

●General-purpose, Submersible, Explosionprotection, Wafer, Flange, PFA Lining (2.5 to 400 mm/0.1 to 16 in.)

Model	Suffix Code	Description	Limitation
AXG002		Magnetic Flowmeter (2.5 mm/0.1 in)	
AXG005		Magnetic Flowmeter (5 mm/0.2 in)	
AXG010		Magnetic Flowmeter (10 mm/0.4 in)	
AXG015		Magnetic Flowmeter (15 mm/0.5 in)	
AXG025		Magnetic Flowmeter (25 mm/1 in)	
AXG032		Magnetic Flowmeter (32 mm/1.25 in)	
AXG040		Magnetic Flowmeter (40 mm/1.5 in)	
AXG050		Magnetic Flowmeter (50 mm/2 in)	
AXG065		Magnetic Flowmeter (65 mm/2.5 in)	
AXG080		Magnetic Flowmeter (80 mm/3 in)	
AXG100		Magnetic Flowmeter (100 mm/4 in)	
AXG125		Magnetic Flowmeter (125 mm/5 in)	
AXG150		Magnetic Flowmeter (150 mm/6 in)	
AXG200		Magnetic Flowmeter (200 mm/8 in)	
AXG250		Magnetic Flowmeter (250 mm/10 in)	
AXG300		Magnetic Flowmeter (300 mm/12 in)	
AXG350		Magnetic Flowmeter (350 mm/14 in)	
AXG400		Magnetic Flowmeter (400 mm/16 in)	
Use	-G	General-purpose	
	-C	Explosion protection	
	-W	Submersible	15 to 400 mm (0.5 to 16 in.), only for Remote sensor
Construction	A	Integral Flowmeter	
	D	Remote Sensor (for AXFA11)	
	E	Remote Sensor (for AXG1A)	
	G	Remote Sensor (for AXG4A)	
Explosion Protection	000	Non Explosion Protection Approval	
	KF2	ATEX Flameproof	See Restriction for Explosion Protection type
	KJ2	ATEX Flameproof with Intrinsically Safe output	See Restriction for Explosion Protection type
	KT2	ATEX Flameproof with Intrinsically Safe output for FOUNDATION fieldbus	See Restriction for Explosion Protection type
	SF2	IECEX Flameproof	See Restriction for Explosion Protection type
	SJ2	IECEX Flameproof with Intrinsically Safe output	See Restriction for Explosion Protection type
	ST2	IECEX Flameproof with Intrinsically Safe output for FOUNDATION fieldbus	See Restriction for Explosion Protection type
	FF2	FM Flameproof	See Restriction for Explosion Protection type
	FJ2	FM Flameproof with Intrinsically Safe output	See Restriction for Explosion Protection type
	FT2	FM Flameproof with Intrinsically Safe output for FOUNDATION fieldbus	See Restriction for Explosion Protection type
	CF2	FMc Flameproof (Canada)	See Restriction for Explosion Protection type
	CJ2	FMc Flameproof with Intrinsically Safe output (Canada)	See Restriction for Explosion Protection type
	CT2	FMc Flameproof with Intrinsically Safe output for FOUNDATION fieldbus (Canada)	See Restriction for Explosion Protection type
	JF5	Japan Flameproof	See Restriction for Explosion Protection type
	PF2	Korea Flameproof	See Restriction for Explosion Protection type
UF2	INMETRO Flameproof (Brazil)	See Restriction for Explosion Protection type	

(Continued)

Process Connection	Wafer	<b>AA1</b>	ASME Class 150 Wafer	2.5 to 200 mm (0.1 to 8 in.)	
		<b>AA2</b>	ASME Class 300 Wafer	2.5 to 200 mm (0.1 to 8 in.)	
		<b>AE1</b>	EN PN10 Wafer	200 mm (8 in.)	
		<b>AE2</b>	EN PN16 Wafer	65 to 200 mm (2.5 to 8 in.)	
		<b>AE4</b>	EN PN40 Wafer	2.5 to 50 mm (0.1 to 2 in.)	
		<b>AG1</b>	JIS F12 Wafer	80 to 200 mm (3 to 8 in.)	
		<b>AJ1</b>	JIS 10K Wafer	2.5 to 200 mm (0.1 to 8 in.)	
		<b>AJ2</b>	JIS 20K Wafer	2.5 to 200 mm (0.1 to 8 in.)	
		<b>AP1</b>	JPI Class 150 Wafer	2.5 to 200 mm (0.1 to 8 in.) (32, 65, and 125 mm (1.25, 2.5, and 5 in.) are not available.)	
	Stainless Steel Flange (F304)	<b>BA1</b>	ASME Class 150 Flange		
		<b>BA2</b>	ASME Class 300 Flange	2.5 to 300 mm (0.1 to 12 in.)	
		<b>BE1</b>	EN PN10 Flange	200 to 400 mm (8 to 16 in.)	
		<b>BE2</b>	EN PN16 Flange	65 to 300 mm (2.5 to 12 in.)	
		<b>BE4</b>	EN PN40 Flange	2.5 to 50 mm (0.1 to 2 in.)	
		<b>BG1</b>	JIS F12 Flange	80 to 400 mm (3 to 16 in.)	
		<b>BJ1</b>	JIS 10K Flange		
		<b>BJ2</b>	JIS 20K Flange	2.5 to 300 mm (0.1 to 12 in.)	
		<b>BP1</b>	JPI Class 150 Flange	32, 65, and 125 mm (1.25, 2.5, and 5 in.) are not available.	
		<b>DE4</b>	EN PN40 Flange (Nominal Diameter 10 mm)	2.5 to 10 mm (0.1 to 0.4 in.)	
<b>DJ1</b>	JIS 10K Flange (Nominal Diameter 10 mm)	2.5 to 10 mm (0.1 to 0.4 in.)			
<b>DJ2</b>	JIS 20K Flange (Nominal Diameter 10 mm)	2.5 to 10 mm (0.1 to 0.4 in.)			
Process Connection	Stainless Steel Flange (F316)	<b>PA1</b>	ASME Class 150 Flange	32, 65, and 125 mm (1.25, 2.5, and 5 in.) are not available.	
		<b>PA2</b>	ASME Class 300 Flange	2.5 to 300 mm (0.1 to 12 in.) (32, 65, and 125 mm (1.25, 2.5, and 5 in.) are not available.)	
		<b>PE1</b>	EN PN10 Flange	200 to 400 mm (8 to 16 in.)	
		<b>PE2</b>	EN PN16 Flange	80 to 300 mm (3 to 12 in.) (125 mm (5 in.) is not available.)	
		<b>PE4</b>	EN PN40 Flange	2.5 to 50 mm (0.1 to 2 in.) (32 mm (1.25 in.) is not available.)	
		<b>PJ1</b>	JIS 10K Flange	32, 65, and 125 mm (1.25, 2.5, and 5 in.) are not available.	
	Carbon Steel Flange	<b>CA1</b>	ASME Class 150 Flange	50 to 400 mm (2 to 16 in.)	
		<b>CA2</b>	ASME Class 300 Flange	50 to 300 mm (2 to 12 in.)	
		<b>CE1</b>	EN PN10 Flange	200 to 400 mm (8 to 16 in.)	
		<b>CE2</b>	EN PN16 Flange	65 to 300 mm (2.5 to 12 in.)	
		<b>CE4</b>	EN PN40 Flange	50 mm (2 in.)	
		<b>CG1</b>	JIS F12 Flange	80 to 400 mm (3 to 16 in.)	
		<b>CJ1</b>	JIS 10K Flange	50 to 400 mm (2 to 16 in.)	
		<b>CJ2</b>	JIS 20K Flange	50 to 300 mm (2 to 12 in.)	
		<b>CS1</b>	AS Table D Flange	50 to 400 mm (2 to 16 in.) (65, and 125 mm (2.5, and 5 in.) are not available.)	
		<b>CS2</b>	AS Table E Flange	50 to 300 mm (2 to 12 in.) (65, and 125 mm (2.5, and 5 in.) are not available.)	
		Lining	<b>A</b>	PFA Lining	

(Continued)

Electrode	<b>L</b>	Stainless Steel 316L	
	<b>P</b>	Platinum-Iridium	
	<b>H</b>	Nickel Alloy	
	<b>T</b>	Tantalum	
	<b>V</b>	Titanium	
	<b>W</b>	Tungsten Carbide	2.5 mm, 5 mm, 10 mm (0.1, 0.2, 0.4 in.) are not available
Grounding Device	<b>1</b>	None	
	<b>2</b>	Grounding Rings	Select an optional code
	<b>3</b>	Built-in Grounding Electrodes	Select an optional code
Housing and Coating	<b>1</b>	Standard Material with Standard Coating	
	<b>2</b>	Standard Material with Rugged Coating	Not applicable for Submersible
Cable Entry	<b>0</b>	JIS G1/2 Female	See Restriction for Explosion Protection type
	<b>2</b>	ASME 1/2 NPT Female	Not applicable for Submersible, See Restriction for Explosion Protection type
	<b>4</b>	ISO M20×1.5 Female	Not applicable for Submersible, See Restriction for Explosion Protection type
Accuracy	<b>B</b>	Standard	
	<b>C</b>	High Grade	25 to 200 mm (1 to 8 in.)
Power Supply	<b>-1</b>	100-240 V AC / 100-120 V DC	Only for Integral Flowmeter
	<b>-2</b>	24 V AC / DC	Only for Integral Flowmeter
	<b>-N</b>	None (Remote Sensor)	Only for Remote Sensor
Communication and I/O	<b>D#</b>	#: A, B, C, D, E, F, G, H, J, K, P, Q, R, S, T BRAIN and I/O (Type A to K, P to T, See separate table)	Only for Integral Flowmeter
	<b>J#</b>	#: A, B, C, D, E, F, G, H, J, K, P, Q, R, S, T HART 7 and I/O (Type A to K, P to T, See separate table)	Only for Integral Flowmeter
	<b>M#</b>	#: 0, 2, 6 Modbus and I/O (Type 0, 2, 6, See separate table)	Only for Integral Flowmeter
	<b>F0</b>	FOUNDATION fieldbus I/O	Only for Integral Flowmeter
	<b>NN</b>	None (Remote Sensor)	Only for Remote Sensor
Transmitter Wiring Terminal	<b>1</b>	M4 Screw-type	
	<b>2</b>	Clamp Type	
	<b>N</b>	None (Remote Sensor)	Only for Remote Sensor
Display	<b>1</b>	With Display (English, Multi-language)	Only for Integral Flowmeter
	<b>2</b>	With Display (English, Chinese)	Only for Integral Flowmeter
	<b>N</b>	Without Display/Remote Sensor	
Optional Specification		# Refer to optional specification table.	

**•General-purpose, Submersible, Flange, PFA Lining (500 mm/20 in.)**

Model	Suffix Code		Description	Limitation
<b>AXG500</b>			Magnetic Flowmeter (500 mm/20 in)	
Use	<b>-G</b>		General-purpose	
	<b>-W</b>		Submersible	
Construction	<b>D</b>		Remote Sensor (for AXFA11)	
	<b>E</b>		Remote Sensor (for AXG1A)	
Explosion Protection	<b>000</b>		Non Explosion Protection Approval	
Process Connection	Stainless Steel Flange (F304)	<b>BA1</b>	ASME Class 150 Flange	
		<b>BE1</b>	EN PN10 Flange	
		<b>BE2</b>	EN PN16 Flange	
	Carbon Steel Flange	<b>CA1</b>	ASME Class 150 Flange	
		<b>CE1</b>	EN PN10 Flange	
		<b>CE2</b>	EN PN16 Flange	
Lining	<b>A</b>		PFA Lining	
Electrode	<b>L</b>		Stainless Steel 316L	
	<b>H</b>		Nickel Alloy	
Grounding Device	<b>1</b>		None	
	<b>2</b>		Grounding Rings	Select an optional code
Housing and Coating	<b>1</b>		Standard Material with Standard Coating	
	<b>2</b>		Standard Material with Rugged Coating	Not applicable for Submersible
Cable Entry	<b>0</b>		JIS G1/2 Female	
	<b>2</b>		ASME 1/2 NPT Female	Not applicable for Submersible
	<b>4</b>		ISO M20×1.5 Female	Not applicable for Submersible
Accuracy	<b>B</b>		Standard	
Power Supply	<b>-N</b>		None	
Communication and I/O	<b>NN</b>		None	
Transmitter Wiring Terminal	<b>N</b>		None	
Display	<b>N</b>		Remote Sensor	
Optional Specification	/# Refer to optional specification table.			

●General-purpose, Submersible, Explosionprotection, Flange, PFA Lining (High Pressure Type, ASME Class 600)

Model	Suffix Code		Description	Limitation
AXG025			Magnetic Flowmeter (25 mm/1 in)	
AXG040			Magnetic Flowmeter (40 mm/1.5 in)	
AXG050			Magnetic Flowmeter (50 mm/2 in)	
AXG080			Magnetic Flowmeter (80 mm/3 in)	
AXG100			Magnetic Flowmeter (100 mm/4 in)	
Use	-G		General-purpose	
	-C		Explosion protection	
	-W		Submersible	
Construction	A		Integral Flowmeter	
	D		Remote Sensor (for AXFA11)	
	E		Remote Sensor (for AXG1A)	
	G		Remote Sensor (for AXG4A)	
Explosion Protection	000		Non Explosion Protection Approval	
	SF2		IECEX Flameproof	See Restriction for Explosion Protection type
	SJ2		IECEX Flameproof with Intrinsically Safe output	See Restriction for Explosion Protection type
	ST2		IECEX Flameproof with Intrinsically Safe output for FOUNDATION fieldbus	See Restriction for Explosion Protection type
	FF2		FM Flameproof	See Restriction for Explosion Protection type
	FJ2		FM Flameproof with Intrinsically Safe output	See Restriction for Explosion Protection type
	FT2		FM Flameproof with Intrinsically Safe output for FOUNDATION fieldbus	See Restriction for Explosion Protection type
	PF2		Korea Flameproof	See Restriction for Explosion Protection type
UF2		INMETRO Flameproof (Brazil)	See Restriction for Explosion Protection type	
Process Connection	Stainless Steel Flange (F304)	EA4	ASME Class 600 Flange (High Pressure)	
Lining	A		PFA Lining	
Electrode	L		Stainless Steel 316L	
Grounding device	2		Grounding Rings	Select an optional code
Housing and Coating	1		Standard Material with Standard Coating	
	2		Standard Material with Rugged Coating	Not applicable for Submersible
Cable Entry	0		JIS G1/2 Female	See Restriction for Explosion Protection type
	2		ASME 1/2 NPT Female	Not applicable for Submersible, See Restriction for Explosion Protection type
	4		ISO M20×1.5 Female	Not applicable for Submersible, See Restriction for Explosion Protection type
Accuracy	B		Standard	
Power Supply	-1		100-240 V AC / 100-120 V DC	Only for Integral Flowmeter
	-2		24 V AC / DC	Only for Integral Flowmeter
	-N		None (Remote Sensor)	Only for Remote Sensor

(Continued)

Communication and I/O	<b>D#</b>	#: A, B, C, D, E, F, G, H, J, K, P, Q, R, S, T BRAIN and I/O (Type A to K, P to T, See separate table)	Only for Integral Flowmeter
	<b>J#</b>	#: A, B, C, D, E, F, G, H, J, K, P, Q, R, S, T HART 7 and I/O (Type A to K, P to T, See separate table)	Only for Integral Flowmeter
	<b>M#</b>	#: 0, 2, 6 Modbus and I/O (Type 0, 2, 6, See separate table)	Only for Integral Flowmeter
	<b>F0</b>	FOUNDATION fieldbus I/O	Only for Integral Flowmeter
	<b>NN</b>	None (Remote Sensor)	Only for Remote Sensor
Transmitter Wiring Terminal	<b>1</b>	M4 Screw-type	
	<b>2</b>	Clamp Type	
	<b>N</b>	None (Remote Sensor)	Only for Remote Sensor
Display	<b>1</b>	With Display (English, Multi-language)	Only for Integral Flowmeter
	<b>2</b>	With Display (English, Chinese)	Only for Integral Flowmeter
	<b>N</b>	Without Display/Remote Sensor	
Optional Specification	#	Refer to optional specification table.	

●General-purpose, Explosionprotection, Ceramics Tube

Model	Suffix Code	Description	Limitation
AXG002		Magnetic Flowmeter (2.5 mm/0.1 in)	
AXG005		Magnetic Flowmeter (5 mm/0.2 in)	
AXG010		Magnetic Flowmeter (10 mm/0.4 in)	
AXG015		Magnetic Flowmeter (15 mm/0.5 in)	
AXG025		Magnetic Flowmeter (25 mm/1 in)	
AXG040		Magnetic Flowmeter (40 mm/1.5 in)	
AXG050		Magnetic Flowmeter (50 mm/2 in)	
AXG080		Magnetic Flowmeter (80 mm/3 in)	
AXG100		Magnetic Flowmeter (100 mm/4 in)	
AXG150		Magnetic Flowmeter (150 mm/6 in)	
AXG200		Magnetic Flowmeter (200 mm/8 in)	
Use	<b>-G</b>	General-purpose	
	<b>-C</b>	Explosion protection	
Construction	<b>A</b>	Integral Flowmeter	
	<b>D</b>	Remote Sensor (for AXFA11)	
	<b>E</b>	Remote Sensor (for AXG1A)	
	<b>G</b>	Remote Sensor (for AXG4A)	
Explosion Protection	<b>000</b>	Non Explosion Protection Approval	
	<b>KF2</b>	ATEX Flameproof	See Restriction for Explosion Protection type
	<b>KJ2</b>	ATEX Flameproof with Intrinsically Safe output	See Restriction for Explosion Protection type
	<b>KT2</b>	ATEX Flameproof with Intrinsically Safe output for FOUNDATION fieldbus	See Restriction for Explosion Protection type
	<b>SF2</b>	IECEX Flameproof	See Restriction for Explosion Protection type
	<b>SJ2</b>	IECEX Flameproof with Intrinsically Safe output	See Restriction for Explosion Protection type
	<b>ST2</b>	IECEX Flameproof with Intrinsically Safe output for FOUNDATION fieldbus	See Restriction for Explosion Protection type
	<b>FF2</b>	FM Flameproof	See Restriction for Explosion Protection type
	<b>FJ2</b>	FM Flameproof with Intrinsically Safe output	See Restriction for Explosion Protection type
	<b>FT2</b>	FM Flameproof with Intrinsically Safe output for FOUNDATION fieldbus	See Restriction for Explosion Protection type
	<b>JF5</b>	Japan Flameproof	See Restriction for Explosion Protection type
	<b>PF2</b>	Korea Flameproof	See Restriction for Explosion Protection type
<b>UF2</b>	INMETRO Flameproof (Brazil)	See Restriction for Explosion Protection type	

(Continued)

Process Connection	Wafer	AA1	ASME Class 150 Wafer	15 to 200 mm (0.5 to 8 in.) (125 mm (5 in.) is not available.)
		AA2	ASME Class 300 Wafer	15 to 200 mm (0.5 to 8 in.) (125 mm (5 in.) is not available.)
		AE1	EN PN10 Wafer	200 mm (8 in.)
		AE2	EN PN16 Wafer	80 to 200 mm (3 to 8 in.) (125 mm (5 in.) is not available.)
		AE4	EN PN40 Wafer	15 to 50 mm (0.5 to 2 in.)
		AG1	JIS F12 Wafer	80 to 200 mm (3 to 8 in.) (125 mm (5 in.) is not available.)
		AJ1	JIS 10K Wafer	15 to 200 mm (0.5 to 8 in.) (125 mm (5 in.) is not available.)
		AJ2	JIS 20K Wafer	15 to 200 mm (0.5 to 8 in.) (125 mm (5 in.) is not available.)
	Union Joint Stainless Steel (F316)	GUN	Screw Union Joint	2.5 to 5 mm (0.1 to 0.2 in.): 1/4 NPT 10 mm (0.4 in.): 3/8 NPT
		GUR	Screw Union Joint	2.5 to 5 mm (0.1 to 0.2 in.): R 1/4 10 mm (0.4 in.): R 3/8
GUW		Welding Union Joint	2.5 to 10 mm (0.1 to 0.4 in.)	
Lining	C	Ceramics Tube		
Electrode	E	Platinum-alumina Cermet		
Grounding Device	1	None		
	2	Grounding Rings	2.5 mm, 5 mm, 10 mm (0.1, 0.2, 0.4 in.) are not available Select an optional code	
Housing and Coating	1	Standard Material with Standard Coating		
	2	Standard Material with Rugged Coating		
Cable Entry	0	JIS G1/2 Female	See Restriction for Explosion Protection type	
	2	ASME 1/2 NPT Female	See Restriction for Explosion Protection type	
	4	ISO M20×1.5 Female	See Restriction for Explosion Protection type	
Accuracy	B	Standard		
	C	High Grade	25 to 200 mm (1 to 8 in.)	
Power Supply	-1	100-240 V AC / 100-120 V DC	Only for Integral Flowmeter	
	-2	24 V AC / DC	Only for Integral Flowmeter	
	-N	None (Remote Sensor)	Only for Remote Sensor	
Communication and I/O	D#	#: A, B, C, D, E, F, G, H, J, K, P, Q, R, S, T BRAIN and I/O (Type A to K, P to T, See separate table)	Only for Integral Flowmeter	
	J#	#: A, B, C, D, E, F, G, H, J, K, P, Q, R, S, T HART 7 and I/O (Type A to K, P to T, See separate table)	Only for Integral Flowmeter	
	M#	#: 0, 2, 6 Modbus and I/O (Type 0, 2, 6, See separate table)	Only for Integral Flowmeter	
	F0	FOUNDATION fieldbus I/O	Only for Integral Flowmeter	
	NN	None (Remote Sensor)	Only for Remote Sensor	
Transmitter Wiring Terminal	1	M4 Screw-type		
	2	Clamp Type		
	N	None (Remote Sensor)	Only for Remote Sensor	
Display	1	With Display (English, Multi-language)	Only for Integral Flowmeter	
	2	With Display (English, Chinese)	Only for Integral Flowmeter	
	N	Without Display/Remote Sensor		
Optional Specification	/#	Refer to optional specification table.		

●Hygienic, Hygienic Explosion protection, PFA Lining

Model	Suffix Code	Description	Limitation
AXG015		Magnetic Flowmeter (15 mm/0.5 in)	
AXG025		Magnetic Flowmeter (25 mm/1 in)	
AXG032		Magnetic Flowmeter (32 mm/1.25 in)	
AXG040		Magnetic Flowmeter (40 mm/1.5 in)	
AXG050		Magnetic Flowmeter (50 mm/2 in)	
AXG065		Magnetic Flowmeter (65 mm/2.5 in)	
AXG080		Magnetic Flowmeter (80 mm/3 in)	
AXG100		Magnetic Flowmeter (100 mm/4 in)	
AXG125		Magnetic Flowmeter (125 mm/5 in)	
Use	-H	Hygienic	
	-J	Hygienic Explosion Protection	
Construction	A	Integral Flowmeter	
	D	Remote Sensor (for AXFA11)	
	E	Remote Sensor (for AXG1A)	
	G	Remote Sensor (for AXG4A)	
Explosion Protection	000	Non Explosion Protection Approval	
	KF2	ATEX Flameproof	See Restriction for Explosion Protection type
	KJ2	ATEX Flameproof with Intrinsically Safe output	See Restriction for Explosion Protection type
	KT2	ATEX Flameproof with Intrinsically Safe output for FOUNDATION fieldbus	See Restriction for Explosion Protection type
	SF2	IECEX Flameproof	See Restriction for Explosion Protection type
	SJ2	IECEX Flameproof with Intrinsically Safe output	See Restriction for Explosion Protection type
	ST2	IECEX Flameproof with Intrinsically Safe output for FOUNDATION fieldbus	See Restriction for Explosion Protection type
	FF2	FM Flameproof	See Restriction for Explosion Protection type
	FJ2	FM Flameproof with Intrinsically Safe output	See Restriction for Explosion Protection type
	FT2	FM Flameproof with Intrinsically Safe output for FOUNDATION fieldbus	See Restriction for Explosion Protection type
	CF2	FMc Flameproof (Canada)	See Restriction for Explosion Protection type
	CJ2	FMc Flameproof with Intrinsically Safe output (Canada)	See Restriction for Explosion Protection type
	CT2	FMc Flameproof with Intrinsically Safe output for FOUNDATION fieldbus (Canada)	See Restriction for Explosion Protection type
	JF5	Japan Flameproof	See Restriction for Explosion Protection type
	PF2	Korea Flameproof	See Restriction for Explosion Protection type
UF2	INMETRO Flameproof (Brazil)	See Restriction for Explosion Protection type	

(Continued)

Process Connection	Clamp	<b>HAB</b>	Tri-Clamp, Stainless Steel F316L	15 to 100 mm (0.5 to 4 in.) (32 mm (1.25 in.) is not available.)
		<b>HDB</b>	DIN 32676 Clamp, Stainless Steel F316L	
		<b>HJA</b>	ISO 2852 Clamp (for JIS G3447 Piping), Stainless Steel F304	
		<b>HJB</b>	ISO 2852 Clamp (for JIS G3447 Piping), Stainless Steel F316L	
		<b>HKB</b>	ISO 2852 / SMS 3016 Clamp, Stainless Steel F316L	
	Union	<b>JDB</b>	DIN 11851 Union, Stainless Steel F316L	
		<b>JJA</b>	ISO 2853 Union (for JIS G3447 Piping), Stainless Steel F304	25 to 100 mm (1 to 4 in.)
		<b>JJB</b>	ISO 2853 Union (for JIS G3447 Piping), Stainless Steel F316L	25 to 100 mm (1 to 4 in.)
		<b>JKB</b>	ISO 2853 Union, Stainless Steel F316L	15 to 100 mm (0.5 to 4 in.)
		<b>JSB</b>	SMS 1145 Union (Open groove packing type), Stainless Steel F316L	25 to 100 mm (1 to 4 in.)
Process Connection	Butt Weld Joint	<b>KDB</b>	DIN 11850 Piping Butt Weld Joint, Stainless Steel F316L	
		<b>KJA</b>	JIS G3447 Piping Butt Weld Joint, Stainless Steel F304	
		<b>KJB</b>	JIS G3447 Piping Butt Weld Joint, Stainless Steel F316L	
		<b>KKB</b>	ISO 2037 Piping Butt Weld Joint, Stainless Steel F316L	
Lining	<b>A</b>	PFA Lining		
Electrode	<b>L</b>	Stainless Steel 316L		
Grounding Device	<b>1</b>	None		
Housing and Coating	<b>1</b>	Standard Material with Standard Coating		
Cable Entry	<b>0</b>	JIS G1/2 Female	See Restriction for Explosion Protection type	
	<b>2</b>	ASME 1/2 NPT Female	See Restriction for Explosion Protection type	
	<b>4</b>	ISO M20×1.5 Female	See Restriction for Explosion Protection type	
Accuracy	<b>B</b>	Standard		
	<b>C</b>	High Grade	25 to 125 mm (1 to 5 in.)	
Power Supply	<b>-1</b>	100-240 V AC / 100-120 V DC	Only for Integral Flowmeter	
	<b>-2</b>	24 V AC / DC	Only for Integral Flowmeter	
	<b>-N</b>	None (Remote Sensor)	Only for Remote Sensor	
Communication and I/O	<b>D#</b>	#: A, B, C, D, E, F, G, H, J, K, P, Q, R, S, T BRAIN and I/O (Type A to K, P to T, See separate table)	Only for Integral Flowmeter	
	<b>J#</b>	#: A, B, C, D, E, F, G, H, J, K, P, Q, R, S, T HART 7 and I/O (Type A to K, P to T, See separate table)	Only for Integral Flowmeter	
	<b>M#</b>	#: 0, 2, 6 Modbus and I/O (Type 0, 2, 6, See separate table)	Only for Integral Flowmeter	
	<b>F0</b>	FOUNDATION fieldbus I/O	Only for Integral Flowmeter	
	<b>NN</b>	None (Remote Sensor)	Only for Remote Sensor	
Transmitter Wiring Terminal	<b>1</b>	M4 Screw-type		
	<b>2</b>	Clamp Type		
	<b>N</b>	None (Remote Sensor)	Only for Remote Sensor	
Display	<b>1</b>	With Display (English, Multi-language)	Only for Integral Flowmeter	
	<b>2</b>	With Display (English, Chinese)	Only for Integral Flowmeter	
	<b>N</b>	Without Display/Remote Sensor		
Optional Specification		<b>/#</b> Refer to optional specification table.		

**•General-purpose, Explosion protection. Remote Transmitter**

Model	Suffix Code	Description	Limitation
AXG4A		Magnetic Flowmeter Remote Transmitter	
Use	-G	General-purpose	
	-C	Explosion Protection	
Explosion Protection	000	Non Explosion Protection Approval	
	KF2	ATEX Flameproof	See Restriction for Explosion Protection type
	KJ2	ATEX Flameproof with Intrinsically Safe output	See Restriction for Explosion Protection type
	KT2	ATEX Flameproof with Intrinsically Safe output for FOUNDATION fieldbus	See Restriction for Explosion Protection type
	SF2	IECEX Flameproof	See Restriction for Explosion Protection type
	SJ2	IECEX Flameproof with Intrinsically Safe output	See Restriction for Explosion Protection type
	ST2	IECEX Flameproof with Intrinsically Safe output for FOUNDATION fieldbus	See Restriction for Explosion Protection type
	FF2	FM Flameproof	See Restriction for Explosion Protection type
	FJ2	FM Flameproof with Intrinsically Safe output	See Restriction for Explosion Protection type
	FT2	FM Flameproof with Intrinsically Safe output for FOUNDATION fieldbus	See Restriction for Explosion Protection type
	CF2	FMc Flameproof (Canada)	See Restriction for Explosion Protection type
	CJ2	FMc Flameproof with Intrinsically Safe output (Canada)	See Restriction for Explosion Protection type
	CT2	FMc Flameproof with Intrinsically Safe output for FOUNDATION fieldbus (Canada)	See Restriction for Explosion Protection type
	JF5	Japan Flameproof	See Restriction for Explosion Protection type
	PF2	Korea Flameproof	See Restriction for Explosion Protection type
UF2	INMETRO Flameproof (Brazil)	See Restriction for Explosion Protection type	
Housing and Coating	1	Standard Material with Standard Coating	
	2	Standard Material with Rugged Coating	
Cable Entry	0	JIS G1/2 Female	See Restriction for Explosion Protection type
	2	ASME 1/2 NPT Female	See Restriction for Explosion Protection type
	4	ISO M20×1.5 Female	See Restriction for Explosion Protection type
Power Supply	1	100-240 V AC / 100-120 V DC	
	2	24 V AC / DC	
Communication and I/O	D#	#: A, B, C, D, E, F, G, H, J, K, P, Q, R, S, T BRAIN and I/O (Type A to K, P to T, See separate table)	
	J#	#: A, B, C, D, E, F, G, H, J, K, P, Q, R, S, T HART 7 and I/O (Type A to K, P to T, See separate table)	
	M#	#: 0, 2, 6 Modbus and I/O (Type 0, 2, 6, See separate table)	
	F0	FOUNDATION fieldbus I/O	
Transmitter Wiring Terminal	1	M4 Screw-type	
	2	Clamp Type	
Display	1	With Display (English, Multi-language)	
	2	With Display (English, Chinese)	
	N	Without Display	
Optional Specification		/# Refer to optional specification table.	

●Signal Cable

Model	Suffix Code	Optional Code	Description
AX01C			Magnetic Flowmeter Signal Cable
Cable Finish and Length	-A### (*1)		Unfinished, Cable length ### m, Set of Finishing Parts for M4 Screws
	-B### (*1)		Finished for AXG1A, Cable Length ### m
	-C### (*1)		Finished for AXG4A, Cable Length ### m
	-D### (*1)		Finished for AXFA11, Cable Length ### m
Finishing Parts		/C# (*2)	Finishing Parts (# sets)

\*1: Specify the cable length in the "###" with the numerical value three digits (001 to 200) as multiple of 1 meter (e.g. 001, 002, or 005) for a length up to 5 m, as multiple of 5 meters up to 100 m (e.g. 010, 020, or 100), or as multiple of 10 meters up to 200 m (e.g. 110, 120, or 200).  
The maximum cable length: -A###: 200 m, -B###: 200 m, -C###: 100 m, -D###: 200 m

\*2: Specify the finishing parts quantity in the "#" with the numerical value one digit (1 to 9).

●Details: Communication and I/O (HART type, BRAIN type)

Type	Communication and I/O Code		Number of Input and Output								
			Current Output Active	Pulse/Status Output Passive	Status Input (No-voltage)	Status Output Passive	Pulse/Status Output Active (with internal resistor)	Pulse/Status Output Active (without internal resistor)	Current Output Passive	Current Input Active	
	BRAIN	HART 7									
Type A	DA	JA	1	1	—	—	—	—	—	—	—
Type B	DB	JB	2	2	—	—	—	—	—	—	—
Type C	DC	JC	2	1	1	—	—	—	—	—	—
Type D	DD	JD	1	2	—	1	—	—	—	—	—
Type E	DE	JE	1	2	1	—	—	—	—	—	—
Type F	DF	JF	1	1	1	—	1	—	—	—	—
Type G	DG	JG	1	1	1	—	—	1	—	—	—
Type H	DH	JH	1	1	—	—	—	—	1	—	1
Type J	DJ	JJ	1	2	—	—	—	—	—	—	1
Type K	DK	JK	1	1	1	—	—	—	—	—	1

●Details: Communication and I/O (IS Output)

Type	Communication and I/O Code		Number of Input and Output		
	BRAIN	HART	Current Output Passive	Pulse/Status Output Passive	Pulse/Status Output Passive (NAMUR)
Type P	DP	JP	2	1	—
Type Q	DQ	JQ	2	2	—
Type R	DR	JR	2	—	1
Type S	DS	JS	2	—	2
Type T	DT	JT	1	1	—

●Details: Communication and I/O (Modbus type)

Type	Communication and I/O Code	Number of Input and Output		
	Modbus	Current Output Active	Pulse/Status Output Passive	Current Input Active
Type 0	M0	—	1	—
Type 2	M2	—	1	1
Type 6	M6	1	1	—

●Details: Communication and I/O (FOUNDATION fieldbus type)

Type	Communication and I/O Code	Number of Input and Output		
	FOUNDATION fieldbus	Current Output Active	Pulse/Status Output Passive	Current Input Active
Type F0	F0	—	1	—

### ●Details: Restriction for Explosion protection type

For Explosion protection type, the following combinations of suffix code or optional code are restricted. For other optional codes, see optional code tables.

Item	Code	Restriction of Combination	
		Mandatory	Not Available
ATEX Flameproof	KF2	<ul style="list-style-type: none"> <li>Optional Code: EC</li> </ul>	<ul style="list-style-type: none"> <li>Process Connection: AG1, AJ#, AP1, BG1, BJ#, BP1, CG1, CJ#, CS#, DJ#, EA4, PJ1</li> <li>Cable Entry: 0 (JIS G1/2)</li> <li>Optional Code: CS</li> </ul>
ATEX Flameproof with Intrinsically Safe output	KJ2	<ul style="list-style-type: none"> <li>Communication and I/O: Type P, Q, R, S, T</li> <li>Optional Code: EC</li> <li>Transmitter Wiring Terminal: 2</li> </ul>	<ul style="list-style-type: none"> <li>Construction: D, E, G (Remote Sensor)</li> <li>Process Connection: AG1, AJ#, AP1, BG1, BJ#, BP1, CG1, CJ#, CS#, DJ#, EA4, PJ1</li> <li>Cable Entry: 0 (JIS G1/2)</li> <li>Optional Code: CS</li> </ul>
ATEX Flameproof with Intrinsically Safe output, FOUNDATION Fieldbus	KT2	<ul style="list-style-type: none"> <li>Communication and I/O: Type F0</li> <li>Optional Code: EC</li> <li>Transmitter Wiring Terminal: 2</li> </ul>	<ul style="list-style-type: none"> <li>Construction: D, E, G (Remote Sensor)</li> <li>Process Connection: AG1, AJ#, AP1, BG1, BJ#, BP1, CG1, CJ#, CS#, DJ#, EA4, PJ1</li> <li>Cable Entry: 0 (JIS G1/2)</li> <li>Optional Code: CS</li> </ul>
IECEx Flameproof	SF2	—	<ul style="list-style-type: none"> <li>Cable Entry: 0 (JIS G1/2)</li> <li>Optional Code: EC</li> </ul>
IECEx Flameproof with Intrinsically Safe output	SJ2	<ul style="list-style-type: none"> <li>Communication and I/O: Type P, Q, R, S, T</li> <li>Transmitter Wiring Terminal: 2</li> </ul>	<ul style="list-style-type: none"> <li>Construction: D, E, G (Remote Sensor)</li> <li>Cable Entry: 0 (JIS G1/2)</li> <li>Optional Code: EC</li> </ul>
IECEx Flameproof with Intrinsically Safe output, FOUNDATION Fieldbus	ST2	<ul style="list-style-type: none"> <li>Communication and I/O: Type F0</li> <li>Transmitter Wiring Terminal: 2</li> </ul>	<ul style="list-style-type: none"> <li>Construction: D, E, G (Remote Sensor)</li> <li>Cable Entry: 0 (JIS G1/2)</li> <li>Optional Code: EC</li> </ul>
FM Flameproof	FF2	<ul style="list-style-type: none"> <li>Cable Entry: 2 (ASME 1/2NPT)</li> </ul>	<ul style="list-style-type: none"> <li>Grounding Device: 3</li> <li>Optional Code: EC</li> <li>Optional Code: GBP, GBT</li> </ul>
FM Flameproof with Intrinsically Safe output	FJ2	<ul style="list-style-type: none"> <li>Cable Entry: 2 (ASME 1/2NPT)</li> <li>Communication and I/O: Type P, Q, R, S, T</li> <li>Transmitter Wiring Terminal: 2</li> </ul>	<ul style="list-style-type: none"> <li>Construction: D, E, G (Remote Sensor)</li> <li>Grounding Device: 3</li> <li>Optional Code: EC</li> <li>Optional Code: GBP, GBT</li> </ul>
FM Flameproof with Intrinsically Safe output, FOUNDATION Fieldbus	FT2	<ul style="list-style-type: none"> <li>Cable Entry: 2 (ASME 1/2NPT)</li> <li>Communication and I/O: Type F0</li> <li>Transmitter Wiring Terminal: 2</li> </ul>	<ul style="list-style-type: none"> <li>Construction: D, E, G (Remote Sensor)</li> <li>Grounding Device: 3</li> <li>Optional Code: GBP, GBT</li> <li>Optional Code: EC</li> </ul>
FMc Flameproof (Canada)	CF2	<ul style="list-style-type: none"> <li>Cable Entry: 2 (ASME 1/2NPT)</li> <li>Optional Code: CS</li> </ul>	<ul style="list-style-type: none"> <li>Process Connection: EA4</li> <li>Lining: C</li> <li>Grounding Device: 3</li> <li>Optional Code: EC</li> <li>Optional Code: GBP, GBT</li> </ul>
FMc Flameproof with Intrinsically Safe output (Canada)	CJ2	<ul style="list-style-type: none"> <li>Cable Entry: 2 (ASME 1/2NPT)</li> <li>Communication and I/O: Type P, Q, R, S, T</li> <li>Transmitter Wiring Terminal: 2</li> <li>Optional Code: CS</li> </ul>	<ul style="list-style-type: none"> <li>Construction: D, E, G (Remote Sensor)</li> <li>Process Connection: EA4</li> <li>Lining: C</li> <li>Grounding Device: 3</li> <li>Optional Code: EC</li> <li>Optional Code: GBP, GBT</li> </ul>
FMc Flameproof with Intrinsically Safe output, FOUNDATION fieldbus (Canada)	CT2	<ul style="list-style-type: none"> <li>Cable Entry: 2 (ASME 1/2NPT)</li> <li>Communication and I/O: Type F0</li> <li>Transmitter Wiring Terminal: 2</li> <li>Optional Code: CS</li> </ul>	<ul style="list-style-type: none"> <li>Construction: D, E, G (Remote Sensor)</li> <li>Process Connection: EA4</li> <li>Lining: C</li> <li>Grounding Device: 3</li> <li>Optional Code: EC</li> <li>Optional Code: GBP, GBT</li> </ul>
Japan Flameproof	JF5	<ul style="list-style-type: none"> <li>Cable Entry: 4 (ISO M20)</li> <li>Optional Code: V5#</li> </ul>	<ul style="list-style-type: none"> <li>Process Connection: C##</li> <li>Cable Entry: 0 (JIS G1/2), 2 (ASME 1/2NPT)</li> <li>Display (Integral Flowmeter, Transmitter): N (Without Display)</li> <li>Optional Code: EC</li> </ul>
Korea Flameproof	PF2	—	<ul style="list-style-type: none"> <li>Cable Entry: 0 (JIS G1/2)</li> <li>Optional Code: EC</li> </ul>
INMERTO Flameproof (Brazil)	UF2	—	<ul style="list-style-type: none"> <li>Cable Entry: 0 (JIS G1/2)</li> <li>Optional Code: EC, CS</li> </ul>

■ **OPTIONAL CODE**

● **Application, Usage, and Operating Function**

●: Applicable ○: Applicable (except Explosion Protection) —: Not Applicable

Item	Specification and Applicable Condition	Applicable Model						Code
		General-purpose Explosion protection		Submersible	Hygienic Hygienic with Explosion protection		General-purpose Explosion protection	
		Integral Flowmeter	Remote Sensor	Remote Sensor	Integral Flowmeter	Remote Sensor	Remote Transmitter	
Mirror Finished PFA (for adhesive fluid)	Finish the inner surface of the PFA lining (sizes 15 to 400 mm (0.5 to 16 in.), except for high pressure type) to a mirror finish. The Ra is average of measured values on several points. Sizes 15 to 200 mm (0.5 to 8 in.): Ra 0.05 to 0.15 μm Sizes 250 to 400 mm (10 to 16 in.): Ra 0.05 to 0.25 μm	●	●	●	●	●	—	PM
Mirror Finished Ceramics (for adhesive fluid)	Finish the inner surface of the ceramics tube (5 to 200 mm (0.2 to 8 in.)) to a mirror finish with Ra 0.1 μm or less. The Ra is average of measured values on several points.	●	●	—	—	—	—	CM
Vent Hole (for permeable fluid)	For permeable fluid applications (e.g. nitric acid, hydrofluoric acid, high temperature sodium hydroxide, black liquor etc.). A vent hole is provided for letting fluid permeated between the lining and the measuring pipe escape. Applicable for flange type of PFA lining except for high pressure type.	●	●	—	—	—	—	H
DC Noise Cut Circuit (for electrolytic bath)	Built-in DC noise cut circuit. It works effectively when the size is 15 mm (0.5 in.) or more and fluid conductivity is 50 μS/cm or more. Empty pipe detection, electrode adhesion diagnosis, electrode potential measurement, and wetted resistance measurement function can not be used. For remote transmitter, it must be combined with remote sensor of size 15 mm (0.5 in.) or more.	●	—	—	●	—	●	ELC
Potting Terminal Box with Cable (For district heating and cooling or condensation-proof)	Urethane resin potting is applied in the terminal box of a remote sensor. Signal and excitation cables (when optional code L### is not selected, cable length is each 30 m) are pre-wired and waterproof glands with union joints are attached at factory. For cable entry, selection of JIS G1/2 female thread is necessary. When optional code DHC is selected, the optional code of plastic and waterproof glands can not be selected.	—	○	—	—	○	—	DHC
Signal and Excitation Cable Length	Change the length of signal cable and excitation cable pre-wired for a remote sensor of Submersible or one with optional code DHC. Specify the cable length in the "###" with the numerical value three digits (001 to 200) as multiple of 1 meter (e.g. 001, 002, or 005) for a length up to 5 m, as multiple of 5 meters up to 100 m (e.g. 010, 020, or 100), or as multiple of 10 meters up to 200 m (e.g. 110, 120, or 200). The maximum cable length is 100 m in combination with the AXG4A transmitter, and 200 m in combination with the AXG1A or AXFA11 transmitter. When optional code L### is not selected, a 30-meter length cable is pre-wired.	—	○	●	—	○	—	L###
Oil Prohibited Use	Electrodes, linings, grounding devices (grounding rings plate type, grounding rings electrode type, built-in grounding electrodes), gaskets, and piping adapters and connection parts (for Hygienic) of sizes 2.5 to 400 mm (0.1 to 16 in.) are assembled and packed with polyethylene after being cleaned with water and acetone and dried with air. The label "OIL FREE" is affixed.	●	●	—	●	●	—	K1

●Application, Usage, and Operating Function (Continued)

●: Applicable ○: Applicable (except Explosion Protection) —: Not Applicable

Item	Specification and Applicable Condition	Applicable Model						Code
		General-purpose Explosion protection		Submersible	Hygienic Hygienic with Explosion protection		General-purpose Explosion protection	
		Integral Flowmeter	Remote Sensor	Remote Sensor	Integral Flowmeter	Remote Sensor	Remote Transmitter	
Oil Prohibited Use with Dehydration	Electrodes, linings, and grounding devices (grounding rings plate type, grounding rings electrode type, built-in grounding electrodes) of sizes 2.5 to 400 mm (0.1 to 16 in.) 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
Mass Unit Setting	The flow rate calculation is performed in mass unit. In addition to fluid density, specify span flow rate, pulse weight, and totalization weight in mass unit. For specifying procedures, read "Ordering Information". For remote sensor, specified parameters are set in the transmitter that is ordered in combination.	●	●	●	●	●	—	MU
Signal Down on Failure	The current output signal is set as follows when shipped. Output signal at CPU failure or alarm occurrence: 2.4 mA (–10 %) or less (The standard setting is 21.6 mA (110%) or more at CPU failure or alarm occurrence.) Not with Communication and I/O code M0, M2, F0.	●	—	—	●	—	●	C1
Signal Down on Failure (NAMUR NE 43 Compliant)	The current output signal is set as follows when shipped. Output signal limits: 3.8 to 20.5 mA Output signal at CPU failure or alarm occurrence: Low: 2.4 mA (–10%) or less Not with Communication and I/O code M#, F0.	●	—	—	●	—	●	C2
Signal Up on Failure (NAMUR NE 43 Compliant)	The current output signal is set as follows when shipped. Output signal limits: 3.8 to 20.5 mA Output signal at CPU failure or alarm occurrence: High: 21.6 mA (110%) or more Not with Communication and I/O code M#, F0.	●	—	—	●	—	●	C3
microSD Card	A microSD card slot is added to the display unit, and a microSD card (capacity 1 GB, format FAT 16) is inserted when shipped. When using parameter store / restore function, and/or data logging function, specify optional code MC.	●	—	—	●	—	●	MC
CE Marking	CE marking is indicated on the nameplate. When a flowmeter is used in the countries where CE marking is required, specify optional code EC. Optional code EC cannot be applicable for AXG500. Applicable for the following process connection codes. AA#, AE#, BA#, BE#, CA#, CE#, DE#, GU#, H##(*), J##(*), K##, PA#, PE# *: It can not be combined with optional code W2. Not with optional code 3A.	●	●	●	●	●	●	EC
NAMUR NE21	Compliant to NAMUR NE21 under span setting of 0.5 m/s or more in terms of flow velocity. For specifiable span, read "Ordering Information". Combination with optional code EC (CE marking) is necessary. Not with Communication and I/O code M#, F0.	●	—	—	●	—	●	E21

●Application, Usage, and Operating Function (Continued)

●: Applicable ○: Applicable (except Explosion Protection) —: Not Applicable

Item	Specification and Applicable Condition	Applicable Model						Code
		General-purpose Explosion protection		Submersible	Hygienic Hygienic with Explosion protection		General-purpose Explosion protection	
		Integral Flowmeter	Remote Sensor		Remote Sensor	Integral Flowmeter		
Canada Domestic Sales	Compliant to CSA standards. Integral flowmeter and remote sensor (for size 2.5 to 400 mm) are registered with CRN in Canada. When the product is used in Canada, it is mandatory to comply with these standards. Specify option code CS. Optional code CS cannot be applicable for AXG500. Applicable for the following process connection codes. AA#, BA#, CA#, EA4, H###(*), J##(*), K##, PA# *: It can not be combined with optional code W2. Not with lining code C (Ceramics Tube). Not with optional code EC (CE Marking).	●	●	●	●	●	●	CS
3-A Sanitary Certification	Use EPDM rubber gasket for 3-A standard. Process connection code: HAB For remote type, only AXG4A remote transmitter can be combined. Nominal size:15 mm to 100 mm, except 32 mm Not with optional code EC (CE Marking)	—	—	—	○	○	○	3A

●Tag Plate and Mounting Bracket

●: Applicable ○: Applicable (except Explosion Protection) —: Not Applicable

Item	Specification and Applicable Condition	Applicable Model						Code
		General-purpose Explosion protection		Submersible	Hygienic Hygienic with Explosion protection		General-purpose Explosion protection	
		Integral Flowmeter	Remote Sensor		Remote Sensor	Integral Flowmeter		
Stainless Steel Tag Plate	The pendant type tag plate (stainless steel 304) is wired around the flowmeter neck. Select optional code SCT when necessary in addition to that on the nameplate, on which the Tag No. is inscribed. Plate size (Height x Width): Approx. 12.5 mm x 40 mm (4.92 in. x 15.7 in.)	●	●	●	●	●	●	SCT
Stainless Steel Mounting Bracket	Change the material of the remote transmitter mounting bracket, from carbon steel to stainless steel 304.	—	—	—	—	—	●	SB

●Piping Parts

●: Applicable ○: Applicable (except Explosion Protection) —: Not Applicable

Item	Specification and Applicable Condition	Applicable Model					Code
		General-purpose Explosion protection		Submersible	Hygienic Hygienic with Explosion protection		
		Integral Flowmeter	Remote Sensor	Remote Sensor	Integral Flowmeter	Remote Sensor	
Bolts, Nuts and Gaskets (Type C)	The mounting bolts, nuts and gaskets of wafer type (process connection code: AJ1, AJ2, AA1) are supplied. For PFA lining and ceramics tube, when adopting the optional code BSC together with the optional earth ring plate, there is a risk of liquid leakage due to the difference in elasticity, so between the detector and the earth ring, also using a gasket of hardness equivalent to chloroprene rubber is recommended. Bolt: Stainless steel 304 Nut: Stainless steel 304 Gasket(*): Chloroprene rubber (CR), thickness: 3 mm (0.12 in.) *: The allowable temperature and pressure is equivalent to that of Valqua #2010 series.	●	●	●	—	—	BSC
Bolts, Nuts and Gaskets (Type F)	The mounting bolts, nuts and gaskets of wafer type (process connection code: AJ1, AJ2, AA1) are supplied. Bolt: Stainless steel 304 Nut: Stainless steel 304 Gasket(*): PTFE-sheathed non-asbestos joint sheet, thickness: 3 mm (0.12 in.) *: The allowable temperature and pressure is equivalent to that of Valqua #7030 (S) series.	●	●	●	—	—	BSF
Hygienic Connection Parts	Connection parts for hygienic are supplied. Optional code W2 can be selected with the following process connection codes. HJA: Clamp: Stainless steel SCS13 Ferrule: Size 15 mm (0.5 in.): Stainless steel 316L Sizes 25 to 125 mm (1 to 5 in.): Stainless steel 304 Gasket: Ethylene propylene diene rubber (EPDM) (*) HJB: Clamp: Stainless steel SCS13 Ferrule: Stainless steel 316L Gasket: Ethylene propylene diene rubber (EPDM) (*) JJA: Nut: Stainless steel 304 Sleeve: Stainless steel 304 Gasket: Ethylene propylene diene rubber (EPDM) (*) JJB: Nut: Stainless steel 304 Sleeve: Stainless steel F316L Gasket: Ethylene propylene diene rubber (EPDM) (*) *: The gasket material is silicone rubber, when size 125 mm (5 in.) or optional code GH is selected.	—	—	—	●	●	W2

●Grounding Device

Grounding devices are attached at factory.

For the applicable condition of grounding devices and gaskets, see the separate table.

●: Applicable ○: Applicable (except Explosion Protection) —: Not Applicable

Item	Specification and Applicable Condition	Applicable Model					Code
		General-purpose Explosion protection		Submersible	Hygienic Hygienic with Explosion protection		
		Integral Flowmeter	Remote Sensor	Remote Sensor	Integral Flowmeter	Remote Sensor	
Grounding Rings (Plate Type L)	Material: Stainless Steel 316L, Thin Type(*). Thickness: 1 mm (0.04 in.) for sizes 2.5 to 200 mm (0.1 to 8 in.) 2 mm (0.08 in.) for sizes 250 to 400 mm (10 to 16 in.)	●	●	●	—	—	GRL
Grounding Rings (Plate Type N)	Material: Stainless Steel 316L, Thick Type(*). Thickness: Except for high pressure type (ASME Class 600 flange): 3 mm (0.12 in.) for sizes 2.5 to 400 mm (0.1 to 16 in.) 4 mm (0.16 in.) for size 500 mm (20 in.) For high pressure type (ASME Class 600 flange): 8.5 mm (0.33 in.) for size 25 mm (1 in.) 10.5 mm (0.41 in.) for sizes 40 to 100 mm (1.5 to 4 in.).	●	●	●	—	—	GRN
Grounding Rings (Plate Type H)	Material: Nickel Alloy, Thin Type(*). Thickness: 1 mm (0.04 in.) for sizes 2.5 to 200 mm (0.1 to 8 in.) 2 mm (0.08 in.) for sizes 250 to 400 mm (10 to 16 in.)	●	●	●	—	—	GRH
Grounding Rings (Plate Type J)	Material: Nickel Alloy, Thick Type(*). Thickness: 3 mm (0.12 in.) for sizes 2.5 to 400 mm (0.1 to 16 in.) 4 mm (0.16 in.) for size 500 mm (20 in.)	●	●	●	—	—	GRJ
Grounding Rings (Plate Type V)	Material: Titanium, Thin Type(*). Thickness: 1 mm (0.04 in.) for sizes 2.5 to 200 mm (0.1 to 8 in.) 2 mm (0.08 in.) for sizes 250 to 400 mm (10 to 16 in.)	●	●	●	—	—	GRV
Grounding Rings (Plate Type W)	Material: Titanium, Thick Type(*). Thickness: 3 mm (0.12 in.) for sizes 2.5 to 400 mm (0.1 to 16 in.)	●	●	●	—	—	GRW
Grounding Rings (Electrode Type P)	Material: Platinum-Iridium Width: 14 mm (0.55 in.) for sizes 2.5 to 15 mm (0.1 to 0.5 in.), sizes 25 to 125 mm (1 to 5 in.) with process connection Wafer (A##). 14.5 mm (0.57 in.) for sizes 25 to 125 mm (1 to 5 in.) with process connection Flange (B##, C##, E##, P##). 16 mm (0.63 in.) for sizes 150 to 200 mm (6 to 8 in.)	●	●	●	—	—	GRP
Grounding Rings (Electrode Type T)	Material: Tantalum Width: 14 mm (0.55 in.) for sizes 2.5 to 15 mm (0.1 to 0.5 in.), sizes 25 to 125 mm (1 to 5 in.) with process connection Wafer (A##) 14.5 mm (0.57 in.) for sizes 25 to 125 mm (1 to 5 in.) with process connection Flange (B##, C##, E##, P##) 16 mm (0.63 in.) for sizes 150 to 200 mm (6 to 8 in.)	●	●	●	—	—	GRT

●Grounding Device (Continued)

●: Applicable ○: Applicable (except Explosion Protection) —: Not Applicable

Item	Specification and Applicable Condition	Applicable Model					Code
		General-purpose Explosion protection		Submersible	Hygienic Hygienic with Explosion protection		
		Integral Flowmeter	Remote Sensor	Remote Sensor	Integral Flowmeter	Remote Sensor	
Built-in Grounding Electrodes (Type P)	Material: Platinum-Iridium For electrode material selected by the suffix code, selection of platinum-iridium is necessary.	●	●	●	—	—	GBP
Built-in Grounding Electrodes (Type T)	Material: Tantalum For electrode material selected by the suffix code, selection of tantalum is necessary.	●	●	●	—	—	GBT

\*: Either thin type or thick type for the grounding rings can be selected when the material is Stainless Steel 316L, Nickel Alloy, or Titanium. If the flange pressure ratings is ASME Class 300, EN PN 40 etc. for high fluid pressure and the tightening torque is high, the thick type is recommended.

Size Range by Grounding Device

Grounding Ring Plate:

Stainless Steel 316L

2.5 to 500 mm, 0.1 to 20 in. (for PFA Lining)  
15 to 200 mm, 0.5 to 8 in. (for Ceramics Tube)

Nickel Alloy

2.5 to 500 mm, 0.1 to 20 in. (for PFA Lining)  
15 to 200 mm, 0.5 to 8 in. (for Ceramics Tube)

Titanium

2.5 to 400 mm, 0.1 to 16 in. (for PFA Lining)  
15 to 200 mm, 0.5 to 8 in. (for Ceramics Tube)

Grounding Ring Electrode:

Platinum-Iridium

2.5 to 200 mm, 0.1 to 8 in. (for PFA Lining)  
15 to 200 mm, 0.5 to 8 in. (for Ceramics Tube)

Tantalum

2.5 to 200 mm, 0.1 to 8 in. (for PFA Lining)  
15 to 200 mm, 0.5 to 8 in. (for Ceramics Tube)

Built-in Grounding Electrode:

Platinum-Iridium

150 to 400 mm, 6 to 16 in. (for PFA Lining, Flange type)

Tantalum

150 to 400 mm, 6 to 16 in. (for PFA Lining, Flange type)

●Gasket

Grounding devices are attached at factory.

For applicable condition of grounding devices and gaskets, see the separate table.

●: Applicable ○: Applicable (except Explosion Protection) —: Not Applicable

Item	Specification and Applicable Condition	Applicable Model					Code
		General-purpose Explosion protection		Submersible	Hygienic Hygienic with Explosion protection		
		Integral Flowmeter	Remote Sensor	Remote Sensor	Integral Flowmeter	Remote Sensor	
Plastic Pipe Gaskets	Fluororubber gasket (Viton) for plastic piping such as PVC. The allowable temperature and pressure range is the same as those of Valqua #4010 with no special formulation.	●	●	●	—	—	GA
Plastic Pipe Acid-resistant Gaskets	Acid-resistant fluororubber gasket (Viton) for plastic piping such as PVC. The allowable temperature and pressure range is the same as those of Valqua #4010 with special formulation D2470.	●	●	●	—	—	GC
Plastic Pipe Alkali-resistant Gaskets	Alkali-resistant fluororubber gasket (Viton) for plastic piping such as PVC. The allowable temperature and pressure range is the same as those of Valqua #4010 with special formulation D0970.	●	●	●	—	—	GD
Metal Pipe Alkali-resistant Gaskets	Alkali-resistant (fluorocarbon resin containing carbon) gasket for metal piping. The allowable temperature and pressure range is the same as those of Valqua #7026.	●	●	—	—	—	GF
Hygienic Use Silicone Rubber Gaskets	For Hygienic (sizes 15 to 25, and 40 to 125 mm (0.5 to 1, and 1.5 to 5 in.)), change the material of the gasket fixed between the measuring pipe and piping connection adapter from ethylene propylene diene rubber (EPDM) to silicone rubber. Select optional code GH, when the fluid temperature is 120 °C (248 °F) or more (Maximum: 160 °C (320 °F)), (Except optional code 3A.)	—	—	—	●	●	GH

●Details: Applicable Condition for Grounding Devices and Gaskets

●: Applicable —: Not Applicable

Lining	PFA Lining																Ceramics Tube					
	Flange																Wafer	Clamp Union Butt Weld Joint	Union Joint		Wafer	
	Except for High Pressure Type												High Pressure Type		Not selected	GF			Not selected	GA GC GD GF		
Size mm (inch)	2.5 to 15 (0.1 to 0.5)		25 to 125 (1 to 5)		150 to 200 (6 to 8)		250 to 400 (10 to 16)		500 (20)		25 to 100 (1 to 4)		2.5 to 200 (0.1 to 8)				15 to 125 (0.5 to 5)				2.5 to 10 (0.1 to 0.4)	
Code (Gasket) Code (Grounding Device)	Not selected	GA GC GD	Not selected	GA GC GD	Not selected	GA GC GD	Not selected	GA GC GD	Not selected	GA GC GD	Not selected	GA GC GD	Not selected	GA GC GD	Not selected	GA GC GD	Not selected	GH	Not selected	GF	Not selected	GA GC GD GF
Not selected	●	—	●	—	●	—	●	—	●	—	—	—	●	—	●	●	●	●	●	●	—	
GRL	●	—	●	—	●	—	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—	
GRN	—	●	●	●	●	●	●	—	●	—	●	—	—	●	—	—	—	—	—	●	●	
GRH	●	—	●	—	●	—	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—	
GRJ	—	●	●	●	●	●	●	—	●	—	—	—	—	●	—	—	—	—	—	●	●	
GRV	●	—	●	—	●	—	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—	
GRW	—	●	●	●	●	●	●	—	—	—	—	—	—	●	—	—	—	—	—	●	●	
GRP	●	●	●	●	●	●	—	—	—	—	—	—	●	●	—	—	—	—	—	●	●	
GRT	●	●	●	●	●	●	—	—	—	—	—	—	●	●	—	—	—	—	—	●	●	
GBP	—	—	—	—	●	—	●	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
GBT	—	—	—	—	●	—	●	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

**•Direction of Cable Entry, Waterproof, Plastic and Flameproof Glands**

●: Applicable ○: Applicable (except Explosion Protection) —: Not Applicable

Item	Specification and Applicable Condition	Applicable Model						Code
		General-purpose Explosion protection		Submersible	Hygienic Hygienic with Explosion protection		General-purpose Explosion protection	
		Integral Flowmeter	Remote Sensor	Remote Sensor	Integral Flowmeter	Remote Sensor	Remote Transmitter	
Cable Entry Direction Change	Rotate the transmitter of integral flowmeter or the terminal box of remote sensor and change the direction of the cable entry (+90, +180, or -90 degree). For specifying procedures, read "Ordering Information".	●	●	●	●	●	—	RH
Waterproof Glands (Type G)	2 pcs. of waterproof gland For cable entry, selection of JIS G1/2 female thread is necessary.	—	○	—	—	○	—	EG
Waterproof Glands (Type G2)	2 pcs. of waterproof gland, and a blanking plug For cable entry, selection of JIS G1/2 female thread is necessary.	○	—	—	○	—	—	EG2
Waterproof Glands (Type G3)	3 pcs. of waterproof gland For cable entry, selection of JIS G1/2 female thread is necessary.	○	—	—	○	—	—	EG3
Waterproof Glands (Type G4)	4 pcs. of waterproof gland, and a blanking plug For cable entry, selection of JIS G1/2 female thread is necessary.	—	—	—	—	—	○	EG4
Waterproof Glands (Type G5)	5 pcs. of waterproof gland For cable entry, selection of JIS G1/2 female thread is necessary.	—	—	—	—	—	○	EG5
Waterproof Glands (Type U)	2 pcs. of waterproof gland with union joint For cable entry, selection of JIS G1/2 female thread is necessary.	—	○	—	—	○	—	EU
Waterproof Glands (Type U2)	2 pcs. of waterproof gland with union joint, and a blanking plug For cable entry, selection of JIS G1/2 female thread is necessary.	○	—	—	○	—	—	EU2
Waterproof Glands (Type U3)	3 pcs. of waterproof gland with union joint For cable entry, selection of JIS G1/2 female thread is necessary.	○	—	—	○	—	—	EU3
Waterproof Glands (Type U4)	4 pcs. of waterproof gland with union joint, and a blanking plug For cable entry, selection of JIS G1/2 female thread is necessary.	—	—	—	—	—	○	EU4
Waterproof Glands (Type U5)	5 pcs. of waterproof gland with union joint For cable entry, selection of JIS G1/2 female thread is necessary.	—	—	—	—	—	○	EU5
Plastic Glands (Type P)	2 pcs. of plastic gland For cable entry, selection of JIS G1/2 female thread is necessary.	—	○	—	—	○	—	EP
Plastic Glands (Type P2)	2 pcs. of plastic gland, and a blanking plug For cable entry, selection of JIS G1/2 female thread is necessary.	○	—	—	○	—	—	EP2
Plastic Glands (Type P3)	3 pcs. of plastic gland For cable entry, selection of JIS G1/2 female thread is necessary.	○	—	—	○	—	—	EP3
Plastic Glands (Type P4)	4 pcs. of plastic gland, and a blanking plug For cable entry, selection of JIS G1/2 female thread is necessary.	—	—	—	—	—	○	EP4
Plastic Glands (Type P5)	5 pcs. of plastic gland For cable entry, selection of JIS G1/2 female thread is necessary.	—	—	—	—	—	○	EP5
Waterproof Glands (Type W)	2 pcs. of waterproof gland with JIS G3/4 female For cable entry, selection of JIS G1/2 female thread is necessary.	—	○	—	—	○	—	EW

**●Direction of Cable Entry, Waterproof, Plastic and Flameproof Glands (Continued)**

●: Applicable ○: Applicable (except Explosion Protection) —: Not Applicable

Item	Specification and Applicable Condition	Applicable Model						Code
		General-purpose Explosion protection		Submersible	Hygienic Hygienic with Explosion protection		General-purpose Explosion protection	
		Integral Flowmeter	Remote Sensor		Remote Sensor	Integral Flowmeter		
Flameproof* gland 1 piece	1 piece of Flameproof gland with JIS G1/2 female. For cable entry, selection of M20 female thread is necessary.	●	—	—	●	—	—	V51
Flameproof* gland 2 pcs.	2 pcs. of Flameproof gland with JIS G1/2 female. For cable entry, selection of M20 female thread is necessary.	●	●	—	●	●	—	V52
Flameproof* gland 3 pcs.	3 pcs. of Flameproof gland with JIS G1/2 female. For cable entry, selection of M20 female thread is necessary.	●	—	—	●	—	●	V53
Flameproof* gland 4 pcs.	4 pcs. of Flameproof gland with JIS G1/2 female. For cable entry, selection of M20 female thread is necessary.	—	—	—	—	—	●	V54
Flameproof* gland 5 pcs.	5 pcs. of Flameproof gland with JIS G1/2 female. For cable entry, selection of M20 female thread is necessary.	—	—	—	—	—	●	V55

\*: The thread of connection between AXG and Flameproof gland is M20, and the thread of connection between Flameproof gland and CABLE is G1/2.

●Certificate, Calibration, and Various Test

●: Applicable ○: Applicable (except Explosion Protection) —: Not Applicable

Item	Specification and Applicable Condition	Applicable Model						Code
		General-purpose Explosion protection		Submersible	Hygienic Hygienic with Explosion protection		General-purpose Explosion protection	
		Integral Flowmeter	Remote Sensor	Remote Sensor	Integral Flowmeter	Remote Sensor	Remote Transmitter	
Material Certificate	Material certificate is issued. Target Parts: PFA Lining: Measuring Pipe, Electrodes, Grounding Devices (Grounding Rings Plate Type, Grounding Rings Electrode Type, or Built-in Grounding Electrodes), Flanges (for flange type), Mini-flanges (for wafer type), Adapters for Hygienic Ceramics Tube: Grounding Devices (Grounding Rings Plate Type, or Grounding Rings Electrode Type), Union Joint	●	●	●	●	●	—	M01
Material Certificate (EN 10204-3.1)	For sizes 2.5 to 400 mm (0.1 to 16 in.), except for high pressure type, material certificates according to EN 10204 Type 3.1 with a dedicated cover is issued. The target parts are the same as optional code M01.	●	●	●	●	●	—	E01
Calibration Certificate (Level 2)	The Declaration and the Calibration Equipment List are issued.	●	●	●	●	●	●	L2
Calibration Certificate (Level 3)	The Declaration and the Primary Standard List are issued.	●	●	●	●	●	●	L3
Calibration Certificate (Level 4)	The Declaration and the Yokogawa Measuring Instruments Control System are issued.	●	●	●	●	●	●	L4
Specified Span Five-point Calibration	With the customer's specified span, the actual flow inspection of 5 points around 0, 25, 50, 75, and 100% is performed. Instead of the flow inspection at the standard flow rate of 2 m/s (6.56 ft/s), the result of flow inspection with the customer specified span is described in a test certificate (QIC). For specifiable spans, read "Ordering Information".	●	●	●	●	●	—	SC
Hydrostatic Test	The water pressure depending on the process connection is applied to the lining (measuring pipe) for 10 minutes to check that there is no leakage, and the result is described in a test certificate (QIC). For the test water pressure on each process connection, see the separate table.	●	●	●	—	—	—	T01
Withstand Voltage Test (Type 1)	Withstand voltage test on remote sensor (sizes 2.5 to 400 mm (0.1 to 16 in.)) is performed, and the result is described in a test certificate (QIC). WT1: Between excitation current terminal and ground terminal: 1000 V AC for 1 minute	—	○	●	—	○	—	WT1
Withstand Voltage Test (Type 2)	WT2: Between excitation current terminal and ground terminal: 1500 V AC for 1 minute Between signal terminals and excitation current terminal: 1500 V AC for 1 minute	—	○	●	—	○	—	WT2
PMI Test (Type 1)	Fluorescent X-ray analysis of nickel, chromium and molybdenum is performed on parts made of stainless steel or nickel alloy, and a test report is issued. For applicable condition, see the separate table.	●	●	●	—	—	—	PM1
PMI Test (Type 2)	Target Parts: PM1: Grounding Rings (Plate Type)	●	●	●	—	—	—	PM2
PMI Test (Type 3)	PM2: Flange (Stainless steel only) PM3: Measuring Pipe	●	●	●	●	●	—	PM3
Liquid Penetrant Test	Liquid penetrant test on welded parts of flanges (for flange type) or mini-flanges (for wafer type) is performed and a test report is issued. For applicable condition, see the separate table.	●	●	●	—	—	—	PT

●Details: Water Pressure of Hydrostatic Test (Optional Code T01):

Process connection code	Process connection	Size: mm (in.)	Water pressure (MPa)
#A1	ASME Class 150	2.5 to 300 (0.1 to 12)	3.0
		350 to 500 (14 to 20)	1.5
#A2	ASME Class 300	2.5 to 50 (0.1 to 2)	6.0
		65 to 300 (2.5 to 12)	3.0
#A4	ASME Class 600	25 to 100 (1 to 4)	15.5
#E1	EN PN10	200 to 500 (8 to 20)	1.5
#E2	EN PN16	65 to 300 (2.5 to 12)	2.4
		500 (20)	1.5
#E4	EN PN40	2.5 to 50 (0.1 to 2)	6.0
#G1	JIS F12	80 to 300 (3 to 12)	1.8
		350 to 400 (14 to 16)	1.5
#J1	JIS 10K	2.5 to 300 (0.1 to 12)	2.1
		350 to 400 (14 to 16)	1.5
#J2	JIS 20K	2.5 to 50 (0.1 to 2)	6.0
		65 to 300 (2.5 to 12)	3.0
#P1	JPI Class 150	2.5 to 300 (0.1 to 12)	3.0
		350 to 400 (14 to 16)	1.5
#S1	AS Table D	50 to 400 (2 to 16)	1.1
#S2	AS Table E	50 to 300 (2 to 12)	2.1
GU#	Union Joint	2.5 to 10 (0.1 to 0.4)	6.0

●Details: Applicable Condition for PMI Test  
○Grounding Rings (Plate Type) (Optional Code PM1)

●: Applicable —: Not Applicable

Lining	PFA Lining				Ceramics Tube		
	Flange		Wafer	Clamp Union Butt Weld Joint	Union Joint	Wafer	
Process Connection							
Code (Grounding Device)	Size mm (inch)	2.5 to 400 (0.1 to 16)	500 (20)	2.5 to 200 (0.1 to 16)	15 to 125 (0.5 to 5)	2.5 to 10 (0.1 to 0.4)	15 to 200 (0.5 to 8)
Not selected		—	—	—	—	—	—
GRL		●	—	●	—	—	—
GRN		●	—	●	—	—	●
GRH		●	—	●	—	—	—
GRJ		●	—	●	—	—	●
GRV		—	—	—	—	—	—
GRW		—	—	—	—	—	—

○Flange (Optional Code PM2)

●: Applicable —: Not Applicable

Lining		PFA Lining						Ceramics Tube		
Process Connection		Flange					Wafer	Clamp Union Butt Weld Joint	Union Joint	Wafer
Size mm (inch)	Code (Process Connection)	B##	C##	D##	E##	P##	A##	H## J## K##	G##	A##
	2.5 (0.1)		●	—	●	—	●	—	—	—
5 (0.2)		●	—	●	—	●	—	—	—	—
10 (0.4)		●	—	●	—	●	—	—	—	—
15 (0.5)		●	—	—	—	●	—	—	—	—
25 (1)		●	—	—	●	●	—	—	—	—
32 (1.25)		●	—	—	—	—	—	—	—	—
40 (1.5)		●	—	—	●	●	—	—	—	—
50 (2)		●	—	—	●	●	—	—	—	—
65 (2.5)		●	—	—	—	—	—	—	—	—
80 (3)		●	—	—	●	●	—	—	—	—
100 (4)		●	—	—	●	●	—	—	—	—
125 (5)		●	—	—	—	—	—	—	—	—
150 (6)		●	—	—	—	●	—	—	—	—
200 (8)		●	—	—	—	●	—	—	—	—
250 (10)		●	—	—	—	●	—	—	—	—
300 (12)		●	—	—	—	●	—	—	—	—
350 (14)		●	—	—	—	●	—	—	—	—
400 (16)		●	—	—	—	●	—	—	—	—
500 (20)		—	—	—	—	—	—	—	—	—

○Measuring Pipe (Optional Code PM3)

●: Applicable —: Not Applicable

Lining Size mm (inch)	Process Connection	PFA Lining			Ceramics Tube	
		Flange	Wafer	Clamp Union Butt Weld Joint	Union Joint	Wafer
2.5 (0.1)		●	●	—	—	—
5 (0.2)		●	●	—	—	—
10 (0.4)		●	●	—	—	—
15 (0.5)		●	●	●	—	—
25 (1)		●	●	●	—	—
32 (1.25)		●	●	●	—	—
40 (1.5)		●	●	●	—	—
50 (2)		●	●	●	—	—
65 (2.5)		●	●	●	—	—
80 (3)		●	●	●	—	—
100 (4)		●	●	●	—	—
125 (5)		●	●	●	—	—
150 (6)		●	●	—	—	—
200 (8)		●	●	—	—	—
250 (10)		●	—	—	—	—
300 (12)		●	—	—	—	—
350 (14)		●	—	—	—	—
400 (16)		●	—	—	—	—
500 (20)		—	—	—	—	—

●Details: Applicable Condition for Liquid Penetrant Test (Optional Code PT)

●: Applicable —: Not Applicable

Lining Size mm (inch)	Process Connection Code (Process Connection)	PFA Lining						Ceramics Tube		
		Flange					Wafer	Clamp Union Butt Weld Joint	Union Joint	Wafer
		B##	C##	D##	E##	P##				
2.5 (0.1)		—	—	—	—	—	—	—	—	—
5 (0.2)		—	—	—	—	—	—	—	—	—
10 (0.4)		—	—	—	—	—	—	—	—	—
15 (0.5)		—	—	—	—	—	—	—	—	—
25 (1)		●	—	—	●	●	—	—	—	—
32 (1.25)		●	—	—	—	—	—	—	—	—
40 (1.5)		●	—	—	●	●	—	—	—	—
50 (2)		●	●	—	●	●	—	—	—	—
65 (2.5)		●	●	—	—	—	—	—	—	—
80 (3)		●	●	—	●	●	—	—	—	—
100 (4)		●	●	—	●	●	—	—	—	—
125 (5)		●	●	—	—	—	—	—	—	—
150 (6)		●	●	—	—	●	●	—	—	—
200 (8)		●	●	—	—	●	●	—	—	—
250 (10)		●	●	—	—	●	—	—	—	—
300 (12)		●	●	—	—	●	—	—	—	—
350 (14)		●	●	—	—	●	—	—	—	—
400 (16)		●	●	—	—	●	—	—	—	—
500 (20)		●	●	—	—	—	—	—	—	—

## ■ ACCESSORIES

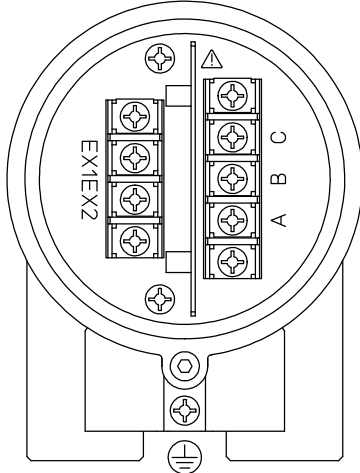
- Centering Device (wafer type only): 1 set
  - Blanking Plug: 1 to 2 pcs.
  - Gasket (sensor side): 2 sheets
  - Mounting Bracket (transmitter only): 1 set
- Note: Accessories differ depending on specifications to be selected.

## ■ TERMINAL CONFIGURATION

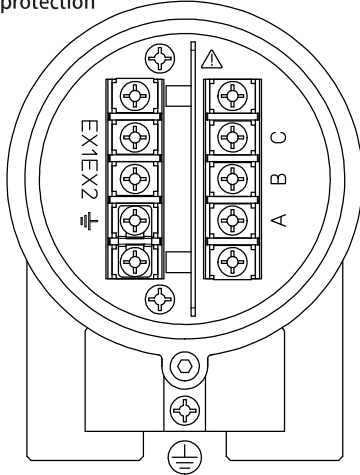
### Remote Sensor:

<To be wired to Remote Transmitter>

Non Explosion Protection



Explosion protection



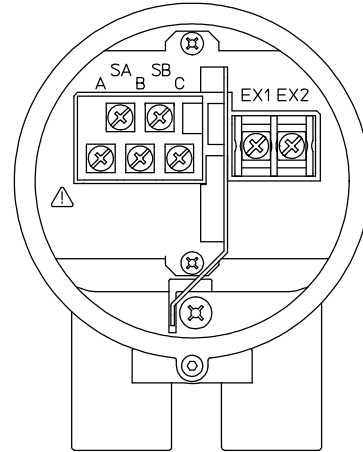
Terminal Symbol	Description
A B C	Flow Signal Output
EX1 EX2	Excitation Current Input
	Protective Grounding (Outside of the terminal box)
	Functional grounding (Only for explosion proof type)

F28.ai

Note: When submersible use or optional code DHC is selected, waterproof glands with union joints and cables are attached.

### Remote Transmitter:

<To be wired to Remote Sensor>



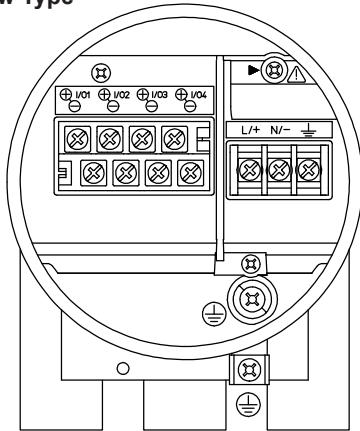
Terminal Symbol	Description
SA SB A B C	Flow Signal Input
EX1 EX2	Excitation Current Output

F29.ai

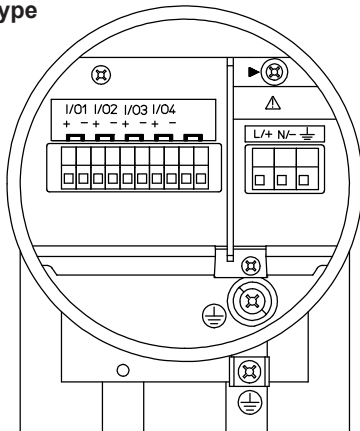
**Integral Flowmeter and Remote Transmitter:**

<To be wired to Power Supply and I/Os>

**M4 Screw Type**



**Clamp Type**



**Recommended Cable for Excitation, Power and Input / Output:**

- JIS C 3401 control cable equivalent
- JIS C 3312 power cable equivalent
- 14 AWG Belden 8720 equivalent

Outer Diameter:

Without gland:

6.5 to 12 mm (0.26 to 0.47 in.)

With waterproof gland (optional code EG, EG#, EU, EU#, EW):

For excitation cable:

10.5 or 11.5 mm (0.41 or 0.45 in.)

For power and input/output cable:

7.5 to 12 mm (0.30 to 0.47 in.)

With plastic gland (optional code EP, EP#):

6 to 12 mm (0.24 to 0.47 in.)

Nominal Cross Section:

Single wire: 0.5 to 2.5 mm<sup>2</sup>

Stranded wire: 0.5 to 1.5 mm<sup>2</sup>

**Excitation Cable for Submersible Use and Optional Code DHC:**

- Heat resistant vinyl resin sheath cable
- Outer diameter ø10.5 mm (0.41 in.)

Terminal Symbol	Description
▶	Shorting Screw (Need to be fixed for normal operation)
⏏	Functional Grounding
N/ L/+	Power Supply
I/O4 - I/O4 + I/O3 - I/O3 + I/O2 - I/O2 + I/O1 - I/O1 +	Selected Input/Output (Note)
⏏	Protective Grounding (Inside and outside of the terminal box)

F30.ai

Note: Read "Functions" for the input/output signal terminals.

For AXG4A FOUNDATION fieldbus type remote transmitter, read general specifications (GS 01E21F02-01E).

For AXG1A remote transmitter, read general specifications (GS 01E22C01-01EN).

For AXFA11G remote transmitter, read general specifications (GS 01E20C01-01E).

## DIMENSIONAL DRAWINGS

### (1) Integral Flowmeter, Remote Sensor

- Wafer (PFA Lining)

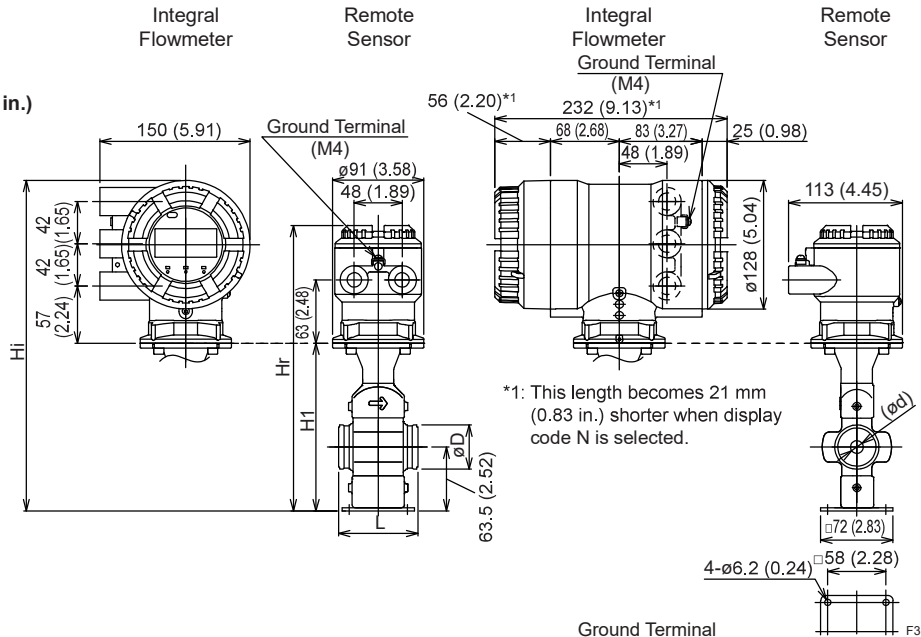
Unit: mm (approx. in.)

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

AXG002  
AXG005  
AXG010  
AXG015

□□□□A□□A

Size Code      Process Connection Code      Lining Code

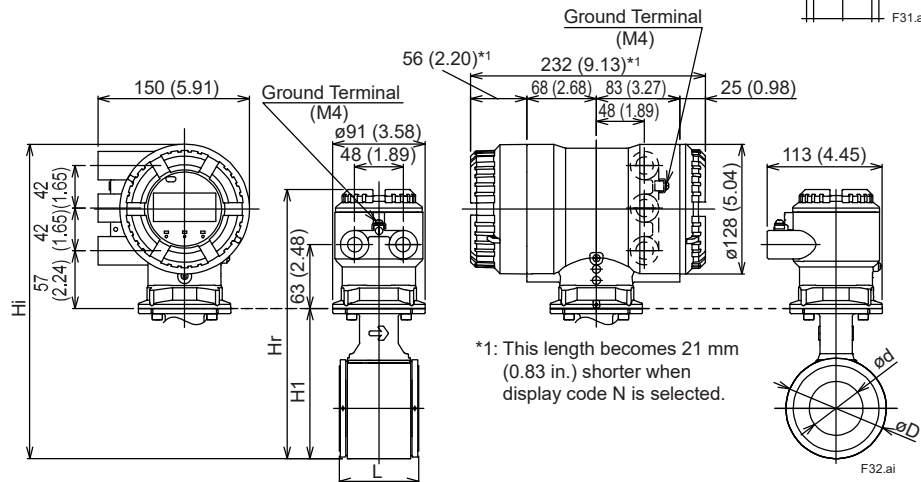


Size 25 to 125 mm (1 to 5 in.)

AXG025  
AXG032  
AXG040  
AXG050  
AXG065  
AXG080  
AXG100  
AXG125

□□□□A□□A

Size Code      Process Connection Code      Lining Code

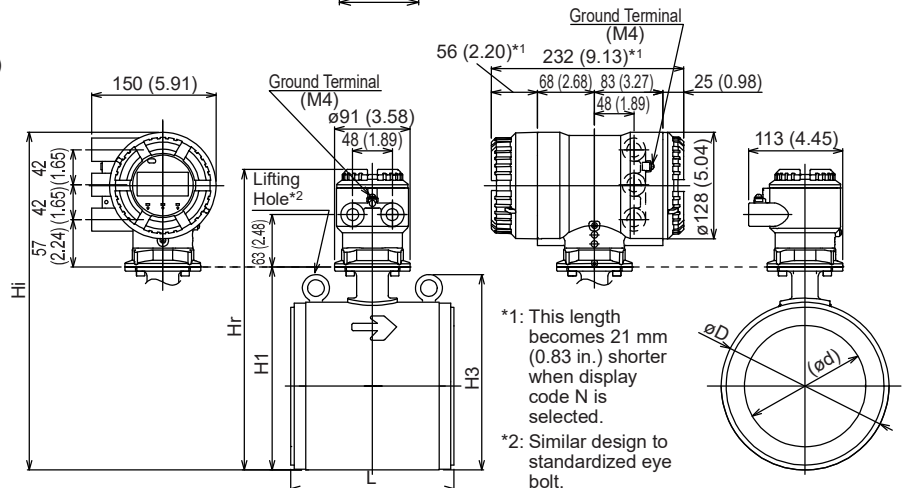


Size 150 to 200 mm (6 to 8 in.)

AXG150  
AXG200

□□□□A□□A

Size Code      Process Connection Code      Lining Code



Unit: mm (approx. in.)

Model	Process Connection Code	AA1, AA2, AJ1, AJ2													
		AE4							AE2						
		-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Size Code	Size	AP1					AP1					AG1			
		002	005	010	015	025	032	040	050	065	080	100	125	150	200
		(0.1)	(0.2)	(0.4)	(0.5)	(1)	(1.25)	(1.5)	(2)	(2.5)	(3)	(4)	(5)	(6)	(8)
Lining Code	A	AP1					AP1					AP1			
		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 Sensor	Lay Length (*1) L	79 (3.11)	79 (3.11)	79 (3.11)	79 (3.11)	58 (2.30)	68 (2.69)	68 (2.69)	78 (3.09)	98 (3.87)	118 (4.66)	148 (5.84)	198 (7.81)	197 (7.74)	247 (9.70)
	Outer Diameter øD	44 (1.73)	44 (1.73)	44 (1.73)	44 (1.73)	68 (2.66)	73 (2.87)	86 (3.39)	99 (3.90)	117 (4.61)	129 (5.08)	155 (6.10)	183 (7.20)	202 (7.94)	252 (9.91)
Integral Flowmeter	Lining Inner Diameter ød	2 (0.09)	5 (0.19)	8 (0.30)	13 (0.51)	24 (0.93)	29 (1.13)	37 (1.44)	49 (1.94)	61 (2.40)	73 (2.87)	97 (3.82)	121 (4.76)	145 (5.72)	194 (7.65)
	Height H1	167 (6.57)	167 (6.57)	167 (6.57)	167 (6.57)	110 (4.33)	116 (4.57)	129 (5.08)	148 (5.83)	165 (6.50)	175 (6.89)	201 (7.91)	230 (9.06)	244 (9.62)	294 (11.59)
	Height H3	-	-	-	-	-	-	-	-	-	-	-	-	235 (9.26)	285 (11.22)
Remote Sensor	Maximum Height Hr	284 (11.18)	284 (11.18)	284 (11.18)	284 (11.18)	227 (8.94)	233 (9.17)	246 (9.69)	265 (10.43)	282 (11.10)	292 (11.50)	318 (12.52)	347 (13.66)	362 (14.24)	412 (16.21)
	Approx. Weight, Unit: kg (lb) (*2)	2.7 (6.0)	2.7 (6.0)	2.7 (6.0)	2.7 (6.0)	2.2 (4.9)	2.4 (5.3)	2.6 (5.7)	3.2 (7.1)	3.9 (8.6)	4.6 (10.1)	6.3 (13.9)	10.5 (23.2)	15 (33.1)	22 (48.6)
Integral Flowmeter	Maximum Height Hi	329 (12.95)	329 (12.95)	329 (12.95)	329 (12.95)	272 (10.71)	278 (10.94)	291 (11.46)	310 (12.20)	327 (12.87)	337 (13.27)	363 (14.29)	392 (15.43)	406 (16.00)	456 (17.97)
	Approx. Weight, Unit: kg (lb)	5.3 (11.7)	5.3 (11.7)	5.3 (11.7)	5.3 (11.7)	4.8 (10.6)	4.9 (10.8)	5.1 (11.2)	5.7 (12.6)	6.4 (14.1)	7.2 (15.9)	8.8 (19.4)	13.1 (28.9)	17 (37.5)	25 (55.2)
Gaskets (BSC, BSF) (*1)		+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)
Grounding rings thin type (GRL, GRH, GRV) (*1)		+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)
Grounding rings thin type (GRL, GRH, GRV) and gaskets (BSC, BSF) (*1)		+8 (+0.31)	+8 (+0.31)	+8 (+0.31)	+8 (+0.31)	+8 (+0.31)	+8 (+0.31)	+8 (+0.31)	+8 (+0.31)	+8 (+0.31)	+8 (+0.31)	+8 (+0.31)	+8 (+0.31)	+8 (+0.31)	+8 (+0.31)
Grounding rings thick type (GRN, GRJ, GRW) with gaskets (GA, GC, GD) (*1)		+8 (+0.31)	+8 (+0.31)	+8 (+0.31)	+8 (+0.31)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+12 (+0.47)	+12 (+0.47)
Grounding rings thick type (GRN, GRJ, GRW) with gaskets (GA, GC, GD) and gaskets (BSC, BSF) (*1)		+14 (+0.55)	+14 (+0.55)	+14 (+0.55)	+14 (+0.55)	+16 (+0.63)	+16 (+0.63)	+16 (+0.63)	+16 (+0.63)	+16 (+0.63)	+16 (+0.63)	+16 (+0.63)	+16 (+0.63)	+18 (+0.71)	+18 (+0.71)
Grounding rings electrode type (GRP, GRT) (*1)		+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+34 (+1.34)	+34 (+1.34)
Grounding rings electrode type (GRP, GRT) and gaskets (BSC, BSF) (*1)		+34 (+1.34)	+34 (+1.34)	+34 (+1.34)	+34 (+1.34)	+34 (+1.34)	+34 (+1.34)	+34 (+1.34)	+34 (+1.34)	+34 (+1.34)	+34 (+1.34)	+34 (+1.34)	+34 (+1.34)	+38 (+1.50)	+38 (+1.50)
Grounding rings electrode type (GRP, GRT) with gaskets (GA, GC, GD) (*1)		+30 (+1.18)	+30 (+1.18)	+30 (+1.18)	+30 (+1.18)	+32 (+1.26)	+32 (+1.26)	+32 (+1.26)	+32 (+1.26)	+32 (+1.26)	+32 (+1.26)	+32 (+1.26)	+32 (+1.26)	+38 (+1.50)	+38 (+1.50)
Grounding rings electrode type (GRP, GRT) with gaskets (GA, GC, GD) and gaskets (BSC, BSF) (*1)		+36 (+1.42)	+36 (+1.42)	+36 (+1.42)	+36 (+1.42)	+38 (+1.50)	+38 (+1.50)	+38 (+1.50)	+38 (+1.50)	+38 (+1.50)	+38 (+1.50)	+38 (+1.50)	+38 (+1.50)	+44 (+1.73)	+44 (+1.73)

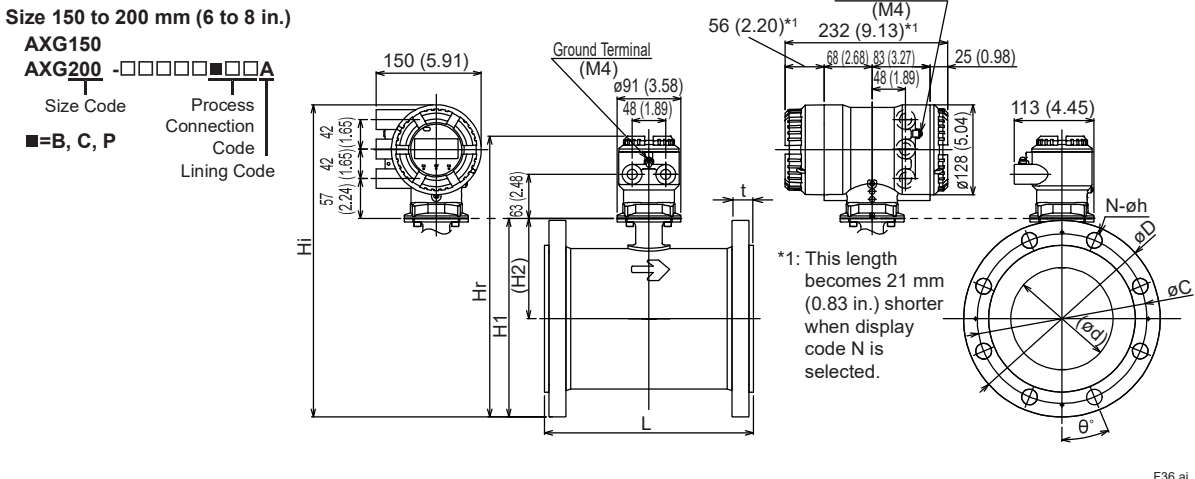
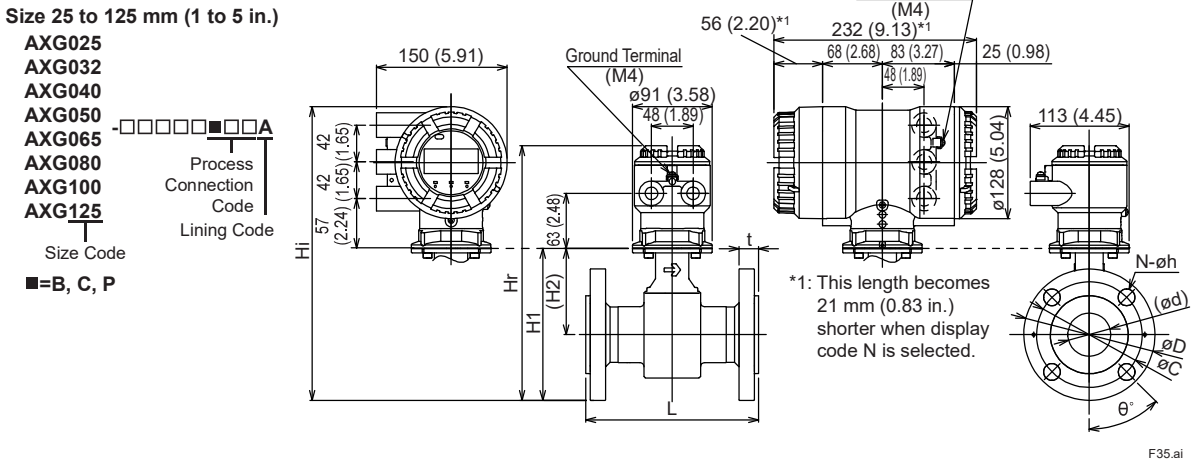
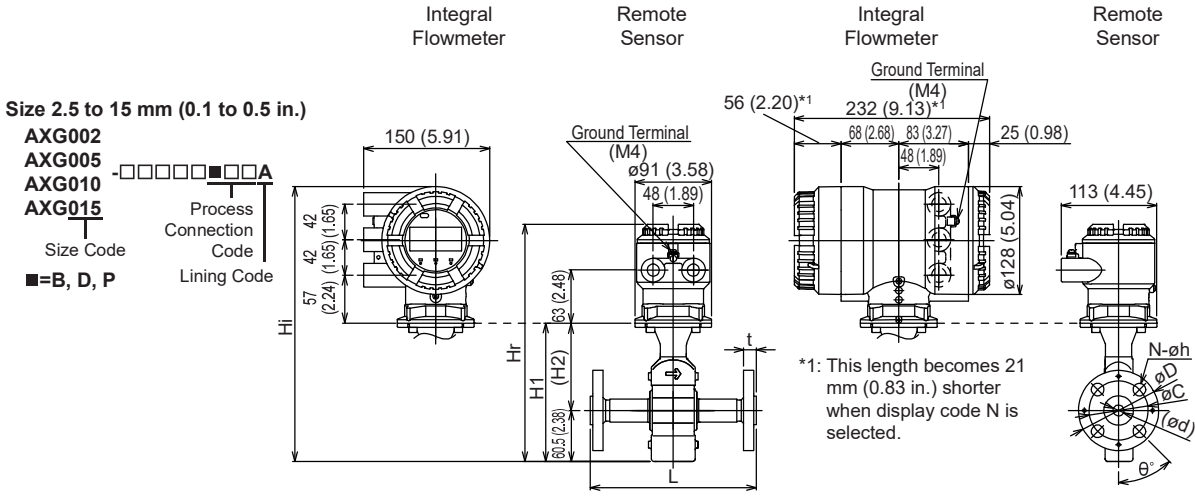
- \*1: Add the value above (which is the total of both ends) to the lay length "L" when selecting optional grounding rings with/without gaskets.
- \*2: When submersible use or optional code DHC is selected, waterproof glands with union joints and cables are attached. When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.

**Additional weight for FM (USA) Flameproof (FF2, FJ2, FT2) and FM (Canada) Flameproof (CF2, CJ2, CT2)**

Size	2.5	5	10	15	25	32	40	50	65	80	100	125	150	200
Lining Code	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Wafer	-	-	-	-	0.1 (0.22)	0.1 (0.22)	0.2 (0.44)	0.3 (0.66)	0.5 (1.10)	0.8 (1.76)	1.3 (2.87)	1.8 (3.97)	2 (4.41)	4 (8.82)
Approx. Additional Weight, Unit: kg (lb)	-	-	-	-	0.1 (0.22)	0.1 (0.22)	0.2 (0.44)	0.3 (0.66)	0.5 (1.10)	0.8 (1.76)	1.3 (2.87)	1.8 (3.97)	2 (4.41)	4 (8.82)

● Flange (PFA Lining, excluding High Pressure Type)

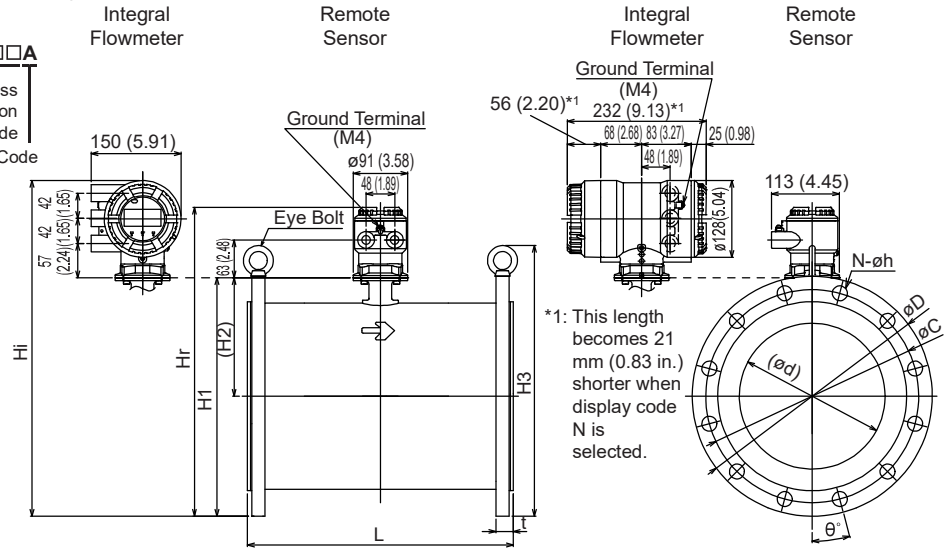
Unit: mm (approx. in.)



Unit: mm (approx. in.)

Size 250 to 400 mm (10 to 16 in.)

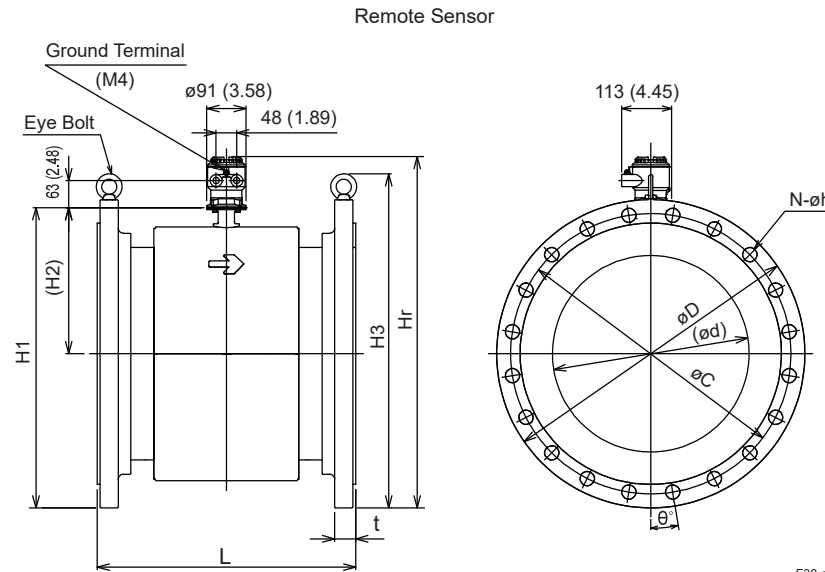
**AXG250**  
**AXG300** -□□□□□■□□□**A**  
**AXG350**  
**AXG400**  
 Size Code      Process Connection Code  
 ■=B, C, P      Lining Code



F37.ai

Size 500 mm (20 in.)

**AXG500** -□□□□□■□□□**A**  
 Size Code      Process Connection Code  
 ■=B, C      Lining Code



F38.ai

○ Flange, ASME Class 150

Unit: mm (approx. in.)

Model	Process Connection Code	BA1																			
		PA1										CA1									
		002	006	010	016	025	032	040	050	065	080	100	125	150	200	250	300	350	400	500	
	Size Code	2.5 (0.1)	6 (0.2)	10 (0.4)	16 (0.5)	25 (1)	32 (1.25)	40 (1.5)	50 (2)	65 (2.5)	80 (3)	100 (4)	125 (5)	150 (6)	200 (8)	250 (10)	300 (12)	350 (14)	400 (16)	500 (20)	
	Size	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
	Lining Code	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Remote Sensor	Lay Length (*1) (*3)	L	148 (5.83)	148 (5.83)	148 (5.83)	198 (7.80)	198 (7.78)	198 (7.78)	198 (7.78)	198 (7.78)	198 (7.78)	198 (7.78)	248 (9.74)	248 (9.74)	298 (11.71)	348 (13.68)	446 (17.54)	496 (19.51)	546 (21.48)	596 (23.44)	600 (23.62)
	Flange Outer Diameter	øD	90 (3.54)	90 (3.54)	90 (3.54)	110 (4.33)	115 (4.53)	125 (4.92)	150 (5.91)	180 (7.09)	190 (7.48)	230 (9.06)	255 (10.04)	280 (11.02)	345 (13.58)	405 (15.94)	485 (19.09)	535 (21.06)	595 (23.43)	700 (27.56)	
	Flange Thickness (incl. lining flare)	t	19.2 (0.76)	19.2 (0.76)	19.2 (0.76)	16.2 (0.64)	18.7 (0.74)	19.3 (0.76)	20.9 (0.82)	25.7 (0.89)	27.3 (1.01)	27.3 (1.07)	27.3 (1.07)	30.4 (1.20)	33.5 (1.32)	35.6 (1.40)	37.2 (1.46)	40.9 (1.61)	42.5 (1.67)	48.6 (1.91)	
	Lining Inner Diameter	ød	2 (0.09)	5 (0.19)	8 (0.30)	13 (0.51)	24 (0.93)	29 (1.13)	37 (1.44)	49 (1.94)	61 (2.40)	73 (2.87)	97 (3.82)	121 (4.76)	145 (5.72)	194 (7.65)	243 (9.55)	292 (11.51)	323 (12.73)	374 (14.70)	459 (18.07)
	Bolt Circle Diameter	øC	60.3 (2.37)	60.3 (2.37)	60.3 (2.37)	60.3 (2.37)	79.4 (3.13)	88.9 (3.50)	98.4 (3.87)	120.7 (4.75)	139.7 (5.50)	152.4 (6.00)	190.5 (7.50)	215.9 (8.50)	241.3 (9.50)	298.5 (11.75)	362.0 (14.25)	431.8 (17.00)	476.3 (18.75)	539.8 (21.25)	635.0 (25.00)
	Bolt Hole Interval	θ°	45	45	45	45	45	45	45	45	45	45	22.5	22.5	22.5	22.5	15	15	15	11.25	9
	Bolt Hole Diameter	øh	15.9 (0.63)	15.9 (0.63)	15.9 (0.63)	15.9 (0.63)	15.9 (0.63)	15.9 (0.63)	15.9 (0.63)	19.1 (0.75)	19.1 (0.75)	19.1 (0.75)	19.1 (0.75)	22.2 (0.87)	22.2 (0.88)	22.2 (0.88)	25.4 (1.00)	25.4 (1.00)	28.6 (1.13)	28.6 (1.13)	31.8 (1.25)
	Number of Bolt Holes	N	4	4	4	4	4	4	4	4	4	4	8	8	8	8	12	12	12	16	20
	Height	H1	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	135 (5.31)	144 (5.67)	149 (5.87)	174 (6.85)	198 (7.80)	209 (8.23)	239 (9.41)	266 (10.47)	283 (11.12)	340 (13.39)	401 (15.78)	465 (18.32)	512 (20.14)	569 (22.41)	689 (27.12)
	Height	H2	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	80 (3.15)	86 (3.39)	86 (3.39)	99 (3.90)	108 (4.25)	114 (4.49)	124 (4.88)	138 (5.43)	143 (5.61)	168 (6.60)	198 (7.81)	223 (8.77)	244 (9.61)	272 (10.70)	339 (13.34)
Height	H3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	456 (17.95)	536 (21.10)	595 (23.43)	655 (25.79)	760 (29.92)	
Remote Sensor	Maximum Height	Hr	281 (11.06)	281 (11.06)	281 (11.06)	281 (11.06)	252 (9.92)	261 (10.28)	266 (10.47)	291 (11.46)	315 (12.40)	326 (12.83)	356 (14.02)	383 (15.08)	400 (15.74)	457 (18.01)	518 (20.40)	583 (22.94)	629 (24.76)	687 (27.03)	806 (31.74)
	Approx. Weight, Unit: kg (lb) (*2)		3.6 (7.9)	3.6 (7.9)	3.6 (7.9)	3.8 (8.4)	4.2 (9.3)	4.8 (10.6)	5.5 (12.1)	7.4 (16.3)	10.8 (23.8)	13.0 (28.7)	18.2 (40.1)	22.8 (50.3)	31 (68.4)	50 (110.4)	79 (174.4)	109 (240.6)	136 (300.2)	173 (381.9)	233 (514.4)
Integral Flowmeter	Maximum Height	Hi	326 (12.83)	326 (12.83)	326 (12.83)	326 (12.83)	297 (11.69)	306 (12.05)	311 (12.24)	336 (13.23)	360 (14.17)	401 (15.79)	428 (16.85)	445 (17.50)	502 (19.77)	563 (22.16)	627 (24.69)	674 (26.52)	731 (28.79)	-	
	Approx. Weight, Unit: kg (lb) (*2)		6.1 (13.5)	6.1 (13.5)	6.1 (13.5)	6.4 (14.1)	6.7 (14.8)	7.3 (16.1)	8.0 (17.6)	9.9 (21.8)	13.7 (30.2)	15.5 (34.2)	20.7 (45.6)	25.4 (56.0)	34 (75.1)	52 (114.8)	82 (181.0)	111 (245.0)	138 (304.6)	175 (386.3)	-
Grounding rings thin type (GRL, GRH, GRV) (*1)			+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+4 (+0.16)	+4 (+0.16)	+4 (+0.16)	+4 (+0.16)	-
Grounding rings thick type (GRN, GRJ, GRW) (*1)			+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+8 (+0.31)
Grounding rings thick type (GRN, GRJ, GRW) with gaskets (GA, GC, GD) (*1)			+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+12 (+0.47)	+12 (+0.47)	-	-	-	-
Grounding rings electrode type (GRP, GRT) (*1)			+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.34)	+29 (+1.34)	-	-	-	-	-
Grounding rings electrode type (GRP, GRT) with gaskets (GA, GC, GD) (*1)			+32 (+1.26)	+32 (+1.26)	+32 (+1.26)	+32 (+1.26)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+40 (+1.57)	+40 (+1.57)	-	-	-	-

- \*1: Add the value above (which is the total of both ends) to the lay length "L" when selecting optional grounding rings with/without gaskets.
- \*2: When submersible use or optional code DHC is selected, waterproof glands with union joints and cables are attached. When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.
- \*3: The tolerance of the lay length "L" is as follows.
  - Size 2.5 to 200 mm (0.1 to 8 in.): 0/-3 mm
  - Size 250 to 400 mm (10 to 16 in.): 0/-5 mm

Additional weight for FM (USA) Flameproof (FF2, FJ2, FT2) and FM (Canada) Flameproof (CF2, CJ2, CT2)

Size	2.5	6	10	16	25	32	40	50	65	80	100	125	150	200	250	300	350	400
Lining Code	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Flange	-	-	-	-	0.1 (0.22)	0.2 (0.44)	0.2 (0.44)	0.3 (0.66)	0.4 (0.88)	0.4 (0.88)	0.7 (1.54)	0.7 (1.54)	3 (6.61)	4 (8.82)	8 (17.64)	10 (22.05)	18 (39.68)	25 (55.12)
Approx. Additional Weight, Unit: kg (lb)	-	-	-	-	0.1 (0.22)	0.2 (0.44)	0.2 (0.44)	0.3 (0.66)	0.4 (0.88)	0.4 (0.88)	0.7 (1.54)	0.7 (1.54)	3 (6.61)	4 (8.82)	8 (17.64)	10 (22.05)	18 (39.68)	25 (55.12)

○ Flange, ASME Class 300

Unit: mm (approx. in.)

Model	Process Connection Code	BA2																	
		PA2									CA2								
		002	005	010	015	025	032	040	050	065	080	100	125	150	200	250	300		
	Size Code	2.5	5	10	15	25	32	40	50	65	80	100	125	150	200	250	300		
	Size	(0.1)	(0.2)	(0.4)	(0.5)	(1)	(1.25)	(1.5)	(2)	(2.5)	(3)	(4)	(5)	(6)	(8)	(10)	(12)		
	Lining Code	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
Remote Sensor	Lay Length (*1) (*3)	L	148	148	148	198	198	198	198	198	198	248	248	298	348	446	496		
	Flange Outer Diameter	øD	95	95	95	95	125	135	155	165	190	210	255	280	320	380	445	520	
	Flange Thickness (incl. lining flare)	t	20.3	20.3	20.3	17.3	21.9	22.5	24.1	25.7	28.9	32.0	35.2	38.4	41.5	46.2	53.1	56.3	
	Lining Inner Diameter	ød	2	5	8	13	24	29	37	49	61	73	97	121	145	194	243	292	
	Boft Circle Diameter	øC	66.7	66.7	66.7	66.7	88.9	98.4	114.3	127.0	149.2	168.3	200.0	235.0	269.9	330.2	387.4	450.8	
	Boft Hole Interval	ø*	45	45	45	45	45	45	45	22.5	22.5	22.5	22.5	22.5	15	15	11.25	11.25	
	Boft Hole Diameter	øh	15.9	15.9	15.9	15.9	19.1	19.1	22.2	19.1	22.2	22.2	22.2	22.2	25.4	28.6	31.8	31.8	
	Number of Bolt Holes	N	4	4	4	4	4	4	4	8	8	8	8	8	12	12	16	16	
	Height	H1	164	164	164	164	143	154	164	182	203	219	252	278	303	358	421	483	
	Height	H2	104	104	104	104	80	86	86	99	108	114	124	138	143	168	198	223	
Height	H3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	496	571		
Remote Sensor	Maximum Height	Hr	281	281	281	281	260	271	281	299	320	336	369	395	420	475	538	600	
	Approx. Weight, Unit: kg (lb) (*2)		3.9	3.9	3.9	4.0	5.2	6.2	8.0	9.3	13.2	17.2	26.7	35.5	47	71	112	152	
Integral Flowmeter	Maximum Height	Hi	326	326	326	326	305	316	326	344	365	381	414	440	465	520	583	645	
	Approx. Weight, Unit: kg (lb)		6.5	6.5	6.5	6.6	7.8	8.8	10.5	11.8	15.7	19.7	29.2	38.0	50	74	114	155	
Grounding rings thin type (GRL, GRH, GRV) (*1)			+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+4	+4		
Grounding rings thick type (GRN, GRJ, GRW) (*1)			+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6		
Grounding rings thick type (GRN, GRJ, GRW) with gaskets (GA, GC, GD) (*1)			+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+12	+12	-	-	
Grounding rings electrode type (GRP, GRT) (*1)			+28	+28	+28	+28	+29	+29	+29	+29	+29	+29	+29	+29	+34	+34	-	-	
Grounding rings electrode type (GRP, GRT) with gaskets (GA, GC, GD) (*1)			+32	+32	+32	+32	+33	+33	+33	+33	+33	+33	+33	+33	+40	+40	-	-	

- \*1: Add the value above (which is the total of both ends) to the lay length "L" when selecting optional grounding rings with/without gaskets.
- \*2: When submersible use or optional code DHC is selected, waterproof glands with union joints and cables are attached. When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.
- \*3: The tolerance of the lay length "L" is as follows.
  - Size 2.5 to 200 mm (0.1 to 8 in.): 0/-3 mm
  - Size 250 to 400 mm (10 to 16 in.): 0/-5 mm

Additional weight for FM (USA) Flameproof (FF2, FJ2, FT2) and FM (Canada) Flameproof (CF2, CJ2, CT2)

Size	2.5	5	10	15	25	32	40	50	65	80	100	125	150	200	250	300
Lining Code	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Flange	-	-	-	-	0.1	0.2	0.2	0.3	0.4	0.4	0.7	0.7	3	4	8	10
Approx. Additional Weight, Unit: kg (lb)	-	-	-	-	(0.22)	(0.44)	(0.44)	(0.66)	(0.88)	(0.88)	(1.54)	(1.54)	(6.61)	(8.82)	(17.64)	(22.05)

○ Flange, EN PN16, EN PN40

Unit: mm (approx. in.)

Model	Process Connection Code	DE4										BE4										BE2																													
		-					-					-					-					-					-																								
		-					-					-					-					-					-																								
	Size Code	002	005	010	002	005	010	015	025	032	040	060	065	080	100	125	160	200	250	300	500	002	005	010	015	025	032	040	060	065	080	100	125	160	200	250	300	500	065	080	100	125	160	200	250	300	500				
	Size	2.5	5	10	2.5	5	10	16	25	32	40	60	65	80	100	125	160	200	250	300	500	2.5	5	10	16	25	32	40	60	65	80	100	125	160	200	250	300	500	65	80	100	125	160	200	250	300	500				
	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	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
Remote Sensor	Lay Length (*1) (*3)	L	148	148	148	148	148	148	198	198	198	198	198	198	198	248	248	298	348	446	496	600	148	148	148	148	198	198	198	198	198	198	248	248	298	348	446	496	600	198	198	198	248	248	298	348	446	496			
	Flange Outer Diameter	øD	90	90	90	95	95	95	95	115	140	150	165	185	200	220	250	285	340	405	460	715	90	90	90	95	95	95	115	140	150	165	185	200	220	250	285	340	405	460	715	165	185	200	220	250	285	340	405	460	
	Flange Thickness (incl. lining flare)	t	20.0	20.0	20.0	20.0	20.0	20.0	19.0	22.0	21.0	23.0	21.0	23.0	21.0	23.0	25.0	25.5	27.5	30.0	31.0	49.3	20.0	20.0	20.0	20.0	19.0	22.0	21.0	23.0	21.0	23.0	25.0	25.5	27.5	30.0	31.0	49.3	23.0	21.0	23.0	25.0	25.5	27.5	30.0	31.0	49.3				
	Lining Inner Diameter	ød	2	5	8	2	5	8	13	24	29	37	49	61	73	97	121	145	194	243	292	459	2	5	8	2	5	8	13	24	29	37	49	61	73	97	121	145	194	243	292	459	49	61	73	97	121	145	194	243	292
	Bolt Circle Diameter	øC	60	60	60	65	65	65	65	85	100	110	125	145	160	180	210	240	295	355	410	650	60	60	60	65	65	65	85	100	110	125	145	160	180	210	240	295	355	410	650	145	160	180	210	240	295	355	410	650	
	Bolt Hole Interval	øe	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	9	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	9	45	45	45	45	45	45	45	45	9	
	Bolt Hole Diameter	øh	14	14	14	14	14	14	14	14	18	18	18	18	18	18	18	18	18	18	18	33	14	14	14	14	14	14	18	18	18	18	18	18	18	18	18	18	18	18	33	18	18	18	18	18	18	18	18	33	
	Number of Bolt Holes	N	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	10	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	10	4	4	4	4	4	4	4	4	10		
	Height	H1	164	164	164	164	164	164	164	138	156	161	182	201	214	234	263	285	338	401	453	696	164	164	164	164	164	138	156	161	182	201	214	234	263	285	338	401	453	696	182	201	214	234	263	285	338	401	453		
	Height	H2	104	104	104	104	104	104	104	86	86	86	99	108	114	124	138	143	168	198	223	339	104	104	104	104	104	86	86	86	99	108	114	124	138	143	168	198	223	339	99	108	114	124	138	143	168	198	223		
Height	H3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Remote Sensor	Maximum Height	Hr	281	281	281	281	281	281	255	273	278	299	318	331	351	380	402	455	518	570	814	281	281	281	281	281	255	273	278	299	318	331	351	380	402	455	518	570	814	318	299	318	331	351	380	402	455	814			
	Approx. Weight, Unit: kg (lb) (*2)		3.9	3.9	3.9	4.1	4.1	4.1	4.2	4.8	6.4	7.1	8.9	9.9	12.4	15.0	20.7	29	44	73	91	247	3.9	3.9	3.9	4.1	4.1	4.2	4.8	6.4	7.1	8.9	9.9	12.4	15.0	20.7	29	44	73	91	247	8.9	9.9	12.4	15.0	20.7	29	44	73	247	
Integral Flowmeter	Maximum Height	Hi	326	326	326	326	326	326	300	318	323	344	363	376	396	425	447	500	563	615	-	326	326	326	326	326	300	318	323	344	363	376	396	425	447	500	563	615	-	344	363	376	396	425	447	500	563	-			
	Approx. Weight, Unit: kg (lb)		6.5	6.5	6.5	6.7	6.7	6.7	6.8	7.4	9.0	9.6	11.4	12.4	15.0	17.6	23.3	31	46	75	93	-	6.5	6.5	6.5	6.7	6.7	6.8	7.4	9.0	9.6	11.4	12.4	15.0	17.6	23.3	31	46	75	93	-	9.6	11.4	12.4	15.0	17.6	23.3	31	46	-	
Grounding rings thin type (GR, GRH, GRV) (*1)			+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	-	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	-	+2	+2	+2	+2	+2	+2	+2	+2	-				
Grounding rings thick type (GRN, GRJ, GRW) (*1)			+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+8	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+6	+8	+6	+6	+6	+6	+6	+6	+6	+6	+8			
Grounding rings thick type (GRN, GRJ, GRW) with gaskets (GA, GC, GD) (*1)			+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	-	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	+10	-	+10	+10	+10	+10	+10	+10	+10	+10	-			
Grounding rings electrode type (GRP, GRT) (*1)			+28	+28	+28	+28	+28	+28	+28	+29	+29	+29	+29	+29	+29	+29	+29	+29	+29	+29	-	+28	+28	+28	+28	+28	+28	+29	+29	+29	+29	+29	+29	+29	+29	+29	+29	+29	-	+29	+29	+29	+29	+29	+29	+29	+29	-			
Grounding rings electrode type (GRP, GRT) with gaskets (GA, GC, GD) (*1)			+32	+32	+32	+32	+32	+32	+32	+33	+33	+33	+33	+33	+33	+33	+33	+33	+33	+33	-	+32	+32	+32	+32	+32	+32	+33	+33	+33	+33	+33	+33	+33	+33	+33	+33	+33	-	+33	+33	+33	+33	+33	+33	+33	+33	-			

- \*1: Add the value above (which is the total of both ends) to the lay length "L" when selecting optional grounding rings with/without gaskets.
- \*2: When submersible use or optional code DHC is selected, waterproof glands with union joints and cables are attached. When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.
- \*3: The tolerance of the lay length "L" is as follows.
  - Size 2.5 to 200 mm (0.1 to 8 in.): 0/-3 mm
  - Size 250 to 400 mm (10 to 16 in.): 0/-5 mm

Additional weight for FM (USA) Flameproof (FF2, FJ2, FT2)

Size	2.5	5	10	16	25	32	40	50	65	80	100	125	160	200	250	300
Lining Code	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Flange	-	-	-	-	0.1	0.2	0.2	0.3	0.4	0.4	0.7	3	4	8	10	10
Approx. Additional Weight, Unit: kg (lb)	-	-	-	-	(0.22)	(0.44)	(0.44)	(0.66)	(0.88)	(0.88)	(1.54)	(1.54)	(6.61)	(8.82)	(17.64)	(22.05)

○ Flange, EN PN10

Unit: mm (approx. in.)

Model	Process Connection Code		BE1					-	
			CE1						
			PE1						
Size Code		200	250	300	350	400	500		
Size		200 (8)	250 (10)	300 (12)	350 (14)	400 (16)	500 (20)		
Lining Code		A	A	A	A	A	A		
Remote Sensor Integral Flowmeter	Lay Length (*1) (*3)	L	348 (13.68)	446 (17.54)	496 (19.51)	546 (21.48)	596 (23.44)	600 (23.62)	
	Flange Outer Diameter	øD	340 (13.39)	395 (15.55)	445 (17.52)	505 (19.88)	565 (22.24)	670 (26.38)	
	Flange Thickness (incl. lining flare)	t	27.5 (1.08)	30.0 (1.18)	29.0 (1.14)	29.5 (1.16)	29.5 (1.16)	33.3 (1.31)	
	Lining Inner Diameter	ød	194 (7.65)	243 (9.55)	292 (11.51)	323 (12.73)	374 (14.70)	459 (18.07)	
	Bolt Circle Diameter	øC	295 (11.61)	350 (13.78)	400 (15.75)	460 (18.11)	515 (20.28)	620 (24.41)	
	Bolt Hole Interval	θ°	22.5	15	15	11.25	11.25	9	
	Bolt Hole Diameter	øh	22 (0.87)	22 (0.87)	22 (0.87)	22 (0.87)	26 (1.02)	26 (1.02)	
	Number of Bolt Holes	N	8	12	12	16	16	20	
	Height	H1	338 (13.29)	396 (15.58)	445 (17.53)	497 (19.55)	554 (21.82)	674 (26.53)	
	Height	H2	168 (6.60)	198 (7.81)	223 (8.77)	244 (9.61)	272 (10.70)	339 (13.34)	
	Height	H3	-	446 (17.56)	496 (19.53)	565 (22.24)	625 (24.61)	730 (28.74)	
	Remote Sensor	Maximum Height	Hr	455 (17.91)	513 (20.20)	563 (22.15)	614 (24.17)	672 (26.44)	791 (31.15)
		Approx. Weight, Unit: kg (lb) (*2)		44 (97.1)	70 (154.5)	84 (185.4)	105 (231.8)	132 (291.4)	189 (417.2)
Integral Flowmeter	Maximum Height	Hi	500 (19.67)	558 (21.96)	607 (23.91)	659 (25.93)	716 (28.20)	-	
	Approx. Weight, Unit: kg (lb)		47 (103.8)	72 (158.9)	87 (192.1)	108 (238.4)	135 (298.0)	-	
Grounding rings thin type (GRL, GRH, GRV) (*1)			+2 (+0.08)	+4 (+0.16)	+4 (+0.16)	+4 (+0.16)	+4 (+0.16)	-	
Grounding rings thick type (GRN, GRJ, GRW) (*1)			+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+8 (+0.31)	
Grounding rings thick type (GRN, GRJ, GRW) with gaskets (GA, GC, GD) (*1)			+12 (+0.47)	-	-	-	-	-	
Grounding rings electrode type (GRP, GRT) (*1)			+34 (+1.34)	-	-	-	-	-	
Grounding rings electrode type (GRP, GRT) with gaskets (GA, GC, GD) (*1)			+40 (+1.57)	-	-	-	-	-	

- \*1: Add the value above (which is the total of both ends) to the lay length "L" when selecting optional grounding rings with/without gaskets.
- \*2: When submersible use or optional code DHC is selected, waterproof glands with union joints and cables are attached. When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.
- \*3: The tolerance of the lay length "L" is as follows.
  - Size 2.5 to 200 mm (0.1 to 8 in.): 0/-3 mm
  - Size 250 to 400 mm (10 to 16 in.): 0/-5 mm

**Additional weight for FM (USA) Flameproof (FF2, FJ2, FT2)**

Size	200	250	300	350	400
Lining Code	A	A	A	A	A
Flange	4	8	10	18	25
Approx. Additional Weight, Unit: kg (lb)	(8.82)	(17.64)	(22.05)	(39.68)	(55.12)

○ Flange, JIS F12

Unit: mm (approx. in.)

Model	Process Connection Code		BG1 CG1									
	Size Code		080	100	125	150	200	250	300	350	400	
	Size		80 (3)	100 (4)	125 (5)	150 (6)	200 (8)	250 (10)	300 (12)	350 (14)	400 (16)	
Lining Code			A	A	A	A	A	A	A	A		
Remote Sensor Integral Flowmeter	Lay Length (*1) (*3)	L	198 (7.78)	248 (9.74)	248 (9.74)	298 (11.71)	348 (13.68)	446 (17.54)	496 (19.51)	546 (21.48)	596 (23.44)	
	Flange Outer Diameter	øD	211 (8.31)	238 (9.37)	263 (10.35)	290 (11.42)	342 (13.46)	410 (16.14)	464 (18.27)	530 (20.87)	582 (22.91)	
	Flange Thickness (incl. lining flare)	t	23.0 (0.91)	23.0 (0.91)	25.0 (0.98)	26.5 (1.04)	26.5 (1.04)	29.0 (1.14)	28.0 (1.10)	30.5 (1.20)	30.5 (1.20)	
	Lining Inner Diameter	ød	73 (2.87)	97 (3.82)	121 (4.76)	145 (5.72)	194 (7.65)	243 (9.55)	292 (11.51)	323 (12.73)	374 (14.70)	
	Bolt	øC	168 (6.61)	195 (7.68)	220 (8.66)	247 (9.72)	299 (11.77)	360 (14.17)	414 (16.30)	472 (18.58)	524 (20.63)	
	Bolt Hole Interval	øP	45	45	30	30	22.5	22.5	18	18	15	
	Bolt Hole Diameter	øh	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	23 (0.91)	23 (0.91)	25 (0.98)	25 (0.98)	
	Number of Bolt Holes	N	4	4	6	6	8	8	10	10	12	
	Height	H1	220 (8.66)	243 (9.57)	270 (10.63)	288 (11.32)	339 (13.33)	403 (15.88)	455 (17.90)	509 (20.04)	563 (22.16)	
	Height	H2	114 (4.49)	124 (4.88)	138 (5.43)	143 (5.61)	168 (6.60)	198 (7.81)	223 (8.77)	244 (9.61)	272 (10.70)	
	Height	H3	-	-	-	-	-	461 (18.15)	515 (20.28)	591 (23.27)	643 (25.31)	
	Remote Sensor	Maximum Height	Hr	337 (13.27)	360 (14.17)	387 (15.24)	405 (15.94)	456 (17.95)	521 (20.50)	572 (22.52)	626 (24.66)	680 (26.78)
		Approx. Weight, Unit: kg (lb) (*2)		12.8 (28.2)	16.1 (35.5)	21.2 (46.7)	30 (66.2)	43 (94.9)	73 (161.2)	88 (194.3)	114 (251.7)	140 (309.1)
Integral Flowmeter	Maximum Height	Hi	382 (15.04)	405 (15.94)	432 (17.01)	450 (17.70)	501 (19.71)	565 (22.26)	617 (24.28)	671 (26.42)	725 (28.54)	
	Approx. Weight, Unit: kg (lb)		15.3 (33.7)	18.7 (41.2)	23.6 (52.0)	33 (72.9)	46 (101.6)	75 (165.6)	90 (198.7)	116 (256.1)	142 (313.5)	
Grounding rings thin type (GRL, GRH, GRV) (*1)			+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+4 (+0.16)	+4 (+0.16)	+4 (+0.16)		
Grounding rings thick type (GRN, GRJ, GRW) (*1)			+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)		
Grounding rings thick type (GRN, GRJ, GRW) with gaskets (GA, GC, GD) (*1)			+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+12 (+0.47)	+12 (+0.47)	-	-	-		
Grounding rings electrode type (GRP, GRT) (*1)			+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+34 (+1.34)	+34 (+1.34)	-	-	-		
Grounding rings electrode type (GRP, GRT) with gaskets (GA, GC, GD) (*1)			+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+40 (+1.57)	+40 (+1.57)	-	-	-		

- \*1: Add the value above (which is the total of both ends) to the lay length "L" when selecting optional grounding rings with/without gaskets.
- \*2: When submersible use or optional code DHC is selected, waterproof glands with union joints and cables are attached. When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.
- \*3: The tolerance of the lay length "L" is as follows.
  - Size 2.5 to 200 mm (0.1 to 8 in.): 0/-3 mm
  - Size 250 to 400 mm (10 to 16 in.): 0/-5 mm

Additional weight for FM (USA) Flameproof (FF2, FJ2, FT2)

Size	80	100	125	150	200	250	300	350	400
Lining Code	A	A	A	A	A	A	A	A	A
Flange	0.4	0.7	0.7	3	4	8	10	18	25
Approx. Additional Weight, Unit: kg (lb)	(0.88)	(1.54)	(1.54)	(6.61)	(8.82)	(17.64)	(22.05)	(39.68)	(55.12)

○ Flange, JIS 10K

Unit: mm (approx. in.)

Model	Process Connection Code	DJ1										BJ1																	
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		PJ1					PJ1					PJ1					PJ1												
Size Code	002	005	010	002	005	010	015	025	032	040	050	065	080	100	125	150	200	250	300	350	400								
Size	2.5 (0.1)	5 (0.2)	10 (0.4)	2.5 (0.1)	5 (0.2)	10 (0.4)	15 (0.5)	25 (1)	32 (1.25)	40 (1.5)	50 (2)	65 (2.5)	80 (3)	100 (4)	125 (5)	150 (6)	200 (8)	250 (10)	300 (12)	350 (14)	400 (16)								
Lining Code	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A								
Remote Sensor	Lay Length (*1) (*3)	L	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)								
	Flange Outer Diameter	øD	90 (3.54)	90 (3.54)	90 (3.54)	95 (3.74)	95 (3.74)	95 (3.74)	95 (3.74)	125 (4.92)	135 (5.31)	140 (5.51)	155 (6.10)	175 (6.89)	185 (7.28)	210 (8.27)	250 (9.84)	280 (11.02)	330 (13.00)	400 (15.75)	445 (17.52)	490 (19.29)	560 (22.05)						
	Flange Thickness (incl. lining flare)	t	18.0 (0.71)	18.0 (0.71)	18.0 (0.71)	18.0 (0.71)	18.0 (0.71)	18.0 (0.71)	18.0 (0.71)	15.0 (0.59)	20.0 (0.79)	21.0 (0.83)	21.0 (0.83)	23.0 (0.91)	23.0 (0.91)	23.0 (0.91)	25.0 (0.98)	26.5 (1.04)	26.5 (1.04)	29.0 (1.14)	28.0 (1.10)	30.5 (1.20)	32.5 (1.28)						
	Lining Inner Diameter	ød	2 (0.09)	5 (0.19)	8 (0.30)	2 (0.09)	5 (0.19)	8 (0.30)	13 (0.51)	24 (0.93)	29 (1.13)	37 (1.44)	49 (1.94)	61 (2.40)	73 (2.87)	97 (3.82)	121 (4.76)	145 (5.72)	194 (7.65)	243 (9.55)	292 (11.51)	323 (12.73)	374 (14.70)						
	Bolt		65	65	65	70	70	70	70	70	80	100	105	120	140	150	175	210	240	290	350	400	445	510					
	Circle Diameter	øC	2.56 (2.56)	2.56 (2.56)	2.56 (2.56)	2.76 (2.76)	2.76 (2.76)	2.76 (2.76)	2.76 (2.76)	3.54 (3.54)	3.94 (3.94)	4.13 (4.13)	4.72 (4.72)	5.51 (5.51)	5.91 (5.91)	6.89 (6.89)	8.27 (8.27)	9.45 (9.45)	11.42 (11.42)	13.98 (13.98)	15.75 (15.75)	17.52 (17.52)	20.08 (20.08)						
	Bolt Hole Interval	ø°	45	45	45	45	45	45	45	45	45	45	45	45	22.5	22.5	22.5	22.5	15	15	11.25	11.25	11.25						
	Bolt Hole Diameter	øh	15 (0.59)	15 (0.59)	15 (0.59)	15 (0.59)	15 (0.59)	15 (0.59)	15 (0.59)	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	23 (0.91)	23 (0.91)	23 (0.91)	25 (0.98)	25 (0.98)	25 (0.98)	27 (1.06)					
	Number of Bolt Holes	N	4	4	4	4	4	4	4	4	4	4	4	4	8	8	8	8	12	12	16	16	16						
	Integral Flowmeter	Height	H1	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	143 (5.63)	154 (6.06)	156 (6.14)	177 (7.00)	196 (7.72)	207 (8.15)	229 (9.02)	263 (10.35)	283 (11.12)	333 (13.10)	398 (15.68)	445 (17.52)	489 (19.25)	552 (21.72)						
Height		H2	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	80 (3.15)	86 (3.39)	86 (3.39)	99 (3.90)	108 (4.25)	114 (4.49)	124 (4.88)	138 (5.43)	143 (5.61)	168 (6.60)	198 (7.81)	223 (8.77)	244 (9.61)	272 (10.70)						
Height		H3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	451 (17.76)	496 (19.53)	550 (21.65)	620 (24.41)							
Remote Sensor	Maximum Height	Hr	281 (11.06)	281 (11.06)	281 (11.06)	281 (11.06)	281 (11.06)	281 (11.06)	260 (10.24)	271 (10.67)	273 (10.75)	294 (11.57)	313 (12.32)	324 (12.76)	346 (13.62)	380 (14.96)	450 (17.71)	516 (20.30)	563 (22.15)	606 (23.87)	669 (26.34)								
	Approx. Weight, Unit: kg (lb) (*2)		3.6 (7.9)	3.6 (7.9)	3.6 (7.9)	3.7 (8.2)	3.7 (8.2)	3.7 (8.2)	3.8 (8.4)	4.8 (10.6)	5.9 (13.0)	6.1 (13.5)	7.3 (16.1)	9.6 (21.2)	10.2 (22.5)	13.0 (28.7)	19.1 (42.1)	27 (59.6)	39 (86.1)	67 (147.9)	78 (172.2)	95 (209.7)	126 (278.2)						
Integral Flowmeter	Maximum Height	Hi	326 (12.83)	326 (12.83)	326 (12.83)	326 (12.83)	326 (12.83)	326 (12.83)	305 (12.01)	316 (12.44)	318 (12.52)	339 (13.35)	358 (14.09)	369 (14.53)	391 (15.39)	425 (16.73)	445 (17.50)	495 (19.47)	560 (22.06)	607 (23.91)	651 (25.63)	714 (28.10)							
	Approx. Weight, Unit: kg (lb)		6.2 (13.7)	6.2 (13.7)	6.2 (13.7)	6.3 (13.9)	6.3 (13.9)	6.3 (13.9)	6.4 (14.1)	7.3 (16.1)	8.4 (18.5)	8.7 (19.2)	9.8 (21.6)	12.1 (26.7)	12.7 (28.0)	15.6 (34.4)	21.6 (47.6)	30 (66.2)	41 (90.5)	69 (152.3)	80 (176.6)	97 (214.1)	129 (284.8)						
Grounding rings thin type (GRL, GRH, GRV) (*1)			+2 (+0.8)	+2 (+0.8)	+2 (+0.8)	+2 (+0.8)	+2 (+0.8)	+2 (+0.8)	+2 (+0.8)	+2 (+0.8)	+2 (+0.8)	+2 (+0.8)	+2 (+0.8)	+2 (+0.8)	+2 (+0.8)	+2 (+0.8)	+2 (+0.8)	+2 (+0.8)	+2 (+0.8)	+4 (+0.16)	+4 (+0.16)	+4 (+0.16)	+4 (+0.16)						
Grounding rings thick type (GRN, GRJ, GRW) (*1)			+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)						
Grounding rings thick type (GRN, GRJ, GRW) with gaskets (GA, GC, GD) (*1)			+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+12 (+0.47)	+12 (+0.47)	-	-	-						
Grounding rings electrode type (GRP, GRT) (*1)			+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+34 (+1.34)	+34 (+1.34)	-						
Grounding rings electrode type (GRP, GRT) with gaskets (GA, GC, GD) (*1)			+32 (+1.26)	+32 (+1.26)	+32 (+1.26)	+32 (+1.26)	+32 (+1.26)	+32 (+1.26)	+32 (+1.26)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+40 (+1.57)	+40 (+1.57)	-	-	-						

- \*1: Add the value above (which is the total of both ends) to the lay length "L" when selecting optional grounding rings with/without gaskets.
- \*2: When submersible use or optional code DHC is selected, waterproof glands with union joints and cables are attached. When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.
- \*3: The tolerance of the lay length "L" is as follows.
  - Size 2.5 to 200 mm (0.1 to 8 in.): 0/-3 mm
  - Size 250 to 400 mm (10 to 16 in.): 0/-5 mm

Additional weight for FM (USA) Flameproof (FF2, FJ2, FT2)

Size	2.5	5	10	15	25	32	40	50	65	80	100	125	150	200	250	300	350	400
Lining Code	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Flange																		
Approx. Additional Weight, Unit: kg (lb)	-	-	-	-	0.1 (0.22)	0.2 (0.44)	0.2 (0.44)	0.3 (0.66)	0.4 (0.88)	0.4 (0.88)	0.7 (1.54)	0.7 (1.54)	3 (6.61)	4 (8.82)	8 (17.64)	10 (22.05)	18 (39.68)	25 (55.12)

○ Flange, JIS 20K

Unit: mm (approx. in.)

Model	Process Connection Code	DJ2										BJ2										CJ2														
		002	005	010	002	005	010	015	025	032	040	050	065	080	100	125	150	200	250	300	002	005	010	015	025	032	040	050	065	080	100	125	150	200	250	300
		2.5 (0.1)	5 (0.2)	10 (0.4)	2.5 (0.1)	5 (0.2)	10 (0.4)	15 (0.5)	25 (1)	32 (1.25)	40 (1.5)	50 (2)	65 (2.5)	80 (3)	100 (4)	125 (5)	150 (6)	200 (8)	250 (10)	300 (12)	2.5 (0.1)	5 (0.2)	10 (0.4)	15 (0.5)	25 (1)	32 (1.25)	40 (1.5)	50 (2)	65 (2.5)	80 (3)	100 (4)	125 (5)	150 (6)	200 (8)	250 (10)	300 (12)
Remote Sensor	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	A	A	A			
	Lay Length (*1) (*3)	L	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)	148 (5.83)			
	Flange Outer Diameter	øD	90 (3.54)	90 (3.54)	90 (3.54)	95 (3.74)	95 (3.74)	95 (3.74)	95 (3.74)	125 (4.92)	135 (5.31)	140 (5.51)	155 (6.10)	175 (6.89)	200 (7.87)	225 (8.86)	270 (10.63)	305 (12.01)	350 (13.78)	480 (18.90)	480 (18.90)	480 (18.90)	480 (18.90)	480 (18.90)	480 (18.90)	480 (18.90)	480 (18.90)	480 (18.90)	480 (18.90)	480 (18.90)	480 (18.90)	480 (18.90)	480 (18.90)			
	Flange Thickness (incl. lining flare)	t	18.0 (0.71)	18.0 (0.71)	18.0 (0.71)	20.0 (0.79)	20.0 (0.79)	20.0 (0.79)	17.0 (0.67)	22.0 (0.87)	23.0 (0.91)	23.0 (0.91)	23.0 (0.91)	25.0 (0.98)	27.0 (1.06)	29.0 (1.14)	31.0 (1.22)	32.5 (1.28)	34.5 (1.36)	39.0 (1.54)	40.0 (1.57)	40.0 (1.57)	40.0 (1.57)	40.0 (1.57)	40.0 (1.57)	40.0 (1.57)	40.0 (1.57)	40.0 (1.57)	40.0 (1.57)	40.0 (1.57)	40.0 (1.57)	40.0 (1.57)	40.0 (1.57)			
	Lining Inner Diameter	ød	2 (0.09)	5 (0.19)	8 (0.30)	2 (0.09)	5 (0.19)	8 (0.30)	13 (0.51)	24 (0.93)	29 (1.13)	37 (1.44)	49 (1.94)	61 (2.40)	73 (2.87)	97 (3.82)	121 (4.76)	145 (5.72)	194 (7.65)	243 (9.55)	292 (11.51)	292 (11.51)	292 (11.51)	292 (11.51)	292 (11.51)	292 (11.51)	292 (11.51)	292 (11.51)	292 (11.51)	292 (11.51)	292 (11.51)	292 (11.51)	292 (11.51)			
	Bolt	øC	65 (2.56)	65 (2.56)	65 (2.56)	70 (2.76)	70 (2.76)	70 (2.76)	70 (2.76)	90 (3.54)	100 (3.94)	105 (4.13)	120 (4.72)	140 (5.51)	160 (6.30)	185 (7.28)	225 (8.86)	260 (10.24)	305 (12.01)	380 (14.96)	430 (16.93)	430 (16.93)	430 (16.93)	430 (16.93)	430 (16.93)	430 (16.93)	430 (16.93)	430 (16.93)	430 (16.93)	430 (16.93)	430 (16.93)	430 (16.93)	430 (16.93)	430 (16.93)		
	Bolt Hole Interval	ø*	45	45	45	45	45	45	45	45	45	45	45	22.5	22.5	22.5	22.5	22.5	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15		
	Bolt Hole Diameter	øh	15 (0.59)	15 (0.59)	15 (0.59)	15 (0.59)	15 (0.59)	15 (0.59)	15 (0.59)	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	23 (0.91)	23 (0.91)	25 (0.98)	25 (0.98)	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27		
	Number of Bolt Holes	N	4	4	4	4	4	4	4	4	4	4	8	8	8	8	8	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
	Integral Flowmeter	Height	H1	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)		
Height		H2	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)			
Height		H3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Maximum Height		Hr	281 (11.06)	281 (11.06)	281 (11.06)	281 (11.06)	281 (11.06)	281 (11.06)	281 (11.06)	260 (10.24)	271 (10.67)	273 (10.75)	294 (11.57)	313 (12.32)	331 (13.03)	354 (13.94)	390 (15.35)	412 (16.23)	460 (18.11)	531 (20.89)	580 (22.84)	580 (22.84)	580 (22.84)	580 (22.84)	580 (22.84)	580 (22.84)	580 (22.84)	580 (22.84)	580 (22.84)	580 (22.84)	580 (22.84)	580 (22.84)	580 (22.84)			
Remote Sensor	Approx. Weight, Unit: kg (lb) (*2)	3.7 (8.2)	3.7 (8.2)	3.7 (8.2)	3.9 (8.6)	3.9 (8.6)	3.9 (8.6)	4.0 (8.8)	5.2 (11.5)	6.3 (13.9)	6.6 (14.6)	7.5 (16.5)	9.9 (21.8)	13.1 (28.9)	17.7 (39.0)	26.5 (58.4)	36 (79.5)	51 (112.6)	90 (198.7)	108 (238.4)	108 (238.4)	108 (238.4)	108 (238.4)	108 (238.4)	108 (238.4)	108 (238.4)	108 (238.4)	108 (238.4)	108 (238.4)	108 (238.4)	108 (238.4)	108 (238.4)	108 (238.4)	108 (238.4)		
	Maximum Height	Hi	326 (12.83)	326 (12.83)	326 (12.83)	326 (12.83)	326 (12.83)	326 (12.83)	305 (12.01)	316 (12.44)	318 (12.52)	339 (13.35)	358 (14.09)	376 (14.80)	399 (15.71)	435 (17.13)	457 (17.99)	505 (19.87)	625 (24.60)	625 (24.60)	625 (24.60)	625 (24.60)	625 (24.60)	625 (24.60)	625 (24.60)	625 (24.60)	625 (24.60)	625 (24.60)	625 (24.60)	625 (24.60)	625 (24.60)	625 (24.60)	625 (24.60)			
Integral Flowmeter	Approx. Weight, Unit: kg (lb)	6.3 (13.9)	6.3 (13.9)	6.3 (13.9)	6.5 (14.3)	6.5 (14.3)	6.5 (14.3)	6.6 (14.6)	7.7 (17.0)	8.8 (19.4)	9.2 (20.3)	10.0 (22.1)	12.5 (27.6)	15.6 (34.4)	20.2 (44.5)	29.1 (64.2)	39 (86.1)	53 (117.0)	92 (203.1)	111 (245.0)	111 (245.0)	111 (245.0)	111 (245.0)	111 (245.0)	111 (245.0)	111 (245.0)	111 (245.0)	111 (245.0)	111 (245.0)	111 (245.0)	111 (245.0)	111 (245.0)	111 (245.0)	111 (245.0)		
	Grounding rings thin type (GRL, GRH, GRV) (*1)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)			
Grounding rings thick type (GRN, GRJ, GRW) (*1)		+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)				
	with gaskets (GA, GC, GD) (*1)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)			
Grounding rings electrode type (GRP, GRT) (*1)		+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)				
	with gaskets (GA, GC, GD) (*1)	+32 (+1.26)	+32 (+1.26)	+32 (+1.26)	+32 (+1.26)	+32 (+1.26)	+32 (+1.26)	+32 (+1.26)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)			

- \*1: Add the value above (which is the total of both ends) to the lay length "L" when selecting optional grounding rings with/without gaskets.
- \*2: When submersible use or optional code DHC is selected, waterproof glands with union joints and cables are attached. When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.
- \*3: The tolerance of the lay length "L" is as follows.
  - Size 2.5 to 200 mm (0.1 to 8 in.): 0/-3 mm
  - Size 250 to 400 mm (10 to 16 in.): 0/-5 mm

Additional weight for FM (USA) Flameproof (FF2, FJ2, FT2)

Size	2.5	5	10	15	25	32	40	50	65	80	100	125	150	200	250	300
Lining Code	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Flange	-	-	-	-	0.1	0.2	0.2	0.3	0.4	0.4	0.7	0.7	3	4	8	10
Approx. Additional Weight, Unit: kg (lb)	-	-	-	-	(0.22)	(0.44)	(0.44)	(0.66)	(0.88)	(0.88)	(1.54)	(1.54)	(6.61)	(8.82)	(17.64)	(22.05)

○ Flange, JPI Class 150

Unit: mm (approx. in.)

Model	Process Connection Code		BP1															
	Size Code		002	005	010	015	025	040	050	080	100	150	200	250	300	350	400	
	Size		2.5 (0.1)	5 (0.2)	10 (0.4)	15 (0.5)	25 (1)	40 (1.5)	50 (2)	80 (3)	100 (4)	150 (6)	200 (8)	250 (10)	300 (12)	350 (14)	400 (16)	
Lining Code			A	A	A	A	A	A	A	A	A	A	A	A	A	A		
Remote Sensor	Lay Length (*1) (*3)	L	148 (5.83)	148 (5.83)	148 (5.83)	198 (7.80)	198 (7.78)	198 (7.78)	198 (7.78)	248 (9.74)	298 (11.71)	348 (13.68)	446 (17.54)	496 (19.51)	546 (21.48)	596 (23.44)		
		øD	90 (3.54)	90 (3.54)	90 (3.54)	90 (3.54)	110 (4.33)	125 (4.92)	150 (5.91)	190 (7.48)	230 (9.06)	280 (11.02)	345 (13.58)	405 (15.94)	485 (19.09)	535 (21.06)	595 (23.43)	
	Flange Thickness (incl. lining flare)	t	19.2 (0.76)	19.2 (0.76)	19.2 (0.76)	16.2 (0.64)	20.3 (0.80)	22.5 (0.89)	24.1 (0.95)	28.9 (1.14)	28.9 (1.14)	30.4 (1.20)	33.5 (1.32)	35.6 (1.40)	37.2 (1.46)	40.9 (1.61)	42.5 (1.67)	
		ød	2 (0.09)	5 (0.19)	8 (0.30)	13 (0.51)	24 (0.93)	37 (1.44)	49 (1.94)	73 (2.87)	97 (3.82)	145 (5.72)	194 (7.65)	243 (9.55)	292 (11.51)	323 (12.73)	374 (14.70)	
	Bolt Circle Diameter	øC	60.3 (2.37)	60.3 (2.37)	60.3 (2.37)	60.3 (2.37)	79.4 (3.13)	79.4 (3.13)	98.4 (3.87)	120.7 (4.75)	152.4 (6.00)	190.5 (7.50)	241.3 (9.50)	298.5 (11.75)	362.0 (14.25)	431.8 (17.00)	539.8 (21.25)	
		ø°	45	45	45	45	45	45	45	45	22.5	22.5	22.5	15	15	15	11.25	
	Integral Flowmeter	Bolt Hole Interval	øh	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	19 (0.75)	19 (0.75)	19 (0.75)	22 (0.87)	22 (0.87)	26 (1.02)	26 (1.02)	29 (1.14)	29 (1.14)
			N	4	4	4	4	4	4	4	4	8	8	8	12	12	12	16
		Height	H1	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	135 (5.31)	149 (5.87)	174 (6.85)	209 (8.23)	239 (9.41)	283 (11.12)	340 (13.39)	401 (15.78)	465 (18.32)	512 (20.14)	569 (22.41)
			H2	104 (4.09)	104 (4.09)	104 (4.09)	104 (4.09)	80 (3.15)	86 (3.39)	99 (3.90)	114 (4.49)	124 (4.88)	143 (5.61)	168 (6.60)	198 (7.81)	223 (8.77)	244 (9.61)	272 (10.70)
Height		H3	-	-	-	-	-	-	-	-	-	-	-	456 (17.95)	536 (21.10)	595 (23.43)	655 (25.79)	
Remote Sensor	Maximum Height	Hr	281 (11.06)	281 (11.06)	281 (11.06)	281 (11.06)	252 (9.92)	266 (10.47)	291 (11.46)	326 (12.83)	356 (14.02)	400 (15.74)	457 (18.01)	518 (20.40)	583 (22.94)	629 (24.76)	687 (27.03)	
		Approx. Weight, Unit: kg (lb) (*2)	3.7 (8.2)	3.7 (8.2)	3.7 (8.2)	3.8 (8.4)	4.3 (9.5)	5.7 (12.6)	7.7 (17.0)	13.2 (29.1)	18.4 (40.6)	31 (68.4)	50 (110.4)	79 (174.4)	109 (240.6)	135 (298.0)	172 (379.7)	
Integral Flowmeter	Maximum Height	Hi	326 (12.83)	326 (12.83)	326 (12.83)	326 (12.83)	297 (11.69)	311 (12.24)	336 (13.23)	371 (14.61)	401 (15.79)	445 (17.50)	502 (19.77)	563 (22.16)	627 (24.69)	674 (26.52)	731 (28.79)	
		Approx. Weight, Unit: kg (lb)	6.1 (13.5)	6.1 (13.5)	6.1 (13.5)	6.2 (13.7)	6.8 (15.0)	8.2 (18.1)	10.1 (22.3)	15.7 (34.6)	20.8 (45.9)	34 (75.1)	52 (114.8)	81 (178.8)	111 (245.0)	138 (304.6)	175 (386.3)	
Grounding rings thin type (GRL, GRH, GRV) (*1)			+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+4 (+0.16)	+4 (+0.16)	+4 (+0.16)	+4 (+0.16)	
Grounding rings thick type (GRN, GRJ, GRW) (*1)			+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	
Grounding rings thick type (GRN, GRJ, GRW) with gaskets (GA, GC, GD) (*1)			+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+12 (+0.47)	+12 (+0.47)	-	-	-	-	
Grounding rings electrode type (GRP, GRT) (*1)			+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+34 (+1.34)	+34 (+1.34)	-	-	-	-	
Grounding rings electrode type (GRP, GRT) with gaskets (GA, GC, GD) (*1)			+32 (+1.26)	+32 (+1.26)	+32 (+1.26)	+32 (+1.26)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+40 (+1.57)	+40 (+1.57)	-	-	-	-	

- \*1: Add the value above (which is the total of both ends) to the lay length "L" when selecting optional grounding rings with/without gaskets.
- \*2: When submersible use or optional code DHC is selected, waterproof glands with union joints and cables are attached. When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.
- \*3: The tolerance of the lay length "L" is as follows.
  - Size 2.5 to 200 mm (0.1 to 8 in.): 0/-3 mm
  - Size 250 to 400 mm (10 to 16 in.): 0/-5 mm

Additional weight for FM (USA) Flameproof (FF2, FJ2, FT2)

Size	2.5	5	10	15	25	40	50	80	100	150	200	250	300	350	400
Lining Code	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Flange	-	-	-	-	0.1 (0.22)	0.2 (0.44)	0.3 (0.66)	0.4 (0.88)	0.7 (1.54)	3 (6.61)	4 (8.82)	8 (17.64)	10 (22.05)	18 (39.68)	25 (55.12)
Approx. Additional Weight, Unit: kg (lb)															

○ Flange, AS Table D

Unit: mm (approx. in.)

Model	Process Connection Code		CS1								
	Size Code		050	080	100	150	200	250	300	350	400
	Size		50 (2)	80 (3)	100 (4)	150 (6)	200 (8)	250 (10)	300 (12)	350 (14)	400 (16)
Lining Code		A	A	A	A	A	A	A	A	A	
Remote Sensor	Lay Length (*1) (*3)	L	198 (7.78)	198 (7.78)	248 (9.74)	298 (11.71)	348 (13.68)	446 (17.54)	496 (19.51)	546 (21.48)	596 (23.44)
	Flange Outer Diameter	øD	150 (5.91)	185 (7.28)	215 (8.46)	280 (11.02)	335 (13.19)	405 (15.94)	455 (17.91)	525 (20.67)	580 (22.83)
	Flange Thickness (incl. lining flare)	t	13.0 (0.51)	15.0 (0.59)	15.0 (0.59)	17.9 (0.70)	17.9 (0.70)	21.4 (0.84)	24.4 (0.96)	27.9 (1.10)	27.9 (1.10)
	Lining Inner Diameter	ød	49 (1.94)	73 (2.87)	97 (3.82)	145 (5.72)	194 (7.65)	243 (9.55)	292 (11.51)	323 (12.73)	374 (14.70)
	Bolt Circle Diameter	øC	114 (4.49)	146 (5.75)	178 (7.01)	235 (9.25)	292 (11.50)	356 (14.02)	406 (15.98)	470 (18.50)	521 (20.51)
	Bolt Hole Interval	ø°	45	45	45	22.5	22.5	22.5	15	15	15
	Bolt Hole Diameter	øh	18 (0.71)	18 (0.71)	18 (0.71)	18 (0.71)	18 (0.71)	22 (0.87)	22 (0.87)	26 (1.02)	26 (1.02)
	Number of Bolt Holes	N	4	4	4	8	8	8	12	12	12
	Height	H1	174 (6.85)	207 (8.15)	232 (9.13)	283 (11.12)	335 (13.19)	401 (15.78)	450 (17.73)	507 (19.94)	562 (22.12)
	Height	H2	99 (3.90)	114 (4.49)	124 (4.88)	143 (5.61)	168 (6.60)	198 (7.81)	223 (8.77)	244 (9.61)	272 (10.70)
Height	H3	-	-	-	-	-	447 (17.58)	497 (19.55)	576 (22.68)	631 (24.84)	
Remote Sensor	Maximum Height	Hr	291 (11.46)	324 (12.76)	349 (13.74)	400 (15.74)	452 (17.81)	518 (20.40)	568 (22.34)	624 (24.56)	679 (26.74)
	Approx. Weight, Unit: kg (lb) (*2)		5.5 (12.1)	8.7 (19.2)	11.8 (26.0)	25 (55.2)	37 (81.7)	65 (143.5)	80 (176.6)	105 (231.8)	131 (289.2)
Integral Flowmeter	Maximum Height	Hi	336 (13.23)	369 (14.53)	394 (15.51)	445 (17.50)	497 (19.57)	563 (22.16)	612 (24.10)	669 (26.32)	724 (28.50)
	Approx. Weight, Unit: kg (lb)		7.9 (17.4)	11.1 (24.5)	14.2 (31.3)	27 (59.6)	39 (86.1)	67 (147.9)	82 (181.0)	107 (236.2)	133 (293.6)
Grounding rings thin type (GRL, GRH, GRV) (*1)			+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+4 (+0.16)	+4 (+0.16)	+4 (+0.16)	+4 (+0.16)
Grounding rings thick type (GRN, GRJ, GRW) (*1)			+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)
Grounding rings thick type (GRN, GRJ, GRW) with gaskets (GA, GC, GD) (*1)			+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+12 (+0.47)	+12 (+0.47)	-	-	-	-
Grounding rings electrode type (GRP, GRT) (*1)			+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+34 (+1.34)	+34 (+1.34)	-	-	-	-
Grounding rings electrode type (GRP, GRT) with gaskets (GA, GC, GD) (*1)			+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+40 (+1.57)	+40 (+1.57)	-	-	-	-

- \*1: Add the value above (which is the total of both ends) to the lay length "L" when selecting optional grounding rings with/without gaskets.
- \*2: When submersible use or optional code DHC is selected, waterproof glands with union joints and cables are attached. When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.
- \*3: The tolerance of the lay length "L" is as follows.
  - Size 2.5 to 200 mm (0.1 to 8 in.): 0/-3 mm
  - Size 250 to 400 mm (10 to 16 in.): 0/-5 mm

Additional weight for FM (USA) Flameproof (FF2, FJ2, FT2)

Size	50	80	100	150	200	250	300	350	400
Lining Code	A	A	A	A	A	A	A	A	A
Flange	0.3	0.4	0.7	3	4	8	10	18	25
Approx. Additional Weight, Unit: kg (lb)	(0.66)	(0.88)	(1.54)	(6.61)	(8.82)	(17.64)	(22.05)	(39.68)	(55.12)

○ Flange, AS Table E

Unit: mm (approx. in.)

Model	Process Connection Code		CS2							
	Size Code		050	080	100	150	200	250	300	
	Size		50 (2)	80 (3)	100 (4)	150 (6)	200 (8)	250 (10)	300 (12)	
Lining Code		A	A	A	A	A	A	A		
Remote Sensor Integral Flowmeter	Lay Length (*1) (*3)	L	198 (7.78)	198 (7.78)	248 (9.74)	298 (11.71)	348 (13.68)	446 (17.54)	496 (19.51)	
	Flange Outer Diameter	øD	150 (5.91)	185 (7.28)	215 (8.46)	280 (11.02)	335 (13.19)	405 (15.94)	455 (17.91)	
	Flange Thickness (incl. lining flare)	t	15.0 (0.59)	16.0 (0.63)	18.0 (0.71)	21.9 (0.86)	23.9 (0.94)	27.4 (1.08)	30.4 (1.20)	
	Lining Inner Diameter	ød	49 (1.94)	73 (2.87)	97 (3.82)	145 (5.72)	194 (7.65)	243 (9.55)	292 (11.51)	
	Bolt Circle Diameter	øC	114 (4.49)	146 (5.75)	178 (7.01)	235 (9.25)	292 (11.50)	356 (14.02)	406 (15.98)	
	Bolt Hole Interval	ø°	45	45	22.5	22.5	22.5	15	15	
	Bolt Hole Diameter	øh	18 (0.71)	18 (0.71)	18 (0.71)	22 (0.87)	22 (0.87)	22 (0.87)	26 (1.02)	
	Number of Bolt Holes	N	4	4	8	8	8	12	12	
	Height	H1	174 (6.85)	207 (8.15)	232 (9.13)	283 (11.12)	335 (13.19)	401 (15.78)	450 (17.73)	
	Height	H2	99 (3.90)	114 (4.49)	124 (4.88)	143 (5.61)	168 (6.60)	198 (7.81)	223 (8.77)	
	Height	H3	-	-	-	-	-	456 (17.95)	506 (19.92)	
	Remote Sensor	Maximum Height	Hr	291 (11.46)	324 (12.76)	349 (13.74)	400 (15.74)	452 (17.81)	518 (20.40)	568 (22.34)
		Approx. Weight, Unit: kg (lb) (*2)		5.9 (13.0)	8.9 (19.6)	12.5 (27.6)	28 (61.8)	42 (92.7)	72 (158.9)	89 (196.5)
Integral Flowmeter	Maximum Height	Hi	336 (13.23)	369 (14.53)	394 (15.51)	445 (17.50)	497 (19.57)	563 (22.16)	612 (24.10)	
	Approx. Weight, Unit: kg (lb)		8.3 (18.3)	11.3 (24.9)	15.0 (33.1)	30 (66.2)	44 (97.1)	74 (163.4)	91 (200.9)	
Grounding rings thin type (GRL, GRH, GRV) (*1)			+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+2 (+0.08)	+4 (+0.16)	+4 (+0.16)	
Grounding rings thick type (GRN, GRJ, GRW) (*1)			+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	
Grounding rings thick type (GRN, GRJ, GRW) with gaskets (GA, GC, GD) (*1)			+10 (+0.39)	+10 (+0.39)	+10 (+0.39)	+12 (+0.47)	+12 (+0.47)	-	-	
Grounding rings electrode type (GRP, GRT) (*1)			+29 (+1.14)	+29 (+1.14)	+29 (+1.14)	+34 (+1.34)	+34 (+1.34)	-	-	
Grounding rings electrode type (GRP, GRT) with gaskets (GA, GC, GD) (*1)			+33 (+1.30)	+33 (+1.30)	+33 (+1.30)	+40 (+1.57)	+40 (+1.57)	-	-	

- \*1: Add the value above (which is the total of both ends) to the lay length "L" when selecting optional grounding rings with/without gaskets.
- \*2: When submersible use or optional code DHC is selected, waterproof glands with union joints and cables are attached. When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.
- \*3: The tolerance of the lay length "L" is as follows.
  - Size 2.5 to 200 mm (0.1 to 8 in.): 0/-3 mm
  - Size 250 to 400 mm (10 to 16 in.): 0/-5 mm

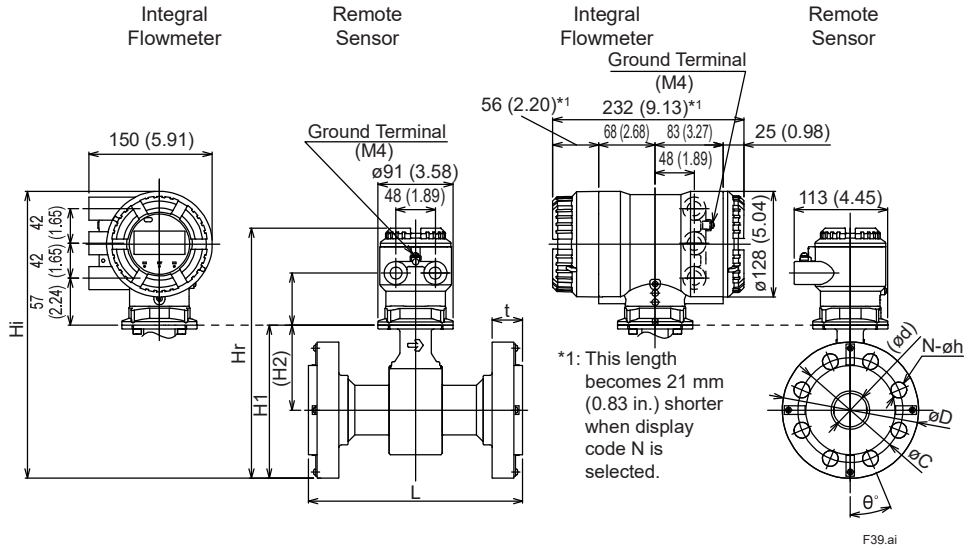
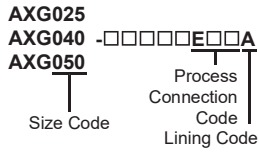
**Additional weight for FM (USA) Flameproof (FF2, FJ2, FT2)**

Size	50	80	100	150	200	250	300
Lining Code	A	A	A	A	A	A	A
Flange	0.3	0.4	0.7	3	4	8	10
Approx. Additional Weight, Unit: kg (lb)	(0.66)	(0.88)	(1.54)	(6.61)	(8.82)	(17.64)	(22.05)

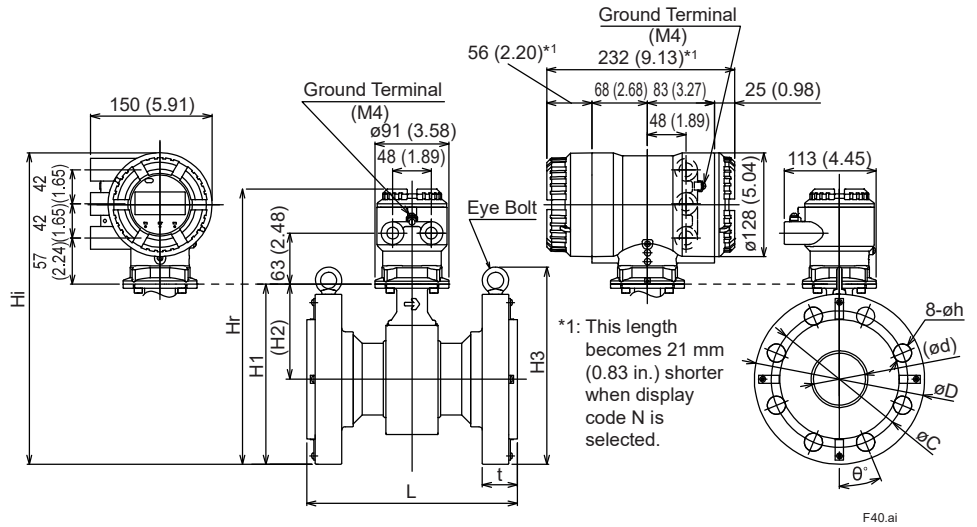
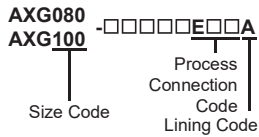
● Flange (PFA Lining, High Pressure Type)

Unit: mm (approx. in.)

Size 25 to 50 mm (1 to 2 in.)



Size 80 to 100 mm (3 to 4 in.)



○ Flange, ASME Class 600

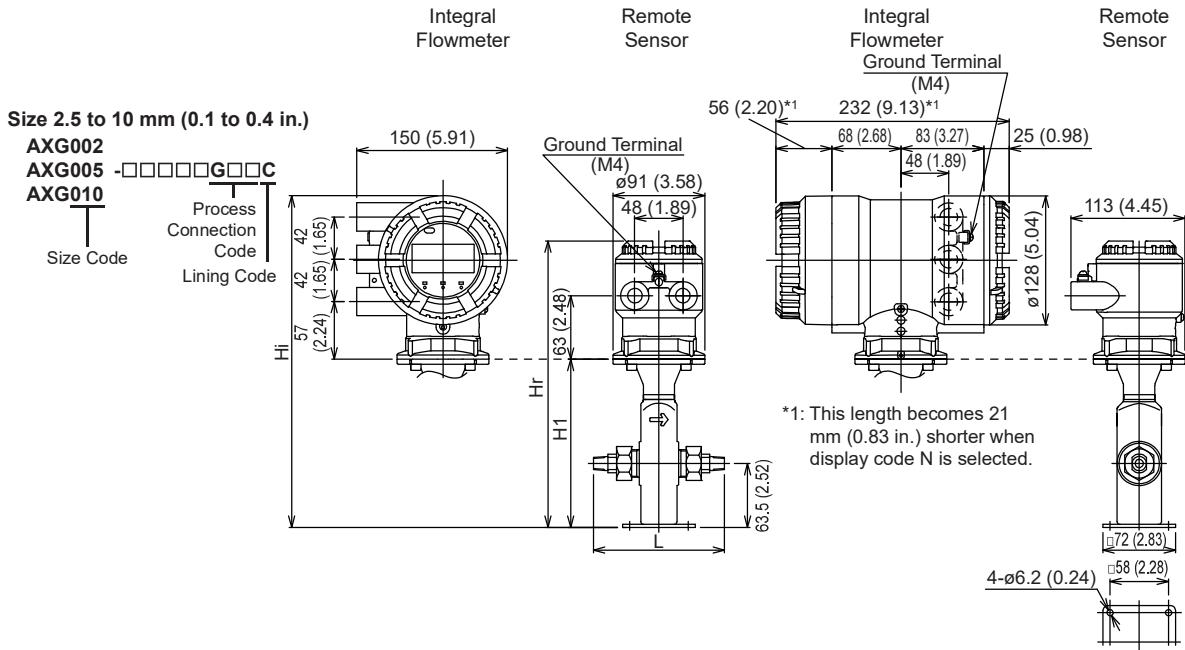
Unit: mm (approx. in.)

Model	Process Connection Code		EA4				
	Size Code		025	040	050	080	100
	Size		25 (1)	40 (1.5)	50 (2)	80 (3)	100 (4)
Lining Code		A					
Remote Sensor Integral Flowmeter	Lay Length (*1) (*3)	L	211 (8.31)	263 (10.35)	263 (10.35)	263 (10.35)	313 (12.32)
	Flange Outer Diameter	øD	124.0 (4.88)	155.5 (6.12)	165.1 (6.50)	209.6 (8.25)	273.1 (10.75)
	Flange Thickness (incl. lining flare)	t	29.0 (1.14)	34.4 (1.35)	37.4 (1.47)	43.8 (1.72)	50.1 (1.97)
	Lining Inner Diameter	ød	24 (0.93)	29 (1.16)	41 (1.59)	64 (2.52)	87 (3.43)
	Bolt Circle Diameter	øC	88.9 (3.50)	114.3 (4.50)	127.0 (5.00)	168.1 (6.62)	215.9 (8.50)
	Bolt Hole Interval	ø <sup>o</sup>	45	45	22.5	22.5	22.5
	Bolt Hole Diameter	øh	19.1 (0.75)	22.4 (0.88)	19.1 (0.75)	22.4 (0.88)	25.4 (1.00)
	Number of Bolt Holes	N	4	4	8	8	8
	Height	H1	148 (5.83)	167 (6.57)	185 (7.28)	222 (8.74)	265 (10.43)
	Height	H2	86 (3.38)	90 (3.53)	103 (4.05)	117 (4.61)	129 (5.07)
Height	H3	-	-	-	243 (9.57)	306 (12.05)	
Remote Sensor	Maximum Height	Hr	265 (10.43)	284 (11.18)	302 (11.89)	339 (13.35)	382 (15.04)
	Approx. Weight, Unit: kg (lb) (*2)		5.8 (12.8)	9.2 (20.3)	11.0 (24.3)	19.4 (42.8)	36.9 (81.4)
Integral Flowmeter	Maximum Height	Hi	310 (12.20)	329 (12.95)	347 (13.66)	384 (15.12)	427 (16.81)
	Approx. Weight, Unit: kg (lb)		8.2 (18.1)	11.6 (25.6)	13.4 (29.5)	21.9 (48.3)	39.3 (86.6)

- \*1: The lay length "L" includes the thickness of the grounding rings (GRN) which always needs to be selected.
- \*2: When submersible use or optional code DHC is selected, waterproof glands with union joints and cables are attached. When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.
- \*3: The tolerance of the lay length "L" is as follows.
  - Size 25 mm (1 in.): 0/-4 mm
  - Size 40 to 100 mm (1.5 to 4 in.): 0/-5 mm

● Ceramics Tube (Union Joint)

Unit: mm (approx. in.)



Unit: mm (approx. in.)

Model	Process Connection Code		GUN, GUR: Screw Union Joint			GUW: Welding Union Joint		
	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 Sensor	Lay Length	L	130 (5.12)			140 (5.51)		
	Height	H1	167 (6.57)			167 (6.57)		
Remote Sensor	Maximum Height	Hr	284 (11.18)			284 (11.18)		
	Approx. Weight, Unit: kg (lb) (*1)		2.7 (6.0)			2.7 (6.0)		
	Maximum Height	Hi	329 (12.95)			329 (12.95)		
Integral Flowmeter	Approx. Weight, Unit: kg (lb)		5.2 (11.5)			5.2 (11.5)		

\*1: When optional code DHC is selected, waterproof glands with union joints and cables are attached. When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.

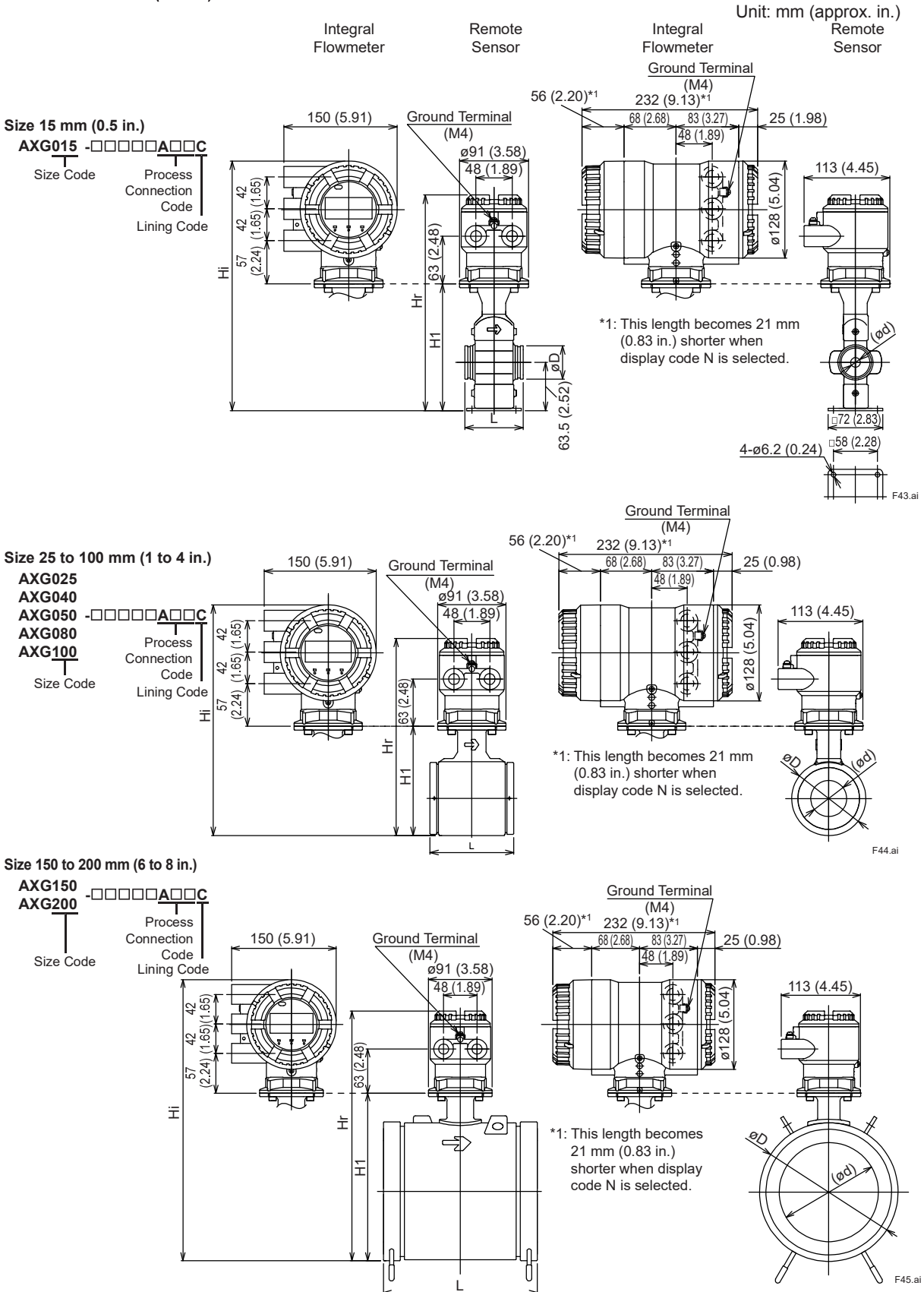


Process Connection Code	GUN: Screw Union Joint			
Size	$\phi A$	$\phi B$	$\phi C$	D
2.5(0.1)	22(0.87)	8(0.31)	18.5(0.73)	NPT1/4
5(0.2)	22(0.87)	8(0.31)	18.5(0.73)	NPT1/4
10(0.4)	25(0.98)	10(0.39)	22.5(0.89)	NPT3/8

Process Connection Code	GUR: Screw Union Joint			
Size	$\phi A$	$\phi B$	$\phi C$	D
2.5(0.1)	22(0.87)	8(0.31)	18.5(0.73)	R1/4
5(0.2)	22(0.87)	8(0.31)	18.5(0.73)	R1/4
10(0.4)	25(0.98)	10(0.39)	22.5(0.89)	R3/8

Process Connection Code	GUW: Welding Union Joint			
Size	$\phi A$	$\phi B$	$\phi C$	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)

● Ceramics Tube (Wafer)

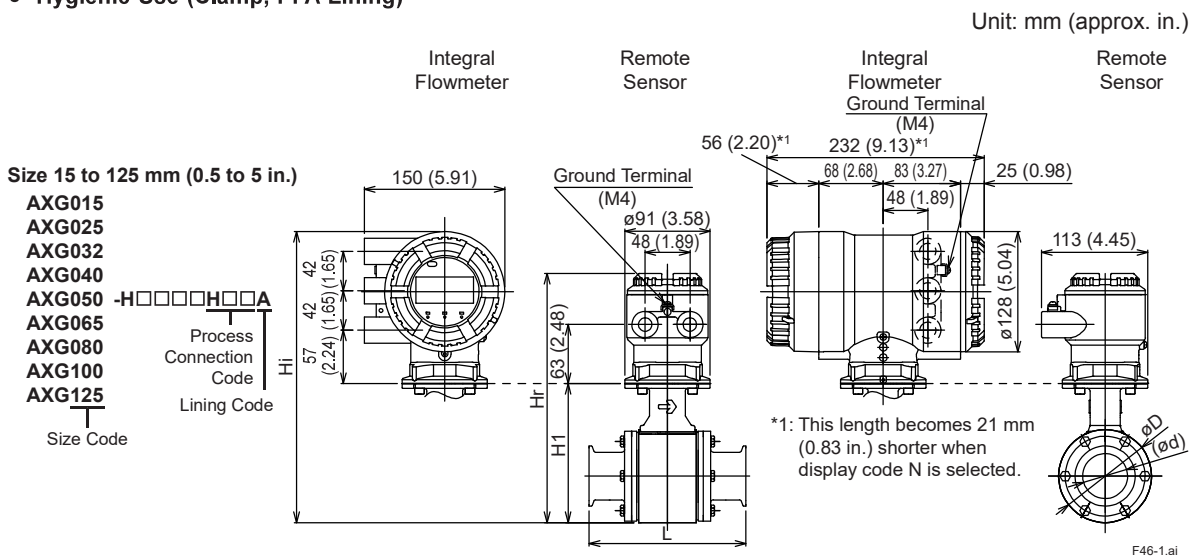


Unit: mm (approx. in.)

Model	Process Connection Code		AA1, AA2, AJ1, AJ2							
			AE4				AE2			
	Size Code		015	025	040	050	080	100	150	200
	Size		(0,5)	(1)	(1,5)	(2)	(3)	(4)	(6)	(8)
Lining Code		C	C	C	C	C	C	C	C	
Remote Sensor	Lay Length (*1)	L	79 (3.11)	87 (3.43)	100 (3.94)	114 (4.49)	154 (6.06)	174 (6.85)	226 (8.90)	296 (11.65)
	Outer Diameter	øD	44 (1.73)	67.5 (2.66)	86 (3.39)	99 (3.90)	129 (5.08)	155 (6.10)	214 (8.43)	264 (10.39)
Integral Flowmeter	Pipe Inner Diameter	ød	13 (0.51)	23 (0.91)	36 (1.42)	48 (1.89)	73 (2.87)	93 (3.66)	141 (5.55)	187 (7.36)
	Height	H1	167 (6.57)	110 (4.33)	129 (5.08)	148 (5.83)	175 (6.89)	201 (7.91)	255 (10.04)	305 (12.02)
Remote Sensor	Maximum Height	Hr	284 (11.18)	227 (8.94)	246 (9.69)	265 (10.43)	292 (11.50)	318 (12.52)	372 (14.66)	423 (16.63)
	Approx. Weight, Unit: kg (lb) (*3)		2.7 (6.0)	2.7 (6.0)	3.6 (7.9)	4.5 (9.9)	7.2 (15.9)	10.1 (22.3)	21 (46.4)	34 (75.1)
Integral Flowmeter	Maximum Height	Hi	329 (12.95)	272 (10.71)	291 (11.46)	310 (12.20)	337 (13.27)	363 (14.29)	417 (16.42)	467 (18.39)
	Approx. Weight, Unit: kg (lb)		5.2 (11.5)	5.2 (11.5)	6.1 (13.5)	7.0 (15.4)	9.7 (21.4)	12.6 (27.8)	23 (50.8)	36 (79.5)
Gaskets (BSC, BSF) (*1)			+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)
Grounding rings thick type (GRN, GRJ, GRW) (*1)			+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)
Grounding rings thick type (GRN, GRJ, GRW) and gaskets (BSC, BSF) (*1)			+12 (+0.47)	+12 (+0.47)	+12 (+0.47)	+12 (+0.47)	+12 (+0.47)	+12 (+0.47)	+12 (+0.47)	+12 (+0.47)
Grounding rings thick type (GRN, GRJ, GRW) with gaskets (GA, GC, GD, GF) (*1) (*2)			+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)
Grounding rings thick type (GRN, GRJ, GRW) with gaskets (GA, GC, GD, GF) and gaskets (BSC, BSF) (*1) (*2)			+12 (+0.47)	+12 (+0.47)	+12 (+0.47)	+12 (+0.47)	+12 (+0.47)	+12 (+0.47)	+12 (+0.47)	+12 (+0.47)
Grounding rings electrode type (GRP, GRT) (*1)			+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+36 (+1.42)	+36 (+1.42)
Grounding rings electrode type (GRP, GRT) and gaskets (BSC, BSF) (*1)			+34 (+1.34)	+34 (+1.34)	+34 (+1.34)	+34 (+1.34)	+34 (+1.34)	+34 (+1.34)	+42 (+1.65)	+42 (+1.65)
Grounding rings electrode type (GRP, GRT) with gaskets (GA, GC, GD, GF) (*1) (*2)			+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+28 (+1.10)	+36 (+1.42)	+36 (+1.42)
Grounding rings electrode type (GRP, GRT) with gaskets (GA, GC, GD, GF) and gaskets (BSC, BSF) (*1) (*2)			+34 (+1.34)	+34 (+1.34)	+34 (+1.34)	+34 (+1.34)	+34 (+1.34)	+34 (+1.34)	+42 (+1.65)	+42 (+1.65)

- \*1: The lay length "L" includes the thickness of two gaskets which are supplied with the flowmeter. Be sure to always use the supplied gaskets. Add the value above (which is the total of both ends including the supplied two gaskets) to the lay length "L" when selecting optional grounding rings with/without gaskets.
- \*2: When the optional code GA, GC, GD, or GF is selected, two gaskets which are supplied with the flowmeter are changed to the gaskets selected by the optional code.
- \*3: When optional code DHC is selected, waterproof glands with union joints and cables are attached. When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.

● Hygienic Use (Clamp, PFA Lining)



Unit: mm (approx. in.)

Model	Process Connection Code	HAB: Tri-Clamp (not applicable for size code 032 and 125) HDB: DIN 32676 Clamp HKB: ISO 2852 / SMS 3016 Clamp HJA, HJB: ISO 2852 Clamp (for JIS G3447 Piping)									
		Size Code	015	025	032	040	050	065	080	100	125
	Size	15 (0.5)	25 (1)	32 (1.25)	40 (1.5)	50 (2)	65 (2.5)	80 (3)	100 (4)	125 (5)	
	Lining Code	A	A	A	A	A	A	A	A	A	
Remote Sensor	Lay Length	L	166 (6.54)	166 (6.54)	166 (6.54)	166 (6.54)	176 (6.93)	196 (7.72)	216 (8.50)	246 (9.69)	316 (12.44)
	Outer Diameter	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	Height	H1	116 (4.57)	116 (4.57)	116 (4.57)	129 (5.08)	149 (5.87)	166 (6.54)	176 (6.93)	202 (7.95)	230 (9.06)
	Maximum Height	Hr	233 (9.17)	233 (9.17)	233 (9.17)	246 (9.69)	266 (10.47)	283 (11.14)	293 (11.54)	319 (12.56)	347 (13.66)
Remote Sensor	Approx. Weight, Unit: kg (lb) (*1)		3.1 (6.8)	2.9 (6.4)	3.0 (6.6)	3.3 (7.3)	4.1 (9.0)	5.4 (11.9)	6.4 (14.1)	9.1 (20.1)	13.5 (29.8)
	Maximum Height	Hi	278 (10.94)	278 (10.94)	278 (10.94)	291 (11.46)	311 (12.24)	328 (12.91)	338 (13.31)	364 (14.33)	392 (15.43)
Integral Flowmeter	Approx. Weight, Unit: kg (lb)		5.6 (12.4)	5.4 (11.9)	5.5 (12.1)	5.8 (12.8)	6.7 (14.8)	7.9 (17.4)	8.9 (19.6)	11.7 (25.8)	16.1 (35.5)

\*1: When optional code DHC is selected, waterproof glands with union joints and cables are attached. When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.

Additional weight for FM (USA) Flameproof (FF2, FJ2, FT2) and FM (Canada) Flameproof (CF2, CJ2, CT2)

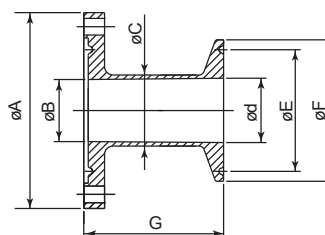
Size	15	25	32	40	50	65	80	100	125
Lining Code	A	A	A	A	A	A	A	A	A
Hygienic	0.1	0.1	0.1	0.2	0.3	0.5	0.8	1.3	1.8
Approx. Additional Weight, Unit: kg (lb)	(0.22)	(0.22)	(0.22)	(0.44)	(0.66)	(1.10)	(1.76)	(2.87)	(3.97)

○ Clamp Connection Adapter

Unit: mm (approx. in.)

Process Connection Code	HAB: Tri-Clamp						
Size Code	015	025	040	050	065	080	100
Size	15 (0.5)	25 (1)	40 (1.5)	50 (2)	65 (2.5)	80 (3)	100 (4)
øA	70 (2.76)	70 (2.76)	83 (3.27)	96 (3.78)	114 (4.49)	126 (4.96)	152 (5.98)
øB	16.0 (0.63)	22.2 (0.87)	34.6 (1.36)	47.6 (1.87)	59.5 (2.34)	72.3 (2.85)	97.0 (3.82)
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)
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)
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)
øF	25.0 (0.98)	50.4 (1.98)	50.4 (1.98)	64.0 (2.52)	77.4 (3.05)	91.0 (3.58)	118.9 (4.68)
G	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)
Parts No. (HAB)	F9811 HU	F9811 HV	F9811 HX	F9811 HY	F9811 HZ	F9811 JA	F9811 JB

HAB, HDB, HKB, HJA, HJB



F46-2.ai

Clamp Connection Adapter

Unit: mm (approx. in.)

Process Connection Code	HDB: DIN 32676 Clamp								
Size Code	015	025	032	040	050	065	080	100	125
Size	15 (0.5)	25 (1)	32 (1.25)	40 (1.5)	50 (2)	65 (2.5)	80 (3)	100 (4)	125 (5)
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)
øB	16.0 (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)	97.0 (3.82)	121.0 (4.76)
øC	20.0 (0.79)	30.0 (1.18)	36.0 (1.42)	42.0 (1.65)	54.0 (2.13)	70.0 (2.76)	85.0 (3.35)	104.0 (4.09)	129.0 (5.08)
ød	16.0 (0.63)	26.0 (1.02)	32.0 (1.26)	38.0 (1.50)	50.0 (1.97)	66.0 (2.60)	81.0 (3.19)	100.0 (3.94)	125.0 (4.92)
øE	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)	110.0 (4.33)	146.0 (5.75)
øF	34.0 (1.34)	50.5 (1.99)	50.5 (1.99)	50.5 (1.99)	64.0 (2.52)	77.5 (3.05)	91.0 (3.58)	119.0 (4.69)	155.0 (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)	60 (2.36)
Parts No. (HDB)	F9811 JD	F9811 JE	F9811 JF	F9811 JG	F9811 JH	F9811 JJ	F9811 JK	F9811 JL	F9870 ZD

Unit: mm (approx. in.)

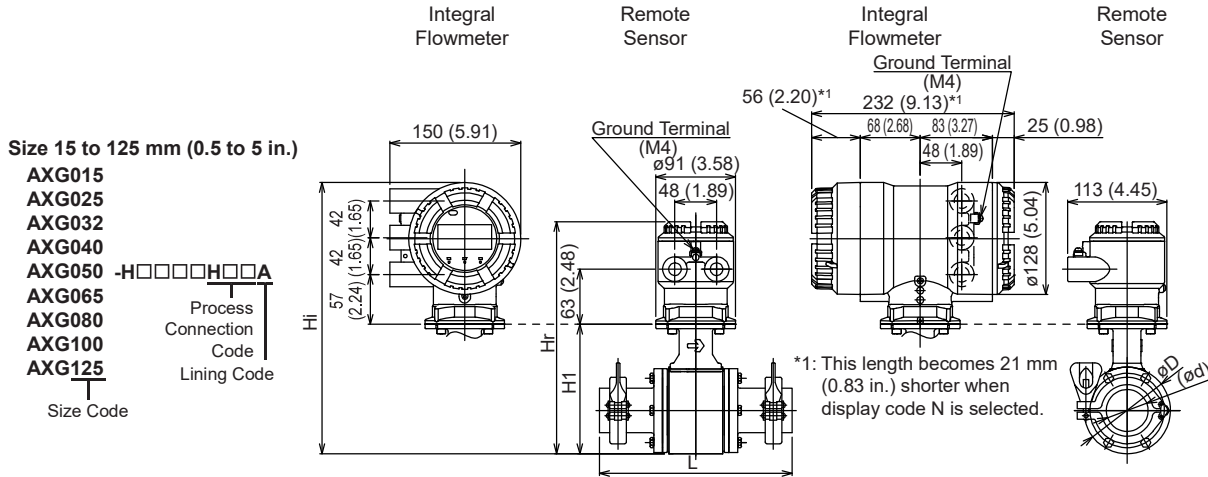
Process Connection Code	HKB: ISO 2852 / SMS 3016 Clamp								
Size Code	015	025	032	040	050	065	080	100	125
Size	15 (0.5)	25 (1)	32 (1.25)	40 (1.5)	50 (2)	65 (2.5)	80 (3)	100 (4)	125 (5)
øA	70 (2.76)	70 (2.76)	70 (2.76)	83 (3.27)	96 (3.78)	114 (4.49)	126 (4.96)	152 (5.98)	180 (7.09)
øB	16.0 (0.63)	22.2 (0.87)	29.4 (1.16)	34.6 (1.36)	47.6 (1.87)	59.5 (2.34)	72.3 (2.85)	97.0 (3.82)	121.0 (4.76)
øC	18.0 (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	15.2 (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	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)	110.0 (4.33)	146.0 (5.75)
øF	34.0 (1.34)	50.5 (1.99)	50.5 (1.99)	50.5 (1.99)	64.0 (2.52)	77.5 (3.05)	91.0 (3.58)	119.0 (4.69)	155.0 (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)	60 (2.36)
Parts No. (HKB)	F9811 JN	F9811 JP	F9811 JQ	F9811 JR	F9811 JS	F9811 JT	F9811 JU	F9811 JV	F9870 ZE

Unit: mm (approx. in.)

Process Connection Code	HJA, HJB: ISO 2852 Clamp (for JIS G3447 Piping)								
Size Code	015	025	032	040	050	065	080	100	125
Size	15 (0.5)	25 (1)	32 (1.25)	40 (1.5)	50 (2)	65 (2.5)	80 (3)	100 (4)	125 (5)
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)
øB	16.0 (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)	97.0 (3.82)	121.0 (4.76)
øC	21.7 (0.85)	25.4 (1.00)	31.8 (1.25)	38.1 (1.50)	50.8 (2.00)	63.5 (2.50)	76.3 (3.00)	101.6 (4.00)	139.8 (5.50)
ød	17.5 (0.69)	23.0 (0.91)	29.4 (1.16)	35.7 (1.41)	47.8 (1.88)	59.5 (2.34)	72.3 (2.85)	97.6 (3.84)	133.8 (5.27)
øE	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)	110.0 (4.33)	146.0 (5.75)
øF	34.0 (1.34)	50.5 (1.99)	50.5 (1.99)	50.5 (1.99)	64.0 (2.52)	77.5 (3.05)	91.0 (3.58)	119.0 (4.69)	155.0 (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)	60 (2.36)
Parts No. (HJA)	F9811 HA	F9811 HB	F9811 HC	F9811 HD	F9811 HE	F9811 HF	F9811 HG	F9811 HH	F9870 ZA
Parts No. (HJB)	F9811 HK	F9811 HL	F9811 HM	F9811 HN	F9811 HP	F9811 HQ	F9811 HR	F9811 HS	F9870 ZB

● Hygienic Use (Clamp, PFA Lining) with Connection Parts for HJA and HJB (Optional code W2)

Unit: mm (approx. in.)



F47.ai

Unit: mm (approx. in.)

Model	Process Connection Code		HJA, HJB: ISO 2852 Clamp (for JIS G3447 Piping)								
	Size Code		015	025	032	040	050	065	080	100	125
	Size		15 (0.5)	25 (1)	32 (1.25)	40 (1.5)	50 (2)	65 (2.5)	80 (3)	100 (4)	125 (5)
	Lining Code		A	A	A	A	A	A	A	A	A
Remote Sensor	Lay Length	L	204 (8.03)	211 (8.31)	204 (8.03)	211 (8.31)	221 (8.70)	241 (9.49)	261 (10.28)	291 (11.46)	374 (14.72)
	Outer Diameter	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	Inner Diameter	ød	17.5 (0.69)	23.0 (0.91)	29.4 (1.16)	35.7 (1.41)	47.8 (1.88)	59.5 (2.34)	72.3 (2.85)	97.6 (3.84)	133.8 (5.27)
	Height	H1	116 (4.57)	116 (4.57)	116 (4.57)	129 (5.08)	149 (5.87)	166 (6.54)	176 (6.93)	202 (7.95)	230 (9.06)
Remote Sensor	Maximum Height	Hr	233 (9.17)	233 (9.17)	233 (9.17)	246 (9.69)	266 (10.47)	283 (11.14)	293 (11.54)	319 (12.56)	347 (13.66)
	Approx. Weight, Unit: kg (lb) (*1)		3.0 (6.6)	2.7 (6.0)	2.9 (6.4)	3.2 (7.1)	3.9 (8.6)	5.1 (11.2)	5.9 (13.0)	8.1 (17.9)	12.3 (27.1)
	Maximum Height	Hi	278 (10.94)	278 (10.94)	278 (10.94)	291 (11.46)	311 (12.24)	328 (12.91)	338 (13.31)	364 (14.33)	392 (15.43)
Integral Flowmeter	Approx. Weight, Unit: kg (lb)		5.5 (12.1)	5.2 (11.5)	5.4 (11.9)	5.7 (12.6)	6.5 (14.3)	7.6 (16.8)	8.5 (18.7)	10.7 (23.6)	14.9 (32.9)

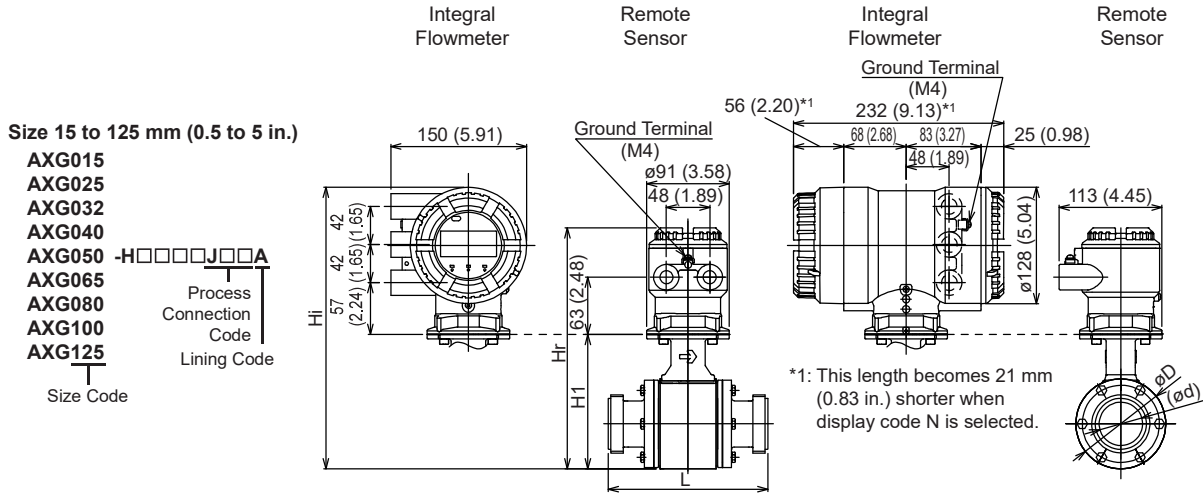
\*1 When optional code DHC is selected, waterproof glands with union joints and cables are attached. When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.

Additional weight for FM (USA) Flameproof (FF2, FJ2, FT2)

Size	15	25	32	40	50	65	80	100	125
Lining Code	A	A	A	A	A	A	A	A	A
Hygienic	0.1	0.1	0.1	0.2	0.3	0.5	0.8	1.3	1.8
Approx. Additional Weight, Unit: kg (lb)	(0.22)	(0.22)	(0.22)	(0.44)	(0.66)	(1.10)	(1.76)	(2.87)	(3.97)

● Hygienic Use (Union, PFA Lining)

Unit: mm (approx. in.)



F48.ai

Unit: mm (approx. in.)

Model	Process Connection Code		JDB: DIN 11851 Union									
	Size Code		015	025	032	040	050	065	080	100	125	
	Size		15 (0.5)	25 (1)	32 (1.25)	40 (1.5)	50 (2)	65 (2.5)	80 (3)	100 (4)	125 (5)	
	Lining Code		A	A	A	A	A	A	A	A	A	
Remote Sensor	Lay Length	L	166 (6.54)	166 (6.54)	166 (6.54)	166 (6.54)	176 (6.93)	196 (7.72)	236 (9.29)	266 (10.47)	326 (12.83)	
	Outer Diameter	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	Height	H1	116 (4.57)	116 (4.57)	116 (4.57)	129 (5.08)	149 (5.87)	166 (6.54)	176 (6.93)	202 (7.95)	230 (9.06)	
	Maximum Height	Hr	233 (9.17)	233 (9.17)	233 (9.17)	246 (9.69)	266 (10.47)	283 (11.14)	293 (11.54)	319 (12.56)	347 (13.66)	
Remote Sensor	Approx. Weight, Unit: kg (lb) (*1)		3.0 (6.6)	3.0 (6.6)	3.1 (6.8)	3.4 (7.5)	4.3 (9.5)	5.5 (12.1)	6.5 (14.3)	9.2 (20.3)	14.3 (31.5)	
	Maximum Height	Hi	278 (10.94)	278 (10.94)	278 (10.94)	291 (11.46)	311 (12.24)	328 (12.91)	338 (13.31)	364 (14.33)	392 (15.43)	
Integral Flowmeter	Approx. Weight, Unit: kg (lb)		5.5 (12.1)	5.5 (12.1)	5.6 (12.3)	5.9 (13.0)	6.9 (15.2)	8.0 (17.6)	9.1 (20.1)	11.8 (26.0)	16.9 (37.3)	

Unit: mm (approx. in.)

Model	Process Connection Code		JKB: ISO 2853 Union							
	Size Code		015	025	032	040	050	065	080	100
	Size		15 (0.5)	25 (1)	32 (1.25)	40 (1.5)	50 (2)	65 (2.5)	80 (3)	100 (4)
	Lining Code		A	A	A	A	A	A	A	A
Remote Sensor	Lay Length	L	166 (6.54)	166 (6.54)	166 (6.54)	166 (6.54)	176 (6.93)	196 (7.72)	216 (8.50)	246 (9.69)
	Outer Diameter	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)
Integral Flowmeter	Height	H1	116 (4.57)	116 (4.57)	116 (4.57)	129 (5.08)	149 (5.87)	166 (6.54)	176 (6.93)	202 (7.95)
	Maximum Height	Hr	233 (9.17)	233 (9.17)	233 (9.17)	246 (9.69)	266 (10.47)	283 (11.14)	293 (11.54)	319 (12.56)
Remote Sensor	Approx. Weight, Unit: kg (lb) (*1)		3.0 (6.6)	3.0 (6.6)	3.1 (6.8)	3.4 (7.5)	4.3 (9.5)	5.5 (12.1)	6.5 (14.3)	9.2 (20.3)
	Maximum Height	Hi	278 (10.94)	278 (10.94)	278 (10.94)	291 (11.46)	311 (12.24)	328 (12.91)	338 (13.31)	364 (14.33)
Integral Flowmeter	Approx. Weight, Unit: kg (lb)		5.5 (12.1)	5.5 (12.1)	5.6 (12.3)	5.9 (13.0)	6.9 (15.2)	8.0 (17.6)	9.1 (20.1)	11.8 (26.0)

\*1: When optional code DHC is selected, waterproof glands with union joints and cables are attached. When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.

Additional weight for FM (USA) Flameproof (FF2, FJ2, FT2) and FM (Canada) Flameproof (CF2, CJ2, CT2)

Size	15	25	32	40	50	65	80	100	125
Lining Code	A	A	A	A	A	A	A	A	A
Hygienic	0.1	0.1	0.1	0.2	0.3	0.5	0.8	1.3	1.8
Approx. Additional Weight, Unit: kg (lb)	(0.22)	(0.22)	(0.22)	(0.44)	(0.66)	(1.10)	(1.76)	(2.87)	(3.97)

Unit: mm (approx. in.)

Model	Process Connection Code		JJA, JJB: ISO 2853 Union (for JIS G3447 Piping)						
	Size Code		025	032	040	050	065	080	100
	Size		25 (1)	32 (1.25)	40 (1.5)	50 (2)	65 (2.5)	80 (3)	100 (4)
Lining Code		A		A		A		A	
Remote Sensor	Lay Length	L	166 (6.54)	166 (6.54)	166 (6.54)	176 (6.93)	196 (7.72)	216 (8.50)	246 (9.69)
	Outer Diameter	øD	73 (2.87)	73 (2.87)	86 (3.39)	99 (3.90)	117 (4.61)	129 (5.08)	155 (6.10)
Integral Flowmeter	Height	H1	116 (4.57)	116 (4.57)	129 (5.08)	149 (5.87)	166 (6.54)	176 (6.93)	202 (7.95)
	Maximum Height	Hr	233 (9.17)	233 (9.17)	246 (9.69)	266 (10.47)	283 (11.14)	293 (11.54)	319 (12.56)
Remote Sensor	Approx. Weight, Unit: kg (lb) (*1)		3.0 (6.6)	3.1 (6.8)	3.4 (7.5)	4.3 (9.5)	5.5 (12.1)	6.5 (14.3)	9.2 (20.3)
	Maximum Height	Hi	278 (10.94)	278 (10.94)	291 (11.46)	311 (12.24)	328 (12.91)	338 (13.31)	364 (14.33)
Integral Flowmeter	Approx. Weight, Unit: kg (lb)		5.5 (12.1)	5.6 (12.3)	5.9 (13.0)	6.9 (15.2)	8.0 (17.6)	9.1 (20.1)	11.8 (26.0)

Unit: mm (approx. in.)

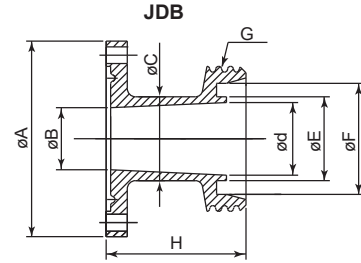
Model	Process Connection Code		JSB: SMS 1145 Union (Open groove packing type)						
	Size Code		025	032	040	050	065	080	100
	Size		25 (1)	32 (1.25)	40 (1.5)	50 (2)	65 (2.5)	80 (3)	100 (4)
Lining Code		A		A		A		A	
Remote Sensor	Lay Length	L	166 (6.54)	166 (6.54)	166 (6.54)	176 (6.93)	196 (7.72)	216 (8.50)	276 (10.87)
	Outer Diameter	øD	73 (2.87)	73 (2.87)	86 (3.39)	99 (3.90)	117 (4.61)	129 (5.08)	155 (6.10)
Integral Flowmeter	Height	H1	116 (4.57)	116 (4.57)	129 (5.08)	149 (5.87)	166 (6.54)	176 (6.93)	202 (7.95)
	Maximum Height	Hr	233 (9.17)	233 (9.17)	246 (9.69)	266 (10.47)	283 (11.14)	293 (11.54)	319 (12.56)
Remote Sensor	Approx. Weight, Unit: kg (lb) (*1)		3.0 (6.6)	3.1 (6.8)	3.4 (7.5)	4.3 (9.5)	5.5 (12.1)	6.5 (14.3)	9.2 (20.3)
	Maximum Height	Hi	278 (10.94)	278 (10.94)	291 (11.46)	311 (12.24)	328 (12.91)	338 (13.31)	364 (14.33)
Integral Flowmeter	Approx. Weight, Unit: kg (lb)		5.5 (12.1)	5.6 (12.3)	5.9 (13.0)	6.9 (15.2)	8.0 (17.6)	9.1 (20.1)	11.8 (26.0)

\*1: When optional code DHC is selected, waterproof glands with union joints and cables are attached.  
When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.

○ Union Connection Adapter

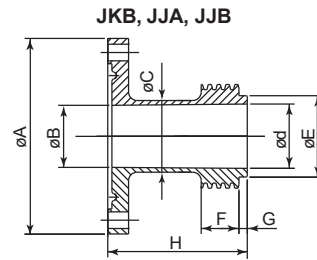
Unit: mm (approx. in.)

Process Connection Code	JDB: DIN 11851 Union								
Size Code	015	025	032	040	050	065	080	100	125
Size	15 (0.5)	25 (1)	32 (1.25)	40 (1.5)	50 (2)	65 (2.5)	80 (3)	100 (4)	125 (5)
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)
øB	16.0 (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)	97.0 (3.82)	121.0 (4.76)
øC	20.0 (0.79)	30.0 (1.18)	36.0 (1.42)	42.0 (1.65)	54.0 (2.13)	70.0 (2.76)	85.0 (3.35)	104.0 (4.09)	129.0 (5.08)
ød	16.0 (0.63)	26.0 (1.02)	32.0 (1.26)	38.0 (1.50)	50.0 (1.97)	66.0 (2.60)	81.0 (3.19)	100.0 (3.94)	125.0 (4.92)
øE	18.0 (0.71)	30.0 (1.18)	36.0 (1.42)	42.0 (1.65)	54.0 (2.13)	71.0 (2.80)	85.0 (3.35)	104.0 (4.09)	130.0 (5.12)
øF	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)
G	RD34 x 1/8"	RD52 x 1/6"	RD58 x 1/6"	RD65 x 1/6"	RD78 x 1/6"	RD95 x 1/6"	RD110 x 1/4"	RD130 x 1/4"	RD160 x 1/4"
H	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)
Parts No. (JDB)	F9811 KR	F9811 KS	F9811 KT	F9811 KU	F9811 KV	F9811 KW	F9811 KX	F9811 KY	F9870 ZH



Unit: mm (approx. in.)

Process Connection Code	JKB: ISO 2853 Union								
Size Code	015	025	032	040	050	065	080	100	125
Size	15 (0.5)	25 (1)	32 (1.25)	40 (1.5)	50 (2)	65 (2.5)	80 (3)	100 (4)	125 (5)
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)
øB	16.0 (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)	97.0 (3.82)	121.0 (4.76)
øC	18.0 (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)	127.5 (5.02)
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)	122.6 (4.78)
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)	133.7 (5.28)
F	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)	13.5 (0.53)
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)	3 (0.12)
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)
Parts No. (JKB)	F9811 LA	F9811 LB	F9811 LC	F9811 LD	F9811 LE	F9811 LF	F9811 LG	F9811 LH	

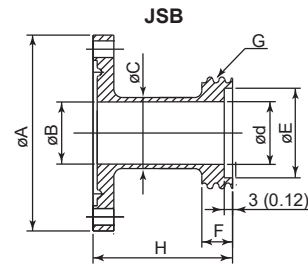


Unit: mm (approx. in.)

Process Connection Code	JJA, JJB: ISO 2853 Union (for JIS G3447 Piping)						
Size Code	025	032	040	050	065	080	100
Size	25 (1)	32 (1.25)	40 (1.5)	50 (2)	65 (2.5)	80 (3)	100 (4)
øA	70 (2.76)	70 (2.76)	83 (3.27)	96 (3.78)	114 (4.49)	126 (4.96)	152 (5.98)
øB	22.2 (0.87)	29.4 (1.16)	34.6 (1.36)	47.6 (1.87)	59.5 (2.34)	72.3 (2.85)	97.0 (3.82)
øC	25.6 (1.01)	31.8 (1.25)	38.0 (1.50)	51.0 (2.01)	63.5 (2.50)	76.3 (3.00)	101.6 (4.00)
ød	23.0 (0.91)	29.4 (1.16)	35.6 (1.40)	47.8 (1.88)	59.5 (2.34)	72.3 (2.85)	97.6 (3.84)
øE	29.2 (1.15)	35.7 (1.41)	42.7 (1.68)	56.2 (2.21)	69.9 (2.75)	82.6 (3.25)	108.7 (4.28)
F	13.5 (0.53)	10.0 (0.39)	13.5 (0.53)	13.5 (0.53)	13.5 (0.53)	13.5 (0.53)	18.0 (0.71)
G	3 (0.12)	2.5 (0.10)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)
H	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)
Parts No. (JJA)	F9811 JY	F9811 JZ	F9811 KA	F9811 KB	F9811 KC	F9811 KD	F9811 KE
Parts No. (JJB)	F9811 KH	F9811 KJ	F9811 KK	F9811 KL	F9811 KM	F9811 KN	F9811 KP

Unit: mm (approx. in.)

Process Connection Code	JSB: SMS 1145 Union (Open groove packing type)						
Size Code	025	032	040	050	065	080	100
Size	25 (1)	32 (1.25)	40 (1.5)	50 (2)	65 (2.5)	80 (3)	100 (4)
øA	70 (2.76)	70 (2.76)	83 (3.27)	96 (3.78)	114 (4.49)	126 (4.96)	152 (5.98)
øB	22.2 (0.87)	29.4 (1.16)	34.6 (1.36)	47.6 (1.87)	59.5 (2.34)	72.3 (2.85)	97.0 (3.82)
øC	25.4 (1.00)	32.0 (1.26)	38.1 (1.50)	51.0 (2.01)	63.5 (2.50)	76.2 (3.00)	102.5 (4.04)
ød	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	32.0 (1.26)	40.0 (1.57)	48.0 (1.89)	61.0 (2.40)	73.5 (2.89)	86.0 (3.39)	120.0 (4.72)
F	11 (0.43)	13 (0.51)	15 (0.59)	15 (0.59)	19 (0.75)	19 (0.75)	30 (1.18)
G	RD40 x 1/6"	RD48 x 1/6"	RD60 x 1/6"	RD70 x 1/6"	RD85 x 1/6"	RD98 x 1/6"	RD132 x 1/6"
H	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)	65 (2.56)
Parts No. (JSB)	F9811 LK	F9811 LL	F9811 LM	F9811 LN	F9811 LP	F9811 LQ	F9811 LR

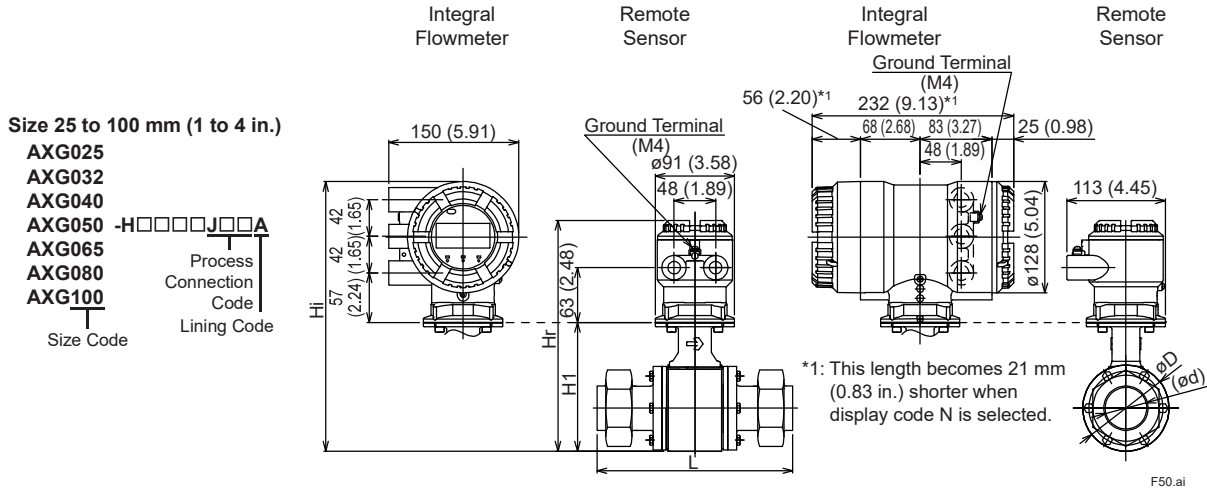


Union Connection Adapter

F49.ai

● Hygienic Use (Union, PFA Lining) with Connection Parts for JJA and JJB (Optional code W2)

Unit: mm (approx. in.)



F50.ai

Unit: mm (approx. in.)

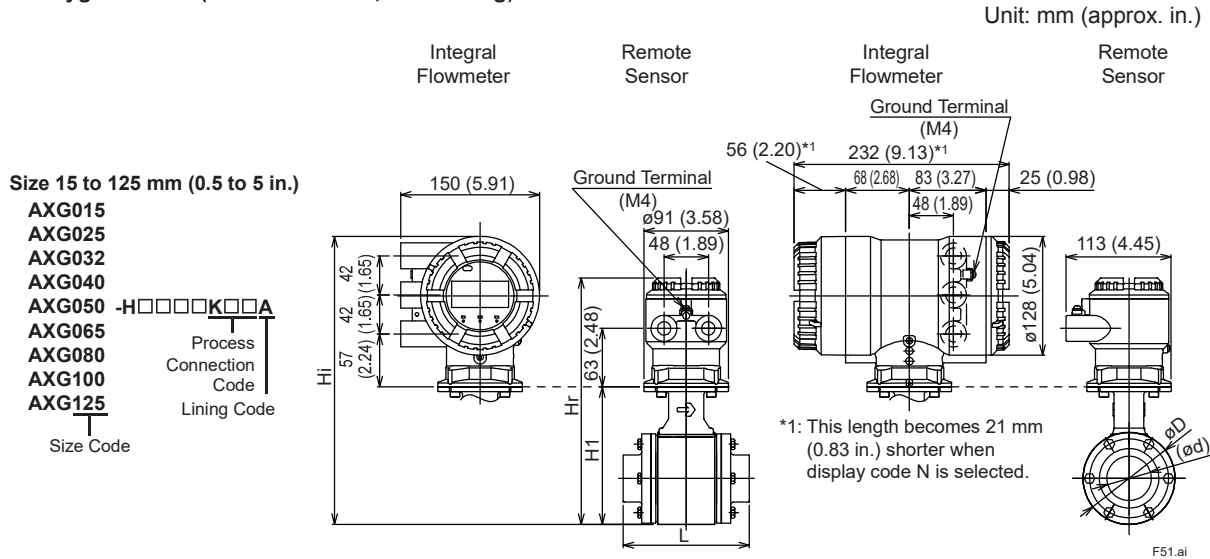
Model	Process Connection Code		JJA, JJB: ISO 2853 Union (for JIS G3447 Piping)						
	Size Code		025	032	040	050	065	080	100
	Size		25	32	40	50	65	80	100
			(1)	(1.25)	(1.5)	(2)	(2.5)	(3)	(4)
			A	A	A	A	A	A	A
Remote Sensor	Lay Length	L	215 (8.46)	208 (8.19)	215 (8.46)	225 (8.86)	245 (9.65)	265 (10.43)	309 (12.17)
	Outer Diameter	øD	73 (2.87)	73 (2.87)	86 (3.39)	99 (3.90)	117 (4.61)	129 (5.08)	155 (6.10)
Integral Flowmeter	Inner Diameter	ød	23.0 (0.91)	29.4 (1.16)	35.7 (1.41)	47.8 (1.88)	59.5 (2.34)	72.3 (2.85)	97.6 (3.84)
	Height	H1	116 (4.57)	116 (4.57)	129 (5.08)	149 (5.87)	166 (6.54)	176 (6.93)	202 (7.95)
Remote Sensor	Maximum Height	Hr	233 (9.17)	233 (9.17)	246 (9.69)	266 (10.47)	283 (11.14)	293 (11.54)	319 (12.56)
	Approx. Weight, Unit: kg (lb) (*1)		3.5 (7.7)	3.6 (7.9)	3.9 (8.6)	5.0 (11.0)	6.5 (14.3)	7.9 (17.4)	12.1 (26.7)
Integral Flowmeter	Maximum Height	Hi	278 (10.94)	278 (10.94)	291 (11.46)	311 (12.24)	328 (12.91)	338 (13.31)	364 (14.33)
	Approx. Weight, Unit: kg (lb)		6.0 (13.2)	6.1 (13.4)	6.4 (14.1)	7.6 (16.8)	9.0 (19.8)	10.5 (23.1)	14.7 (32.4)

\*1 When optional code DHC is selected, waterproof glands with union joints and cables are attached. When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.

Additional weight for FM (USA) Flameproof (FF2, FJ2, FT2)

Size	25	32	40	50	65	80	100
Lining Code	A	A	A	A	A	A	A
Hygienic	0.1	0.1	0.2	0.3	0.5	0.8	1.3
Approx. Additional Weight, Unit: kg (lb)	(0.22)	(0.22)	(0.44)	(0.66)	(1.10)	(1.76)	(2.87)

● Hygienic Use (Butt Weld Joint, PFA Lining)



Unit: mm (approx. in.)

Model	Process Connection Code		KDB: DIN 11850 Piping Butt Weld Joint KKB: ISO 2037 Piping Butt Weld Joint KJA, KJB: JIS G3447 Piping Butt Weld Joint								
	Size Code		015	025	032	040	050	065	080	100	125
	Size		15 (0.5)	25 (1)	32 (1.25)	40 (1.5)	50 (2)	65 (2.5)	80 (3)	100 (4)	125 (5)
	Lining Code		A	A	A	A	A	A	A	A	A
Remote Sensor	Lay Length	L	126 (4.96)	126 (4.96)	126 (4.96)	126 (4.96)	136 (5.35)	156 (6.14)	176 (6.93)	206 (8.11)	276 (10.87)
	Outer Diameter	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	Height	H1	116 (4.57)	116 (4.57)	116 (4.57)	129 (5.08)	149 (5.87)	166 (6.54)	176 (6.93)	202 (7.95)	230 (9.06)
Remote Sensor	Maximum Height	Hr	233 (9.17)	233 (9.17)	233 (9.17)	246 (9.69)	266 (10.47)	283 (11.14)	293 (11.54)	319 (12.56)	347 (13.66)
	Approx. Weight, Unit: kg (lb) (*1)		3.0 (6.6)	2.7 (6.0)	2.9 (6.4)	3.2 (7.1)	3.9 (8.6)	5.1 (11.2)	5.9 (13.0)	8.1 (17.9)	12.3 (27.1)
Integral Flowmeter	Maximum Height	Hi	278 (10.94)	278 (10.94)	278 (10.94)	291 (11.46)	311 (12.24)	328 (12.91)	338 (13.31)	364 (14.33)	392 (15.43)
	Approx. Weight, Unit: kg (lb)		5.5 (12.1)	5.2 (11.5)	5.4 (11.9)	5.7 (12.6)	6.5 (14.3)	7.6 (16.8)	8.5 (18.7)	10.7 (23.6)	14.9 (32.9)

\*1: When optional code DHC is selected, waterproof glands with union joints and cables are attached.  
 When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.

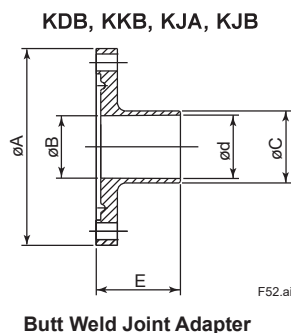
Additional weight for FM (USA) Flameproof (FF2, FJ2, FT2) and FM (Canada) Flameproof (CF2, CJ2, CT2)

Size	15	25	32	40	50	65	80	100	125
Lining Code	A	A	A	A	A	A	A	A	A
Hygienic	0.1	0.1	0.1	0.2	0.3	0.5	0.8	1.3	1.8
Approx. Additional Weight, Unit: kg (lb)	(0.22)	(0.22)	(0.22)	(0.44)	(0.66)	(1.10)	(1.76)	(2.87)	(3.97)

○ Butt Weld Joint Adapter

Unit: mm (approx. in.)

Process Connection Code	KDB: DIN 11850 Piping Butt Weld Joint								
Size Code	015	025	032	040	050	065	080	100	125
Size	15 (0.5)	25 (1)	32 (1.25)	40 (1.5)	50 (2)	65 (2.5)	80 (3)	100 (4)	125 (5)
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)
øB	16.0 (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)	97.0 (3.82)	121.0 (4.76)
øC	20.0 (0.79)	30.0 (1.18)	36.0 (1.42)	42.0 (1.65)	54.0 (2.13)	70.0 (2.76)	85.0 (3.35)	104.0 (4.09)	129.0 (5.08)
ød	16.0 (0.63)	26.0 (1.02)	32.0 (1.26)	38.0 (1.50)	50.0 (1.97)	66.0 (2.60)	81.0 (3.19)	100.0 (3.94)	125.0 (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)
Parts No. (KDB)	F9811 ND	F9811 NE	F9811 NF	F9811 NG	F9811 NH	F9811 NJ	F9811 NK	F9811 NL	F9870 ZP



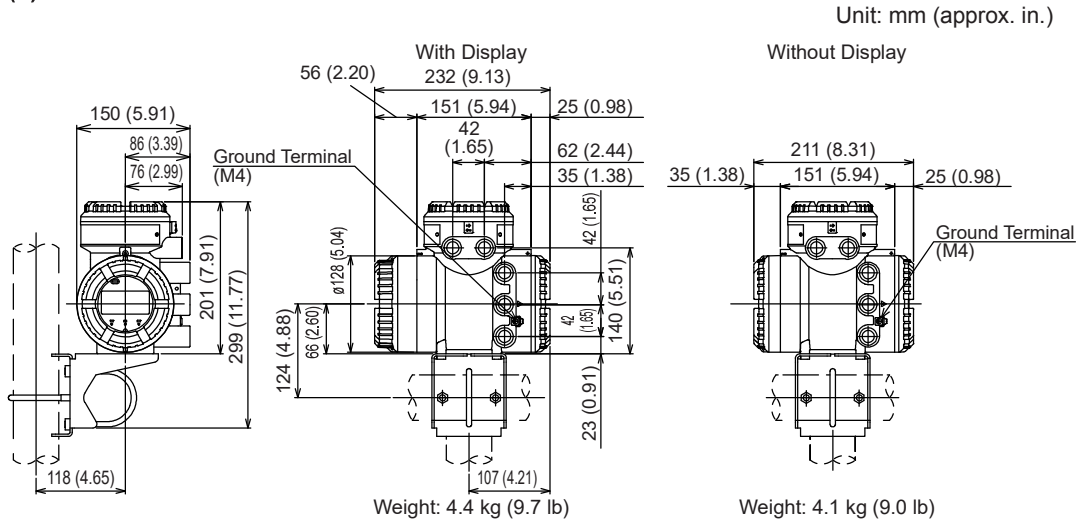
Unit: mm (approx. in.)

Process Connection Code	KKB: ISO 2037 Piping Butt Weld Joint								
Size Code	015	025	032	040	050	065	080	100	125
Size	15 (0.5)	25 (1)	32 (1.25)	40 (1.5)	50 (2)	65 (2.5)	80 (3)	100 (4)	125 (5)
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)
øB	16.0 (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)	97.0 (3.82)	121.0 (4.76)
øC	18.0 (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	15.2 (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)
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)
Parts No. (KKB)	F9811 NN	F9811 NP	F9811 NQ	F9811 NR	F9811 NS	F9811 NT	F9811 NU	F9811 NV	F9870 ZQ

Unit: mm (approx. in.)

Process Connection Code	KJA, KJB: JIS G3447 Piping Butt Weld Joint								
Size Code	015	025	032	040	050	065	080	100	125
Size	15 (0.5)	25 (1)	32 (1.25)	40 (1.5)	50 (2)	65 (2.5)	80 (3)	100 (4)	125 (5)
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)
øB	16.0 (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)	97.0 (3.82)	121.0 (4.76)
øC	21.7 (0.85)	25.4 (1.00)	31.8 (1.25)	38.1 (1.50)	50.8 (2.00)	63.5 (2.50)	76.3 (3.00)	101.6 (4.00)	139.8 (5.50)
ød	17.5 (0.69)	23.0 (0.91)	29.4 (1.16)	35.7 (1.41)	47.8 (1.88)	59.5 (2.34)	72.3 (2.85)	97.6 (3.84)	133.8 (5.27)
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)
Parts No. (KJA)	F9811 MA	F9811 MB	F9811 MC	F9811 MD	F9811 ME	F9811 MF	F9811 MG	F9811 MH	F9870 ZL
Parts No. (KJB)	F9811 MK	F9811 ML	F9811 MM	F9811 MN	F9811 MP	F9811 MQ	F9811 MR	F9811 MS	F9870 ZM

**(2) AXG4A Remote Transmitter**



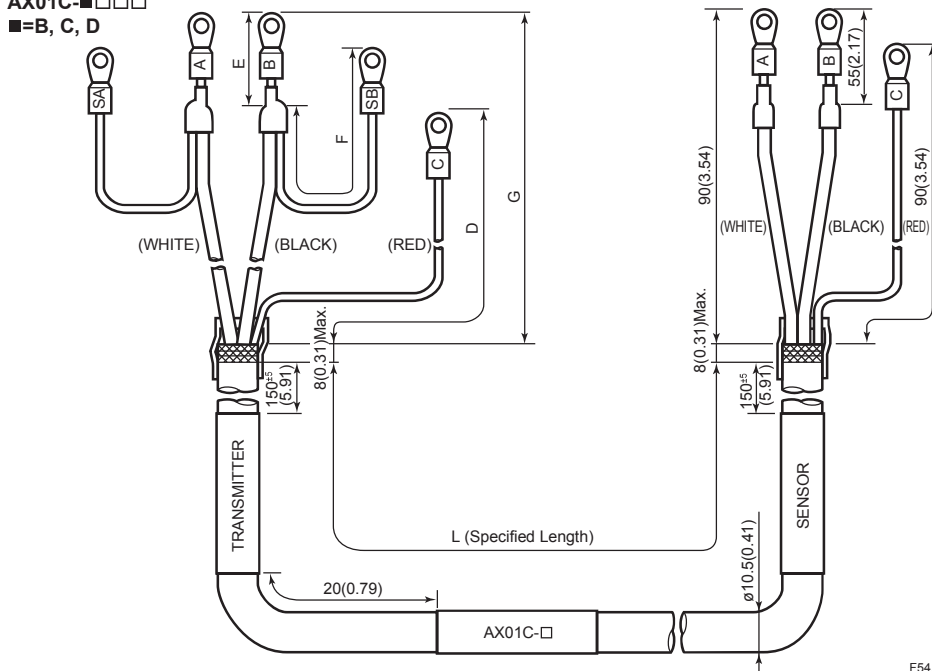
F53.ai

**(3) AX01C Magnetic Flowmeter Signal Cable**

Cable Finish: Finished

AX01C-■□□□  
■=B, C, D

Unit: mm (approx. in.)



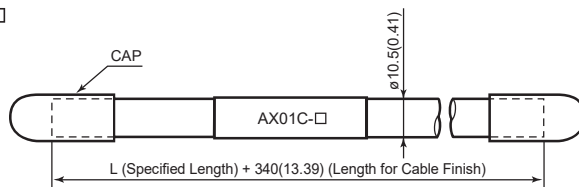
F54.ai

Unit: mm (approx. in.)

Specification Code	Length				Description
	D	E	F	G	
AX01C-B <span style="color: white;">□</span> <span style="color: black;">□</span> <span style="color: white;">□</span> <span style="color: black;">□</span>	70 (2.8)	25 (1.0)	50 (2.0)	60 (2.4)	For AXG1A
AX01C-C <span style="color: white;">□</span> <span style="color: black;">□</span> <span style="color: white;">□</span> <span style="color: black;">□</span>	60 (2.4)	25 (1.0)	70 (2.8)	50 (2.0)	For AXG4A
AX01C-D <span style="color: white;">□</span> <span style="color: black;">□</span> <span style="color: white;">□</span> <span style="color: black;">□</span>	70 (2.8)	25 (1.0)	50 (2.0)	60 (2.4)	AXFA11

Cable Finish: Unfinished

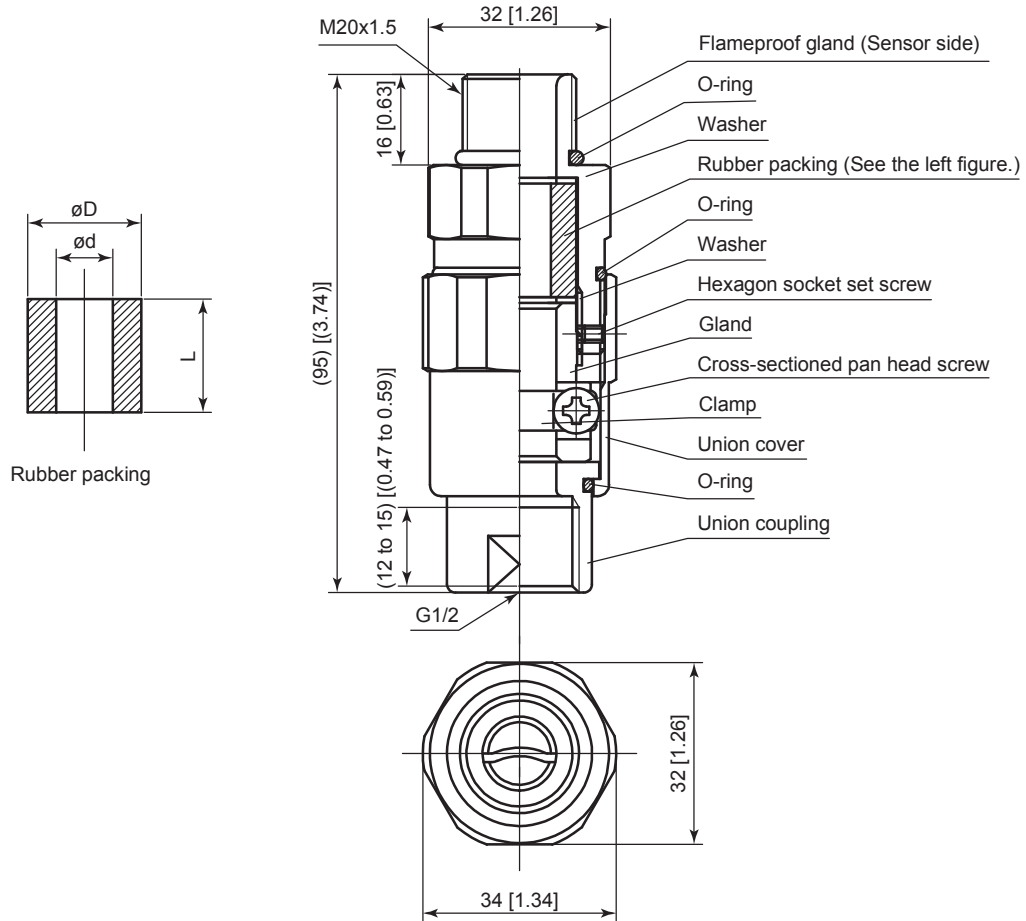
AX01C-■□□□  
■=A



F55.ai

(4) Flameproof Packing Adapter (Optional code V5#: #=1 to 5)

Unit: mm ([ ]: approx.inch)



Unit: mm ([ ]: approx.inch)

Dimensions of rubber packing (before compression)			Identification mark of rubber packing	Cable outer diameter	
L	øD	ød		Min.	Max.
20 [0.79]	ø20 [0.79]	ø10 [0.39]	ø10 [0.39]	ø8.0 [0.31]	ø10.0 [0.39]
20 [0.79]	ø20 [0.79]	ø12 [0.47]	ø12 [0.47]	ø10.0 [0.39]	ø12.0 [0.47]

F56.ai

**(5) Dimensional Tolerance**

Unless otherwise specified, dimensional tolerances on the drawings are as shown in the following table.

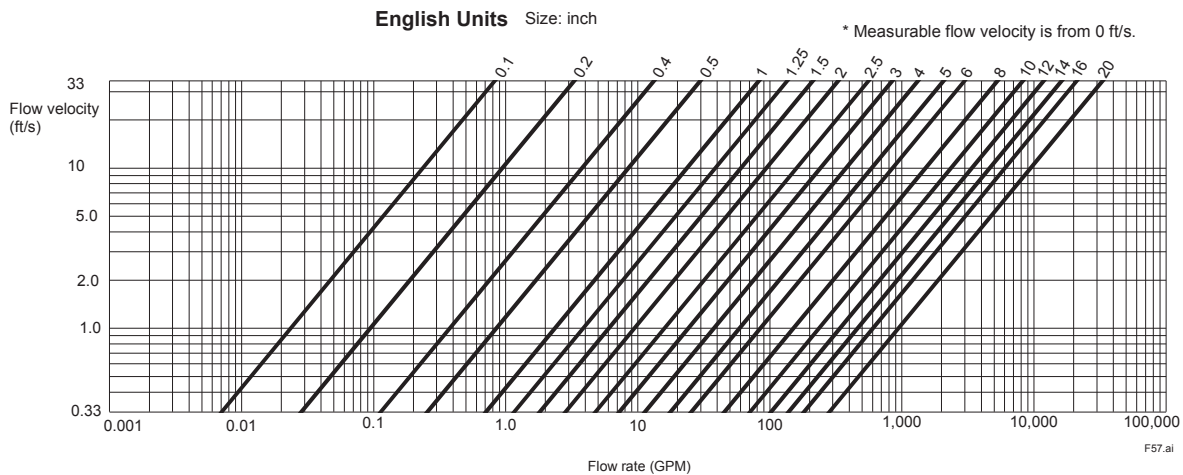
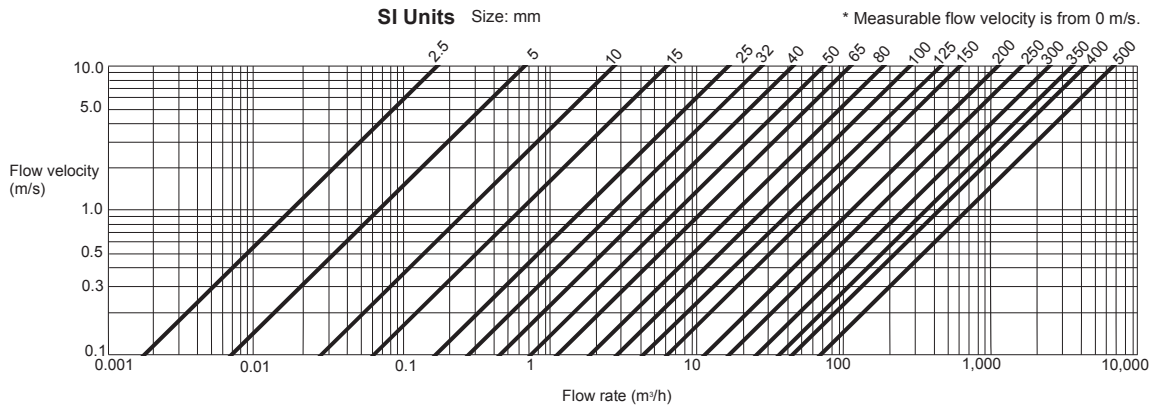
General tolerance in the dimensional outline drawing.

Unit: mm (approx. in.)

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 (±0.22)
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 0401-1.

**■ SIZING DATA**



## ■ ORDERING INFORMATION

**Note 1:** When ordering, the span flow rate, unit, output pulse weight, and totalizer display pulse weight can be specified. These parameters will be set before shipment. In the case of remote type, specify combination information of sensor and transmitter. These parameters will be set in the combined transmitter. When ordering of a remote sensor alone or a remote transmitter alone, these parameters cannot be specified. Custom configuration request is necessary for setting these parameters out of regular setting range.

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

**Note 3:** For AXG4A FOUNDATION fieldbus type remote transmitter, read general specifications (GS 01E21F02-01EN). For AXG1A remote transmitter, read general specifications (GS 01E22C01-01EN). For AXFA11G remote transmitter, read general specifications (GS 01E20C01-01E). The contents and conditions of ordering informations are different.

1. Model, Suffix Code and Optional Code
2. Combination

This is necessary when ordering combination of remote sensor and transmitter. Specify the combination of a sensor and a transmitter one by one by their model name, specification code, or Tag No. etc. On the nameplate of each sensor and transmitter, the serial number of the specified combination partner is described when shipped.

3. Tag No.

The Tag No. can be specified by a combination of uppercase letters, lowercase letters (lower case letters is excluded for HART communication), numbers, "-" (hyphen), "." (period), and " " (space)". Tag No. can be "described on the nameplate and stainless steel tag plate (optional code SCT)" and "set to the memory in the transmitter". Refer to the table below for the item to be specified.

Described/ Setting Destination	Items to be Specified	Maximum Number of Characters
<ul style="list-style-type: none"> <li>• Name plate</li> <li>• Stainless steel tag plate (Optional code SCT)</li> </ul>	TAG NO	30 (*)
<ul style="list-style-type: none"> <li>• Amplifier memory (Integral flowmeter and remote transmitter)</li> </ul>		30 (*) There are restrictions on the write destination parameters. Read the next table.
	SOFTWARE TAG (Overrides "TAG NO" designation)	Read the next table

\*: For AXFA11G remote transmitter, the "TAG NO" is maximum 16 characters.

For integral flowmeter and remote transmitter, the characters specified by "TAG NO" are also written to the memory (parameter) in the amplifier. If it is necessary to specify a different tag number only for the amplifier memory, specify "SOFTWARE TAG". It is also possible to specify only "SOFTWARE TAG". Names of the parameter to be written and the maximum number of characters are as shown in the table below. If the number of specified characters exceed the maximum number, the characters from the beginning up to the maximum number is written.

Tag No. in Amplifier Memory			
Items to be Specified	Communication	Parameter Name	Maximum Number of Characters
TAG NO or SOFTWARE TAG	BRAIN	TAG NO	16
		Long Tag	32 (*)
	HART	Tag	8
		Long Tag	32
	Modbus	Tag	16
		FOUNDATION fieldbus	PDTag

\*: For AXFA11G remote transmitter, the "TAG NO" is maximum 16 characters. And as its HART protocol is HART 5, the "Long Tag" is not available.

4. Span Flow Rate and Unit

Specify the range of span flow rate in the range of 0.0001 to 999999000000.0000 (the number of significant digits in operation is the upper six digits). Up to four digits below the decimal point that can be specified (by 0.0001 unit). However, if the transmitter is BRAIN communication type, specify so that it is within the range of 0.0001 to 32000, it is up to four digits below the decimal point when it is included, and the numerical value excluding the decimal point is within 32000.

Specify units in the unit described in "Flow Calculation Function". This span flow rate is set to the positive first range. Be sure to specify the span flow rate and unit when selecting the Mass Unit Setting (optional code MU), or Specified Span Five-point Calibration (optional code SC). When selecting the NAMUR NE21 (optional code E21), specify the span flow rate of 0.5 m/s or more in terms of flow velocity.

Unless specified, it is set as the following when shipped.

- Integral Flowmeter, or combined with AXG4A or AXG1A Remote Transmitter span flow rate (unit m<sup>3</sup>/h) equivalent to flow velocity 1 m/s
- Combined with AXFA11 Remote Transmitter flow velocity 1 m/s

The measurement flow range (minimum and maximum of span flow rate) is shown below (in the case of flow rate unit m<sup>3</sup>/h and GPM). Specify the span flow within this range. The range specifying different unit must also fall into the same flow rate (flow velocity) range after conversion.

**Measurable Flow Rate Range**

(1) Integral Flowmeter, or combined with AXG4A Remote Transmitter

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

Size (mm)	0 to Min. Span Flow Rate	0 to Min. Span Flow Rate	0 to Max. Span Flow Rate
	m <sup>3</sup> /h (0.1 m/s)	m <sup>3</sup> /h (0.5 m/s)	m <sup>3</sup> /h (10 m/s)
2.5	0 to 0.0018	0 to 0.0089	0 to 0.1767
5	0 to 0.0071	0 to 0.0354	0 to 0.7068
10	0 to 0.0283	0 to 0.1414	0 to 2.8274
15	0 to 0.0637	0 to 0.3181	0 to 6.3617
25	0 to 0.1768	0 to 0.8836	0 to 17.6714
32	0 to 0.2896	0 to 1.4477	0 to 28.9529
40	0 to 0.4524	0 to 2.2620	0 to 45.2389
50	0 to 0.7069	0 to 3.5343	0 to 70.6858
65	0 to 1.1946	0 to 5.9730	0 to 119.459
80	0 to 1.8096	0 to 9.0478	0 to 180.955
100	0 to 2.8275	0 to 14.1372	0 to 282.743
125	0 to 4.4179	0 to 22.0894	0 to 441.786
150	0 to 6.3618	0 to 31.8087	0 to 636.172
200	0 to 11.3098	0 to 56.5487	0 to 1130.97
250	0 to 17.6715	0 to 88.3573	0 to 1767.14
300	0 to 25.4470	0 to 127.235	0 to 2544.69
350	0 to 34.6361	0 to 173.181	0 to 3463.60
400	0 to 45.2390	0 to 226.195	0 to 4523.89

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

Size (in.)	0 to Min. Span Flow Rate	0 to Min. Span Flow Rate	0 to Max. Span Flow Rate
	GPM (0.33 ft/s)	GPM (1.64 ft/s)	GPM (33 ft/s)
0.1	0 to 0.0078	0 to 0.0389	0 to 0.7780
0.2	0 to 0.0312	0 to 0.1557	0 to 3.1122
0.4	0 to 0.1245	0 to 0.6225	0 to 12.4488
0.5	0 to 0.2801	0 to 1.4005	0 to 28.0098
1	0 to 0.7781	0 to 3.8903	0 to 77.8050
1.25	0 to 1.2748	0 to 6.3738	0 to 127.475
1.5	0 to 1.9919	0 to 9.9591	0 to 199.181
2	0 to 3.1123	0 to 15.5611	0 to 311.220
2.5	0 to 5.2597	0 to 26.2982	0 to 525.962
3	0 to 7.9673	0 to 39.8363	0 to 796.724
4	0 to 12.4489	0 to 62.2441	0 to 1244.88
5	0 to 19.4513	0 to 97.2564	0 to 1945.12
6	0 to 28.0099	0 to 140.049	0 to 2800.98
8	0 to 49.7953	0 to 248.977	0 to 4979.52
10	0 to 77.8051	0 to 389.026	0 to 7780.5
12	0 to 112.040	0 to 560.197	0 to 11203.9
14	0 to 152.498	0 to 762.490	0 to 15249.7
16	0 to 199.182	0 to 995.906	0 to 19918.1

(2) Combined with AXG1A Remote Transmitter

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

Size (mm)	0 to Min. Span Flow Rate	0 to Min. Span Flow Rate	0 to Max. Span Flow Rate
	m <sup>3</sup> /h (0.1 m/s)	m <sup>3</sup> /h (0.5 m/s)	m <sup>3</sup> /h (10 m/s)
2.5	0 to 0.0018	0 to 0.0089	0 to 0.1767
5	0 to 0.0071	0 to 0.0354	0 to 0.7068
10	0 to 0.0283	0 to 0.1414	0 to 2.8274
15	0 to 0.0637	0 to 0.3181	0 to 6.3617
25	0 to 0.1768	0 to 0.8836	0 to 17.6714
32	0 to 0.2896	0 to 1.4477	0 to 28.9529
40	0 to 0.4524	0 to 2.2620	0 to 45.2389
50	0 to 0.7069	0 to 3.5343	0 to 70.6858
65	0 to 1.1946	0 to 5.9730	0 to 119.459
80	0 to 1.8096	0 to 9.0478	0 to 180.955
100	0 to 2.8275	0 to 14.1372	0 to 282.743
125	0 to 4.4179	0 to 22.0894	0 to 441.786
150	0 to 6.3618	0 to 31.8087	0 to 636.172
200	0 to 11.3098	0 to 56.5487	0 to 1130.97
250	0 to 17.6715	0 to 88.3573	0 to 1767.14
300	0 to 25.4470	0 to 127.235	0 to 2544.69
350	0 to 34.6361	0 to 173.181	0 to 3463.60
400	0 to 45.2390	0 to 226.195	0 to 4523.89
500	0 to 70.69	0 to 353	0 to 7068

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

Size (in.)	0 to Min. Span Flow Rate	0 to Min. Span Flow Rate	0 to Max. Span Flow Rate
	GPM (0.33 ft/s)	GPM (1.64 ft/s)	GPM (33 ft/s)
0.1	0 to 0.0078	0 to 0.0389	0 to 0.7780
0.2	0 to 0.0312	0 to 0.1557	0 to 3.1122
0.4	0 to 0.1245	0 to 0.6225	0 to 12.4488
0.5	0 to 0.2801	0 to 1.4005	0 to 28.0098
1	0 to 0.7781	0 to 3.8903	0 to 77.8050
1.25	0 to 1.2748	0 to 6.3738	0 to 127.475
1.5	0 to 1.9919	0 to 9.9591	0 to 199.181
2	0 to 3.1123	0 to 15.5611	0 to 311.220
2.5	0 to 5.2597	0 to 26.2982	0 to 525.962
3	0 to 7.9673	0 to 39.8363	0 to 796.724
4	0 to 12.4489	0 to 62.2441	0 to 1244.88
5	0 to 19.4513	0 to 97.2564	0 to 1945.12
6	0 to 28.0099	0 to 140.049	0 to 2800.98
8	0 to 49.7953	0 to 248.977	0 to 4979.52
10	0 to 77.8051	0 to 389.026	0 to 7780.5
12	0 to 112.040	0 to 560.197	0 to 11203.9
14	0 to 152.498	0 to 762.490	0 to 15249.7
16	0 to 199.182	0 to 995.906	0 to 19918.1
20	0 to 311.3	0 to 1556	0 to 31122

(3) Combined with AXFA11 Remote Transmitter

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

Size (mm)	0 to Min. Span Flow Rate	0 to Max. Span Flow Rate
	m <sup>3</sup> /h (0.1 m/s)	m <sup>3</sup> /h (10 m/s)
2.5	0 to 0.0018	0 to 0.1767
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 6.3617
25	0 to 0.1768	0 to 17.6714
32	0 to 0.2896	0 to 28.9529
40	0 to 0.4524	0 to 45.2389
50	0 to 0.7069	0 to 70.6858
65	0 to 1.1946	0 to 119.459
80	0 to 1.8096	0 to 180.955
100	0 to 2.8275	0 to 282.743
125	0 to 4.418	0 to 441.786
150	0 to 6.362	0 to 636.172
200	0 to 11.310	0 to 1130.97
250	0 to 17.672	0 to 1767.14
300	0 to 25.447	0 to 2544.69
350	0 to 34.64	0 to 3463.60
400	0 to 45.24	0 to 4523.89
500	0 to 70.69	0 to 7068

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

Size (in.)	0 to Min. Span Flow Rate	0 to Max. Span Flow Rate
	GPM (0.33 ft/s)	GPM (33 ft/s)
0.1	0 to 0.0078	0 to 0.7780
0.2	0 to 0.0312	0 to 3.1122
0.4	0 to 0.1245	0 to 12.4488
0.5	0 to 0.1946	0 to 19.4512
1	0 to 0.7781	0 to 77.8050
1.25	0 to 1.216	0 to 121.5
1.5	0 to 1.751	0 to 175.0
2	0 to 3.113	0 to 311.2
2.5	0 to 4.863	0 to 486.2
3	0 to 7.003	0 to 700.2
4	0 to 12.45	0 to 1244
5	0 to 19.46	0 to 1945
6	0 to 28.01	0 to 2800
8	0 to 49.80	0 to 4979
10	0 to 77.81	0 to 7780
12	0 to 112.1	0 to 11203
14	0 to 152.5	0 to 15249
16	0 to 199.2	0 to 19918
20	0 to 311.3	0 to 31122

5. Output Pulse Weight (Pulse Status Output 1)  
Specify the volume flow per pulse, after specifying the span flow rate. This output pulse weight is set to the Pulse Status Output 1. Specify it in the same unit as the span flow rate.

(Example: When "m<sup>3</sup>" is selected as "Span Flow Rate", specify "10 m<sup>3</sup>/p" as pulse weight unit.)

The specifiable numerical digit and range is the same as that for "4. Span Flow Rate and Unit".

Unless specified, it is set as the following when shipped.

- Integral Flowmeter, or combined with AXG4A or AXG1A Remote Transmitter 0 [span unit/p]
- Combined with AXFA11 Remote Transmitter 0 pulse/s

6. Totalizer Display Pulse Weight (Totalizer 1)  
Specify the volume flow per pulse, after specifying the span flow rate. This totalizer display pulse weight is set to the Totalizer 1. The set value can be output only in communication as the integrated count of the integral flowmeter and the remote transmitter. Specify it in the same unit as the span flow rate.

(Example: When "m<sup>3</sup>" is selected as "Span Flow Rate", specify "10 m<sup>3</sup>/p" as totalizer display pulse weight unit.)

The specifiable numerical digit and range is the same as that for "4. Span Flow Rate and Unit".

Unless specified, it is set as the following when shipped.

- Integral Flowmeter, or combined with AXG4A or AXG1A Remote Transmitter 1 [span unit/p]
- Combined with AXFA11 Remote Transmitter 0 pulse/s

7. Mass Unit (optional code MU)  
The flow rate calculation is performed in mass unit. In addition to fluid density, specify span flow rate, output pulse weight, and totalizer display pulse weight in mass unit.

The specifiable numerical digit and range is the same as that for "4. Span Flow Rate and Unit".

(1) Density

Numerical Value:

Specify within six digits (up to three digits below the decimal point) in the range of 500 to 2000 kg/m<sup>3</sup> (4.2 to 16.7 lb/gal, 31.2 to 124.8 lb/cf). If BRAIN communication type is selected, specify so that the numerical value excluding the decimal point is within 32000.

Unit:

kg/m<sup>3</sup>, lb/gal, lb/cf

The density of water is about 1000 kg/m<sup>3</sup>. Then specify "1000 kg/m<sup>3</sup>" in this case. However, as the density varies with temperature, specify the density at the time of flow measurement.

(2) Span Flow Rate

Numerical Value:

When setting the mass span flow rate, calculate the volume span flow rate from the "density" and it must be within the measurable flow rate range. The settable numerical range for the mass span flow rate is the same as that for the volume span flow rate.

Unit:

Mass Unit: t, kg, g, klb, lb

Time Unit: /d, /h, /min, /s

(3) Output Pulse Weight, Totalizer Display Pulse Weight

Set the value with the same unit as that for the mass span flow rate.

8. Specified Span Five-point Calibration (optional code SC)

A flow test at the five points around 0, 25, 50, 75, 100% of the customer specified span is performed. In the test certificate (QIC), the result for the customer specified span is recorded instead of that for the standard flow rate of 2 m/s (6.56 ft/s). Corresponding flow velocity of the selectable span lies between 0.5 to 10 m/s (1.64 to 33 ft/s) or 0.8 to 10 m/s (2.62 to 33 ft/s). The latter is applied when the size is 32, 65, or 125 mm (1.25, 2.5, or 5 in.). It is also limited by the capacity of our flow test facility. Specify it within the following range. The specifiable numerical digit and range is the same as that for "4. Span Flow Rate and Unit".

Selectable Range of Span Flow Rate

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

Size (mm)	Min. Span Flow Rate	Max. Span Flow Rate
	m <sup>3</sup> /h (m/s)	m <sup>3</sup> /h (m/s)
2.5	0.009 (0.5)	0.05 (2.83)
5	0.036 (0.5)	0.20 (2.83)
10	0.15 (0.5)	0.96 (3.40)
15	0.32 (0.5)	2.80 (4.40)
25	0.89 (0.5)	11.0 (6.22)
32	2.32 (0.8)	28.9 (9.98)
40	2.27 (0.5)	28.0 (6.19)
50	3.54 (0.5)	56.0 (7.92)
65	9.56 (0.8)	80.0 (6.70)
80	9.05 (0.5)	126 (6.96)
100	14.2 (0.5)	190 (6.72)
125	35.4 (0.8)	300 (6.79)
150	31.9 (0.5)	380 (5.97)
200	56.6 (0.5)	670 (5.92)
250	88.4 (0.5)	1000 (5.66)
300	128 (0.5)	1200 (4.72)
350	174 (0.5)	1200 (3.46)
400	227 (0.5)	1350 (2.98)
500	354 (0.5)	7068 (10.0)

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

Size (in.)	Min. Span Flow Rate	Max. Span Flow Rate
	GPM (ft/s)	GPM (ft/s)
0.1	0.039 (1.64)	0.2201 (9.28)
0.2	0.1557 (1.64)	0.8805 (9.28)
0.4	0.6225 (1.64)	4.2267 (11.1)
0.5	1.4005 (1.64)	12.328 (14.4)
1	3.8903 (1.64)	48.4315 (20.4)
1.25	10.1981 (2.62)	127.242 (32.7)
1.5	9.9591 (1.64)	123.280 (20.3)
2	15.5611 (1.64)	246.560 (25.9)
2.5	42.0770 (2.62)	352.229 (21.9)
3	39.8363 (1.64)	554.761 (22.8)
4	62.2441 (1.64)	836.544 (22.0)
5	156.052 (2.62)	1320.86 (22.2)
6	140.050 (1.64)	1673.08 (19.5)
8	248.977 (1.64)	2949.92 (19.4)
10	389.026 (1.64)	4402.86 (18.5)
12	560.197 (1.64)	5283.44 (15.4)
14	762.490 (1.64)	5283.44 (11.3)
16	995.906 (1.64)	5943.87 (9.78)
20	1556.11 (1.64)	31119.4 (32.8)

9. Direction of Cable Entry (optional code RH)

Rotate the transmitter of integral flowmeter or the terminal box of remote sensor and change the direction of the cable entry. See the table below and specify either +90, +180, or -90 degree. When the direction of cable entry is not changed, optional code RH is not necessary.

	Direction of Cable Entry			
	Standard (0 degree)	+90 degree rotation	+180 degree rotation	-90 degree rotation
Integral Flowmeter				
Remote Sensor				

10. Direction of Display

When the specification "With Display" is selected for the integral flowmeter or the remote transmitter, specify direction of the display. For the integral flowmeter, specify according to the horizontal or vertical direction of the installation piping. For the remote transmitter, specify according to the positional relation of mounting bracket or mounting pipe.

	Direction of Display		Without Display
	Horizontal	Vertical	
Integral Flowmeter			
Remote Transmitter			

11. Fluid Name

12. Modbus Protocol parameters

Specify the following parameters for Modbus communication.

Parameter to be specified	Selectable value
Baud rate [bps]	1200, 2400, 4800, 9600, 19200*, 38400, 57600, 115200
Stop bit	1 bit*, 2 bits
Parity bit	Odd, Even*, None
Slave address	1* to 247 (decimal value.)

\*: Factory default setting. If the parameter is not specified at ordering, these settings are applied to the parameter for Modbus communication.

## ■ RELATED INSTRUMENTS

Product	Document Number
AM012 Calibrator for Magnetic Flowmeter	GS 1E6K2-E
BT200 BRAIN TERMINAL	GS 01C00A11-00EN
AXFA11G Magnetic Flowmeter Remote Converter	GS 01E20C01-01E
AXG1A Magnetic Flowmeter Remote Transmitter	GS 01E22C01-01EN
ADMAG CA Capacitance Magnetic Flowmeter	GS 01E08B01-00E
FieldMate Versatile Device Management Wizard	GS 01R01A01-01E
ADMAG TI Series AXW Magnetic Flowmeter [Size: 25 to 400 mm (1 to 16 in.)]	GS 01E24A01-01EN
ADMAG TI Series AXW Magnetic Flowmeter [Size: 500 to 1800 mm (20 to 72 in.)]	GS 01E25D11-01EN
ADMAG TI Series FOUNDATION fieldbus	GS 01E21F02-01EN
FSA130 ADMAG TI Verification Tool	GS 01E21A04-01EN

## ■ REFERENCE STANDARD

Design and Test on Magnetic Flowmeters:

JIS B 7554(1997), ISO 20456(2017),  
NAMUR NE70(2006), ASME MFC-16-2014

## ■ TRADEMARKS

HART is a registered trademark of FieldComm Group.

Viton is a registered trademark of DuPont.

Tri-Clamp is a registered trademark of Alfa Laval.

Modbus is a registered trademark of AEDG Schneider.

"FOUNDATION" in "FOUNDATION fieldbus" is a registered trademark of FieldComm Group.

3-A is a registered trademark of 3-A Sanitary Standard, Inc.

ADMAG, AXG, AXW, BRAIN TERMINAL, and FieldMate are registered trademarks of Yokogawa Electric Corporation.

All other company and product names mentioned in this document are trade names, trademarks or registered trademarks of their respective companies.

In this document, trademarks or registered trademarks are not marked with <sup>TM</sup> or <sup>®</sup>.

Note: The terms "transmitter" and "sensor" in this document are used in the same manner as "converter" and "flowtube" respectively which are used for our previous magnetic flowmeter models.

### <Information on EU WEEE Directive>

EU WEEE (Waste Electrical and Electronic Equipment) Directive is only valid in the EU.

This instrument is intended to be sold and used only as a part of equipment which is excluded from WEEE

Directive, such as large-scale stationary industrial tools, a large-scale fixed installation and so on, and, therefore, subjected to the exclusion from the scope of the WEEE Directive. The instrument should be disposed of in accordance with local and national legislation/regulations.