64)	346(13.62)
	Weight kg (lb)		4.0(8.8)	4.9(10.8)	5.8(12.7)	8.5(18.8)	11.3(24.9)

*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(0.87)	-6(0.24)

F27.EPS

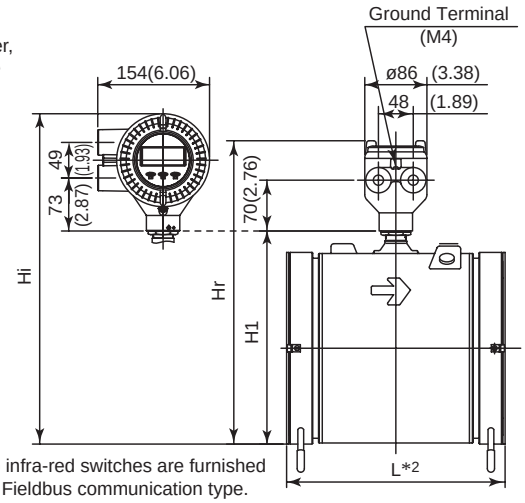
● AXF Standard, AXF150, AXF200, Wafer Type, Ceramics Lining

Unit : mm (approx. inch)

AXF150 G
AXF200 C — *3 D E F N P 1 2 N C E 1 □ — A □ □ 1

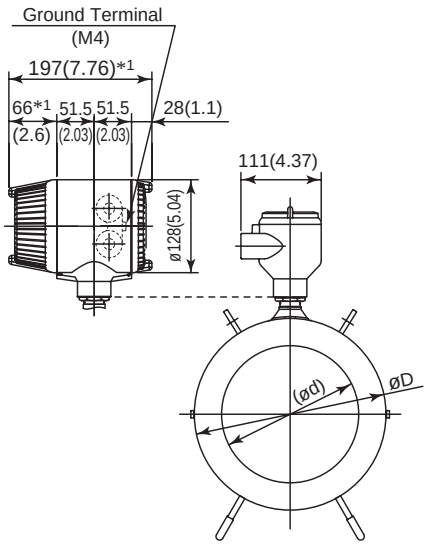
*3: D, E, F; Integral Flowmeter,
N, P; Remote Flowtube

Integral Flowmeter **Remote Flowtube**



* No infra-red switches are furnished for Fieldbus communication type.

Integral Flowmeter **Remote Flowtube**



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

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

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

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

F28.EPS

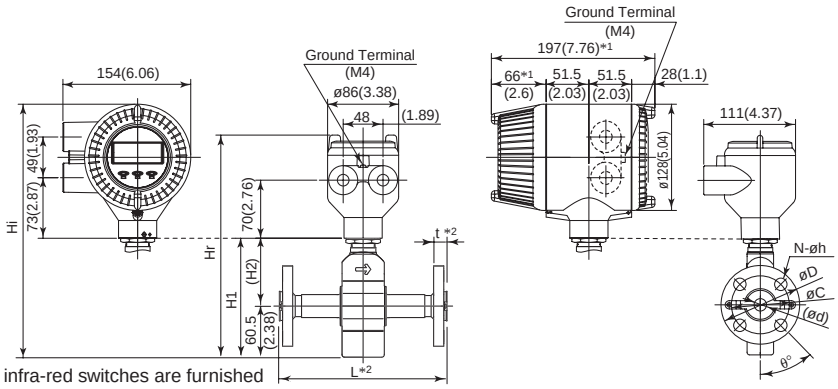
● AXF Standard, AXF002-AXF015, JIS/ANSI/DIN Flange Type, PFA Lininig

Unit : mm (approx. inch)

Integral Flowmeter **Remote Flowtube** **Integral Flowmeter** **Remote Flowtube**

AXF002 / AXF005 / AXF010 / AXF015 — G / W / C — *4: D / E / F / N / P — 1 / 2 / N — A □ 1 □ — B J 1 / B J 2 / B A 1 / B A 2 / B D 4 / D J 1 / D J 2 / D D 4 — 1

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



* No infra-red switches are furnished for Fieldbus communication type.

Model	Process Connection		BJ1(JIS10K)				BJ2(JIS20K)				BA1(ANSI Class 150)				BA2(ANSI Class 300)				BD4(DIN PN40)				DJ1(JIS10K)			DJ2(JIS20K)			DD4(DIN PN40)		
	Size code		002	005	010	015	002	005	010	015	002	005	010	015	002	005	010	015	002	005	010	015	002	005	010	002	005	010	002	005	010
	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)	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)	2.5 (0.1)	5 (0.2)	10 (0.4)	15 (0.5)	2.5 (0.1)	5 (0.2)	10 (0.4)	2.5 (0.1)	5 (0.2)	10 (0.4)	2.5 (0.1)	5 (0.2)	10 (0.4)
	Lining code		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Remote Flowtube / Integral Flowmeter	Face-to-face length	L $^{0}_{-3}$ *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)	150(5.91)			200 (7.87)	150(5.91)			150(5.91)			150(5.91)		
	Outside dia.	øD	95(3.74)				95(3.74)				88.9(3.50)				95.3(3.75)				95(3.74)				90(3.54)			90(3.54)			90(3.54)		
	Thickness	t *2	18 to 22 (0.71 to 0.87)			16 (0.63)	20 to 24 (0.79 to 0.94)			18 (0.71)	17 to 22 (0.67 to 0.87)			15.2 (0.60)	20 to 25 (0.79 to 0.98)			18.2 (0.72)	21 to 25 (0.83 to 0.98)			20 (0.79)	18 to 22 (0.71 to 0.87)			20 to 24 (0.79 to 0.94)			21 to 25 (0.83 to 0.98)		
	Inner diameter of Grounding ring	ød	15(0.59)				15(0.59)				15(0.59)				15(0.59)				15(0.59)				12(0.47)			12(0.47)			12(0.47)		
	Pitch circle dia.	øC	70(2.76)				70(2.76)				60.5(2.38)				66.5(2.62)				65(2.56)				65(2.56)			65(2.56)			60(2.36)		
	Bolt hole interval	θ°	45				45				45				45				45				45			45			45		
	Hole dia.	øh	15(0.59)				15(0.59)				15.7(0.62)				15.7(0.62)				14(0.55)				15(0.59)			15(0.59)			14(0.55)		
	Number of holes	N	4				4				4				4				4				4			4			4		
	Height	H1	141(5.54)				141(5.54)				141(5.54)				141(5.54)				141(5.54)				141(5.54)			141(5.54)			141(5.54)		
	Height	H2	80(3.15)				80(3.15)				80(3.15)				80(3.15)				80(3.15)				80(3.15)			80(3.15)			80(3.15)		
Remote Flowtube	Max. Height	Hr	265(10.43)				265(10.43)				265(10.43)				265(10.43)				265(10.43)				265(10.43)			265(10.43)			265(10.43)		
	Weight kg (lb) *3		3.4(7.5)			3.5 (7.7)	3.6(7.9)			3.7 (8.2)	3.2(7.1)			3.3 (7.3)	3.6(7.9)			3.7 (8.2)	3.8(8.4)			3.9 (8.6)	3.3(7.3)			3.4(7.5)			3.6(7.9)		
Integral Flowmeter	Max. Height	Hi	303(11.91)				303(11.91)				303(11.91)				303(11.91)				303(11.91)				303(11.91)			303(11.91)			303(11.91)		
	Weight kg (lb)		5.1(11.2)			5.2 (11.5)	5.3(11.7)			5.4 (11.9)	4.9(10.8)			5.0 (11.0)	5.3(11.7)			5.4 (11.9)	5.5(12.1)			5.6 (12.4)	5.0(11.0)			5.1(11.2)			5.3(11.7)		

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

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

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

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

F29.EPS

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

Unit : mm (approx. inch)

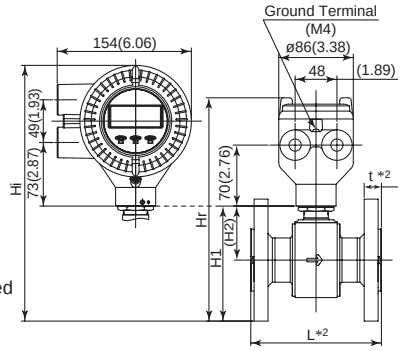
Integral Flowmeter **Remote Flowtube** **Integral Flowmeter** **Remote Flowtube**

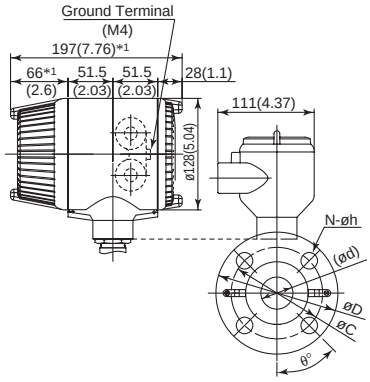
AXF025
AXF032
AXF040
AXF050

G W C — *4 D E F N P 1 2 N A U D G □ 1 2 □ — B A □ B J □ B D 4 C A □ C J □ C D 4

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

* No infra-red switches are furnished for Fieldbus communication type.





Model	Process Connection		BJ1(JIS10K)			BJ1/CJ1 (JIS10K)	BJ2(JIS20K)			BJ2/CJ2 (JIS20K)	BA1(ANSI Class 150)			BA1/CA1 (ANSI Class 150)	BA2(ANSI Class 300)			BA2/CA2 (ANSI Class 300)	BD4(DIN PN40)			BD4/CD4 (DIN PN40)
	Size code		025	032	040	050	025	032	040	050	025	032	040	050	025	032	040	050	025	032	040	050
	Size		25 (1)	32 (1.25)	40 (1.5)	50 (2)	25 (1)	32 (1.25)	40 (1.5)	50 (2)	25 (1)	32 (1.25)	40 (1.5)	50 (2)	25 (1)	32 (1.25)	40 (1.5)	50 (2)	25 (1)	32 (1.25)	40 (1.5)	50 (2)
	Lining code		A,U	A,U	A,U	A,U D,G	A,U	A,U	A,U	A,U D,G	A,U	A,U	A,U	A,U D,G	A,U	A,U	A,U	A,U D,G	A,U	A,U	A,U	A,U D,G
Remote Flowtube / Integral Flowmeter	Face-to-face length	L $^{0}_{-3}$ *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)	200 (7.87)	200 (7.87)	200 (7.87)	200 (7.87)	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	125 (4.92)	135 (5.31)	140 (5.51)	155 (6.10)	125 (4.92)	135 (5.31)	140 (5.51)	155 (6.10)	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)	115 (4.53)	140 (5.51)	150 (5.91)	165 (6.50)
	Thickness	t *2	18 (0.71)	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	22 (0.87)	22 (0.87)	22 (0.87)	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)	22 (0.87)	22 (0.87)	22 (0.87)	24 (0.94)
	Inner diameter of Grounding ring	ød	28 (1.10)	34 (1.34)	41 (1.61)	53 (2.09)	28 (1.10)	34 (1.34)	41 (1.61)	53 (2.09)	28 (1.10)	34 (1.34)	41 (1.61)	53 (2.09)	28 (1.10)	34 (1.34)	41 (1.61)	53 (2.09)	28 (1.10)	34 (1.34)	41 (1.61)	53 (2.09)
	Pitch circle dia.	øC	90 (3.54)	100 (3.94)	105 (4.13)	120 (4.72)	90 (3.54)	100 (3.94)	105 (4.13)	120 (4.72)	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)	85 (3.35)	100 (3.94)	110 (4.33)	125 (4.92)
	Bolt hole interval	θ°	45	45	45	45	45	45	45	22.5	45	45	45	45	45	45	45	22.5	45	45	45	45
	Hole dia.	øh	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	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)	14 (0.55)	18 (0.71)	18 (0.71)	18 (0.71)
	Number of holes	N	4	4	4	4	4	4	4	8	4	4	4	4	4	4	4	8	4	4	4	4
	Height	H1	120 (4.74)	129 (5.08)	138 (5.43)	157 (6.16)	120 (4.74)	129 (5.08)	138 (5.43)	157 (6.16)	112 (4.40)	120 (4.72)	131 (5.17)	155 (6.11)	120 (4.72)	128 (5.04)	146 (5.73)	162 (6.36)	115 (4.54)	131 (5.16)	143 (5.63)	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)	58 (2.28)	61 (2.40)	68 (2.67)	79 (3.11)	58 (2.28)	61 (2.40)	68 (2.67)	79 (3.11)	58 (2.28)	61 (2.40)	68 (2.67)	79 (3.11)
Remote Flowtube	Max. Height	Hr	244 (9.62)	253 (9.96)	262 (10.31)	281 (11.04)	244 (9.62)	253 (9.96)	262 (10.31)	281 (11.04)	236 (9.28)	244 (9.61)	255 (10.05)	279 (10.99)	244 (9.60)	252 (9.92)	270 (10.61)	286 (11.24)	239 (9.42)	255 (10.04)	267 (10.51)	286 (11.24)
	Weight kg (lb) *3		4.4 (9.8)	5.3 (11.7)	5.7 (12.6)	6.8 (14.9)	4.8 (10.5)	5.7 (12.6)	6.2 (13.6)	7.0 (15.4)	3.9 (8.5)	4.5 (9.9)	5.4 (11.9)	7.4 (16.4)	5.0 (11.0)	5.8 (12.9)	7.8 (17.1)	9.0 (19.8)	4.7 (10.4)	6.1 (13.4)	6.9 (15.2)	8.7 (19.2)
Integral Flowmeter	Max. Height	Hi	282 (11.09)	291 (11.46)	299 (11.79)	318 (12.52)	282 (11.09)	291 (11.46)	299 (11.79)	318 (12.52)	273 (10.76)	282 (11.10)	293 (11.53)	317 (12.47)	281 (11.07)	290 (11.42)	307 (12.09)	323 (12.72)	277 (10.90)	293 (11.54)	304 (11.98)	323 (12.72)
	Weight kg (lb)		6.1 (13.5)	7.0 (15.5)	7.4 (16.4)	8.5 (18.6)	6.5 (14.3)	7.4 (16.4)	7.9 (17.4)	8.7 (19.1)	5.6 (12.2)	6.2 (13.6)	7.1 (15.7)	9.1 (20.1)	6.7 (14.7)	7.5 (16.6)	9.5 (20.8)	10.7 (23.6)	6.4 (14.1)	7.8 (17.2)	8.6 (19.0)	10.4 (22.9)

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

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

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

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

F30.EPS

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

Unit : mm (approx. inch)

AXF065
AXF080
AXF100
AXF125

G
W
C

—

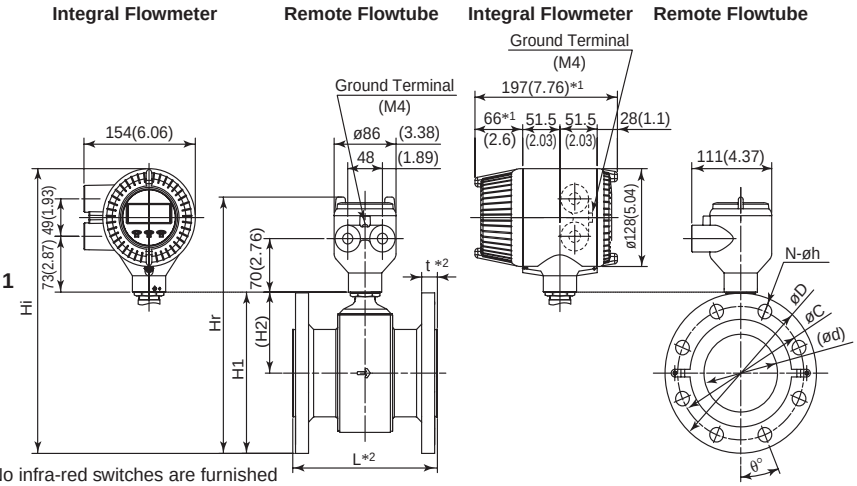
*4
D
E
F
N
P

1
2
N

A
U
D
G

□ 1 2 □ — B A □ 1
B D 2
B J □
B G 1
C A □
C D 2
C J □
C G 1

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



* No infra-red switches are furnished for Fieldbus communication type.

Model	Process Connection		BJ1/CJ1(JIS10K)				BJ2/CJ2(JIS20K)				BG1/CG1(JIS F12)			BA1/CA1(ANSI Class 150)				BA2/CA2(ANSI Class 300)				BD2/CD2(DIN PN16)			
	Size code		065	080	100	125	065	080	100	125	080	100	125	065	080	100	125	065	080	100	125	065	080	100	125
	Size		65 (2.5)	80 (3)	100 (4)	125 (5)	65 (2.5)	80 (3)	100 (4)	125 (5)	80 (3)	100 (4)	125 (5)	65 (2.5)	80 (3)	100 (4)	125 (5)	65 (2.5)	80 (3)	100 (4)	125 (5)	65 (2.5)	80 (3)	100 (4)	125 (5)
	Lining code		A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G
Remote flowtube	Face-to-face length	L $^{0}_{-3}$ *2	200 (7.87)	200 (7.87)	250 (9.84)	250 (9.84)	200 (7.87)	200 (7.87)	250 (9.84)	250 (9.84)	200 (7.87)	250 (9.84)	250 (9.84)	200 (7.87)	200 (7.87)	250 (9.84)	250 (9.84)	200 (7.87)	200 (7.87)	250 (9.84)	250 (9.84)	200 (7.87)	200 (7.87)	250 (9.84)	250 (9.84)
	Outside dia.	øD	175 (6.89)	185 (7.28)	210 (8.27)	250 (9.84)	175 (6.89)	200 (7.87)	225 (8.86)	270 (10.63)	211 (8.31)	238 (9.37)	263 (10.35)	177.8 (7.00)	190.5 (7.50)	228.6 (9.00)	254.0 (10.00)	190.5 (7.50)	209.6 (8.25)	254.0 (10.00)	279.4 (11.00)	185 (7.28)	200 (7.87)	220 (8.66)	250 (9.84)
	Thickness	t *2	22 (0.87)	22 (0.87)	22 (0.87)	24 (0.94)	24 (0.94)	26 (1.02)	28 (1.10)	30 (1.18)	22 (0.87)	22 (0.87)	24 (0.94)	26.4 (1.04)	27.9 (1.10)	27.9 (1.10)	27.9 (1.10)	29.4 (1.16)	32.4 (1.28)	35.8 (1.41)	39.1 (1.54)	22 (0.87)	24 (0.94)	24 (0.94)	26 (1.02)
	Inner diameter of Grounding ring	ød	66 (2.60)	77 (3.03)	102 (4.02)	128 (5.04)	66 (2.60)	77 (3.03)	102 (4.02)	128 (5.04)	77 (3.03)	102 (4.02)	128 (5.04)	66 (2.60)	77 (3.03)	102 (4.02)	128 (5.04)	66 (2.60)	77 (3.03)	102 (4.02)	128 (5.04)	66 (2.60)	77 (3.03)	102 (4.02)	128 (5.04)
	Pitch circle dia.	øC	140 (5.51)	150 (5.91)	175 (6.89)	210 (8.27)	140 (5.51)	160 (6.30)	185 (7.28)	225 (8.86)	168 (6.61)	195 (7.68)	220 (8.66)	139.7 (5.50)	152.4 (6.00)	190.5 (7.50)	215.9 (8.50)	149.4 (5.88)	168.1 (6.62)	200.2 (7.88)	235.0 (9.25)	145 (5.71)	160 (6.30)	180 (7.09)	210 (8.27)
Integral flowmeter	Bolt hole interval	θ°	45	22.5	22.5	22.5	22.5	22.5	22.5	22.5	45	45	30	45	45	22.5	22.5	22.5	22.5	22.5	22.5	45	22.5	22.5	22.5
	Hole dia.	øh	19 (0.75)	19 (0.75)	19 (0.75)	23 (0.91)	19 (0.75)	23 (0.91)	23 (0.91)	25 (0.98)	19 (0.75)	19 (0.75)	19 (0.75)	19.1 (0.75)	19.1 (0.75)	19.1 (0.75)	22.4 (0.88)	22.4 (0.88)	22.4 (0.88)	22.4 (0.88)	22.4 (0.88)	18 (0.71)	18 (0.71)	18 (0.71)	18 (0.71)
	Number of holes	N	4	8	8	8	8	8	8	8	4	4	6	4	4	8	8	8	8	8	8	4	8	8	8
	Height	H1	176 (6.93)	187 (7.36)	211 (8.30)	245 (9.65)	176 (6.93)	195 (7.68)	218 (8.59)	255 (10.04)	200 (7.87)	225 (8.85)	252 (9.90)	177 (6.97)	190 (7.48)	220 (8.66)	247 (9.72)	184 (7.24)	200 (7.87)	233 (9.16)	260 (10.22)	181 (7.13)	195 (7.68)	216 (8.49)	245 (9.65)
	Height	H2	89 (3.50)	95 (3.74)	106 (4.16)	120 (4.73)	89 (3.50)	95 (3.74)	106 (4.16)	120 (4.73)	95 (3.74)	106 (4.16)	120 (4.73)	89 (3.50)	95 (3.74)	106 (4.16)	120 (4.72)	89 (3.50)	95 (3.74)	106 (4.16)	120 (4.72)	89 (3.50)	95 (3.74)	106 (4.16)	120 (4.72)
Remote flowtube	Max. Height	Hr	300 (11.81)	311 (12.24)	335 (13.18)	369 (14.53)	300 (11.81)	319 (12.56)	342 (13.47)	379 (14.92)	324 (12.76)	349 (13.73)	376 (14.79)	301 (11.85)	314 (12.36)	344 (13.54)	371 (14.61)	308 (12.13)	324 (12.76)	357 (14.04)	384 (15.11)	305 (12.01)	319 (12.56)	340 (13.37)	369 (14.53)
	Weight kg (lb) *3		9.0 (19.8)	9.6 (21.2)	12.4 (27.3)	17.4 (38.3)	9.3 (20.5)	12.4 (27.3)	16.9 (37.3)	24.7 (54.5)	12.2 (26.9)	15.5 (34.2)	19.5 (43.1)	10.8 (23.7)	12.9 (28.5)	17.7 (39.1)	20.8 (45.9)	12.6 (27.7)	16.6 (36.6)	26.8 (59.1)	34.9 (76.9)	9.8 (21.6)	11.9 (26.2)	14.5 (32.0)	19.3 (42.5)
Integral flowmeter	Max. Height	Hi	338 (13.31)	349 (13.74)	372 (14.65)	407 (16.01)	338 (13.31)	357 (14.06)	380 (14.95)	417 (16.40)	362 (14.25)	386 (15.21)	413 (16.26)	339 (13.35)	352 (13.86)	382 (15.02)	409 (16.08)	346 (13.62)	362 (14.25)	394 (15.52)	421 (16.58)	343 (13.50)	357 (14.06)	377 (14.85)	407 (16.00)
	Weight kg (lb)		10.7 (23.5)	11.3 (25.0)	14.1 (31.0)	19.1 (42.1)	11.0 (24.3)	14.1 (31.0)	18.6 (41.0)	26.4 (58.3)	13.9 (30.7)	17.2 (37.8)	21.2 (46.8)	12.5 (27.5)	14.6 (32.2)	19.4 (42.8)	22.5 (49.6)	14.3 (31.4)	18.3 (40.4)	28.5 (62.8)	36.6 (80.7)	11.5 (25.4)	13.6 (29.9)	16.2 (35.7)	21.0 (46.2)

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

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

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

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

F31.EPS

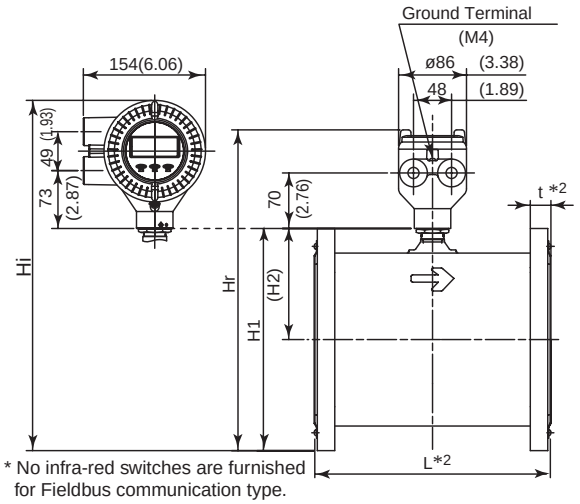
● AXF Standard, AXF150, AXF200, JIS/ANSI/DIN Flange Type, PFA /Polyurethane Rubber /Natural Soft Rubber /EPDM Rubber Lining

Unit : mm (approx. inch)

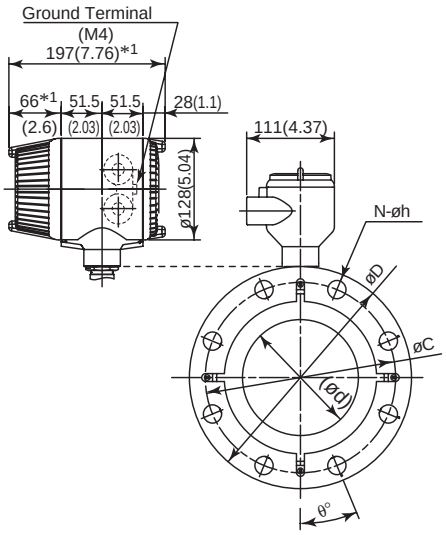
AXF150 AXF200 — G W C — *4 D E F N P — 1 2 N — A U D G — □ 1 2 □ — B A □ / B D □ / B J □ / B G 1 / C A □ / C D □ / C J □ / C G 1 — 1

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

Integral Flowmeter **Remote Flowtube**



Integral Flowmeter **Remote Flowtube**



* No infra-red switches are furnished for Fieldbus communication type.

Model	Process Connection		BJ1/CJ1(JIS10K)		BJ2/CJ2(JIS20K)		BG1/CG1(JIS F12)		BA1/CA1(ANSI Class 150)		BA2/CA2(ANSI Class 300)		BD1/CD1(DIN PN10)	BD2/CD2(DIN PN16)	
	Size code		150	200	150	200	150	200	150	200	150	200	200	150	200
	Size		150 (6)	200 (8)	150 (6)	200 (8)	150 (6)	200 (8)	150 (6)	200 (8)	150 (6)	200 (8)	200 (8)	150 (6)	200 (8)
	Lining code		A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G
Remote flowtube / Integral flowmeter	Face-to-face length	L $^{0}_{-3}$ *2	300 (11.81)	350 (13.78)	300 (11.81)	350 (13.78)	300 (11.81)	350 (13.78)	300 (11.81)	350 (13.78)	300 (11.81)	350 (13.78)	350 (13.78)	300 (11.81)	350 (13.78)
	Outside dia.	øD	280 (11.02)	330 (12.99)	305 (12.01)	350 (13.78)	290 (11.42)	342 (13.46)	279.4 (11.00)	342.9 (13.50)	317.5 (12.50)	381.0 (15.00)	340 (13.39)	285 (11.22)	340 (13.39)
	Thickness	t *2	27 (1.06)	27 (1.06)	33 (1.30)	35 (1.38)	27 (1.06)	29 (1.14)	30.4 (1.20)	33.4 (1.31)	43.5 (1.71)	46.1 (1.81)	29 (1.14)	27 (1.06)	29 (1.14)
	Inner diameter of Grounding ring	ød	146.1 (5.75)	193.6 (7.62)	146.1 (5.75)	193.6 (7.62)	146.1 (5.75)	193.6 (7.62)	146.1 (5.75)	193.6 (7.62)	146.1 (5.75)	193.6 (7.62)	193.6 (7.62)	146.1 (5.75)	193.6 (7.62)
	Pitch circle dia.	øC	240 (9.45)	290 (11.42)	260 (10.24)	305 (12.01)	247 (9.72)	299 (11.77)	241.3 (9.50)	298.5 (11.75)	269.7 (10.62)	330.2 (13.00)	295 (11.61)	240 (9.45)	295 (11.61)
	Bolt hole interval	θ°	22.5	15	15	15	30	22.5	22.5	22.5	15	15	22.5	22.5	15
	Hole dia.	øh	23 (0.91)	23 (0.91)	25 (0.98)	25 (0.98)	19 (0.75)	19 (0.75)	22.4 (0.88)	22.4 (0.88)	22.4 (0.88)	25.4 (1.00)	22 (0.87)	22 (0.87)	22 (0.87)
	Number of holes	N	8	12	12	12	6	8	8	8	12	12	8	8	12
	Height	H1	281 (11.06)	331 (13.03)	294 (11.56)	341 (13.43)	286 (11.26)	337 (13.27)	281 (11.05)	337 (13.29)	300 (11.80)	357 (14.04)	336 (13.23)	284 (11.16)	336 (13.23)
	Height	H2	141 (5.55)	166 (6.54)	141 (5.55)	166 (6.54)	141 (5.55)	166 (6.54)	141 (5.55)	166 (6.54)	141 (5.55)	166 (6.54)	166 (6.54)	141 (5.55)	166 (6.54)
Remote flowtube	Max. Height	Hr	405 (15.94)	455 (17.91)	418 (16.44)	465 (18.31)	410 (16.14)	461 (18.15)	405 (15.93)	461 (18.17)	424 (16.68)	481 (18.92)	460 (18.11)	408 (16.04)	460 (18.11)
	Weight kg (lb) *3		27.8 (61.3)	37.3 (82.2)	37.1 (81.8)	51.9 (114.4)	29.9 (65.9)	43.2 (95.3)	30.9 (68.0)	49.2 (108.4)	52.5 (115.7)	78.8 (173.7)	42.5 (93.7)	28.7 (63.2)	41.9 (92.5)
Integral flowmeter	Max. Height	Hi	443 (17.42)	493 (19.39)	456 (17.95)	503 (19.80)	448 (17.64)	499 (19.65)	443 (17.43)	499 (19.66)	462 (18.18)	519 (20.41)	498 (19.61)	446 (17.54)	498 (19.61)
	Weight kg (lb)		29.5 (65.0)	39.0 (86.0)	38.8 (85.5)	53.6 (118.2)	31.6 (69.7)	44.9 (99.0)	32.6 (71.8)	50.9 (112.2)	54.2 (119.5)	80.5 (177.5)	44.2 (97.5)	30.4 (66.9)	43.6 (96.2)

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

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

		L	t	L	t	L	t
Grounding Ring Code		S, L, H, V		P, T		N	
Option Code	None	+0	+0	+32(1.26)	+16(0.63)	-2(0.08)	-1(0.04)
	GA, GC, GD (Special Gaskets)	+10(0.39)	+5(0.20)	+38(1.5)	+19(0.75)	–	–

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

F32.EPS

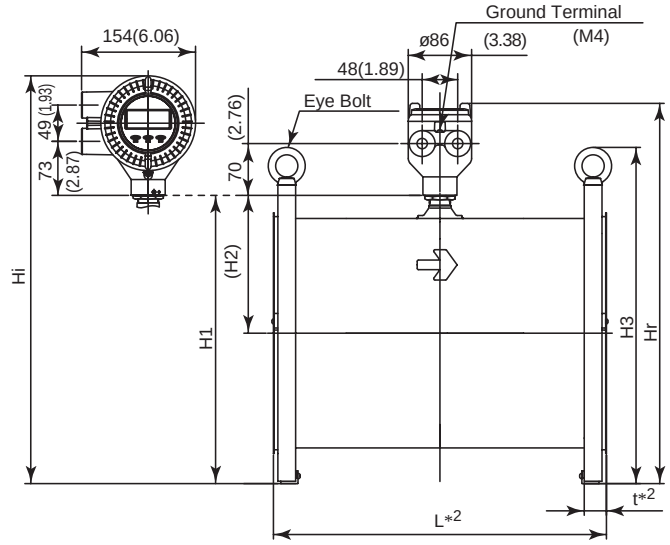
● AXF Standard, AXF250-AXF400, JIS/ANSI/DIN Flange Type, PFA /Polyurethane Rubber /Natural Soft Rubber /EPDM Rubber Lining

Unit : mm (approx. inch)

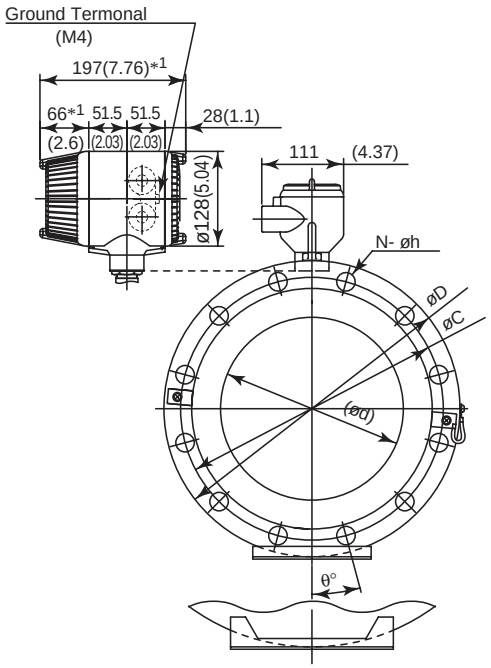
AXF250 / AXF300 / AXF350 / AXF400 — G / W / C — *4: D / E / F / N / P — 1 / 2 / N — A / U / D / G — □ — 1 / 2 / □ — B A □ / B D □ / B J □ / B G 1 / C A □ / C D □ / C J □ / C G 1 — 1

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

Integral Flowmeter **Remote Flowtube**



Integral Flowmeter **Remote Flowtube**



for AXF300, AXF350, AXF400

* No infra-red switches are furnished for Fieldbus communication type.

Model	Process Connection		BJ1/CJ1(JIS10K)				BJ2/CJ2 (JIS20K)		BG1/CG1(JIS F12)				BA1/CA1(ANSI Class 150)				BA2/CA2 (ANSI Class 300)		BD1/CD1(DIN PN10)				BD2/CD2 (DIN PN16)	
	Size code		250	300	350	400	250	300	250	300	350	400	250	300	350	400	250	300	250	300	350	400	250	300
	Size		250 (10)	300 (12)	350 (14)	400 (16)	250 (10)	300 (12)	250 (10)	300 (12)	350 (14)	400 (16)	250 (10)	300 (12)	350 (14)	400 (16)	250 (10)	300 (12)	250 (10)	300 (12)	350 (14)	400 (16)	250 (10)	300 (12)
	Lining code		A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G	A,U D,G
Remote flowtube	Face-to-face length	L^{0}_{-5}*2	450 (17.72)	500 (19.69)	550 (21.65)	600 (23.62)	450 (17.72)	500 (19.69)	450 (17.72)	500 (19.69)	550 (21.65)	600 (23.62)	450 (17.72)	500 (19.69)	550 (21.65)	600 (23.62)	450 (17.72)	500 (19.69)	450 (17.72)	500 (19.69)	550 (21.65)	600 (23.62)	450 (17.72)	500 (19.69)
	Outside dia.	øD	400 (15.75)	445 (17.52)	490 (19.29)	560 (22.05)	430 (16.93)	480 (18.90)	410 (16.14)	464 (18.27)	530 (20.87)	582 (22.91)	406.4 (16.00)	482.6 (19.00)	533.4 (21.00)	596.9 (23.50)	444.5 (17.50)	520.7 (20.50)	395 (15.55)	445 (17.52)	505 (19.88)	565 (22.24)	405 (15.94)	460 (18.11)
	Thickness	t*2	32 (1.26)	34 (1.34)	36 (1.42)	38 (1.50)	42 (1.65)	44 (1.73)	32 (1.26)	34 (1.34)	36 (1.42)	36 (1.42)	38.2 (1.50)	39.8 (1.57)	45.1 (1.78)	46.6 (1.83)	55.7 (2.19)	58.8 (2.31)	34 (1.34)	34 (1.34)	36 (1.42)	36 (1.42)	34 (1.34)	36 (1.42)
	Inner diameter of Grounding ring	ød	243 (9.57)	291.3 (11.47)	323.4 (12.73)	373.5 (14.70)	243 (9.57)	291.3 (11.47)	243 (9.57)	291.3 (11.47)	323.4 (12.73)	373.5 (14.70)	243 (9.57)	291.3 (11.47)	323.4 (12.73)	373.5 (14.70)	243 (9.56)	291.3 (11.47)	243 (9.57)	291.3 (11.47)	323.4 (12.73)	373.5 (14.70)	243 (9.57)	291.3 (11.47)
	Pitch circle dia.	øC	355 (13.98)	400 (15.75)	445 (17.52)	510 (20.08)	380 (14.96)	430 (16.93)	360 (14.17)	414 (16.30)	472 (18.58)	524 (20.63)	362.0 (14.25)	431.8 (17.00)	476.3 (18.75)	539.8 (21.25)	387.4 (15.25)	450.9 (17.75)	350 (13.78)	400 (15.75)	460 (18.11)	515 (20.28)	355 (13.98)	410 (16.14)
Integral flowmeter	Bolt hole interval	θ°	15	11.25	11.25	11.25	15	11.25	22.5	18	18	15	15	15	15	11.25	11.25	11.25	15	15	11.25	11.25	15	15
	Hole dia.	øh	25 (0.98)	25 (0.98)	25 (0.98)	27 (1.06)	27 (1.06)	27 (1.06)	23 (0.91)	23 (0.91)	25 (0.98)	25 (0.98)	25.4 (1.00)	25.4 (1.00)	28.4 (1.12)	28.4 (1.12)	28.4 (1.12)	31.8 (1.25)	22 (0.87)	22 (0.87)	22 (0.87)	26 (1.02)	26 (1.02)	26 (1.02)
	Number of holes	N	12	16	16	16	12	16	8	10	10	12	12	12	12	16	16	16	12	12	16	16	12	12
	Height	H1	400 (15.75)	447 (17.60)	491 (19.33)	553 (21.77)	415 (16.34)	464 (18.27)	405 (15.94)	456 (17.95)	511 (20.12)	564 (22.20)	403 (15.87)	466 (18.35)	512 (20.16)	572 (22.52)	422 (16.61)	485 (19.09)	397 (15.63)	447 (17.60)	498 (19.61)	556 (21.89)	402 (15.83)	454 (17.87)
	Height	H2	197 (7.76)	221 (8.70)	243 (9.57)	270 (10.63)	197 (7.76)	221 (8.70)	197 (7.76)	221 (8.70)	243 (9.57)	270 (10.63)	197 (7.76)	221 (8.70)	243 (9.57)	270 (10.63)	197 (7.76)	221 (8.70)	197 (7.76)	221 (8.70)	243 (9.57)	270 (10.63)	197 (7.76)	221 (8.70)
	Height	H3	454 (17.87)	499 (19.65)	553 (21.77)	623 (24.53)	484 (19.06)	534 (21.02)	464 (18.27)	518 (20.39)	593 (23.35)	645 (25.39)	460 (18.11)	537 (21.14)	596 (23.46)	660 (25.98)	499 (19.65)	575 (22.64)	449 (17.68)	499 (19.65)	568 (22.36)	628 (24.72)	459 (18.07)	514 (20.24)
Remote flowtube	Max. Height	Hr	524 (20.63)	571 (22.48)	615 (24.21)	677 (26.65)	539 (21.22)	588 (23.15)	529 (20.83)	580 (22.83)	635 (25.00)	688 (27.09)	527 (20.75)	590 (23.23)	636 (25.04)	696 (27.40)	546 (21.50)	609 (23.98)	521 (20.51)	571 (22.48)	622 (24.49)	680 (26.77)	526 (20.71)	578 (22.76)
	Weight kg (lb)*3		70.0 (154.3)	78.0 (172.0)	107.0 (235.9)	135.0 (297.6)	98.5 (217.2)	114.5 (252.4)	73.4 (161.7)	85.0 (187.4)	121.2 (267.2)	137.0 (301.9)	83.4 (183.8)	104.8 (231.0)	151.8 (334.7)	185.3 (408.5)	133.0 (293.1)	176.7 (389.5)	73.0 (161.0)	79.4 (174.9)	112.5 (248.0)	129.7 (285.9)	74.8 (164.9)	87.9 (193.8)
Integral flowmeter	Max. Height	Hi	562 (22.13)	609 (23.98)	653 (25.71)	715 (28.15)	577 (22.72)	626 (24.65)	567 (22.32)	618 (24.33)	673 (26.50)	726 (28.58)	565 (22.24)	628 (24.72)	674 (26.54)	734 (28.90)	584 (22.99)	647 (25.47)	559 (22.01)	609 (23.98)	660 (25.98)	718 (28.27)	564 (22.20)	616 (24.25)
	Weight kg (lb)		71.7 (158.1)	79.7 (175.7)	108.7 (239.6)	136.7 (301.4)	100.2 (220.9)	116.2 (256.2)	75.1 (165.5)	86.7 (191.2)	122.9 (270.9)	138.7 (305.7)	85.1 (187.6)	106.5 (234.8)	153.5 (338.4)	187.0 (412.3)	134.7 (296.9)	178.4 (393.3)	74.7 (164.7)	81.1 (178.7)	114.2 (251.7)	131.4 (289.6)	76.5 (168.7)	89.6 (197.6)

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

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

Nominal Size: 250 mm to 300 mm				
	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: When submersible type or option code DHC is selected, waterproof glands and a 30m long cable are attached.
Add 9.5kg(20.9lb) to the weight in the table.

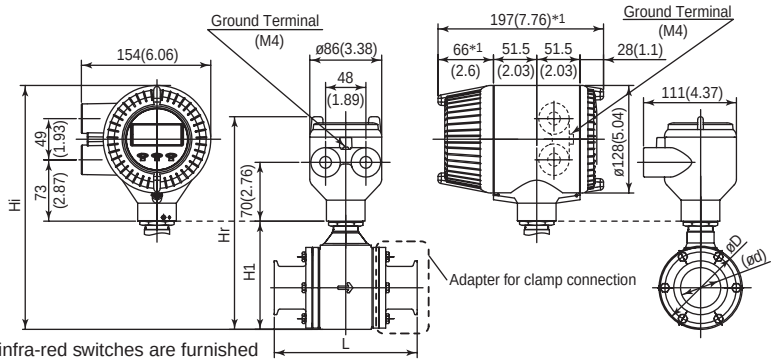
F33.EPS

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

Unit : mm (approx. inch)

Integral Flowmeter **Remote Flowtube** **Integral Flowmeter** **Remote Flowtube**

AXF015																	
AXF025		*3															
AXF032		**D**															
AXF040		**E**	**1**							**H**	**A**	**B**					
AXF050	**H**	**F**	**2**	**A**	**L**	**1**	**N**	—	**H**	**D**	**B**	**1**					
AXF065		**N**	**N**							**H**	**K**	**B**					
AXF080		**P**															
AXF100																	
AXF125		*3: D, E, F; Integral Flowmeter, N, P; Remote Flowtube															

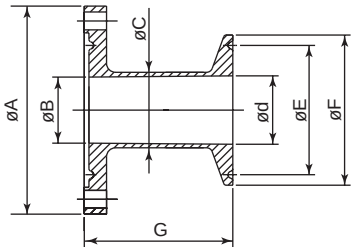


* No infra-red switches are furnished for Fieldbus communication type.

Model	Process Connection			HAB / HDB / HKB								
	Size code			015	025	032	040	050	065	080	100	125
	Size			15 (0.5)	25 (1)	32 (1.3)	40 (1.5)	50 (2)	65 (2.6)	80 (3)	100 (4)	125 (5)
	Lining code			A	A	A	A	A	A	A	A	A
Remote Flowtube Integral Flowmeter	Face-to-face length	L		166 (6.55)	166 (6.55)	166 (6.55)	166 (6.55)	176 (6.94)	196 (7.73)	216 (8.52)	246 (9.70)	316 (12.46)
	Outside dia.	ØD		73 (2.87)	73 (2.87)	73 (2.87)	86 (3.39)	99 (3.90)	117 (4.61)	129 (5.08)	155 (6.10)	183 (7.20)
	Inner dia.	ød	HAB	15.7 (0.62)	22.1 (0.87)	–	34.8 (1.37)	47.5 (1.87)	60.2 (2.37)	72.9 (2.87)	97.4 (3.83)	–
			HDB	16 (0.63)	26 (1.02)	32 (1.26)	38 (1.50)	50 (1.97)	66 (2.60)	81 (3.19)	100 (3.94)	125 (4.92)
			HKB	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)	97.6 (3.84)	135.7 (5.34)
	Height	H1		98 (3.86)	98 (3.86)	98 (3.86)	111 (4.37)	129 (5.08)	147 (5.79)	157 (6.18)	183 (7.20)	212 (8.35)
Remote Flowtube	Max. Height	Hr		222 (8.74)	222 (8.74)	222 (8.74)	235 (9.25)	253 (9.96)	271 (10.67)	281 (11.06)	307 (12.09)	336 (13.23)
	Weight kg (lb)*2			2.7 (6.0)	2.5 (5.5)	2.6 (5.7)	2.9 (6.4)	3.6 (7.9)	4.8 (10.6)	5.7 (12.6)	8.1 (17.9)	12.1 (26.7)
Integral Flowmeter	Max. Height	Hi		260 (10.22)	260 (10.22)	260 (10.22)	273 (10.73)	291 (11.44)	309 (12.15)	319 (12.54)	345 (13.56)	374 (14.70)
	Weight kg (lb)			4.4 (9.7)	4.2 (9.3)	4.3 (9.5)	4.6 (10.1)	5.3 (11.7)	6.5 (14.3)	7.4 (16.3)	9.8 (21.6)	13.8 (30.4)

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

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



Adapter for clamp connection

Process Connection	HAB (Tri–Clamp)							HDB (DIN 32676 Clamp)									HKB (ISO2852 Clamp)								
Nominal Size	15	25	40	50	65	80	100	15	25	32	40	50	65	80	100	125	15	25	32	40	50	65	80	100	125
øA	70 (2.76)	70 (2.76)	83 (3.27)	96 (3.78)	114 (4.49)	126 (4.96)	152 (5.98)	70 (2.76)	70 (2.76)	70 (2.76)	83 (3.27)	96 (3.78)	114 (4.49)	126 (4.96)	152 (5.98)	180 (7.09)	70 (2.76)	70 (2.76)	70 (2.76)	83 (3.27)	96 (3.78)	114 (4.49)	126 (4.96)	152 (5.98)	180 (7.09)
øB	16 (0.63)	22.2 (0.87)	34.6 (1.36)	47.6 (1.87)	59.5 (2.34)	72.3 (2.85)	97 (3.82)	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)	123 (4.84)	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)	123 (4.84)
øC	19.2 (0.76)	25.4 (1.00)	38.1 (1.50)	50.8 (2.00)	63.5 (2.50)	76.2 (3.00)	101.6 (4.00)	20 (0.79)	30 (1.18)	36 (1.42)	42 (1.65)	54 (2.13)	70 (2.76)	85 (3.35)	104 (4.09)	129 (5.08)	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)	102.5 (4.04)	141.2 (5.56)
ød	15.7 (0.62)	22.1 (0.87)	34.8 (1.37)	47.5 (1.87)	60.2 (2.37)	72.9 (2.87)	97.4 (3.83)	16 (0.63)	26 (1.02)	32 (1.26)	38 (1.50)	50 (1.97)	66 (2.60)	81 (3.19)	100 (3.94)	125 (4.92)	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)	97.6 (3.84)	135.7 (5.34)
øE	—	43.6 (1.72)	43.6 (1.72)	56.3 (2.22)	70.6 (2.78)	83.3 (3.28)	110.3 (4.34)	27.5 (1.08)	43.5 (1.71)	43.5 (1.71)	43.5 (1.71)	56.5 (2.22)	83.5 (3.29)	97 (3.82)	110 (4.33)	146 (5.75)	27.5 (1.08)	43.5 (1.71)	43.5 (1.71)	43.5 (1.71)	56.5 (2.22)	70.5 (2.78)	83.5 (3.29)	110 (4.33)	146 (5.75)
øF	25 (0.98)	50.4 (1.98)	50.4 (1.98)	64 (2.52)	77.4 (3.05)	91 (3.58)	118.9 (4.68)	34 (1.34)	50.5 (1.99)	50.5 (1.99)	50.5 (1.99)	64 (2.52)	91 (3.58)	106 (4.17)	119 (4.69)	155 (6.10)	34 (1.34)	50.5 (1.99)	50.5 (1.99)	50.5 (1.99)	64 (2.52)	77.5 (3.05)	91 (3.58)	119 (4.69)	155 (6.10)
G	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	60 (2.36)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	60 (2.36)
Parts No.	F9811 HU	F9811 HV	F9811 HX	F9811 HY	F9811 HZ	F9811 JA	F9811 JB	F9811 JD	F9811 JE	F9811 JF	F9811 JG	F9811 JH	F9811 JJ	F9811 JK	F9811 JL	F9811 JM	F9811 JN	F9811 JP	F9811 JQ	F9811 JR	F9811 JS	F9811 JT	F9811 JU	F9811 JV	F9811 JW

F34.EPS

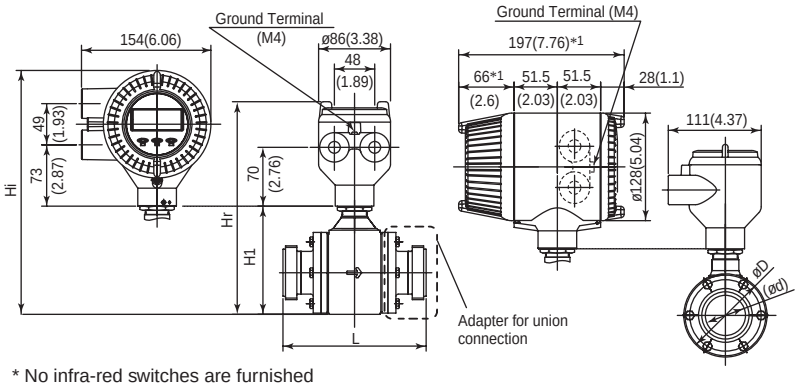
● AXF Standard, AXF015-AXF125, Sanitary for Union Connection, PFA Lining

Unit : mm (approx. inch)

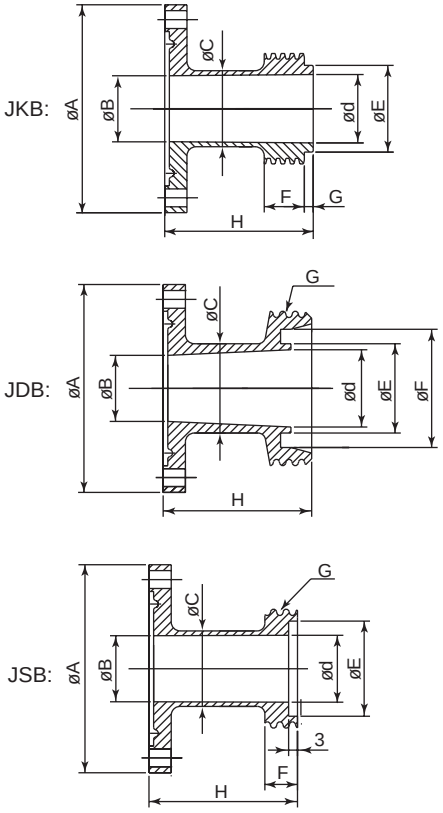
Integral Flowmeter **Remote Flowtube** **Integral Flowmeter** **Remote Flowtube**

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

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



* No infra-red switches are furnished for Fieldbus communication type.



Adapters for union connection

Model				JKB / JDB / JSB								
	Size code			015	025	032	040	050	065	080	100	125
	Size			15 (0.5)	25 (1)	32 (1.3)	40 (1.5)	50 (2)	65 (2.6)	80 (3)	100 (4)	125 (5)
	Lining code			A	A	A	A	A	A	A	A	A
Remote Flowtube Integral Flowmeter	Face-to-face length	L	JKB	166 (6.55)	166 (6.55)	166 (6.55)	166 (6.55)	176 (6.94)	196 (7.73)	216 (8.52)	246 (9.70)	–
			JDB	166 (6.55)	166 (6.55)	166 (6.55)	166 (6.55)	176 (6.94)	196 (7.73)	236 (9.31)	266 (10.49)	326 (12.85)
			JSB	–	166 (6.55)	166 (6.55)	166 (6.55)	176 (6.94)	196 (7.73)	216 (8.52)	276 (10.88)	–
Remote Flowtube	Outside dia.	ØD		73 (2.87)	73 (2.87)	73 (2.87)	86 (3.39)	99 (3.90)	117 (4.61)	129 (5.08)	155 (6.10)	183 (7.20)
Integral Flowmeter	Inside dia.	ød	JKB	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)	97.6 (3.84)	–
			JDB	16 (0.63)	26 (1.02)	32 (1.26)	38 (1.50)	50 (1.97)	66 (2.60)	81 (3.19)	100 (3.94)	125 (4.92)
			JSB	–	22.5 (0.89)	29.6 (1.17)	35.5 (1.40)	48.5 (1.91)	60.5 (2.38)	72.9 (2.87)	97.6 (3.84)	–
	Height	H1		98 (3.86)	98 (3.86)	98 (3.86)	111 (4.37)	129 (5.08)	147 (5.79)	157 (6.18)	183 (7.20)	212 (8.35)
Remote Flowtube	Max. Height	Hr		222 (8.74)	222 (8.74)	222 (8.74)	235 (9.25)	253 (9.96)	271 (10.67)	281 (11.06)	307 (12.09)	336 (13.23)
	Weight kg (lb)*2			2.6 (5.7)	2.6 (5.7)	2.7 (6.0)	3 (6.6)	3.8 (8.4)	4.9 (10.8)	5.9 (13.0)	8.2 (18.1)	13 (28.7)
Integral Flowmeter	Max. Height	Hi		260 (10.24)	260 (10.24)	260 (10.24)	273 (10.73)	291 (11.44)	309 (12.17)	319 (12.54)	345 (13.56)	374 (14.70)
	Weight kg (lb)			4.3 (9.5)	4.3 (9.5)	4.4 (9.7)	4.7 (10.4)	5.5 (12.1)	6.6 (14.6)	7.6 (16.8)	9.9 (21.8)	14.7 (32.4)

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

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

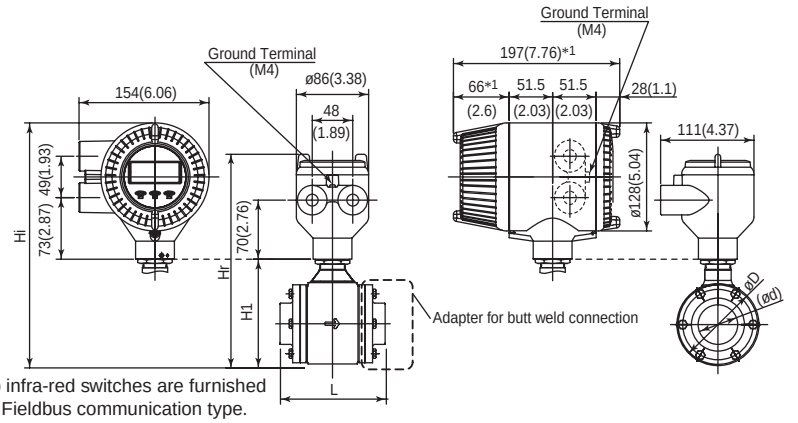
Process Connection	JKB (ISO2853 Union)								JDB (DIN 11851 Union)									JSB (SMS1145 Union)						
Nominal Size	15	25	32	40	50	65	80	100	15	25	32	40	50	65	80	100	125	25	32	40	50	65	80	100
øA	70 (2.76)	70 (2.76)	70 (2.76)	83 (3.27)	96 (3.78)	114 (4.49)	126 (4.96)	152 (5.98)	70 (2.76)	70 (2.76)	70 (2.76)	83 (3.27)	96 (3.78)	114 (4.49)	126 (4.96)	152 (5.98)	180 (7.09)	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)	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)	123 (4.84)	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)	102.5 (4.04)	20 (0.79)	30 (1.18)	36 (1.42)	42 (1.65)	54 (2.13)	70 (2.76)	85 (3.35)	104 (4.09)	129 (5.08)	25.4 (1.00)	32 (1.26)	38.1 (1.50)	51 (2.01)	63.5 (2.50)	76.2 (3.00)	102.5 (4.04)
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)	97.6 (3.84)	16 (0.63)	26 (1.02)	32 (1.26)	38 (1.50)	50 (1.97)	66 (2.60)	81 (3.19)	100 (3.94)	125 (4.92)	22.5 (0.89)	29.6 (1.17)	35.5 (1.40)	48.5 (1.91)	60.5 (2.38)	72.9 (2.87)	97.6 (3.84)
øE	21.2 (0.83)	29.2 (1.15)	38.2 (1.50)	42.7 (1.68)	56.2 (2.21)	69.9 (2.75)	82.6 (3.25)	108.7 (4.28)	18 (0.71)	30 (1.18)	36 (1.42)	42 (1.65)	54 (2.13)	71 (2.80)	85 (3.35)	104 (4.09)	130 (5.12)	32 (1.26)	40 (1.57)	48 (1.89)	61 (2.40)	73.5 (2.89)	86 (3.39)	120 (4.72)
øF	13.5 (0.53)	13.5 (0.53)	13.5 (0.53)	13.5 (0.53)	13.5 (0.53)	13.5 (0.53)	13.5 (0.53)	13.5 (0.53)	25.8 (1.02)	39.8 (1.57)	45.8 (1.80)	51.8 (2.04)	63.8 (2.51)	80.8 (3.18)	94.8 (3.73)	113.8 (4.48)	141.8 (5.58)	11 (0.43)	13 (0.51)	15 (0.59)	15 (0.59)	19 (0.75)	19 (0.75)	30 (1.18)
G	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	RD34 ×1/8″	RD52 ×1/6″	RD58 ×1/6″	RD65 ×1/6″	RD78 ×1/6″	RD95 ×1/6″	RD110 ×1/4″	RD130 ×1/4″	RD160 ×1/4″	RD40 ×1/6″	RD48 ×1/6″	RD60 ×1/6″	RD70 ×1/6″	RD85 ×1/6″	RD98 ×1/6″	RD132 ×1/6″
H	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	60 (2.36)	60 (2.36)	65 (2.56)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	65 (2.56)
Parts No.	F9811 LA	F9811 LB	F9811 LC	F9811 LD	F9811 LE	F9811 LF	F9811 LG	F9811 LH	F9811 KR	F9811 KS	F9811 KT	F9811 KU	F9811 KV	F9811 KW	F9811 KX	F9811 KY	F9811 KZ	F9811 LK	F9811 LL	F9811 LM	F9811 LN	F9811 LP	F9811 LQ	F9811 LR

F35.EPS

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

Unit : mm (approx. inch)

Integral Flowmeter **Remote Flowtube** **Integral Flowmeter** **Remote Flowtube**



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

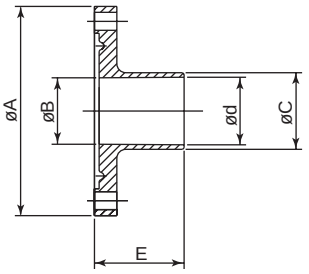
*3
D
E
F
N
P

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

* No infra-red switches are furnished for Fieldbus communication type.

Model	Process Connection			KKB / KDB								
	Size code			015	025	032	040	050	065	080	100	125
	Size			15 (0.5)	25 (1)	32 (1.3)	40 (1.5)	50 (2)	65 (2.6)	80 (3)	100 (4)	125 (5)
	Lining code			A	A	A	A	A	A	A	A	A
Remote Flowtube Integral Flowmeter	Face-to-face length	L		126 (4.98)	126 (4.98)	126 (4.98)	126 (4.98)	136 (5.37)	156 (6.16)	176 (6.94)	206 (8.13)	276 (10.88)
	Outside dia.	øD		73 (2.87)	73 (2.87)	73 (2.87)	86 (3.39)	99 (3.90)	117 (4.61)	129 (5.08)	155 (6.10)	183 (7.20)
	Inner dia.	ød	KKB	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)	97.6 (3.84)	135.7 (5.34)
			KDB	16 (0.63)	26 (1.02)	32 (1.26)	38 (1.50)	50 (1.97)	66 (2.60)	81 (3.19)	100 (3.94)	125 (4.92)
	Height	H1		98 (3.86)	98 (3.86)	98 (3.86)	111 (4.37)	129 (5.08)	147 (5.79)	157 (6.18)	183 (7.20)	212 (8.35)
Remote Flowtube	Max. Height	Hr		222 (8.74)	222 (8.74)	222 (8.74)	235 (9.25)	253 (9.96)	271 (10.67)	281 (11.06)	307 (12.09)	336 (13.23)
	Weight kg (lb)*2			2.6 (5.7)	2.3 (5.1)	2.5 (5.5)	2.8 (6.2)	3.4 (7.5)	4.5 (9.9)	5.3 (11.7)	7.1 (15.7)	11 (24.3)
Integral Flowmeter	Max. Height	Hi		260 (10.24)	260 (10.24)	260 (10.24)	273 (10.73)	291 (11.44)	309 (12.17)	319 (12.54)	345 (13.56)	374 (14.70)
	Weight kg (lb)			4.3 (9.5)	4 (8.8)	4.2 (9.3)	4.5 (9.9)	5.1 (11.2)	6.2 (13.7)	7 (15.4)	8.8 (19.4)	12.7 (28.0)

*1: When indicator code N is selected, subtract 12 mm (0.47 inch) from the value in the figure.
*2: When option code DHC is selected, waterproof glands and a 30m long cable are attached. Add 9.5kg (20.9lb) to the weight in the table.



Adapter for butt weld connection

Process Connection	KKB (ISO2037 Butt Weld)									KDB (DIN 1185 Butt Weld)								
Nominal Size	15	25	32	40	50	65	80	100	125	15	25	32	40	50	65	80	100	125
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)	180 (7.09)	70 (2.76)	70 (2.76)	70 (2.76)	83 (3.27)	96 (3.78)	114 (4.49)	126 (4.96)	152 (5.98)	180 (7.09)
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)	123 (4.84)	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)	123 (4.84)
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)	102.5 (4.04)	141.2 (5.56)	20 (0.79)	30 (1.18)	36 (1.42)	42 (1.65)	54 (2.13)	70 (2.76)	85 (3.35)	104 (4.09)	129 (5.08)
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)	97.6 (3.84)	135.7 (5.34)	16 (0.63)	26 (1.02)	32 (1.26)	38 (1.50)	50 (1.97)	66 (2.60)	81 (3.19)	100 (3.94)	125 (4.92)
E	30 (1.18)	30 (1.18)	30 (1.18)	30 (1.18)	30 (1.18)	30 (1.18)	30 (1.18)	30 (1.18)	40 (1.57)	30 (1.18)	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	F9811 NW	F9811 ND	F9811 NE	F9811 NF	F9811 NG	F9811 NH	F9811 NJ	F9811 NK	F9811 NL	F9811 NM

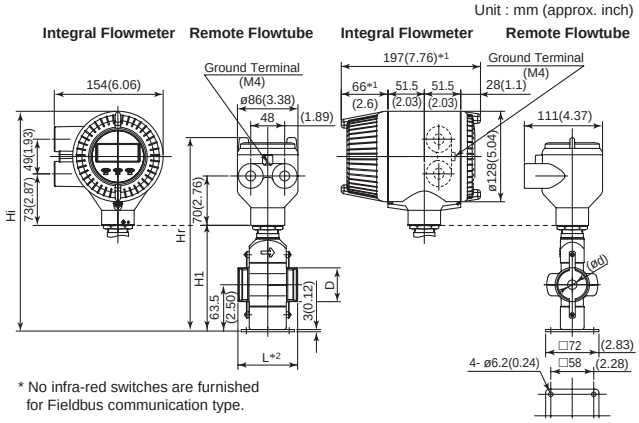
F36.EPS

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

Unit : mm (approx. inch)

AXF002 AXF005 AXF010 AXF015 **G W C** — *4 **D E F N P** **1 2 N** **A □ 1 □ — A □ □ 2**

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



* No infra-red switches are furnished for Fieldbus communication type.

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 / Integral Flowmeter	Face-to-face length	L*2	85(3.35)			
Remote Flowtube / Integral Flowmeter	Outside dia.	D	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	265(10.43)			
Remote Flowtube	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	+22(0.87)	-6(0.24)
	GA, GC, GD (Special Gaskets)	+2(0.08)	+24(0.94)	–

*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.

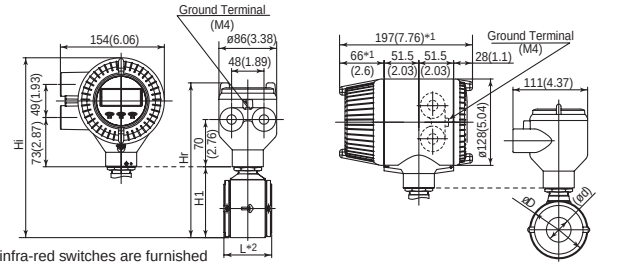
F37.EPS

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

Unit : mm (approx. inch)

AXF025 AXF040 AXF050 AXF080 AXF100 **G W C** — *4 **D E F N P** **1 2 N** **A U** **□ 1 □ — A □ □ 2**

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



* No infra-red switches are furnished for Fieldbus communication type.

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 / Integral Flowmeter	Face-to-face length	L*2	93(3.66)	106(4.17)	120(4.72)	160(6.30)	180(7.09)
Remote Flowtube	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)
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)
Remote Flowtube	Weight kg (lb)*3		3.1(6.7)	3.5(7.7)	4.2(9.3)	6.4(14.1)	8.0(17.6)
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)		4.8(10.5)	5.2(11.4)	5.9(13.1)	8.1(17.9)	9.7(21.3)

*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

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: 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.

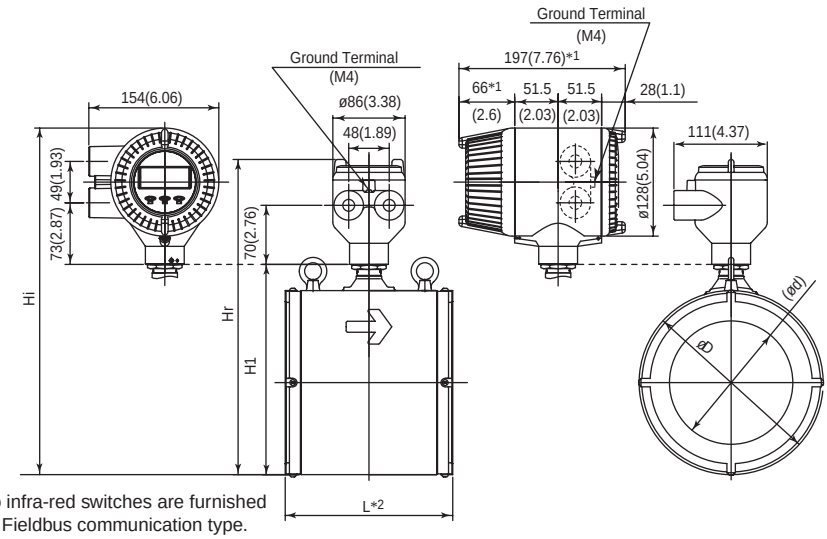
F38.EPS

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

Unit : mm (approx. inch)

AXF150 AXF200 **G W C** — *4 **D E F N P** **1 2 N** **A U** ☐ **1** ☐ — **A** ☐ ☐ **2**

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



* No infra-red switches are furnished for Fieldbus communication type.

Model	Size code		150	200
	Size		150(6)	200(8)
	Lining code		A,U	A,U
Remote flowtube / Integral flowmeter	Face-to-face length	L*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)
	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.
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	+28(1.1)	-6(0.24)
	GA, GC, GD (Special Gaskets)	+2(0.08)	+30(1.18)	–

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

F39.EPS

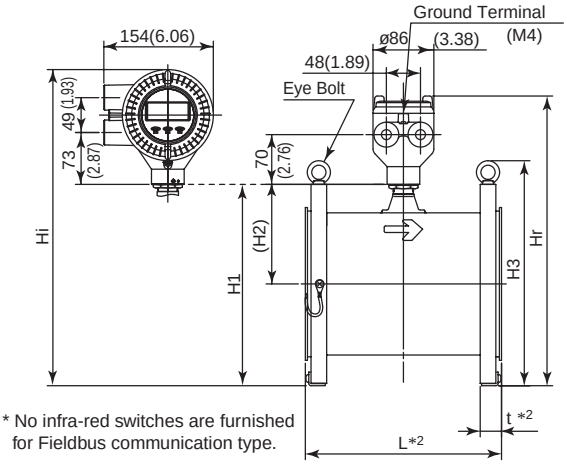
● Replacement model for Earlier ADMAG or ADMAG AE, AXF150-AXF250, JIS/ANSI/DIN Flange Type, PFA /Polyurethane Rubber Lining

	*4														
AXF150 G	D							C	A	□					
AXF200 W —	E	1	A	□	1	□	—	C	D	□	2				
AXF250 C	F	2	U		2			C	J	□					
	N	N						C	G	1					
	P														

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

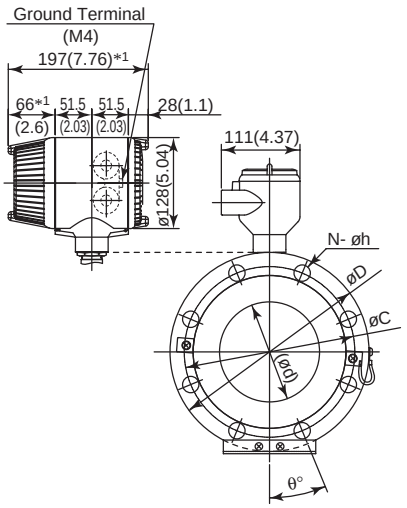
Unit : mm (approx. inch)

Integral Flowmeter **Remote Flowtube**



* No infra-red switches are furnished for Fieldbus communication type.

Integral Flowmeter **Remote Flowtube**



Model	Process Connection		CJ1(JIS10K)			CJ2(JIS20K)			CG1(JIS F12)			CA1(ANSI Class 150)			CA2(ANSI Class 300)			CD1(DIN PN10)		CD2(DIN PN16)		
	Size code		150	200	250	150	200	250	150	200	250	150	200	250	150	200	250	200	250	150	200	250
	Size		150 (6)	200 (8)	250 (10)	150 (6)	200 (8)	250 (10)	150 (6)	200 (8)	250 (10)	150 (6)	200 (8)	250 (10)	150 (6)	200 (8)	250 (10)	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	A,U	A,U	A,U	A,U	A,U	A,U	A,U	A,U	A,U	A,U	A,U	A,U	A,U
Remote flowtube Integral flowmeter	Face-to-face length	L*2	270 (10.63)	340 (13.39)	430 (16.93)	270 (10.63)	340 (13.39)	430 (16.93)	270 (10.63)	340 (13.39)	430 (16.93)	270 (10.63)	340 (13.39)	430 (16.93)	270 (10.63)	340 (13.39)	430 (16.93)	340 (13.39)	430 (16.93)	270 (10.63)	340 (13.39)	430 (16.93)
	Outside dia.	øD	280 (11.02)	330 (12.99)	400 (15.75)	305 (12.01)	350 (13.78)	430 (16.93)	290 (11.42)	342 (13.46)	410 (16.14)	279.4 (11.00)	342.9 (13.50)	406.4 (16.00)	317.5 (12.50)	381.0 (15.00)	444.5 (17.50)	340 (13.39)	395 (15.55)	285 (11.22)	340 (13.39)	405 (15.94)
	Thickness	t *2	31 (1.22)	31 (1.22)	33 (1.30)	37 (1.46)	39 (1.54)	43 (1.69)	31 (1.22)	33 (1.30)	33 (1.30)	34.4 (1.35)	37.4 (1.47)	39.2 (1.54)	47.5 (1.87)	50.1 (1.97)	56.7 (2.23)	33 (1.30)	35 (1.38)	31 (1.22)	33 (1.30)	35 (1.38)
	Inner diameter of Grounding ring	ød	140.7 (5.54)	188.9 (7.44)	243 (9.57)	140.7 (5.54)	188.9 (7.44)	243 (9.57)	145.4 (5.72)	192.9 (7.59)	243 (9.57)	140.7 (5.54)	188.9 (7.44)	243 (9.57)	140.7 (5.54)	188.9 (7.44)	243 (9.57)	188.9 (7.44)	243 (9.57)	140.7 (5.54)	188.9 (7.44)	243 (9.57)
	Pitch circle dia.	øC	240 (9.45)	290 (11.42)	355 (13.98)	260 (10.24)	305 (12.01)	380 (14.96)	247 (9.72)	299 (11.77)	360 (14.17)	241.3 (9.50)	298.5 (11.75)	362.0 (14.25)	269.7 (10.62)	330.2 (13.00)	387.4 (15.25)	295 (11.61)	350 (13.78)	240 (9.45)	295 (11.61)	355 (13.98)
	Bolt hole interval	θ°	22.5	15	15	15	15	15	30	22.5	22.5	22.5	22.5	15	15	15	11.25	22.5	15	22.5	15	15
	Hole dia.	øh	23 (0.91)	23 (0.91)	25 (0.98)	25 (0.98)	25 (0.98)	27 (1.06)	19 (0.75)	19 (0.75)	23 (0.91)	22.4 (0.88)	22.4 (0.88)	25.4 (1.00)	22.4 (0.88)	25.4 (1.00)	28.4 (1.12)	22 (0.87)	22 (0.87)	22 (0.87)	22 (0.87)	26 (1.02)
	Number of holes	N	8	12	12	12	12	12	6	8	8	8	8	12	12	12	16	8	12	8	12	12
	Height	H1	284 (11.18)	334 (13.15)	400 (15.75)	297 (11.69)	344 (13.54)	415 (16.34)	289 (11.38)	340 (13.39)	405 (15.94)	284 (11.18)	340 (13.39)	403 (15.87)	303 (11.93)	360 (14.17)	422 (16.61)	339 (13.35)	397 (15.63)	287 (11.30)	339 (13.35)	402 (15.83)
	Height	H2	141 (5.55)	166 (6.54)	197 (7.76)	141 (5.55)	166 (6.54)	197 (7.76)	141 (5.55)	166 (6.54)	197 (7.76)	141 (5.55)	166 (6.54)	197 (7.76)	141 (5.55)	166 (6.54)	197 (7.76)	166 (6.54)	197 (7.76)	141 (5.55)	166 (6.54)	197 (7.76)
	Height	H3	325 (12.80)	375 (14.76)	454 (17.87)	350 (13.78)	395 (15.55)	484 (19.06)	335 (13.19)	387 (15.24)	464 (18.27)	324 (12.76)	387 (15.24)	460 (18.11)	362 (14.25)	426 (16.77)	499 (19.65)	385 (15.16)	449 (17.68)	330 (12.99)	385 (15.16)	459 (18.07)
Remote flowtube	Max. Height	Hr	408 (16.06)	458 (18.03)	524 (20.63)	421 (16.57)	468 (18.43)	539 (21.22)	413 (16.26)	464 (18.27)	529 (20.83)	408 (16.06)	464 (18.27)	527 (20.75)	427 (16.81)	484 (19.06)	546 (21.50)	463 (18.23)	521 (20.51)	411 (16.18)	463 (18.23)	526 (20.71)
	Weight kg (lb)*3		29 (63.9)	39 (86.0)	64 (141.1)	38.3 (84.4)	53.6 (118.2)	92.5 (203.9)	31.1 (68.6)	44.6 (98.3)	67.4 (148.6)	32.1 (70.7)	50.9 (112.2)	77.4 (170.6)	53.7 (118.4)	80.5 (177.5)	127.0 (279.9)	44.2 (97.5)	67.0 (147.7)	29.9 (65.8)	43.6 (96.2)	68.8 (151.7)
Integral flowmeter	Max. Height	Hi	446 (17.56)	496 (19.53)	562 (22.13)	459 (18.07)	506 (19.92)	577 (22.72)	451 (17.76)	502 (19.76)	567 (22.32)	446 (17.56)	502 (19.76)	565 (22.24)	465 (18.31)	522 (20.55)	584 (22.99)	501 (19.72)	559 (22.01)	449 (17.68)	501 (19.72)	564 (22.20)
	Weight kg (lb)		30.7 (67.7)	40.7 (89.7)	65.7 (144.8)	40.0 (88.2)	55.3 (121.9)	94.2 (207.7)	32.8 (72.3)	46.3 (102.1)	69.1 (152.3)	33.8 (74.4)	52.6 (115.9)	79.1 (174.4)	55.4 (122.1)	82.2 (181.2)	128.7 (283.6)	45.9 (101.2)	68.7 (151.5)	31.6 (69.6)	45.3 (100.0)	70.5 (155.5)

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

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

Nominal Size: 150, 200 mm								
		L	t	L	t	L	t
Grounding Ring Code		S, L, H, V		P, T		N	
Option Code	None	+0	+0	+28(1.1)	+14(0.55)	-6(0.24)	-3(0.12)
	GA, GC, GD (Special Gaskets)	+2(0.08)	+1(0.04)	+30(1.81)	+15(0.59)	–	–

Nominal Size: 250 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)

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

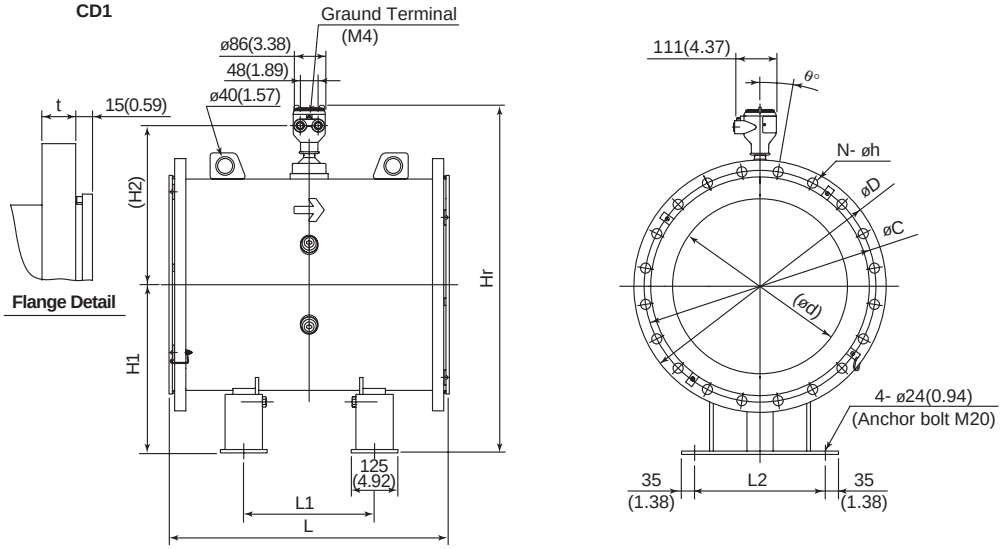
F40.EPS

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

AXF500
AXF600
AXF700 G — **NNUL 1S** — **CJ1**
AXF800 W — **CG1**
AXF900 — **CA1**
AXF10L — **CD1**

1

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	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)	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	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)	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 (27.56)	800 (31.50)	350 (13.78)	400 (15.75)	450 (17.72)	550 (21.65)	700 (27.56)	800 (31.50)	350 (13.78)	400 (15.75)	350 (13.78)	400 (15.75)	450 (17.72)	550 (21.65)	700 (27.56)	800 (31.50)
	Mounting bolt interval	L2	350 (13.78)	400 (15.75)	500 (19.69)	550 (21.65)	650 (25.59)	700 (27.56)	350 (13.78)	400 (15.75)	500 (19.69)	550 (21.65)	650 (25.59)	700 (27.56)	350 (13.78)	400 (15.75)	350 (13.78)	400 (15.75)	500 (19.69)	550 (21.65)	650 (25.59)	700 (27.56)
	Outside dia.	øD	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)	670 (26.38)	780 (30.71)	895 (35.24)	1015 (39.96)	1115 (43.90)	1230 (48.43)
	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 (1.38)	37 (1.46)	39 (1.54)	41 (1.61)	42.9 (1.69)	47.7 (1.88)	28 (1.10)	28 (1.10)	30 (1.18)	32 (1.26)	34 (1.34)	34 (1.34)
	Inner diameter of Grounding ring	ød	468 (18.43)	563 (22.17)	665 (26.18)	765 (30.12)	855 (33.66)	942 (37.09)	485 (19.09)	589 (23.19)	689 (27.13)	788 (31.02)	888 (34.96)	990 (38.98)	468 (18.43)	563 (22.17)	468 (18.43)	563 (22.17)	665 (26.18)	765 (30.12)	855 (33.66)	942 (37.09)
	Pitch circle dia.	øC	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)	620 (24.41)	725 (28.54)	840 (33.07)	950 (37.40)	1050 (41.34)	1160 (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	6.4
	Hole dia.	øh	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 (1.02)	30 (1.18)	30 (1.18)	33 (1.30)	33 (1.30)	36 (1.42)
	Number of holes	N	20	24	24	28	28	28	12	16	16	20	20	24	20	20	20	20	24	24	28	28
	Height	H1	450 (17.72)	500 (19.69)	550 (21.65)	600 (23.62)	650 (25.59)	700 (27.56)	450 (17.72)	500 (19.69)	550 (21.65)	600 (23.62)	650 (25.59)	700 (27.56)	450 (17.72)	500 (19.69)	450 (17.72)	500 (19.69)	550 (21.65)	600 (23.62)	650 (25.59)	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)	426 (16.77)	474 (18.66)	529 (20.83)	584 (22.99)	633 (24.92)	682 (26.85)
	Max. Height	Hr	930 (36.61)	1028 (40.47)	1133 (44.61)	1238 (48.74)	1337 (52.64)	1436 (56.54)	939 (36.97)	1040 (40.94)	1140 (44.88)	1243 (48.94)	1349 (53.11)	1451 (57.13)	930 (36.61)	1028 (40.47)	930 (36.61)	1028 (40.47)	1133 (44.61)	1238 (48.74)	1337 (52.64)	1436 (56.54)
	Weight kg (lb)*1		260 (573.2)	400 (881.8)	510 (1124.4)	680 (1499.1)	870 (1918.0)	1200 (2645.5)	245 (540.1)	300 (661.4)	450 (992.1)	620 (1366.9)	770 (1697.6)	980 (2160.5)	360 (793.7)	450 (992.1)	253 (557.8)	382 (842.2)	490 (1080.3)	659 (1452.8)	844 (1860.7)	1160 (2557.4)

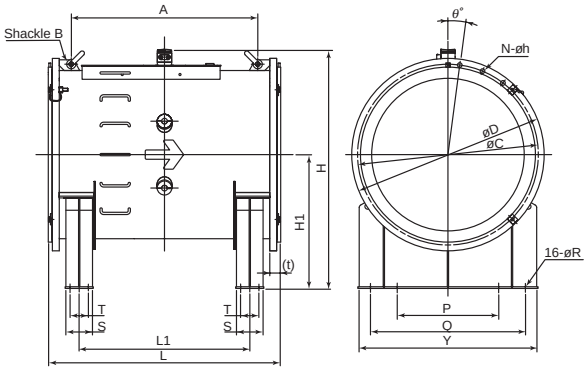
*1: When submersible type or option code DHC is selected, waterproof glands and a 30m long cable are attached.
Add 9.5kg(20.9lb) to the weight in the table.

F48.EPS

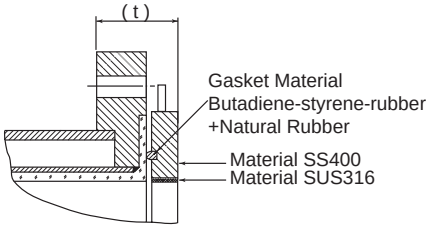
● AXF Standard, AXF11L-AXF13L, JIS Flange Type, Polyurethane Rubber Lining

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

Unit : mm (approx. inch)



Flange Detail



Model	Process Connection			CG1(JIS F12)		
	Size code			11L	12L	13L
	Size			1100 (44)	1200 (48)	1350 (54)
	Lining code			U	U	U
Remote Flowtube	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 (47.68)	1261 (49.65)	1366 (53.78)
	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 (53.15)
			T	130±1 (5.12)	130±1 (5.12)	130±1 (5.12)
		Hole dia.	øR	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)	1552 (61.10)
	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	$950^{\ +10}_{\ 0}$ (37.40)	$1000^{\ +10}_{\ 0}$ (39.37)	$1100^{\ +10}_{\ 0}$ (43.31)
	Max. Height		H	1698 (66.85)	1803 (70.98)	1974 (77.72)
	Weight kg (lb) *2			1650 (3637.6)	1910 (4210.8)	2420 (5335.2)

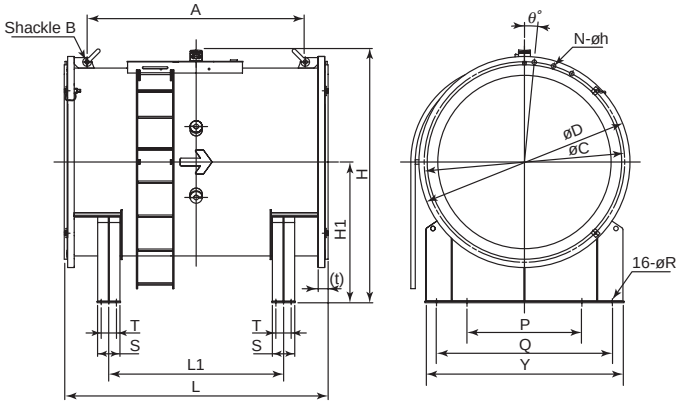
*1: The value before the gasket is tightened.
*2: When submersible type or option code DHC is selected, waterproof glands and a 30m long cable are attached. Add 9.5kg(20.9lb) to the weight in the table.

F45.EPS

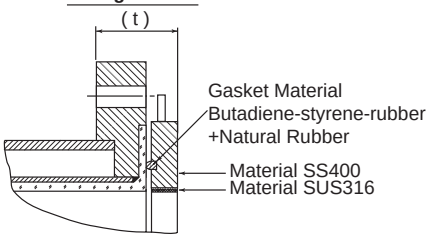
● AXF Standard, AXF15L, JIS Flange Type, Polyurethane Rubber Lining

AXF15L **G / W** — **NNUL 1S** — **CG11**

Unit : mm (approx. inch)



Flange Detail



Model	Process Connection			CG1(JIS F12)
	Size code			15L
	Size			1500 (60)
	Lining code			U
Remote Flowtube	Face-to-face length		L	$2250^{\ 0}_{-10}$ (88.58)
	Shackle	Interval	A	1860 (73.23)
		Size	B	SB30
	Support	Width	S	200 (7.87)
		Length	Y	1700 (66.93)
		Interval	L1	1490 (58.66)
	Mounting Bolt	Interval	P	980 ±2 (38.58)
			Q	1500±3 (59.06)
			T	130±1 (5.12)
		Hole dia.	øR	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	$1200^{\ +16}_{\ 0}$ (47.24)
	Max. Height		H	2155 (84.84)
	Weight kg (lb) *2			3150 (6944.6)

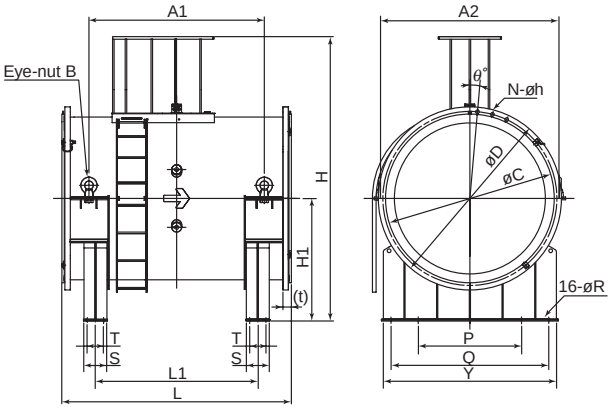
*1: The value before the gasket is tightened.
*2: When submersible type or option code DHC is selected, waterproof glands and a 30m long cable are attached. Add 9.5kg(20.9lb) to the weight in the table.

F46.EPS

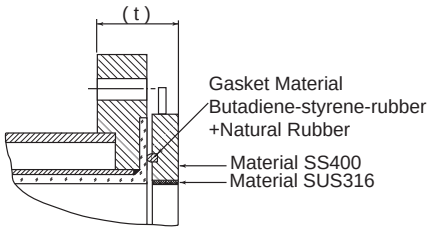
● AXF Standard, AXF16L-AXF26L, JIS Flange Type, Polyurethane Rubber Lining

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

Unit : mm (approx. inch)



Flange Detail



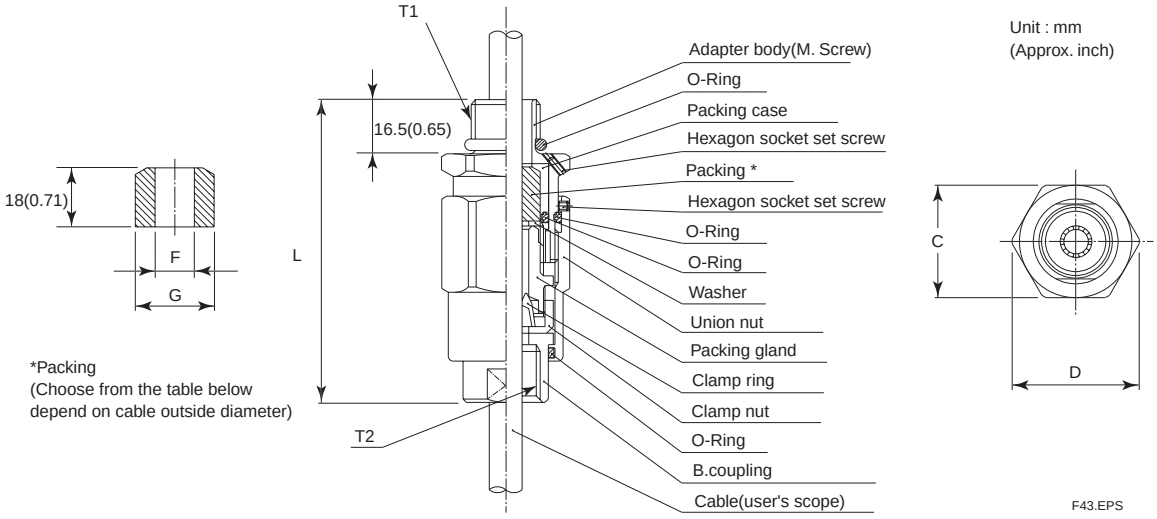
Model	Process Connection		CG1(JIS F12)					
	Size code		16L	18L	20L	22L	24L	26L
	Size		1600 (64)	1800 (72)	2000 (80)	2200 (88)	2400 (96)	2600 (104)
	Lining code		U	U	U	U	U	U
Remote Flowtube	Face-to-face length	L	2400^{0}_{-10} (94.49)	2610^{0}_{-10} (102.76)	2800^{0}_{-10} (110.24)	2970^{0}_{-10} (116.93)	3120^{0}_{-10} (122.83)	3300^{0}_{-10} (129.92)
	Eye-nut Interval 1	A1	1834 (72.20)	2022 (79.61)	2191 (86.26)	2325 (91.54)	2421 (95.31)	2550 (100.39)
	Eye-nut Interval 2	A2	1872 (73.70)	2078 (81.81)	2300 (90.55)	2520 (99.21)	2724 (107.24)	2946 (115.98)
	Eye-nut Size	B	M48	M48	M48	M48	M64	M64
	Support Width	S	250 (9.84)	250 (9.84)	250 (9.84)	300 (11.81)	300 (11.81)	300 (11.81)
	Support Length	Y	1850 (72.83)	2000 (78.74)	2220 (87.40)	2420 (95.28)	2620 (103.15)	2820 (111.02)
	Support Interval	L1	1698 (66.85)	1864 (73.39)	2010 (79.13)	2172 (85.51)	2218 (87.32)	2300 (90.55)
	Mounting Bolt Interval	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)
		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)
	Mounting Bolt Hole dia.	øR	22 (0.87)	22 (0.87)	22 (0.87)	22 (0.87)	22 (0.87)	22 (0.87)
	Outside dia.	øD	1915 (75.39)	2115 (83.27)	2325 (91.54)	2550 (100.39)	2760 (108.66)	2960 (116.54)
	Thickness	t*1	88 (3.46)	90 (3.54)	92 (3.62)	95 (3.74)	97 (3.82)	101 (3.98)
	Pitch circle dia.	øC	1820 (71.65)	2020 (79.53)	2230 (87.80)	2440 (96.06)	2650 (104.33)	2850 (112.20)
	Bolt hole interval	θ°	5	4.1	3.75	3.5	3.2	3.2
	Hole dia.	øh	39 (1.54)	39 (1.54)	46 (1.81)	46 (1.81)	46 (1.81)	52 (2.05)
	Number of holes	N	36 (1.42)	44 (1.73)	48 (1.89)	52 (2.05)	56 (2.20)	56 (2.20)
	Height	H1	1280^{+16}_{0} (50.39)	1350^{+16}_{0} (53.15)	1450^{+16}_{0} (57.09)	1550^{+16}_{0} (61.02)	1700^{+16}_{0} (66.93)	1700^{+16}_{0} (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. 6500 (14330.0)	approx. 8400 (18518.8)	approx. 10000 (22046.2)	approx. 14500 (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

● Flameproof Packing Adapter for TIIS Flameproof Type (Optional code G12 or G11)

Unit : mm
(Approx. inch)



*Packing
(Choose from the table below depend on cable outside diameter)

F43.EPS

Dimension					Cable outer diameter	Packing diameter		Identification mark	Weight kg (lb)
T1	T2	C	D	L		F	G		
G 1/2	G 1/2	35 (1.38)	39 (1.54)	94.5 (3.72)	ϕ8.0 to ϕ10.0 (0.31 to 0.39)	ϕ10.0(0.39)	ϕ20.0 (0.79)	16 8-10	0.26 (0.57)
					ϕ10.0 to ϕ12.0 (0.39 to 0.47)	ϕ12.0(0.47)		16 10-12	

T31.EPS

● **Unless otherwise specified, difference in the dimensions are refer to the following table.**

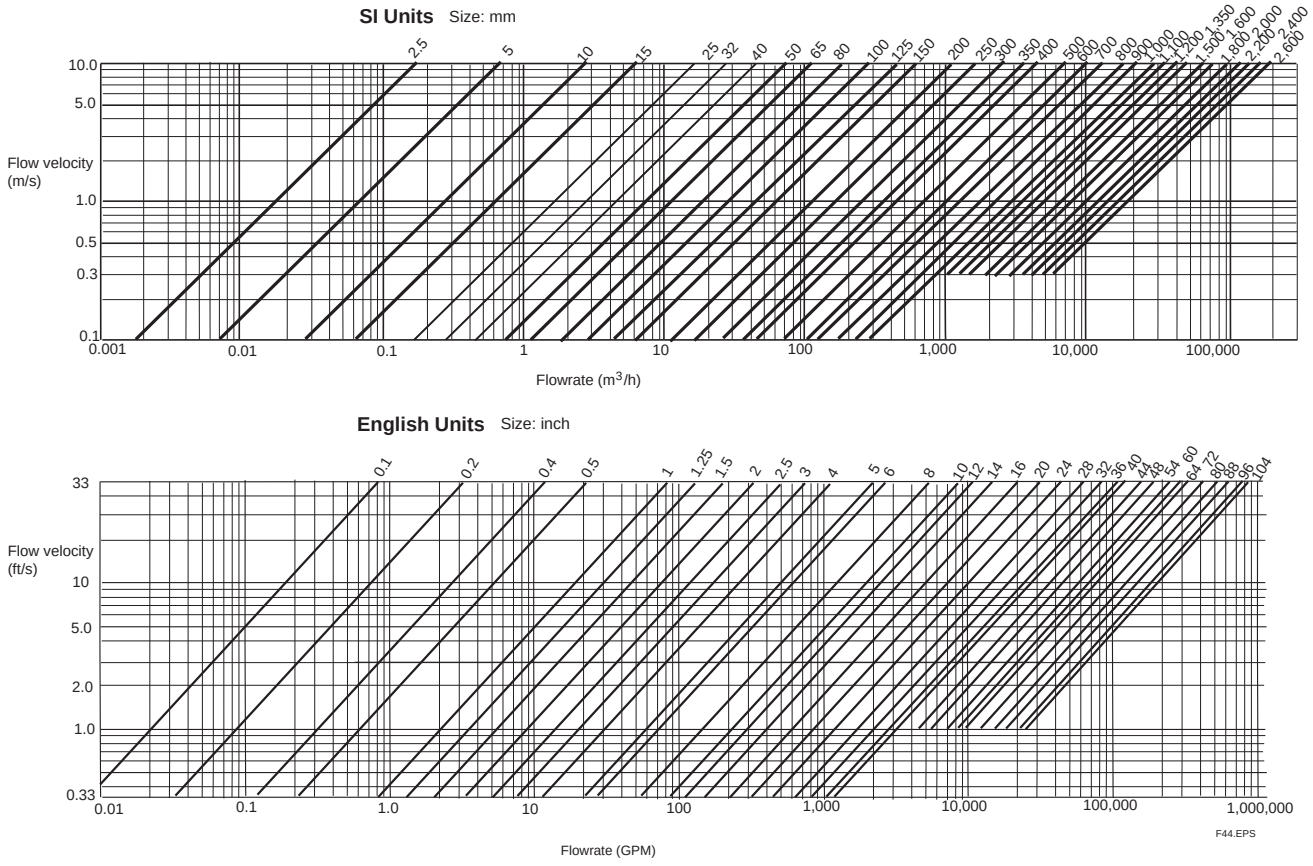
General tolerance in the dimensional outline drawing.

Unit : mm (approx.inch)

Category of basic dimension		Tolerance	Category of basic dimension		Tolerance
Above	Equal or below		Above	Equal or below	
	3 (0.12)	±0.7 (±0.03)	500 (19.69)	630 (24.80)	±5.5 (±2.17)
3 (0.12)	6 (0.24)	±0.9 (±0.04)	630 (24.80)	800 (31.50)	±6.25 (±0.25)
6 (0.24)	10 (0.39)	±1.1 (±0.04)	800 (31.50)	1000 (39.37)	±7.0 (±0.28)
10 (0.39)	18 (0.71)	±1.35 (±0.05)	1000 (39.37)	1250 (49.21)	±8.25 (±0.32)
18 (0.71)	30 (1.18)	±1.65 (±0.06)	1250 (49.21)	1600 (62.99)	±9.75 (±0.38)
30 (1.18)	50 (1.97)	±1.95 (±0.08)	1600 (62.99)	2000 (78.74)	±11.5 (±0.45)
50 (1.97)	80 (3.15)	±2.3 (±0.09)	2000 (78.74)	2500 (98.43)	±14.0 (±0.55)
80 (3.15)	120 (4.72)	±2.7 (±0.11)	2500 (98.43)	3150 (124.02)	±16.5 (±0.65)
120 (4.72)	180 (7.09)	±3.15 (±0.12)			
180 (7.09)	250 (9.84)	±3.6 (±0.14)			
250 (9.84)	315 (12.40)	±4.05 (±0.16)			
315 (12.40)	400 (15.75)	±4.45 (±0.18)			
400 (15.75)	500 (19.69)	±4.85 (±0.19)			

Remarks: The numeric is based on criteria of tolerance class IT18 in JIS B 0401.

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



* Measurable flow velocity is from 0 m/s.

■ RECOMMENDED GASKETS BETWEEN FLOWTUBES AND USER'S FLANGES

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

ORDERING INFORMATION "◇"

Note 1: When ordering a remote flowtube and a remote converter, specify the flow span, unit, pulse weight, and totalizer display pulse weight for the order details of the flowtube.
Then these parameters will then be set in the combined converter before shipment.
Note 2: Some options, if ordered, require the relevant specifications to be input when ordering.

1. Model, specification and option codes.
2. Converter for combined use (when ordering a remote flowtube)

   Model, suffix code, optional code, and tag number (if specified) of a converter for combined use.

   Refer to "ORDERING INFORMATION" of GS 01E20C01-01E, GS 01E20C02-01.
3. Tag number

   Each tag number can be specified in up to 16 characters in a combination of letters (capital or small letters), numbers, "-" and ".".
   For HART protocol, up to 8 characters can be specified.
   If specified, the tag number is inscribed on the product's name plate and tag plate (if optional code SCT is selected). If the product is an integral flowmeter, the tag number is also set into the memory of its converter.
   If the user wishes to change only the tag number to be set into a converter's memory, specify the software tag.
   If a tag number is not specified, the tag number is set as a blank.
4. Flow rate spans and units

   Flow span can be specified the numeric within the value of 0.0001 to 32000.

   And it can be up to five digits, to a maximum of 32000 ignoring the decimal point.

   And a fraction is limited to the fourth decimal place. Integral flowmeter are set to the first range in the forward direction. Remote flowtube are set to the first range in the forward direction of the converter (AXFA11 or AXFA14) with which they are to be combined.

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

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

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

RELATED INSTRUMENTS

Calibrator for Magnetic Flowmeter (AM012):
GS 01E06K02-00E

BT200 Brain Terminal: GS 1C0A11-E

AXFA11G Magnetic Flowmeter Remote Converter:
GS 01E20C01-01E

AXFA14G/C Magnetic Flowmeter Remote Converter:
GS 01E20C02-01E