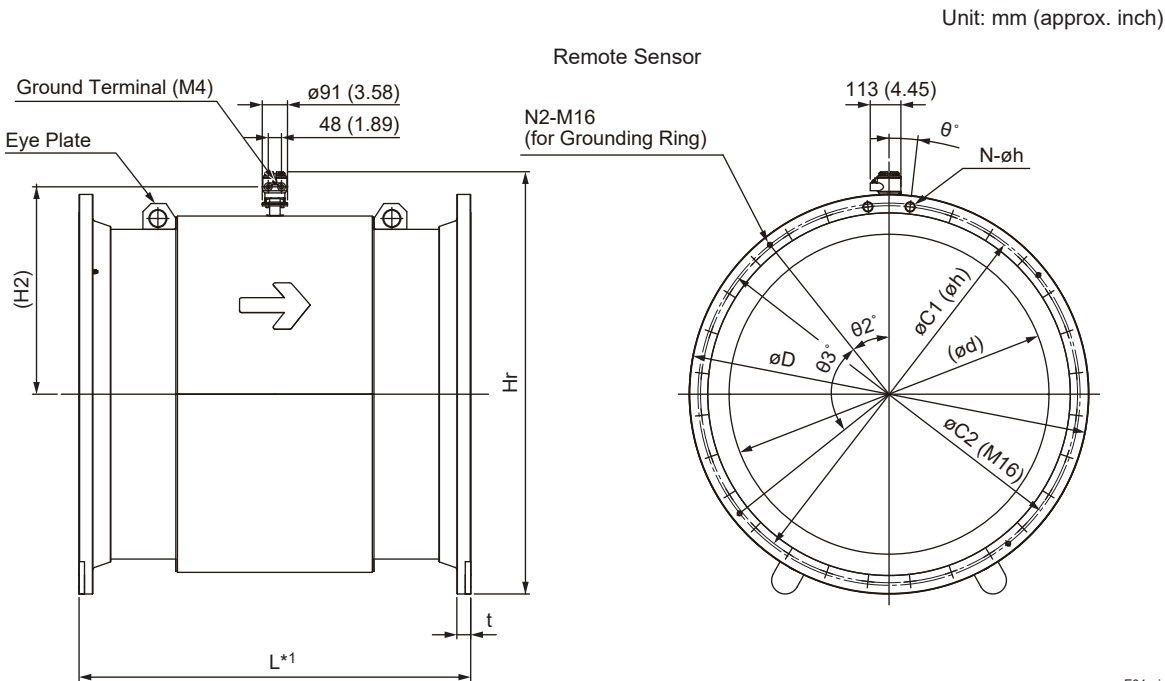


Drawings

ADMAG TI Series
AXW Magnetic Flowmeter
[Size: 1100 to 1800 mm (44 to 72 in.)]
Flange JIS F12 (Process Connection Code CG1)
Grounding Ring (Optional Code GR2)
[Style: S2]

SD 01E25D12-06EN



*1: The thickness of optional grounding rings with gaskets are not included in "L" here.

	Direction of Cable Entry			
	Standard (0°)	+90° rotation Optional Code RA	+180° rotation Optional Code RB	-90° rotation Optional Code RC
Remote Sensor	Front side 	Cable Entry 	Back side 	Cable Entry

* When optional code RA, RB, or RC is selected,
the direction of cable entry is as shown on the left.

Unless otherwise specified, limit deviations in the drawing are specified as : General limit deviation = ± (Criteria of standard tolerance grade IT18 in JIS B0401-1) / 2

Model code:

AXW - - CG1N -

Unit: mm (approx. in.)

Process Connection Code		CG1					
Flange Type		JIS G3443-2 F12					
Size Code		11L	12L	13L	15L	16L	18L
Size		1100 (44)	1200 (48)	1350 (54)	1500 (60)	1600 (64)	1800 (72)
Lining Code		U					
Lay Length L		1320 (51.97)	1440 (56.69)	1620 (63.78)	1800 (70.87)	1920 (75.59)	2160 (85.04)
Flange Outer Diameter øD		1366 (53.78)	1470 (57.87)	1642 (64.65)	1800 (70.87)	1915 (75.39)	2115 (83.27)
Flange Thickness (*1) (incl. lining flare)	Lining U	49 (1.93)	51 (2.01)	53 (2.09)	56 (2.20)	63 (2.48)	65 (2.56)
Flange Bolt Circle Diameter øC1		1283 (50.51)	1387 (54.61)	1552 (61.10)	1710 (67.32)	1820 (71.65)	2020 (79.53)
Grounding Ring Bolt Circle Diameter øC2		1302 (51.26)	1406 (55.35)	1562 (61.50)	1718 (67.64)	1824 (71.81)	2032 (80.00)
Grounding Ring Inner Diameter ød	Lining U	1071 (42.17)	1172 (46.14)	1322 (52.05)	1469 (57.83)	1565 (61.61)	1759 (69.25)
Flange Bolt Hole Pitch Half Angle θ		7.5°	6.4°	6.4°	5.6°	5°	4.1°
Grounding Ring Bolt Hole Pitch Half Angle θ2		45°	38.57°	38.57°	45°	40°	24.55°
Grounding Ring Bolt Hole Pitch Angle θ3		90°	90°	90°	90°	90°	40.91°
Flange Bolt Hole Diameter øh		33 (1.30)	33 (1.30)	39 (1.54)	39 (1.54)	39 (1.54)	39 (1.54)
Number of Flange Bolt Holes N		24	28	28	32	36	44
Number of Grounding Ring Bolt Holes N2		4	4	4	4	4	8
Height H2		712 (28.03)	763 (30.02)	840 (33.05)	913 (35.94)	961 (37.83)	1060 (41.73)
Height Hr		1449 (57.03)	1551 (61.06)	1714 (67.48)	1867 (73.48)	1972 (77.64)	2171 (85.47)
Inner Diameter of Eye Plate		60 (2.36)	60 (2.36)	70 (2.76)	70 (2.76)	70 (2.76)	80 (3.15)
Remote Sensor, Approx. Weight, Unit: kg (lb) (*2)		910 (2006)	1060 (2337)	1430 (3153)	1770 (3902)	2090 (4608)	2890 (6371)
Grounding Rings (GR2) (*3)(*4)		+58 (+2.28)	+58 (+2.28)	+58 (+2.28)	+58 (+2.28)	+62 (+2.44)	+62 (+2.44)

*1: The limit deviation of the flange thickness "t" is as follows.

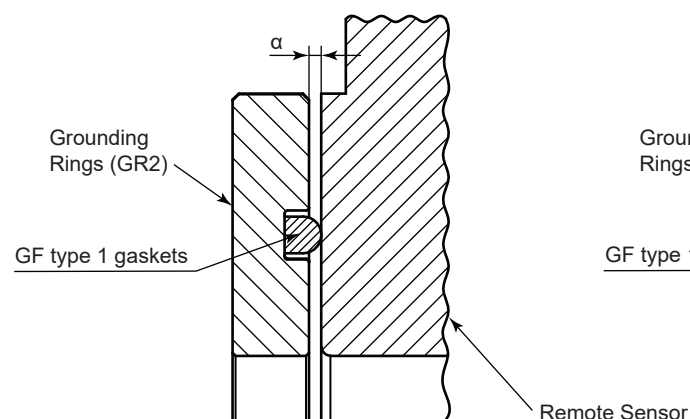
• Size 1100 to 1800 mm (44 to 72 in.): +5/-0 mm (+0.20/-0 in.)

*2: When submersible type 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.

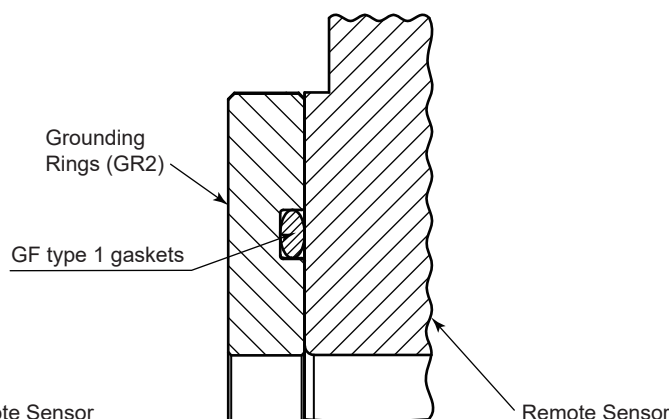
*3: The grounding rings (optional code GR2) are installed and locked onto the remote sensor with gaskets B when shipped from factory. Refer to "CAUTIONS ON SELECTION AND INSTALLATION". The GF type 1 gaskets by JIS G 3443-2 are used for the gaskets B.

*4: When selecting this optional grounding rings, the value which is the thickness of both ends is added to the lay length "L".
At the time of product shipment, the value (which is the thickness of both ends) is the total value obtained by adding the thickness of the grounding ring and the convexity (α) of the gasket as shown in the figure on the lower left.
Also when connecting the customer pipe flanges and the remote sensor, the grounding ring and the remote sensor are in close contact as shown in the figure on the lower right.
Therefore, the value (25 mm \times 2 = +50 mm) added to the lay length is the thickness of the ground ring only.
Refer to "Grounding Ring (Optional Code GR2)".

At the time of product shipment

Customer Pipe Side \longleftrightarrow Remote Sensor Side

When connecting the customer pipe flanges and the remote sensor

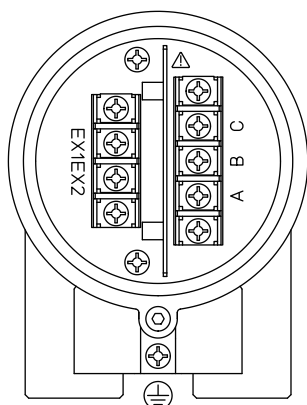
Customer Pipe Side \longleftrightarrow Remote Sensor Side


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Terminal Configuration and Wiring

Remote Sensor:

<To be wired to Remote Transmitter>



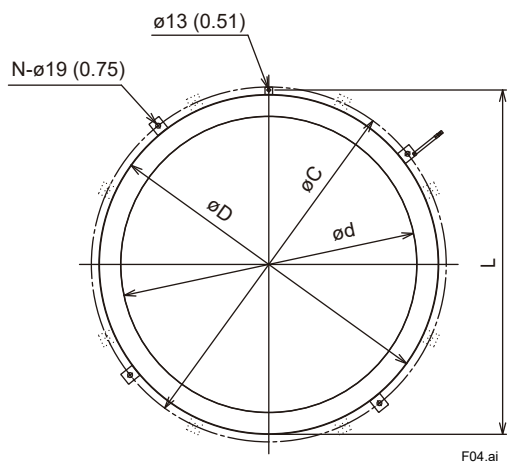
Terminal Symbol	Description
A B C	Flow Signal Output
EX1 EX2	Excitation Current Input
	Protective Grounding (Outside of the terminal box)

F03.ai

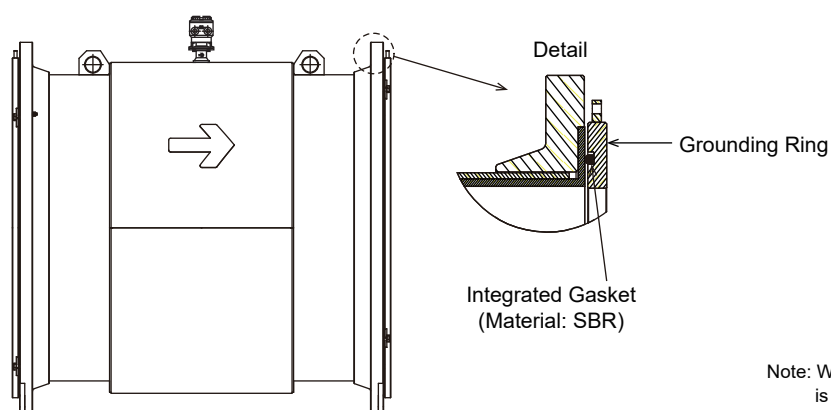
Note: When submersible use or optional code DHC is selected, waterproof glands with union joints and cables are attached.

● **Grounding Ring (Optional Code GR2) for size 1100 to 1800 mm (44 to 72 in.)**

Unit: mm (approx. inch)



Process Connection Code	CG1					
Flange Type	JIS G3443-2 F12					
Size Code	11L	12L	13L	15L	16L	18L
Size	1100 (44)	1200 (48)	1350 (54)	1500 (60)	1600 (64)	1800 (72)
Lining Code	U					
Ring Outer Diameter øD	1242 (48.90)	1346 (52.99)	1502 (59.13)	1658 (65.28)	1764 (69.45)	1972 (77.64)
Ring Inner Diameter ød	1071 (42.17)	1172 (46.14)	1322 (52.05)	1469 (57.83)	1565 (61.61)	1759 (69.25)
Bolt Circle Diameter øC	1302 (51.26)	1406 (55.35)	1562 (61.50)	1718 (67.64)	1824 (71.81)	2032 (80.00)
Length L	1260 (49.61)	1364 (53.70)	1520 (59.84)	1676 (65.98)	1782 (70.16)	1990 (78.35)
Number of Bolt Holes N	4	4	4	4	4	8
Thickness	25 (0.98)					
Approx. Weight, Unit: kg (lb)	59.3 (131)	65.7 (145)	75.8 (167)	88.3 (195)	92.4 (204)	114.2 (252)



Note: When optional code GR2 (grounding rings) is selected, the gaskets are built-in.

Reference Drawing: Remote Sensor with Grounding Rings

F05.ai